1. Молба

НАУЧНОМ ВЕЋУ ИНСТИТУТА ЗА ФИЗИКУ

Предмет: Захтев за покретање поступка за **реизбор у звање виши научни сарадник**

Молим Научно веће Института за физику у Београду да у складу са Правилником о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача, покрене поступак за мој реизбор у звање виши научни сарадник.

Београд, 19. 12. 2017. године

др Зорица Лазаревић
виши научни сарадник
Институт за физику у Београду

2. Saglasnost rukovodioca projekta

НАУЧНОМ ВЕЋУ ИНСТИТУТА ЗА ФИЗИКУ

Предмет: Мишљење руководиоца пројекта са предлогом чланова комисије за писање извештаја

Др Зорица Лазаревић је запослена у Институту за физику и ангажована је на пројекту Интегралних интердисциплинарних истраживања Министарства просвете, науке и технолошког развоја Републике Србије - **Оптоелектронски нанодимензиони системи - пут ка примени**. Она је руководилац *потпројекта* - **Синтеза наноматеријала и структура**. Рангирана је у физици као А1, па предлажем да мишљење о квалитету њеног рада да Матични одбор за физику, као што је то било у случају за избор у звање вишег научног сарадника.

Пошто испуњава све предвиђене услове, у складу са Правилником о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача, сагласан сам са покретањем поступка за **реизбор** др Зорице Лазаревић у звање **виши научни сарадник**.

Предлог чланова Комисије за писање извештаја

1. Др Небојша Ромчевић, научни саветник, 1. референт
   Институт за физику, Београд

2. Др Јелена Трајић, виши научни сарадник
   Институт за физику, Београд

3. Др Весна Радојевић, редовни професор
   Технолишко-металуршки факултет, Београд

Београд, 19. 12. 2017. године

Руководилац пројекта III45003

Др Небојша Ромчевић
научни саветник

3. Биографија

Име и презиме: Зорица Лазаревић (рођена Стевановић)

Рођен/а: 30.11.1968. у Ваљеву

Образовање: Др Зорица Лазаревић је завршила основну и средњу школу у Ваљеву. Основне студије је завршила на Технолошко-металуршком факултету у Београду на електрохемијског групи неорганско-технолошког одсека.

Последипломске студије из области конверзија енергије у Центру за мултидисциплинарне студије Универзитета у Београду је уписала 1997. године. Магистарску тезу под називом "*Катафоретске епоксидне превлаке на алуминијуму и модификованим површинама алуминијума*" је одбранила 2003. године.

Докторску дисертацију под називом "*Утицај механички активиране синтезе на структуру и својства перовскитне слојевите бизмут-титанатне керамике*" је одбранила 2007. године. Истраживачко звање истраживач-сарадник стекла је 2005. године. У научно звање научни сарадник изабрана 2008. године а у звање виши научни сарадник изабрана 2013. године.

Научна звања:

- Научни сарадник - Институт за физику, 21.05.2008. године.
- Виши научни сарадник - Институт за физику, 26.06.2013. године.

Комисија за стицање научних звања је по претходно прибављеном мишљењу Матичног одбора за физику на седници одржаној 26.06.2013. године, донела одлуку о стицању научног звања ***Виши научни сарадник*** у области природно-математичких наука - физика.

Запослење:

Од 1996. године била је запослена у Агенцији за рециклажу при Министарству науке и заштите животне средине у Београду, са звањем стручни сарадник. Одмах након завршених основних студија је радила и изабрана у звање асистента на Катедри за органску хемију на Технолошком факултету у Зворнику, Универзитет Српско Сарајево, Република Српска.

Део своје истраживачке делатности у периоду од 2001-2005. године је изводила у Институту за хемију у Арараквари, држава Сао Пауло у Бразилу. Од 2005. године запослена у Институту за физику у Београду.

4. Преглед научне активности

Досадашњи научно-истраживачки рад др Зорице Лазаревић односио се на физику материјала, пре свега из области оксидних керамичких и нанофазних материјала. Истраживања су првенствено била орјентисана на електронску керамику, као што су фероелектрични материјали, на развој нових и модификацију већ познатих метода синтезе, испитивање оптоелектронских, електричних и микроструктурних карактеристика, као и на могућност примене механохемијских поступака синтезе. Такође се бавила синтезом и карактеризацијом $Bi_4Ti_3O_{12}$, $BaBi_4Ti_4O_{15}$, La- и Sb-допираног и недопираног $BaTiO_3$, као и неких других материјала перовскитне структуре. Последња година њеног рада је базирана на добијању наноструктурних ферита поступком софт механохемијске синтезе полазећи од хидроксида, њиховој карактеризацији различитим методама, са акцентом на коришћењу Раман и инфрацрвене спектроскопије, као и магнетним мерењима. У оквиру наведених истраживања остварила је сарадњу са већим бројем институција из земље и иностранства.

Др Зорица Лазаревић се налази у А1 категорији истраживача и учествује на пројектима Министарства просвете, науке и технолошког развоја Републике Србије, као и на међународним пројектима.

- Сада је ангажована као активни члан на пројекту Интегралних интердисциплинарних истраживања Министарства просвете и науке Републике Србије - **Оптоелектронски нанодимензиони системи - пут ка примени**, број 45003 (2011-2014.).
- У оквиру пројекта број 45003 *руководи потпројектом* - **Синтеза наноматеријала и структура**.
- Била је активни члан на пројекту основних истраживања Министарства науке Републике Србије - **Спектроскопија елементарних екситација код полумагнетних полупроводника** (2007-2010).
- *Водила је иновациони пројекат* Министарства за науку и технолошки развој Републике Србије - **Производња магнетооптичког сензорског кристала** (2008-2009.). Резултат пројекта су монокристали $Bi_{12}GeO_{20}$ који су уграђени у уређај - фибер-оптички сензор струје.
- Била је члан тима КРИСТАЛ, који је од стране Министарства науке Републике Србије освојио прву награду "Такмичење за најбољу технолошку иновацију у Србији 2006. године".
- Узела је активно учешће у раду акције COST 539 - "Electroceramics from Nanopowders Produced by Innovative Methods - ELENA" (2005-2009.) - акција која припада Домену материјала, област Наноструктурни материјали и нанотехнологије.

Др Зорица Лазаревић је 2009. године добила годишњу награду Центра за физику чврстог стања и нове материјале Института за физику, за изузетан допринос у повећању продуктивности рада на научним пројектима Центра у периоду 2006-2010. године.

Освојила је награду за најбољу усмену презентацију рада: "*Raman study of ferroelectric bismuth titanate*", на конференцији The First Serbian Ceramic Society Conference: Advanced Ceramic Materials and Application, одржаној у Београду од 10-12. 05. 2012 године. Такође, освојила награду за најбољу постер презентацију

рада: "*Growth, structural and optical studies of neodymium doped yttrium aluminum garnet*" на конференцији The Third Serbian Ceramic Society Conference: Advanced Ceramic Materials and Application, 2014 године.

Од марта 2012. године је *рукодилац-кординатор* пројекта који се реализује у оквиру билатералне сарадње, а на основу Споразума о научној сарадњи између Института за физику Пољске академије наука и Института за физику Београд.

Др Зорица Лазаревић је у организационом и научном одбору међународне конференције *Serbian Ceramic Society Conference: Advanced Ceramics Application* која се одржава у Београду од 2012. године.

Ангажована је као рецензент у часописима *Journal of Physics and Chemistry of Solids, Journal of Raman Spectroscopy, Journal of the European Ceramic Society, Corrosion Science, Journal of Alloys and Compounds, Ferroelectrics, Materials Research Bulletin, Acta Physica Polonica A, Physica Scripta, Science of Sintering, Thin Solid Films, Tehnika*.

Члан је Српског хемијског друштва, Друштва за керамичке материјале Србије које је пуноправни члан European Ceramic Society – ECERS, Српког керамичког друштва, Бразилске асоцијације за керамику - секција за материјале.

Поред научних, др Зорица Лазаревић бавила се и педагошким активностима као што су држање лабораторијских и рачунских вежби из органске хемије, предавања и оцењивања студената. У време боравка у Бразилу је одржала предавање по позиву, студентима посдипломцима на Федералном Универзитету Гојас, Gojanija Бразил (*Universidade Federal de Goiás, Goiânia, Brasil*).

У својој каријери др Зорица Лазаревић је као аутор или коаутор, објавила више од 140 научних радова, у часописима од међународног значаја, у домаћим часописима, међународним и домаћим конференцијама, као и Збирку задатака и Практикум из органске хемије и успешно је одбранила магистрску тезу и докторску дисертацију. Може се навести да је 3 рада објављено у међународним часописима изузетних вредности, 16 радова у врхунским међународним часописима, 18 радова у истакнутим међународним часописима, 26 радова у међународним и 4 у домаћим часописима.

Од последњег избора до данас др Зорица Лазаревић је аутор или коаутор 49 радова који су презентовани у међународним часописима и саопштењима на међународним конференцијама. Може се нагласити да је она први аутор на 38 радова и саопштења. Од тога, 25 радова је публиковано у часописима са ISI листе и то: 8 радова у врхунским (М21), 9 у истакнутим (М22) и 8 у међународним часописима (М23). Коришћењем базе података *Web of Science* је пронађено да су научни радови др Зорица Лазаревић до сада цитирани 259 пута у међународним часописима, не рачунајући аутоцитате. Хиршов индекс је $h = 11$.

Њен истраживачки рад након основних студија до одбране магистратуре је био из физичке хемије и електрохемије, тј. у области електрохемијског таложења органских превлака и заштита од корозије алуминијума и модификованих површина алуминијума органским превлакама.

Научни рад др Зорице Лазаревић од 2003. године се одвија у оквиру физике материјала, пре свега из области оксидних керамичких и нанофазних материјала. Истраживања су првенствено била орјентисана на електронску керамику, као што су фероелектрични материјали, на развој нових и модификацију већ познатих метода синтезе, испитивање оптоелектронских, електричних и микроструктурних карактеристика, као и на могућност примене механохемијских поступака синтезе. Научне активности обухватају експериментални рад, обраду резултата и теоријску анализу испитиваних материјала. Заједно са колегама врши експериментална мерења спектара рефлексије у инфра-црвеној области, снимање Рамановних спектара, мерења на елипсометру, а у оквиру сарадње са Пољском академијом наука и Винчом обавља магнетна и Мосбауер (Mössbauer) мерења. Добијени експериментални резултата се анализирају, примењују се постојећи или се развијају нови модели, и долази се до јасне слике о особинама испитиваних материјала. Такође се бавила синтезом и карактеризацијом $Bi_4Ti_3O_{12}$, $BaBi_4Ti_4O_{15}$, La- и Sb-допираног и недопираног $BaTiO_3$, као и неких других матерјала перовскитне структуре. Последње године њеног рада су базиране на добијању наноструктурних ферита поступком софт механохемијске синтезе полазећи од хидроксида, њиховој карактеризацији различитим методама, са акцентом на коришћењу Раман и инфрацрвене спектроскопије, као и магнетним мерењима. Други правац истраживања је синтеза монокристала као функционалног носиоца у композиту и уградња у полимерну матрицу и њихова карактеризација.

Према материјалима, који су предмет изучавања, научна активност др Зорице Лазаревић се може сврстати у следеће области:

- Електронска керамика, као што су фероелектрични материјали, и развој нових и модификација већ познатих метода синтезе, испитивање оптоелектронских, електричних и микроструктурних карактеристика, као и на могућност примене механохемијских поступака синтезе.

- Проучавање утицаја услова раста кристала добијених по Чохралском (Czochralski) и по Бриджману (Bridgman) на електричне и оптичке карактеристике.

- Одређивање оптичких особина синтетисаног монокристала као функционалног носиоца у композиту и уградња у полимерну матрицу.

- Оптичке особине полумагнетних полупроводних материјала.

- Магнетни материјали - синтеза и карактеризација наноструктурних ферита.

- Оптичке особине материјала анализираних у оквиру сарадње са колегама из иностранства.

Електронска керамика, као што су фероелектрични материјали, и развој нових и модификација већ познатих метода синтезе, испитивање оптоелектронских, електричних и микроструктурних карактеристика, као и на могућност примене механохемијских поступака синтезе

Променом параметара механохемијског третмана (број обртаја ротирајућег диска, односно, посуда, запремине посуда, масе узорак према маси медијума за механохемијски третман, итд.) као и услова млевења (атмосфера у којој се врши третман, време трајања третмана) на наведеном систему као моделу одређени су оптимални услови синтезе нанокристалних керамичких прахова. Сам ток механохемијског поступка праћен је рендгеноструктурном дифракционом анализом (XRD), инфрацрвеном и Раман спектроскопијом, електронском скенирајућом микроскопијом (SEM), трансмисионом електронском микроскопијом (TEM), одређивањем специфичне површине честица праха (BET), методом енергетски дисперзивне рендгенске спектроскопије (EDS).

Проучавање утицаја услова раста кристала добијених по Чохралском (Czochralski) и по Бриджману (Bridgman) на електричне и оптичке карактеристике

Проучавани су монокристали добијени методом раста кристала по Чохралском (Czochralski) и по Бриджману (Bridgman). Израчунати су критични дијаметар и критична стопа ротације, а одређени су и погодни раствори за полирање и нагризање. При карактеризацији добијених монокристала је коришћен низ експерименталних метода: дифракције X - зрака, инфрацрвена и Раманова спектроскопија. Ови материјали, захваљујући великој разноврсности физичких особина имају велику примену у електронским и оптоелектронским уређајима, где је неопходно да кристали имају малу густину дислокација и велику оптичку хомогеност. Стога се велика пажња посвећује начину и условима добијања узорака. Неки кристали су добијени по методи Чокралског из високо чистих полазних Bi_2O_3 and GeO_2 оксида и оксида мање чистоће и анализиран су уз помоћ XRD, Раман и ИЦ спектроскопије. Индекси преламања су одређени методом елипсометрије. $Bi_{12}GeO_{20}$ кристал прозирно жуте боје је на основу магнетно оптичког квалитета чак 10 пута бољи од комерцијалног материјала. Сврха овог рада је била да се утврди минимална чистоћа оксида неопходних за производњу $Bi_{12}GeO_{20}$ сензорског кристала. Снижење цена поступка производње кристала је један од главних циљева који треба да буде испуњен, да би могао да се користи и угради као оптички сензор на основу Фарадејевог ефекта.

Посебно треба истаћи добијање оксидних кристала итријум-алуминијум гарнета (YAG, $Y_3Al_5O_{12}$) и неодинијумом допираног итријум-алуминијум гарнета (Nd:YAG), као једаном од најпознатијих ласерских кристала, и њихову карактеризацију Раман и инфрацрвеном спектроскопијом. При чему је показана јака метал-кисеоник вибрација карактеристична за везу Al-O.

Одређивање оптичких особина синтетисаног монокристала као функционалног носиоца у композиту и уградња у полимерну матрицу

Модификованом вертикалном методом по Бриджману у вакууму је добијен високо квалитетни монокристал CaF_2. Добијени кристал је испитиван Раман и инфрацрвеном спектроскопијом. Кристална структура је потврђена

ренгеноструктурном анализом. Концентрација дефеката кисеоника у кристалу је испитивана фотолуминисценцијом. Помоћ ових метода је процењен оптички квалитет добијеног монокристала, јер само монокристал доброг оптичког квалитета може даље да се угради у полимерну матрицу и да се добије композит са побољшаним термичким и механичким, а очуваним оптичким својствима.

Оптичке особине полумагнетних полупроводних материјала

Истраживања су рађена на олово-телуриду који је допиран никлом. Извршена су мерења рефлексије у далекој инфрацрвеној области. Код овог материјала је регистрована плазмон-јонизована примеса-фонон интеракција. Код олово-телурида допираног никлом је потврђено постојање три локална мода примеса, који одговарају њиховим различитим наелектрисањима. Анализом спектара рефлексије регистрована је и нехомогеност плазмона. Утврђено је да концентрација слободних носилаца наелектрисања око примесног центра зависи од његовог наелектрисања, односно да интеракција плазмона и фонона зависи од електронског стања примесног центра.

У примењеним истраживањима ово једињење се широко користи у инфрацрвеној оптоелектроници. Употребљава се при изради фотодиода и фотоотпорника, а такође се као и остали полупроводници типа $A^{IV}B^{VI}$ и њихове легуре, превасходно примењују у области пасивних ИЦ пријемника и диодних ласера високе резолуције. Посебно место заузима изучавање утицаја примеса на особине кристала. Мала ширина забрањене зоне омогућује промену спектра и промену стања материјала, коришћењем реално достижних вредности физичких параметара (притисак, магнетно и електрично поље итд.). Стога се PbTe материјали, допирани различитим металима у циљу смањења концентрације слободних носилаца, интензивно изучавају како би били погодни за израду инфрацрвених детектора отпорних на нуклеарно зрачење.

Полупроводници типа $A^{II}B^{VI}$ се интензивно истражују услед велике могућности примене у оптоелектронској индустрији. Полумагнетни полупроводник $Hg_{0.91}Mn_{0.09}Te$-MnSe добијен Бриджмановом (Bridgman) методом је испитиван применом AFM, дифракције X-зрака и инфрацрене спектроскопије у циљу одређивања најбољих услова за раст кристала. Главни фокус је на инфрацрвеној спектроскопији мешавине HgMnTe-MnSe. За анализу спектара је коришћена диелектрична функција која је заснована на Maxwell-Garnett-ovoj формули. Установљено је и постојање нанокластера MnSe. Примењена је Maxwell-Garnett-ова апроксимација ефективног медијума и утврђено је да се MnSe јавља у α и β фази (структура хемијске соли и цинк бленд структура). Плазмон-фонон интеракција се јавља код обе MnSe модификације. Такође је одређен и проценат његовог садржаја у HgMnTe.

Магнетни материјали - синтеза и карактеризација наноструктурних ферита

Последње године рада су усмерене на добијање наноструктурних ферита ($\boldsymbol{M}Fe_2O_4$, $\boldsymbol{M}$ = Mn, Mg, Ni, Zn) и мешовитих ферита ($Ni_{0.5}Zn_{0.5}Fe_2O_4$) спенелне структуре, поступком софт механохемијске синтезе полазећи од хидроксида, њиховој карактеризацији различитим методама као што су ренгено структурна анализа, скенирајућа и трансмисиона електронска микроскопија, Мосбауер

спектроскопија и магнетна мерења, са акцентом на коришћењу Раман и инфрацрвене спектроскопије.
Проучаван је ефекат температуре на електричне и диелектричне карактеристике синтерованих ферита. *AC*-проводности и *DC*-отпорности на синтерованим узорцима ($\boldsymbol{M}Fe_2O_4$, $\boldsymbol{M}$ = Mn, Mg, Ni, Zn) ферита су мерене на собној температури. Вредности електричне проводности показују раст са повећањем температуре, што указује на проводно понашање испитиваних ферита. Феномен проводности испитиваних узорака може бити објашњен на основу модела скока. Анализа експерименталних података показује да је наизменична (*AC*) проводност због механизма скока, што је дискутовано у условима Максвел-Вагнеровог (Maxwell-Wagner) двослојног модела. Диелектрично понашање је објашњено користећи механизам процеса поларизације, који је у корелацији са интеракцијом размене електрона. Анализа комплексном импедансном спектроскопијом је била коришћена за проучавање ефекта зрна и границе зрна на електричне особине код сва три добијена ферита.

Такође, треба поменути и експерименте за добијање итријум-ортоферита ($YFeO_3$) са орторомбичном пероксивитном структуром, поступком механохемијске синтезе и карактеризацију помоћу различитих метода. Мосбауер спектроскопијом на собној температури је потврђен суперпарамагнетни карактер узорка $YFeO_3$.

Оптичке особине материјала анализираних у оквиру сарадње са колегама из иностранства

У оквиру сарадње са колегама из других лабораторија испитиване су оптичке особине материјала којима се они баве. Поред снимања инфрацрвених спектара рефлексије и апсорпције и Раманових спектара дат је и допринос у њиховој анализи и објашњењу регистрованих оптичких карактеристика.

У сарадњи са колегама из Марибора испитиване су оптичке и структурне особине *пластично деформисаног бакра*. При анализи је коришћена инфрацрвена и Раманова спектроскопија и мерења на елипсометру. Утврђено је да није дошло до потпуне аморфизације узорка већ да су присутни нано-кристали бакра. Резултати са елипсометра су анализирани коришћењем двослојног модела и Бругеманове апроксимације ефективног медијума и утврђено је постојање бакар-оксида као и параметри површинске храпавости.

Крајем 2016. године успостављена је сарадња са колегама из Љубљане и Птуја око експеримената везаним за литијум гвожђе фосфат ($LiFePO_4$) при непотпуном сагоревању, који је познати катодни материјал за пуњиве литијум-јонске батерије. Познато је да $LiFePO_4$ одликује изузетна стабилност, али му је недостатак ниска електронска и јонска проводност. Пажња истраживача широм света усмерена је да се испита одакле потичу наведени недостаци и на који начин се они могу отклонити. Карактеризацијом са Раман и инфрацрвеном спектроскопијом, смо покушали да доприносимо бољем разумевању процеса у њима и развоју батерије са побољшаним карактеристикама.

Изабрани радови у којима је допринос др Зорице Лазаревић био кључан

До доласка у Институт за физику др Зорица Лазаревић се бавила експерименталним радом из области физичке хемије и електрохемије, тј. катафоретским таложењем епокседних превлака на алуминијуму и модификованим површинама алуминијума, као и проучавању начина заштите тако добијених превлака од корозионих процеса. Експерименте за докторску дисертацију је започела да изводи у Институту за хемију у Арараквари, држава Сао Пауло у Бразилу, где је различитим структурним методама карактерисала синтетисане фероелектричне материјале. Након доласка у Институт за физику је наставила да се бави физиком чврстог стања на фероелеектричним керамичким материјалима. Ту се прикључила групи истраживача који су се поред осталог бавили физиком материјала.

I рад
Z.Ž. Lazarević, Č. Jovalekić, A. Milutinović, D. Sekulić, V.N. Ivanovski, A. Rečnik, B. Cekić, N.Ž. Romčević,
Nanodimensional spinel $NiFe_2O_4$ and $ZnFe_2O_4$ ferrites prepared by soft mechanochemical synthesis,
Journal of Applied Physics, **113**, (2013) 187221-187221-11, (**ИФ=2.185, 39/136, Physics, Applied**), цитиран до сада 21 пут.

I I рад
Z.Ž. Lazarević, Č. Jovalekić, A. Recnik, V.N. Ivanovski, A. Milutinović, M. Romčević, M.B. Pavlović, B. Cekić, N.Ž. Romčević,
Preparation and characterization of spinel nickel ferrite obtained by the soft mechanochemically assisted synthesis,
Materials Research Bulletin, **48**(2), (2013) 404-415, (**ИФ=2.105, 55/232, Materials Science, Multidisciplinary**), цитиран до сада 15 пута.

I I I рад
A. Milutinović, **Z. Lazarević**, Č. Jovalekić, I. Kuryliszyn-Kudelska, M. Romčević, S. Kostić, N. Romčević,
The cation inversion and magnetization in nanopowder zinc ferrite obtained by soft mechanochemical processing,
Materials Research Bulletin, **48**(11), (2013) 4759-4768, (**ИФ=2.105, 55/232, Materials Science, Multidisciplinary**).

I V рад
S. Kostić, **Z.Ž. Lazarević**, V. Radojević, A. Milutinović, M. Romčević, N.Ž. Romčević, A. Valčić,
Study of structural and optical properties of YAG and Nd:YAG single crystals,
Materials Research Bulletin, **63**, (2015) 80-87, (**ИФ=2.435, 74/271, Materials Science, Multidisciplinary**), цитиран до сада 13 пута, **selected for the most downloaded articles in 2016.**

V рад
Aleksandra Milutinović, **Zorica Ž. Lazarević**, Milka Jakovljević, Branka Hadzić, Milica Petrović, Martina Gilić, Witold Daniel Dobrowolski, Nebojša Ž. Romčević,
Optical properties of layered III-VI semiconductor γ-InSe:M (M: Mn, Fe, Co, Ni),

Journal of Physics and Chemistry of Solids, **89**, (2016) 120-127, (**ИФ=2.059, 34/67, Physics, Condensed Matter**).

У радовима **I** до **I I I** детаљно је приказана софт механохемијска синтеза добијања прахова наноферита и синтерованих магнетних материјала спинелне структуре. Софт механохемијском синтезом у планетарном млину, полазећи од смеше одговарајућих оксид - хидроксид и хидроксид - хидроксид прахова, добијени су нано-прахови никл-ферита ($NiFe_2O_4$), и цинк-ферита ($ZnFe_2O_4$). Испитан је утицај полазних компоненти и дужине млевења на фазни састав добијених једињења. На овај начин се уводи нов и јефтинији метод добијања фероелектричних наноматеријала одговарајућег квалитета. При карактеризацији је коришћен низ експерименталних метода: XRD, SEM, TEM, инфрацрвена и Раманова спектроскопија, Мосбауер и магнетна мерења. Повезани су начини и услови добијања материјала са њиховим структурним особинама. Добијени су степени инверзије који потврђују суперпарамагнетни карактер узорака. Радови су значајни, јер приказују добијање магнетних материјала модификованом методом механохемијске синтезе, са доста резултата добијених различитим методама карактеризације. Доказ за интересовање је релативно велика цитираност за кратак временски период.

Циљ овог рада (**рад IV**) је био да се добије монокристал YAG без и са допантом Nd, високог оптичког квалитета, као и да се испитају параметри раста и услови одгревања, применом теоријског и експерименталног поступка. Раман и инфрацрвеном спекроскопијом су на основу позиције модова одређени типови симетрије и врсте вибрације у тераедарском и октаедарском уређењу.

Рад V

Слојевити полупроводници, па међу њима и γ-InSe, су од великог значаја како за фундаментална, тако и за примењена истраживања јер имају изузетно анизотропске оптичке и електронске особине. Због ових особина, слојевити полупроводници се често користе као фотохемијске електроде. Индијум селенид, са директним енергетским процепом у блиском инфрацрвеном опсегу енергија је атрактиван материјал у области конверзије соларне енергије. Релативно инертне (001) базалне пљосни са ниском густином површинских стања представљају додатну предност за примену у "heterojunction" уређајима. Овај рад представља допринос истраживању утицаја примеса на оптичке особине γ-InSe, посебно на оптички процеп и електронске нивое.

5. Елементи за квалитативну оцену научног доприноса кандидата

5.1. КВАЛИТЕТ НАУЧНИХ РЕЗУЛТАТА

5.1.1. Научни ниво и значај резултата, утицај научних радова

У својој каријери др Зорица Лазаревић је као аутор или коаутор, објавила и презентовала више од 140 научних радова, у часописима од међународног значаја, у домаћим часописима, међународним и домаћим конференцијама, као и Збирку задатака и Практикум из органске хемије. Др Зорица Лазаревић је током научне каријере објавила укупно 63 рада у међународним часописима са ISI листе, од чега 3 рада категорије М21а, 16 радова категорије М21, 18 радова категорије М22 и 18 радова категорије М23. Укупан импакт фактор радова је 68.41. Од одлуке Научног већа о предлогу за стицање претходног научног звања др Лазаревић је објавила 8 радова категорије М21, 9 радова М22 и 8 радова М23. Укупан импакт фактор ових радова је 29.76. Квалитет научног рада др Зорице Лазаревић се може проценити, између осталог, из угледа часописа у којима су радови објављени: др Лазаревић је до сада објавила 3 рада у међународним часописима изузетних вредности, тј. у у часопису изузетних вредности који је први у својој области: *Journal of the European Ceramic Society* (ИФ=2.575, 1/25, Materials Science, Ceramics). Такође, објавила је два рада у часопису изузетних вредности *Corrosion Science* који је други у својој области.
Од последњег избора до данас др Зорица Лазаревић је аутор или коаутор 49 радова који су презентовани у међународним часописима и саопштењима на међународним конференцијама. Може се нагласити да је она први аутор на већини радова и саопштења. Од тога, 25 радова је публиковано у часописима са ISI листе и то: 8 радова у врхунским, 9 у водећим и 8 у међународним часописима. Цитираност радова др Зорице Лазаревић, је преузета из базе података *Web of Science* за период од 1997. до 2017. Године. Пронађено је да су њени научни радови до сада цитирани 259 пут у међународним часописима, не рачунајући аутоцитате (са аутоцитатима 286 пута). Хиршов индекс је h = 11. На основу базе података *Scopus* нађено је 395 цитата, тј. 358 хетероцитата. Хиршов индекс је h = 12.

Најзначајнији радови где је др Лазаревић у последњих неколико година су:

1. **Z.Ž. Lazarević**, Č. Jovalekić, A. Milutinović, D. Sekulić, V.N. Ivanovski, A. Rečnik, B. Cekić, N.Ž. Romčević,
   Nanodimensional spinel $NiFe_2O_4$ and $ZnFe_2O_4$ ferrites prepared by soft mechanochemical synthesis,
   Journal of Applied Physics, **113**, (2013) 187221-187221-11,
   (ИФ=2.185, 39/136, Physics, Applied), цитиран до сада 21 пут.

2. **Z.Ž. Lazarević**, Č. Jovalekić, A. Recnik, V.N. Ivanovski, A. Milutinović, M. Romčević, M.B. Pavlović, B. Cekić, N.Ž. Romčević,
   Preparation and characterization of spinel nickel ferrite obtained by the soft mechanochemically assisted synthesis,
   Materials Research Bulletin, **48**(2), (2013) 404-415,
   (ИФ=2.105, 55/232, Materials Science, Multidisciplinary), цитиран до сада 15 пута.

3. S. Kostić, **Z.Ž. Lazarević**, V. Radojević, A. Milutinović, M. Romčević, N.Ž. Romčević, A. Valčić,
Study of structural and optical properties of YAG and Nd:YAG single crystals,
Materials Research Bulletin, **63**, (2015) 80-87,
(ИФ=2.435, 74/271, Materials Science, Multidisciplinary), цитиран до сада 13 пута, selected for the most downloaded articles in 2016.

4. **Zorica Ž. Lazarević**, Aleksandra N. Milutinović, Čedomir D. Jovalekić, Valentin N. Ivanovski, Nina Daneu, Ivan Mađarević, Nebojša Ž. Romčević,
Spectroscopy investigation of nanostructured nickel-zinc ferrite obtained by mechanochemical synthesis,
Materials Research Bulletin, **63**, (2015) 239-247,
(ИФ=2.435, 74/271, Materials Science, Multidisciplinary), цитиран до сада 4 пута.

5. Dalibor L. Sekulić, **Zorica Ž. Lazarević**, Miljko V. Satarić, Čedomir D. Jovalekić, Nebojša Ž. Romčević,
Temperature-dependent complex impedance, electrical conductivity and dielectric studies of MFe_2O_4 (M=Mn, Ni, Zn) ferrites prepared by sintering of mechanochemical synthesized nanopowders,
Journal of Materials Science: Materials in Electronics, **26**, (2015) 1291-1303,
(**ИФ=1.966, 45/136, Physics, Applied**), **цитиран до сада 8 пута.**

Издвојени радови су експериментални и објављени у часописима категорије М21. Овим радовима је заокружен циклус везан за магнетне материјале, у којима је детаљно приказана софт механохемијска синтеза добијања прахова наноферита и синтерованих магнетних материјала спинелне структуре полазећи од одговарајућих оксида и хидроксида. Кандидат је у реализацији свих радова учествовао тако што је самостално радио на синтези добијених узорака, анализи и дискусији снимљених спектара Раман и инфрацрвеном спектроскопијом, као и у писању целих радова. Мора се истаћи да је у свим наведеним радовима, др Зорица Лазаревић *corresponding author* при писању и слању радова у часописе.

5.1.2. <u>Позитивна цитираност научних радова кандидата</u>

Према подацима са *Web of Science* на дан 11. 12. 2017. године, радови су цитирани укупно 259 пута (са аутоцитатима 286 пута), уз *h*-index једнак 11 (видети прилог о цитираности). На основу базе података *Scopus* нађено је 396 цитата, тј. 359 хетероцитата. Хиршов индекс је $h = 12$.

	ISI Web of Science	*Scopus*
Ukupan broj citata	286	396
Ukupan broj hetero citata	259	359
h-index	11	12

5.1.3. Параметри квалитета часописа

Др Зорица Лазаревић је током научне каријере објавила укупно 63 рада у међународним часописима са ISI листе, од чега 3 категорије М21а, 16 категорије М21, 18 категорије М22 и 26 категорије М23. Од одлуке Научног већа о предлогу за стицање претходног научног звања др Лазаревић је објавила 8 М21 радова, 9 М22 радова, 8 М23 рада и два поглавља М1 у зборнику водећег међународног значаја М12. Укупан импакт фактор ових радова је 29.76.
Из области баријум титанатних керамичких материјала и функционално градијентних материјала, као и из баријум титаната допираног лантаном и антимоном кандидаткиња је као први аутор објавила чланак у часопису изузетних вредности који је први у својој области: *Journal of the European Ceramic Society* (ИФ=2.575, 1/25, Materials Science, Ceramics). Такође, објавила је два рада у часопису изузетних вредности Corrosion Science који је други у својој области.

5.1.4. Степен самосталности и степен учешћа у реализацији радова у научним центрима у земљи и иностранству

Истраживачки рад др Зорица Лазаревић након основних студија до магистратуре је био из физичке хемије и електрохемије, тј. у области електрохемијског таложења и испитивања органских превлака и заштита алуминијумаи модификованих површина алуминијума од корозије, органским превлакама. Део своје истраживачке делатности у периоду од 2001-2005. године је изводила у Институту за хемију у Арараквари, држава Сао Пауло у Бразилу, где је и почела да се бави фероелектричним и оптоелектронским материјалима и физиком чврстог стања. Од 2005. запослена у Институту за физику где наставља рад при синтези нових оптичких и магнетних материјала, и њиховој карактеризацији различитим методама, са акцентом на коришћењу Раман и инфрацрвене спектроскопије, као и магнетним мерењима.

Мора се истаћи да је у већини радова др Зорица Лазаревић првопотписани аутор и *corresponding author* при писању и слању радова у часописе.

5.1.5. Редослед аутора у областима где је то од значаја, број аутора, број страница

Анализирајући структуру објављених радова др Зорице Лазаревић може се закључити да су објављени радови везани за експериментална истраживања уз јасно дефинисане основне теоријске постулате. У већини радова др Зорица Лазаревић је први аутор.

5.1.6. Елементи применљивости научних резултата, награде

Резултат иновационог пројекта Министарства за науку - Производња магнетооптичког сензорског кристала су монокристали $Bi_{12}GeO_{20}$, који су уграђени у уређај – Фибер-оптички сензор струје. Ови кристали су добили прву награду на Такмичењу за најбољу технолошку иновацију 2006. године.

Др Зорица Лазаревић је 2009. године добила годишњу награду Центра за физику чврстог стања и нове материјале Института за физику, за изузетан допринос у повећању продуктивности рада на научним пројектима Центра у периоду 2006-2010. године.

Освојила је награду за најбољу усмену презентацију рада: "*Raman study of ferroelectric bismuth titanate*", на конференцији The First Serbian Ceramic Society Conference: Advanced Ceramic Materials and Application, одржаној у Београду од 10-12. 05. 2012 године. Такође, освојила награду за најбољу постер презентацију рада: "*Growth, structural and optical studies of neodymium doped yttrium aluminum garnet*" на конференцији The Third Serbian Ceramic Society Conference: Advanced Ceramic Materials and Application, 2014 године.

Прилог: Диплома и потврде

5.2. АНГАЖОВАНОСТ У ФОРМИРАЊУ НАУЧНИХ КАДРОВА

Под менторством др Зорице Лазаревић је до сада урађена и одбрањена докторска дисертације на Технолошко-металуршком факултету у Београду:

- Др Hana Ibrahim El Swie је докторску тезу, под насловом „Синтеза и карактеризација оптички активних композита са полимерном матрицом на бази монокристала (Synthesis and characterization of optical polymer composites based on single crystals)" одбранила 2017. године (видети прилог).

Др Лазаревић је дала велики допринос при мерењу, анализи и дискусији добијених Раман спектара који су снимани на узорцима који су били део доктоске тезе др Стевана Димитријевић. Теза је била под насловом „Електрохемијска и површинска карактеризација трокомпонентних легура система Ag-Cu-Zn у блиско неутралним хлоридним растворима" и одбрањена 2015. године (видети прилог).
Поред тога, др Лазаревић је допринела саветима око интерпретације Раман спектара који су приказани у докторској дисертацији „Корелација између састава и својтава аморфног AS_2S_3 допираног бизмутом" др Мирјане Шиљеговић (теза одбрањена 2016. године, видети прилог).
Др Зорица Лазаревић је радила као асистент на предмету Органска хемија на Технолошлом факултету, Универзитет у Сарајеву, 1996/2001 (одлука о избору и уверење о ангажовању, видети прилог).

Прилог: Релевантне странице из теза

5.3. НОРМИРАЊЕ КОАУТОРСКИХ РАДОВА, ПАТЕНАТА И ТЕХНИЧКИХ РЕШЕЊА

Сви радови др Лазаревић објављени у периоду након одлуке Научног већа о предлогу за стицање претходног научног звања су експериментални радови (8

радова М21, 9 радова М22 и 8 радова М23 категорије). Већина ових радова имају до седам аутора и улазе са пуном тежином у односу на број коаутора. Шест радова имају више од 7 аутора и у тим случајевима је број М бодова нормиран по Правилнику. Укупан број М бодова за радове објављене након одлуке Научног већа о предлогу за стицање претходног научног звања је 133, односно након нормирања 121.6.

Табела са радовима категорије М20 објављен након претходног избора у звање (списак радова у прилогу**)**

Р.б. чланка (Ч)	Број коаутора (А)	М	М/А	ИФ	ИФ/А	СНИП	СНИП/А
1 М21	9	8	0.888	2.105	0.234	1.051	0.117
2 М21	8	8	1	2.185	0.273	1.005	0.126
3 М21	7	8	1.142	2.105	0.301	1.051	0.150
4 М21	7	8	1.142	2.105	0.301	1.051	0.150
5 М21	5	8	1.6	1.966	0.393	0.814	0.163
6 М21	7	8	1.142	2.435	0.348	0.976	0.139
7 М21	7	8	1.142	2.435	0.348	0.976	0.139
8 М21	15	8	0.533	3.014	0.201	1.430	0.095
1 М22	7	5	0.714	1.296	0.185	0.636	0.091
2 М22	7	5	0.714	1.853	0.265	1.042	0.149
3 М22	8	5	0.625	1.126	0.141	0.601	0.075
4 М22	7	5	0.714	1.126	0.160	0.601	0.120
5 М22	7	5	0.714	0.575	0.082	0.884	0.126
6 М22	8	5	0.625	2.059	0.257	0.943	0.118
7 М22	5	5	1	0.736	0.147	0.689	0.138
8 М22	7	5	0.714	0.736	0.105	0.689	0.098
9 М22	7	5	0.714	0.736	0.105	0.689	0.098
1 М23	7	3	0.428	0.449	0.064	0.382	0.054
2 М23	6	3	0.5	0.449	0.075	0.382	0.064
3 М23	7	3	0.428	0.433	0.062	0.387	0.055
4 М23	7	3	0.428	0.449	0.064	0.382	0.054
5 М23	7	3	0.428	0.412	0.059	0.344	0.049
6 М23	10	3	0.3	0.470	0.047	0.268	0.027
7 М23	7	3	0.428	0.470	0.067	0.268	0.038
8 М23	7	3	0.428	0.470	0.067	0.268	0.038
		ΣМ=133	ΣМ/А= 18.492	ΣИФ= 29.76	ΣИФ/А= 4.351	ΣСНИП= 17.809	ΣСНИП/А =2.319
		ΣМ/Ч=5.32		ΣИФ/Ч=1.119		ΣСНИП/Ч=0.712	

5.4. РУКОВОЂЕЊЕ ПРОЈЕКТИМА, ПОТПРОЈЕКТИМА И ПРОЈЕКТНИМ ЗАДАЦИМА

Др Зорица Лазаревић учествује на пројектима Министарства просвете, науке и технолошког развоја Републике Србије од 2005. године.

Сада је ангажована је на пројекту Интегралних интердисциплинарних истраживања Министарства просвете, науке и технолошког развоја Републике Србије – **Оптоелектронски нанодимензиони системи – пут ка примени**, број III 45003 (2011-2017.), којим руководи др Небојша Ромчевић.

Др Зорица Лазаревић, у оквиру овог пројекта **руководи потпројектом** – **Синтеза наноматеријала и структура**.

Водила је иновациони пројекат Министарства за науку и технолошки развој Републике Србије - **Производња магнетооптичког сензорског кристала** (2008-2009.). Резултат пројекта су монокристали $Bi_{12}GeO_{20}$ који су уграђени у уређај - фибер-оптички сензор струје.

Од марта 2012. године је рукодилац-кординатор пројекта који се реализује у оквиру билатералне сарадње, а на основу Споразума о научној сарадњи између Института за физику Пољске академије наука и Института за физику Београд.

Прилог: Доказ о руковођењу научним потпројектом, иновационим пројектом и споразум о сарадњи

5.5. АКТИВНОСТ У НАУЧНИМ И НАУЧНО-СТРУЧНИМ ДРУШТВИМА И ОСТАЛИ ПОКАЗАТЕЉИ УСПЕХА У НАУЧНОМ РАДУ

Др Лазревић је **члан Српског керамичког друштва - СКД** *од 2012. године и* **председник секције Оптички керамички материјали и стакла** од 2014. године. У циљу унапређења и подизања квалитета истраживања у области савремених оптички активних керамичких материјала, као и формирања млађег научног кадра, др Зорица Лазаревић је активно учествовала **у раду научног одбора СКД, као и научног и организационог комитета међународне конференције Advanced Ceramic Materials and Application**, коју ово друштво организује од 2012. године.

Члан програмског одбора конференције Трансфер технологија и знања из научноистраживачких организација у мала и средња предузећа 2008. године

Прилог: Докази о учешћу у научним, организационим и програмским одборима конференција

Више пута узела учешће као **рецензент у међународним часописима**: *Journal of the European Ceramic Society, Corrosion Science, Journal of Alloys and Compounds, Ferroelectrics, Materials Research Bulletin, Acta Physica Polonica A, Physica Scripta, Optoelectronics and Advanced Materials-Rapid Communications.*

Прилог: Неке од електронских порука и захвалница

Др Зорица Лазаревић је била **члан организационог одбора међународне конференције** *The Serbian Ceramic Society Conference: Advanced Ceramics Application* која се одржава сваке године у Београду од 2012. године.

Све наведене активности су документоване у прилозима.

Након претходног избора у звање др Лазаревић је **одржала следећа предавања по позиву:**

1. **Z.Ž. Lazarević**, D. Sekulić, Č. Jovalekić, M. Romčević, A. Milutinović, N.Ž. Romčević,
   New approach and comparative studies of structural and electrical properties of nano spinel ferites prepared by soft mechanochemical synthesis,
   The Serbian Ceramic Society Conference - Advanced Ceramics and Application II, Sept 30-Oct 01, 2013, Belgrade, Serbia, Program and The Book of Abstracts, INV2, 12.

2. **Zorica Ž. Lazarević**,
   Study of nanodimensional spinel $Ni_{0.5}Zn_{0.5}Fe_2O_4$ ferrite prepared by mechanochemical synthesis,
   The Fourth Serbian Ceramic Society Conference - Advanced Ceramics and Application IV, September 21-23, 2015, Belgrade, Serbia, Program and The Book of Abstracts, INV2, 40-41.

3. **Zorica Ž. Lazarević,** Janez Križan, Gregor Križan, Valentin N. Ivanovski, Miodrag Mitrić, Martina Gilić, Nebojša Ž. Romčević,
   Spectroscopy study of $LiFePO_4$ cathode materials for Li-ion battery prepared in the thermo-acoustic,
   The Sixth Serbian Ceramic Society Conference - Advanced Ceramics and Application, September 18-20, 2017, Belgrade, Serbia, Program and The Book of Abstracts, INV-REHA3, 56.

Прилог: позивна писма за ова предавања или програм конференције са веб сајта.

5.6. УТИЦАЈ НАУЧНИХ РЕЗУЛТАТА

Утицај научних резултата кандидата се огледа у броју цитата који су наведени у тачки 1. овог прилога као и у прилогу о цитираности. Значај резултата кандидата је такође описан у поглављу 5. тачки 1. у делу везаном за ***5.1.1. Научни ниво и значај резултата, утицај научних радова.***

5.7. КОНКРЕТАН ДОПРИНОС КАНДИДАТА У РЕАЛИЗАЦИЈИ РАДОВА У НАЧНИМ ЦЕНТРИМА У ЗЕМЉИ И ИНОСТРАНСТВУ

Др Зорица Лазаревић активно учествује у међународној сарадњи . Од марта 2012. године је рукодилац-кординатор пројекта који се реализује у оквиру билатералне сарадње, а на основу Споразума о научној сарадњи између Института за физику Пољске академије наука и Института за физику Београд. Сарадња са колегама из Бразила (из Института за хемију у Арараквари, држава Сао Пауло), из Словеније (са Машинског факултета Универзитета у Марибору и из Јожеф Стефан института из Љубљане), формализована је кроз објављене научне радове, у часописима од међународног значаја.

6. Елементи за квантитативну анализу рада кандидата

6.1. Остварени резултати у периоду након претходног избора у звање

Категорија рада	М бодова по раду	Број радова	Укупно М бодова
М14	4	2	8
М21	8	8	64
М22	5	9	45
М23	3	8	24
М32	1.5	3	4.5
М33	1	7	7
М34	0.5	12	6

Табела са радовима категорије М20 објављен након претходног избора у звање (списак радова у прилогу**)**

Р.б. чланка (Ч)	Број коаутора (А)	М	М/А	ИФ	ИФ/А	СНИП	СНИП/А
1 М21	9	8	0.888	2.105	0.234	1.051	0.117
2 М21	8	8	1	2.185	0.273	1.005	0.126
3 М21	7	8	1.142	2.105	0.301	1.051	0.150
4 М21	7	8	1.142	2.105	0.301	1.051	0.150
5 М21	5	8	1.6	1.966	0.393	0.814	0.163
6 М21	7	8	1.142	2.435	0.348	0.976	0.139
7 М21	7	8	1.142	2.435	0.348	0.976	0.139
8 М21	15	8	0.533	3.014	0.201	1.430	0.095
1 М22	7	5	0.714	1.296	0.185	0.636	0.091
2 М22	7	5	0.714	1.853	0.265	1.042	0.149
3 М22	8	5	0.625	1.126	0.141	0.601	0.075
4 М22	7	5	0.714	1.126	0.160	0.601	0.120
5 М22	7	5	0.714	0.575	0.082	0.884	0.126
6 М22	8	5	0.625	2.059	0.257	0.943	0.118
7 М22	5	5	1	0.736	0.147	0.689	0.138
8 М22	7	5	0.714	0.736	0.105	0.689	0.098
9 М22	7	5	0.714	0.736	0.105	0.689	0.098
1 М23	7	3	0.428	0.449	0.064	0.382	0.054
2 М23	6	3	0.5	0.449	0.075	0.382	0.064
3 М23	7	3	0.428	0.433	0.062	0.387	0.055
4 М23	7	3	0.428	0.449	0.064	0.382	0.054
5 М23	7	3	0.428	0.412	0.059	0.344	0.049
6 М23	10	3	0.3	0.470	0.047	0.268	0.027
7 М23	7	3	0.428	0.470	0.067	0.268	0.038
8 М23	7	3	0.428	0.470	0.067	0.268	0.038
		ΣМ=133	ΣМ/А= 18.492	ΣИФ= 29.76	ΣИФ/А= 4.351	ΣСНИП= 17.809	ΣСНИП/А =2.319
		ΣМ/Ч=5.32		ΣИФ/Ч=1.119		ΣСНИП/Ч=0.712	

Табела са осталим радовима објављеним након претходног избора у звање (списак радова у прилогу**)**

Р.б. чланка (Ч)	Категорија	Број коаутора (А)	М	М/А
1	М14	3	4	1.33
2	М14	7	4	0.57
1	М32	6	1.5	0.25
2	М32	1	1.5	1.5
3	М32	7	1.5	0.21
1	М33	6	1	0.17
2	М33	7	1	0.14
3	М33	7	1	0.14
4	М33	3	1	0.33
5	М33	7	1	0.14
6	М33	7	1	0.14
7	М33	4	1	0.25
1	М34	5	0.5	0.10
2	М34	3	0.5	0.17
3	М34	3	0.5	0.17
4	М34	5	0.5	0.10
5	М34	5	0.5	0.10
6	М34	4	0.5	0.12
7	М34	7	0.5	0.07
8	М34	4	0.5	0.12
9	М34	7	0.5	0.07
10	М34	8	0.5	0.06
11	М34	3	0.5	0.17
12	М34	3	0.5	0.17
			ΣМ=25.5	ΣМ/А=6.54
			ΣМ/Ч=1.06	

6.2. <u>Поређење са минималним квантитативним условима за избор у звање виши научни сарадник</u>

Диференцијални услов – од првог избора у претходно звање до избора у звање...	Потребно је да кандидат има најмање ХХ поена, који треба да припадају следећим категоријама:		
		Неопходно ХХ=	Остварено*
Виши научни сарадник	Укупно	50	158.5 (*148)
Обавезни (1)	М10+М20+М31+М32+М33+М41+М42+М90	40	152.5 (*141)
Обавезни (2)	М11+М12+М21+М22+М23	30	133 (*121.6)

*У загради су дати бодови нормирани у складу са Прилогом 1 Правилника.

7. Списак свих објављених радова и других публикација разврстаних по важећим категоријама прописаним Правилником

Радови др З. Лазаревић (рођене Стевановић) након избора у претходно звање означени су са *

1. МОНОГРСФИЈЕ, МОНОГРАФСКЕ СТУДИЈЕ, ТЕМАТСКИ ЗБОРНИЦИ, ЛЕСКИКОГРАФСКЕ И КАРТОГРАФСКЕ ПУБЛИКАЦИЈЕ МЕЂУНАРОДНОГ ЗНАЧАЈА (М 10)

М 14 монографска студија/поглавље у књизи М12 или рад у тематском зборнику међународног значаја

1.* Dalibor L. Sekulić, **Zorica Ž. Lazarević**, Nebojša Ž. Romčević
Electrical characterization of nanostructured ferrite ceramics by using AC impedance spectroscopy
W. E. Lee et al. (eds.), Proceedings of the III Advanced Ceramics and Applications Conference, Springer Atlantis Press, pp. 115-127, 2016, doi 10.2991/978-94-6239-157-4_9.

2.* S. Kostić, **Z.Ž. Lazarević**, M. Gilić, M. Petrović, M. Romčević, N.Ž. Romčević, D.L. Sekulić
Structural and optical studies of oxide single crystals grown by the Czochralski method
W. E. Lee et al. (eds.), Proceedings of the III Advanced Ceramics and Applications Conference, Springer Atlantis Press, pp. 193-203, 2016, doi 10.2991/978-94-6239-157-4_14.

2. РАДОВИ ОБЈАВЉЕНИ У НАУЧНИМ ЧАСОПИСИМА МЕЂУНАРОДНОГ ЗНАЧАЈА (М 20)

М 21а Рад у међународном часопису изузетних вредности

1. **Z.Ž. Lazarević**, V.B. Mišković-Stanković, Z. Kačarević-Popović, D.M. Dražić, *Determination of the protective properties of electrodeposited organic epoxy coatings on aluminium and modified aluminium surfaces,* Corrosion Science, **47**(3), (2005) 823-834, (**IP-1.922, 34/178(4/67), Materials Science, Multidisciplinary (Metallurgy & Metallurgical Engineering)**).

2. **Z.Ž. Lazarević**, M. Vijatović, Z. Dohčević-Mitrović, N.Ž. Romčević, M.J. Romčević, N. Paunović, B.D. Stojanović, *The caracterization of the barium titanate ceramic powders prepared by the Pechini type reaction route and mechanically assisted synthesis,* Journal of European Ceramic Society, **30**(2), (2010) 623-628, (**IP-2.575, 1/25, Materials Science, Ceramics**).

3. Polona Škraba, Ladislav Kosec, Milan Bizjak, Rebeka Rudolf, Nebojša Ž. Romčević, Gorazd Kosec, Borut Kosec, **Zorica Ž. Lazarević**, Joze Roth, Ivan Anzel,
Internal oxidation of Ag-VC composites,
Corrosion Science, **53**(1), (2011) 127-134, (**IP-3.729, 35/232 (2/75), Materials Science, Multidisciplinary, (Metallurgy & Metallurgical Engineering)**).

M 21 Рад у врхунском међународном часопису

1. K.I. Popov, M.G. Pavlović, E.R. Stojilković, **Z.Ž. Stevanović**,
The current density distribution on stationary wire electrodes during copper and lead electrodeposition,
Hydrometallurgy, **46**(3), (1997) 321-336, (**IP-0.575, 17/53, Metallurgy&Metallurgical Engineering**).

2. B.D. Stojanović, C.O. Paiva-Santos, C.Jovalekić, A.Z. Simoes, F.M. Filho, **Z. Lazarević**, J.A.Varela,
Mechanically activating formation of layerd structured bismuth,
Materials Chemistry and Physics, **96**(2-3), (2006) 471-476, (**IP-1.657, 44/175, Materials Science, Multidisciplinary**).

3. **Z. Lazarević**, B. Stojanović, M. Romčević, M. Mitrić, Č. Jovalekić, N. Romčević,
Spectroscopy study of $Bi_4Ti_3O_{12}$ obtained from mechanically activated Bi_2O_3- TiO_2 mixtures,
Journal of Alloys and Compounds, **453**(1-2)**,** (2008) 499-502, (**IP-1.510, 69/192, Materials Science, Multidisciplinary).**

4. B. D. Stojanović, C.O. Paiva-Santos, M. Cilense, Č. Jovalekić, **Z. Ž. Lazarević**,
Structure study of $Bi_4Ti_3O_{12}$ produced via mechanochemically assisted synthesis,
Materials Research Bulletin, **43**(7), (2008) 1743-1753, (**IP-1.957, 54/192, Materials Science, Multidisciplinary).**

5. **Z. Ž. Lazarević**, N. Ž. Romčević, J. D. Bobić, M.J. Romčević, Z. Dohčević-Mitrović, B.D. Stojanović,
Study on bi-layered ceramics powders prepared by the mechanochemicl synthesis,
Journal of Alloys and Compounds, **486**(1-2), (2009) 848-852, **(IP-2.135, 46/214, Materials Science, Multidisciplinary).**

6. **Z.Ž. Lazarević**, M.M. Vijatović, B.D. Stojanović, M.J. Romčević, N.Ž. Romčević,
Structure study of nanosiyed La- and Sb- doped $BaTiO_3$,
Journal of Alloys and Compounds, **494**(1-2), (2010) 472-475, **(IP-2.138, 50/225, Materials Science, Multidisciplinary).**

7. **Z.Ž. Lazarević**, Č. Jovalekić, A. Recnik, V.N. Ivanovski, M. Mitrić, M.J. Romčević, N. Paunović, B.Đ. Cekić, N.Ž. Romčević,
Study of manganese ferrite powders prepared by a soft mechanochemical route,
Journal of Alloys and Compound, **509**(41), (2011) 9977-9985, (**IP-2.289, 50/232,**

Materials Science, Multidisciplinary).

8. **Z.Ž. Lazarević**, P. Mihailović, S. Kostić, M.J. Romčević, M. Mitrić, S. Petričević, J. Radunović, M. Petrović-Damjanović, M. Gilić, N.Ž. Romčević, *Determination of magneto-optical quality and refractive index of bismuth germanium oxide single crystals grown by Czochralski technique,* Optical Materials, **34**(11), (2012) 1849-1859, (**IP-1.918, 70/241, Materials Science, Multidisciplinary**).

*9. **Z.Ž. Lazarević**, Č. Jovalekić, A. Recnik, V.N. Ivanovski, A. Milutinović, M. Romčević, M.B. Pavlović, B. Cekić, N.Ž. Romčević, *Preparation and characterization of spinel nickel ferrite obtained by the soft mechanochemically assisted synthesis,* Materials Research Bulletin, **48**(2), (2013) 404-415, **(IP-2.105, 55/232, Materials Science, Multidisciplinary).**

*10. **Z.Ž. Lazarević**, Č. Jovalekić, A. Milutinović, D. Sekulić, V.N. Ivanovski, A. Rečnik, B. Cekić, N.Ž. Romčević, *Nanodimensional spinel $NiFe_2O_4$ and $ZnFe_2O_4$ ferrites prepared by soft mechanochemical synthesis,* Journal of Applied Physics, **113**, (2013) 187221-187221-11, (**IP-2.185, 39/136, Physics, Applied**).

*11. **Z.Ž. Lazarević**, Č. Jovalekić, D.L. Sekulić, A. Milutinović, S. Baloš, M. Slankamenac, N.Ž. Romčević, *Structural, electrical and dielectric properties of spinel nickel ferrite prepared by soft mechanochemical synthesis,* Materials Research Bulletin, **48**(10), (2013) 4368-4378, **(IP-2.105, 55/232, Materials Science, Multidisciplinary).**

*12. A. Milutinović, **Z. Lazarević**, Č. Jovalekić, I. Kuryliszyn-Kudelska, M. Romčević, S. Kostić, N. Romčević, *The cation inversion and magnetization in nanopowder zinc ferrite obtained by soft mechanochemical processing,* Materials Research Bulletin, **48**(11), (2013) 4759-4768, **(IP-2.105, 55/232, Materials Science, Multidisciplinary).**

*13. Dalibor L. Sekulić, **Zorica Ž. Lazarević**, Miljko V. Satarić, Čedomir D. Jovalekić, Nebojša Ž. Romčević, *Temperature-dependent complex impedance, electrical conductivity and dielectric studies of MFe_2O_4 (M=Mn, Ni, Zn) ferrites prepared by sintering of mechanochemical synthesized nanopowders,* Journal of Materials Science: Materials in Electronics, **26**, (2015) 1291-1303, (**IP-1.966, 62/248, Engineering, Electrical & Electronic**).

*14. S. Kostić, **Z.Ž. Lazarević**, V. Radojević, A. Milutinović, M. Romčević, N. Ž. Romčević, A. Valčić, *Study of structural and optical properties of YAG and Nd:YAG single crystals,* Materials Research Bulletin, **63**, (2015) 80-87, **(IP-2.435, 74/271, Materials Science, Multidisciplinary).**

*15. **Zorica Ž. Lazarević**, Aleksandra N. Milutinović, Čedomir D. Jovalekić, Valentin N. Ivanovski, Nina Daneu, Ivan Mađarević, Nebojša Ž. Romčević, *Spectroscopy investigation of nanostructured nickel-zinc ferrite obtained by mechanochemical synthesis,* Materials Research Bulletin, **63**, (2015) 239-247, **(IP-2.435, 74/271, Materials Science, Multidisciplinary).**

*16. N. Romcevic, M. Romcevic, W.D. Dobrowolski, L. Kilanski, M. Petrovic, J. Trajic, B. Hadzic, **Z. Lazarevic**, M. Gilic, J.L. Ristic-Djurovic, N. Paunovic, A. Reszka, B.J. Kowalski, I.V. Fedorchenko, S.F. Marenkin, *Far-infrared spectroscopy of $Zn_{1-x}Mn_xGeAs_2$ single crystals: plasma damping influence on plasmon e phonon interaction,* Journal of Alloys and Compound, **649**, (2015) 375-379, **(IP-3.014, 58/271, Materials Science, Multidisciplinary).**

<u>M 22 Рад у истакнутом међународном часопису</u>

1. **Z.Ž. Lazarević**, V.B. Mišković-Stanković, Z. Kačarević-Popović, D.M. Dražić, *The study of corrosion stability of organic epoxy protective coatings on aluminium and modified aluminium surfasces*, Journal of the Brazilian Chemical Society, **16**(1), (2005) 98-102, (**IP-1.097, 54/124, Chemistry, Multidisciplinary)**.

2. **Z.Ž. Lazarević**, B.D. Stojanović and N.Ž. Romčević, *Synthesis of $Bi_4Ti_3O_{12}$ nanoparticles by mechanochemical reaction*, Journal of Optoelectronics and Advanced Materials, **9**(7), (2007) 2262-2265, (**IP-0.803, 63/94, Physics, Applied**).

3. **Z.Ž. Lazarević**, N.Ž. Romčević, M. Todorović, B.D. Stojanović, *Structural and ferroelectrical properties of bismuth titanate ceramic powders prepared by mechanically assisted synthesis*, Science of Sintering, **39**(2), (2007) 177-184, (**IP-0.481, 12/25, Materials Science, Ceramics**).

4. **Z.Ž. Lazarević**, B.D. Stojanović, C.O. Paiva-Santos, N. Romčević, J.A. Varela, *Characterization of bismuth titanate ceramics derived by mechanochemical synthesis*, Science of Sintering, **39**(3), (2007) 267-272, (**IP-0.481, 12/25, Materials Science, Ceramics**).

5. **Z.Ž. Lazarević**, N.Ž. Romčević, B.D. Stojanović, *Synthesis and characterization of barium strontium titanate powder*, Journal of Optoelectronics and Advanced Materials, **10**(10), (2008) 2675-2677, (**IP-0.803, 77/96, Physics, Applied**).

6. **Z.Ž. Lazarević**, B.D. Stojanović, M.J. Romčević, N.Ž. Romčević, *Mechanochemical activation assisted synthesis of bismuth layered-perovskite*

$Bi_4Ti_3O_{12}$,
Science of Sintering, **41**(1), (2009) 19-26, (**IP-0.559, 12/25, Materials Science, Ceramics**).

7. **Z.Ž. Lazarević**, J. Bobić, N.Ž. Romčević, N. Paunović, B.D. Stojanović,
Study of barium bismuth titanate prepared by mechanochemical synthesis,
Science of Sintering, **41**(3), (2009) 329-335, (**IP-0.559, 12/25, Materials Science, Ceramics**).

8. M. Petrović, N. Romčević, M. Romčević, G. Stanišić, D. Vasiljević-Radović, J. Trajić, **Z. Lazarević**, S. Kostić,
Spectroscopy characterization of MnSe nanoclasters randomly distributed in HgMnTe single crystal,
Journal of Crystal Growth, **338**(1), (2012) 75-79, (**IP-1.603, 47/25, Physics, Applied**).

9. **Z.Ž. Lazarević**, Č. Jovalekić, D. Sekulić, M. Slankamenac, M. Romčević, A. Milutinović, N.Ž. Romčević,
Characterization of nanostructured spinel $NiFe_2O_4$ obtained by soft mechanochemical synthesis,
Science of Sintering, 44**(3), (2012) 331-339, (**IP-0.403, 15/27 **Materials Science, Ceramics**).

*10. **Z. Lazarević**, S. Kostić, V. Radojević, M. Romčević, M. Gilić, M. Petrović-Damjanović, N. Romčević,
Raman spectroscopy of bismuth silicon oxide single crystals grown by the Czochralski technique,
Physica Scripta, **T157**, (2013) 014046, (**IP-1.296, 40/78, Physics, Multidisciplinary**).

***11. Z.Ž. Lazarević**, Č. Jovalekić, V.N. Ivanovski, A. Rečnik, A. Milutinović, B. Cekić, N.Ž. Romčević,
Characterization of partially inverse spinel $ZnFe_2O_4$ with high saturation magnetization synthesized via soft mechanochemically assisted route,
Journal of Physics and Chemistry of Solids, **75**(7), (2014) 869-877, (**IP-1.853, 33/67, Physics, Condensed Matter**).

*12. J. Trajić, M. Gilić, M. Romčević, N. Romčević, G. Stanišić, **Z. Lazarević**, D. Joksimović, I.S. Yahia,
Far-infrared investigations of the surface modes in CdS thin films,
Physica Scripta, **T162**, (2014) 014031, (**IP-1.126, 43/78, Physics, Multidisciplinary**).

*13. S. Kostić, **Z. Lazarević**, M. Romčević, V. Radojević, A. Milutinović, G. Stanišić, M. Gilić,
Spectroscopic characterization of YAG and Nd:YAG single crystals,
Physica Scripta, **T162**, (2014) 014026, (**IP-1.126, 43/78, Physics, Multidisciplinary**).

*14. D. Sekulić, **Z.Ž. Lazarević**, Č. Jovalekić, A. Rečnik, M. Romčević, B. Hadžić,

N.Ž. Romčević,
The comparative study of the structural and the electrical properties of the nano spinel ferrites prepared by the soft mechanochemical synthesis,
Science of Sintering, **46**(1), (2014) 235-245, **(IP-0.575, 14/26, Materials Science, Ceramics).**

*15. Aleksandra Milutinović, **Zorica Ž. Lazarević**, Milka Jakovljević, Branka Hadzić, Milica Petrović, Martina Gilić, Witold Daniel Dobrowolski, Nebojša Ž. Romčević,
Optical properties of layered III-VI semiconductor γ-InSe:M (M:Mn, Fe,Co,Ni),
Journal of Physics and Chemistry of Solids, **89,** (2016) 120-127, (**IP-2.059, 34/67, Physics, Condensed Matter).**

*16. Dalibor L. Sekulić, **Zorica Z. Lazarević**, Čedomir D. Jovalekić, Aleksandra N. Milutinović, Nebojša Z. Romčević,
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3. ЗБОРНИЦИ СА МЕЂУНАРОДНИХ НАУЧНИХ СКУПОВА (М 30)

М 31 Преавање по позиву са међународног скупа штампано у целини

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5. ЧАСОПИСИ НАЦИОНАЛНОГ ЗНАЧАЈА (М 50)

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1. МОНОГРСФИЈЕ, МОНОГРАФСКЕ СТУДИЈЕ, ТЕМАТСКИ ЗБОРНИЦИ, ЛЕСКИКОГРАФСКЕ И КАРТОГРАФСКЕ ПУБЛИКАЦИЈЕ МЕЂУНАРОДНОГ ЗНАЧАЈА (М 10)

М 14 монографска студија/поглавље у књизи М12 или рад у тематском зборнику међународног значаја

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3. ЗБОРНИЦИ СА МЕЂУНАРОДНИХ НАУЧНИХ СКУПОВА (М 30)

М 32 Преавање по позиву са међународног скупа штампано у целини

1. **Z.Ž. Lazarević**, D. Sekulić, Č. Jovalekić, M. Romčević, A. Milutinović, N.Ž. Romčević,
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На основу члана 22. става 2. члана 70. став 6. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) и захтева који је поднео

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Conference: 21st IEEE International Symposium on Applications of Ferroelectrics held jointly with 11th European Conference on the Applications of Polar Dielectrics and 4th Conference on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials Location: Univ Aveiro, Aveiro, PORTUGAL Date: JUL 09-13, 2012
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Conference: 12th European Meeting on Ferroelectricity EMF Location: Bordeaux, FRANCE Date: JUN 26-JUL 01, 2011
FERROELECTRICS Volume: 428 Pages: 27-35 Published: 2012
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23. **Study of manganese ferrite powders prepared by a soft mechanochemical route**

By: Lazarevic, Z. Z.; Jovalekic, C.; Recnik, A.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 509 Issue: 41 Pages: 9977-9985 Published: OCT 13 2011
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24. **Spectroscopy study of BaTiO3 obtained from mechanochemically activated oxides mixture**

By: Lazarevic, Z. Z.; Romcevic, N. Z.; Romcevic, M. J.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 5 Issue: 1-2 Pages: 30-33 Published: JAN 2011
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25. **Study of Bi12SiO20 single crystals obtained by Czochralski method**

By: Lazarevic, Z. Z.; Kostic, S.; Romcevic, M. J.; et al.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 5 Issue: 1-2 Pages: 150-152 Published: JAN 2011
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26. **Internal oxidation of Ag-VC composites**

By: Skraba, Polona; Kosec, Ladislav; Bizjak, Milan; et al.
CORROSION SCIENCE Volume: 53 Issue: 1 Pages: 127-134 Published: JAN 2011
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Times Cited: 1 *(from Web of Science Core Collection)*
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27. **Structure study of nanosized La- and Sb-doped BaTiO3**

By: Lazarevic, Z. Z.; Vijatovic, M. M.; Stojanovic, B. D.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 494 Issue: 1-2 Pages: 472-475 Published: APR 2 2010
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Times Cited: 18 *(from Web of Science Core Collection)*
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28. **INFRARED AND RAMAN SPECTROSCOPY STUDY OF ANTIMONY DOPED BARIUM TITANATE PREPARED FROM ORGANOMETALLIC COMPLEX**

By: Lazarevic, Zorica Z.; Romcevic, Nebojsa Z.; Romcevic, Maja J.; et al.
Conference: 11th Annual Conference of the Materials-Research-Society-of-Serbia (YUCOMAT 2009) Location: Heroeg Novi, MONTENEGRO Date: AUG 31-SEP 04, 2009
Sponsor(s): Mat Res Soc Serbia
INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 24 Issue: 6-7 Pages: 676-681 Published: MAR 20 2010
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Times Cited: 0 *(from Web of Science Core Collection)*
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29. **The characterization of the barium titanate ceramic powders prepared by the Pechini type reaction route and mechanically assisted synthesis**

By: Lazarevic, Z. Z.; Vijatovic, M.; Dohcevic-Mitrovic, Z.; et al.

Times Cited: 11 *(from Web of Science Core Collection)*
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Conference: 11th Electroceramics Conference 2008 Location: Univ Manchester, Manchester, ENGLAND Date: SEP 01-03, 2008
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY
Volume: 30 Issue: 2 Special Issue: SI Pages: 623-628
Published: JAN 2010
View Abstract

30. **Study of undoped and donor doped barium titanate prepared by modified Pechini method**

By: Lazarevic, Z. Z.; Romcevic, N. Z.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 4 Issue: 1 Pages: 15-18 Published: JAN 2010
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Times Cited: 1 *(from Web of Science Core Collection)*
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31. **Study on bi-layered ceramics powders prepared by the mechanochemical synthesis**

By: Lazarevic, Z. Z.; Romcevic, N. Z.; Bobic, J. D.; et al.
JOURNAL OF ALLOYS AND COMPOUNDS Volume: 486 Issue: 1-2 Pages: 848-852 Published: NOV 3 2009
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Times Cited: 18 *(from Web of Science Core Collection)*
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32. **Characterization of doped BaTiO3 ceramic powders synthesized from polymeric precursors**

By: Lazarevic, Z. Z.; Romcevic, N. Z.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 3 Issue: 10 Pages: 1042-1045 Published: OCT 2009
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33. **Study of Barium Bismuth Titanate Prepared by Mechanochemical Synthesis**

By: Lazarevic, Z. Z.; Bobic, J.; Romcevic, N. Z.; et al.
SCIENCE OF SINTERING Volume: 41 Issue: 3 Pages: 329-335 Published: SEP-DEC 2009
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Times Cited: 6 *(from Web of Science Core Collection)*
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34. **Study of ferroelectric BaBi4Ti4O15 obtained via mechanochemical synthesis**

By: Lazarevic, Z. Z.; Romcevic, N. Z.; Bobic, J. D.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 3 Issue: 7 Pages: 700-703 Published: JUL 2009
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35. **Mechanochemical Activation Assisted Synthesis of Bismuth Layered-Perovskite Bi4Ti4O12**

By: Lazarevic, Z. Z.; Stojanovic, B. D.; Romcevic, M. J.; et al.
SCIENCE OF SINTERING Volume: 41 Issue: 1 Pages: 19-26 Published: JAN-APR 2009
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36. **Synthesis and characterization of barium strontium titanate powder**

By: Lazarevic, Z. Z.; Romcevic, N. Z.; Stojanovic, B. D.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 10 Pages: 2675-2677 Published: OCT 2008
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Times Cited: 0 *(from Web of Science Core Collection)*
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37. **Structure study of Bi4Ti3O12 produced via mechanochemically assisted synthesis**

Times Cited: 22 *(from Web of Science Core Collection)*

By: Stojanovic, Biljana D.; Paiva-Santos, Carlos O.; Cilense, Mario; et al.
MATERIALS RESEARCH BULLETIN Volume: 43 Issue: 7 Pages: 1743-1753 Published: JUL 1 2008
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38. **Study of Structure and Properties of Bi4Ti3O12 Prepared by Mechanochemical Syntheses**

By: Lazarevic, Z. Z.; Stojanovic, B. D.; Paiva-Santos, C. O.; et al.
Conference: 11th European Meeting on Ferroelectricity (EMF-2007) Location: Bled, SLOVENIA Date: SEP 03-07, 2007
FERROELECTRICS Volume: 368 Pages: 392-400 Article Number: PII 905106997 Published: 2008
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Times Cited: 2 *(from Web of Science Core Collection)*
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39. **Characterization of bismuth titanate ceramics derived by mechanochemical synthesis**

By: Lazarevic, Z. Z.; Stojanovic, B. D.; Paiva-Santos, C. O.; et al.
SCIENCE OF SINTERING Volume: 39 Issue: 3 Pages: 267-272 Published: SEP-DEC 2007
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Times Cited: 3 *(from Web of Science Core Collection)*
Usage Count

40. **Synthesis of Bi4Ti3O12 nanoparticles by mechanochemical reaction**

By: Lazarevic, Z. Z.; Stojanovic, B. D.; Romcevic, N. Z.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 7 Pages: 2262-2265 Published: JUL 2007
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Times Cited: 4 *(from Web of Science Core Collection)*
Usage Count

41. **Structural and ferroelectrical properties of bismuth titanate ceramic powders prepared by mechanically assisted synthesis**

By: Lazarevic, Z. Z.; Romcevic, N. Z.; Todorovic, M.; et al.
SCIENCE OF SINTERING Volume: 39 Issue: 2 Pages: 177-184 Published: MAY-AUG 2007
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42. **Raman spectra of bismuth titanate ceramics**

By: Lazarevic, Z. Z.; Romcevic, N. Z.; Romcevic, M. J.; et al.
Edited by: Uskokovic, DP; Milonjic, SK; Rakovic, DI
Conference: 8th Conference of the Yugoslav-Materials-Research-Society (Yu-MRS) Location: Herceg Novi, MONTENEGRO Date: SEP 04-08, 2006
Sponsor(s): Yugoslav Mat Res Soc
RESEARCH TRENDS IN CONTEMPORARY MATERIALS SCIENCE Book Series: Materials Science Forum Volume: 555 Pages: 243-+ Published: 2007
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43. **Mechanochemical synthesis of Bi4Ti3O12**

By: Lazarevic, Z. Z.; Stojanovic, B. D.; Varela, J. A.
Edited by: Uskokovic, DP; Milonjic, SK; Rakovic, DI
Conference: 7th Conference of the Yugoslav-Materials-Research-Society (Yu-MRS) Location: Herceg Novi, SERBIA MONTENEG Date: SEP 12-16, 2005
Sponsor(s): Yugoslav Mat Res Soc
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44. **Determination of the protective properties of electrodeposited organic epoxy coatings on aluminium and modified aluminium surfaces**

By: Lazarevic, ZZ; Miskovic-Stankovic, VB; Kacarevic-Popovic, Z; et al.

Times Cited: 11 *(from Web of Science Core Collection)*
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Conference: 54th Annual Meeting of the International-Society-of-Electrochemistry Location: Sao Pedro, BRAZIL Date: AUG 31-SEP 05, 2003
Sponsor(s): Int Soc Electrochem
CORROSION SCIENCE Volume: 47 Issue: 3 Pages: 823-834 Published: MAR 2005
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45. **The study of corrosion stability of organic epoxy protective coatings on aluminium and modified aluminium surfaces**

By: Lazarevic, ZZ; Miskovic-Stankovic, VB; Kacarevic-Popovic, Z; et al.
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY Volume: 16 Issue: 1 Pages: 98-102 Published: JAN-FEB 2005
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46. **Corrosion behaviour of epoxy coatings on modified aluminium surfaces**

By: Miskovic-Stankovic, VB; Lazarevic, ZZ; Kacarevic-Popovic, Z; et al.
BULLETIN OF ELECTROCHEMISTRY Volume: 18 Issue: 8 Pages: 343-348 Published: AUG 2002
View Abstract

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47. **Electrochemical properties and thermal stability of epoxy coatings electrodeposited on aluminium and modified aluminium surfaces**

By: Miskovic-Stankovic, VB; Lazarevic, ZZ; Kacarevic-Popovic, AM
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY Volume: 66 Issue: 11-12 Pages: 871-880 Published: 2001
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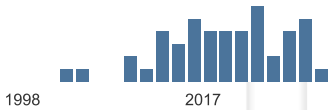

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Citing articles
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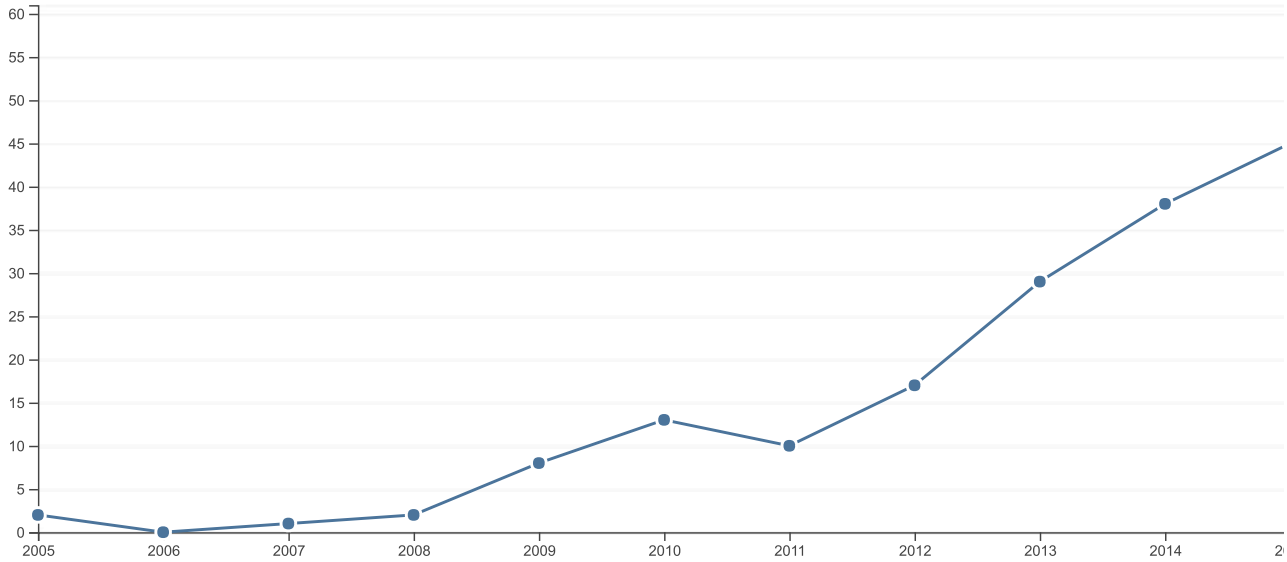

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1. **Structure study of Bi4Ti3O12 produced via mechanochemically assisted synthesis** By: Stojanovic, Biljana D.; Paiva-Santos, Carlos O.; Cilense, Mario; et al.	1	1	3	2	0	22	2.20

	MATERIALS RESEARCH BULLETIN Volume: 43 Issue: 7 Pages: 1743-1753 Published: JUL 1 2008							
2.	**Nanodimensional spinel NiFe2O4 and ZnFe2O4 ferrites prepared by soft mechanochemical synthesis** By: Lazarevic, Z. Z.; Jovalekic, C.; Milutinovic, A.; et al. Conference: 21st IEEE International Symposium on Applications of Ferroelectrics held jointly with 11th European Conference on the Applications of Polar Dielectrics and 4th Conference on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials Location: Univ Aveiro, Aveiro, PORTUGAL Date: JUL 09-13, 2012 Sponsor(s): IEEE; IEEE, Ultrason, Ferroelect & Frequency Control (UFFC) Soc JOURNAL OF APPLIED PHYSICS Volume: 113 Issue: 18 Article Number: 187221 Published: MAY 14 2013	3	4	4	10	0	21	4.20
3.	**Preparation and Characterization of Nano Ferrites** By: Lazarevic, Z. Z.; Jovalekic, C.; Milutinovic, A.; et al. ACTA PHYSICA POLONICA A Volume: 121 Issue: 3 Pages: 682-686 Published: MAR 2012	3	6	4	5	0	21	3.50
4.	**Study of manganese ferrite powders prepared by a soft mechanochemical route** By: Lazarevic, Z. Z.; Jovalekic, C.; Recnik, A.; et al. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 509 Issue: 41 Pages: 9977-9985 Published: OCT 13 2011	3	3	1	4	0	19	2.71
5.	**Characterization of Nanostructured Spinel NiFe2O4 Obtained by Soft Mechanochemical Synthesis** By: Lazarevic, Z. Z.; Jovalekic, C.; Sekulic, D.; et al. SCIENCE OF SINTERING Volume: 44 Issue: 3 Pages: 331-339 Published: SEP-DEC 2012	1	6	6	4	0	18	3.00
6.	**Structure study of nanosized La- and Sb-doped BaTiO3** By: Lazarevic, Z. Z.; Vijatovic, M. M.; Stojanovic, B. D.; et al. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 494 Issue: 1-2 Pages: 472-475 Published: APR 2 2010	2	2	4	2	0	18	2.25
7.	**Study on bi-layered ceramics powders prepared by the mechanochemical synthesis** By: Lazarevic, Z. Z.; Romcevic, N. Z.; Bobic, J. D.; et al. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 486 Issue: 1-2 Pages: 848-852 Published: NOV 3 2009	9	0	2	0	0	18	2.00
8.	**Preparation and characterization of spinel nickel ferrite obtained by the soft mechanochemically assisted synthesis** By: Lazarevic, Z. Z.; Jovalekic, C.; Recnik, A.; et al. MATERIALS RESEARCH BULLETIN Volume: 48 Issue: 2 Pages: 404-415 Published: FEB 2013	4	3	2	2	0	15	3.00
9.	**Study of structural and optical properties of YAG and Nd:YAG single crystals** By: Kostic, S.; Lazarevic, Z. Z.; Radojevic, V.; et al. MATERIALS RESEARCH BULLETIN Volume: 63 Pages: 80-87 Published: MAR 2015	0	2	4	7	0	13	4.33
10.	**The characterization of the barium titanate ceramic powders prepared by the Pechini type reaction route and mechanically assisted synthesis** By: Lazarevic, Z. Z.; Vijatovic, M.; Dohcevic-Mitrovic, Z.; et al. Conference: 11th Electroceramics Conference 2008 Location: Univ Manchester, Manchester, ENGLAND Date: SEP 01-03, 2008 JOURNAL OF THE EUROPEAN CERAMIC SOCIETY Volume: 30 Issue: 2 Special Issue: SI Pages: 623-628 Published: JAN 2010	3	3	1	0	0	11	1.38

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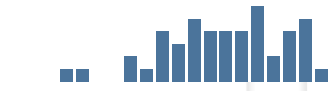

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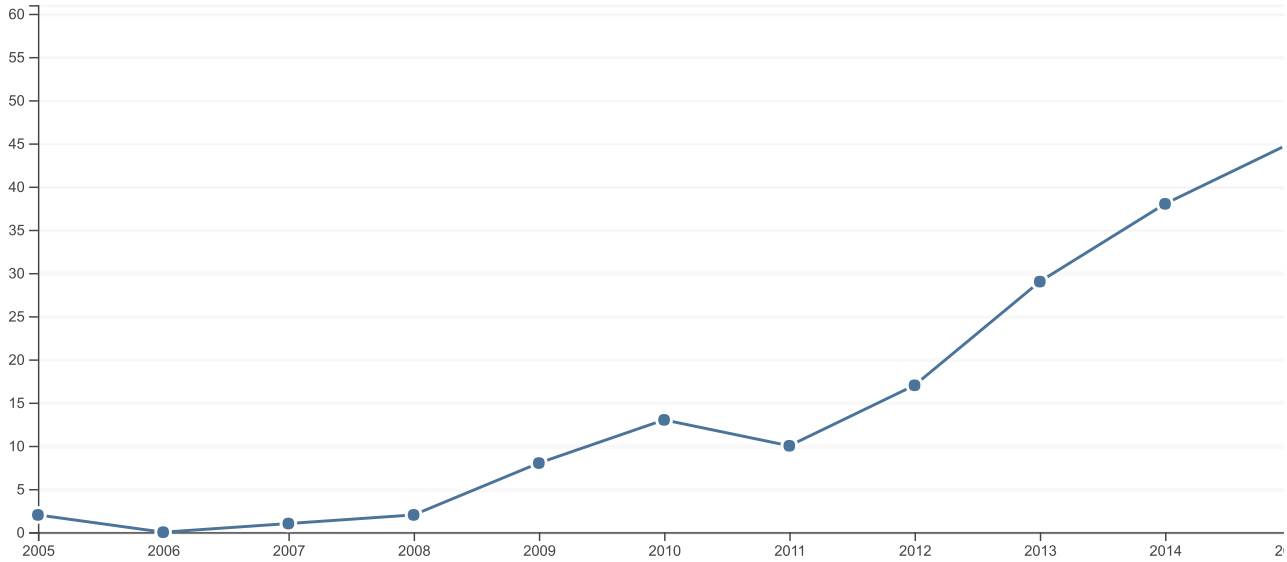

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☐	11. **Determination of the protective properties of electrodeposited organic epoxy coatings on aluminium and modified aluminium surfaces** By: Lazarevic, ZZ; Miskovic-Stankovic, VB; Kacarevic-Popovic, Z; et al.	2	0	2	0	0	11	0.85

Conference: 54th Annual Meeting of the International-Society-of-Electrochemistry Location: Sao Pedro, BRAZIL Date: AUG 31-SEP 05, 2003 Sponsor(s): Int Soc Electrochem
CORROSION SCIENCE Volume: 47 Issue: 3 Pages: 823-834 Published: MAR 2005

12.	**Characterization of partially inverse spinel ZnFe2O4 with high saturation magnetization synthesized via soft mechanochemically assisted route** By: Lazarevic, Zorica Z.; Jovalekic, Cedomir; Ivanovski, Valentin N.; et al. JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 75 Issue: 7 Pages: 869-877 Published: JUL 2014	0	2	3	5	0	10	2.50
13.	**Structural, electrical and dielectric properties of spinel nickel ferrite prepared by soft mechanochemical synthesis** By: Lazarevic, Zorica Z.; Jovalekic, Cedomir; Sekulic, Dalibor L.; et al. MATERIALS RESEARCH BULLETIN Volume: 48 Issue: 10 Pages: 4368-4378 Published: OCT 2013	1	3	2	3	1	10	2.00
14.	**Temperature-dependent complex impedance, electrical conductivity and dielectric studies of MFe2O4 (M = Mn, Ni, Zn) ferrites prepared by sintering of mechanochemical synthesized nanopowders** By: Sekulic, Dalibor L.; Lazarevic, Zorica Z.; Sataric, Miljko V.; et al. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 26 Issue: 3 Pages: 1291-1303 Published: MAR 2015	0	0	4	4	0	8	2.67
15.	**The Comparative Study of the Structural and the Electrical Properties of the Nano Spinel Ferrites Prepared by the Soft Mehanochemical Synthesis** By: Sekulic, D. L.; Lazarevic, Z. Z.; Jovalekic, C.; et al. SCIENCE OF SINTERING Volume: 46 Issue: 2 Pages: 235-245 Published: 2014	0	2	2	3	0	7	1.75
16.	**Study of Barium Bismuth Titanate Prepared by Mechanochemical Synthesis** By: Lazarevic, Z. Z.; Bobic, J.; Romcevic, N. Z.; et al. SCIENCE OF SINTERING Volume: 41 Issue: 3 Pages: 329-335 Published: SEP-DEC 2009	2	1	1	0	0	6	0.67
17.	**Mechanochemical Activation Assisted Synthesis of Bismuth Layered-Perovskite Bi4Ti4O12** By: Lazarevic, Z. Z.; Stojanovic, B. D.; Romcevic, M. J.; et al. SCIENCE OF SINTERING Volume: 41 Issue: 1 Pages: 19-26 Published: JAN-APR 2009	2	1	1	1	0	6	0.67
18.	**Determination of magneto-optical quality and refractive index of bismuth germanium oxide single crystals grown by Czochralski technique** By: Lazarevic, Z. Z.; Mihailovic, P.; Kostic, S.; et al. OPTICAL MATERIALS Volume: 34 Issue: 11 Pages: 1849-1859 Published: SEP 2012	1	1	1	2	0	5	0.83
19.	**The study of corrosion stability of organic epoxy protective coatings on aluminium and modified aluminium surfaces** By: Lazarevic, ZZ; Miskovic-Stankovic, VB; Kacarevic-Popovic, Z; et al. JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY Volume: 16 Issue: 1 Pages: 98-102 Published: JAN-FEB 2005	0	0	2	0	0	5	0.38
20.	**Spectroscopy investigation of nanostructured nickel-zinc ferrite obtained by mechanochemical synthesis** By: Lazarevic, Zorica Z.; Milutinovic, Aleksandra N.; Jovalekic, Cedomir D.; et al. MATERIALS RESEARCH BULLETIN Volume: 63 Pages: 239-247 Published: MAR 2015	0	0	4	0	0	4	1.33

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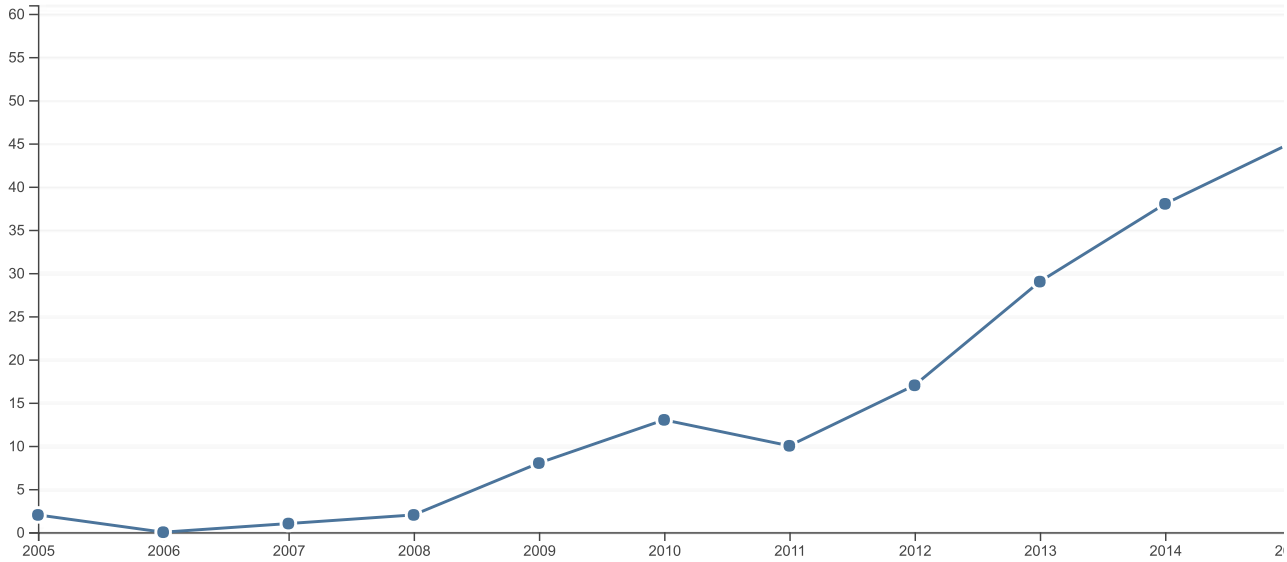

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		2014	2015	2016	2017	2018	Total	Average Citations per Year
		38	45	60	58	3	286	22.00
☐	21. **Synthesis of Bi4Ti3O12 nanoparticles by mechanochemical reaction** By: Lazarevic, Z. Z.; Stojanovic, B. D.; Romcevic, N. Z.	0	0	1	0	0	4	0.36

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS
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22.	**Structural and ferroelectrical properties of bismuth titanate ceramic powders prepared by mechanically assisted synthesis** By: Lazarevic, Z. Z.; Romcevic, N. Z.; Todorovic, M.; et al. SCIENCE OF SINTERING Volume: 39 Issue: 2 Pages: 177-184 Published: MAY-AUG 2007	0	1	0	0	1	4	0.36
23.	**Corrosion behaviour of epoxy coatings on modified aluminium surfaces** By: Miskovic-Stankovic, VB; Lazarevic, ZZ; Kacarevic-Popovic, Z; et al. BULLETIN OF ELECTROCHEMISTRY Volume: 18 Issue: 8 Pages: 343-348 Published: AUG 2002	0	0	3	0	0	4	0.25
24.	**Impedance Spectroscopy of Nanocrystalline MgFe2O4 and MnFe2O4 Ferrite Ceramics: Effect of Grain Boundaries on the Electrical Properties** By: Sekulic, Dalibor L.; Lazarevic, Zorica Z.; Jovalekic, Cedomir D.; et al. SCIENCE OF SINTERING Volume: 48 Issue: 1 Pages: 17-28 Published: JAN-APR 2016	0	0	0	3	0	3	1.50
25.	**Study of ferroelectric BaBi4Ti4O15 obtained via mechanochemical synthesis** By: Lazarevic, Z. Z.; Romcevic, N. Z.; Bobic, J. D. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 3 Issue: 7 Pages: 700-703 Published: JUL 2009	0	2	0	0	0	3	0.33
26.	**Characterization of bismuth titanate ceramics derived by mechanochemical synthesis** By: Lazarevic, Z. Z.; Stojanovic, B. D.; Paiva-Santos, C. O.; et al. SCIENCE OF SINTERING Volume: 39 Issue: 3 Pages: 267-272 Published: SEP-DEC 2007	1	0	0	0	0	3	0.27
27.	**Mechanochemical synthesis of Bi4Ti3O12** By: Lazarevic, Z. Z.; Stojanovic, B. D.; Varela, J. A. Edited by: Uskokovic, DP; Milonjic, SK; Rakovic, DI Conference: 7th Conference of the Yugoslav-Materials-Research-Society (Yu-MRS) Location: Herceg Novi, SERBIA MONTENEG Date: SEP 12-16, 2005 Sponsor(s): Yugoslav Mat Res Soc RECENT DEVELOPMENTS IN ADVANCED MATERIALS AND PROCESSES Book Series: MATERIALS SCIENCE FORUM Volume: 518 Pages: 125-130 Published: 2006	0	0	0	0	0	3	0.25
28.	**Study of NiFe2O4 and ZnFe2O4 Spinel Ferrites Prepared by Soft Mechanochemical Synthesis** By: Lazarevic, Z. Z.; Jovalekic, C.; Milutinovic, A.; et al. FERROELECTRICS Volume: 448 Issue: 1 Pages: 1-11 Published: JAN 1 2013	0	1	1	0	0	2	0.40
29.	**Study of Structure and Properties of Bi4Ti3O12 Prepared by Mechanochemical Syntheses** By: Lazarevic, Z. Z.; Stojanovic, B. D.; Paiva-Santos, C. O.; et al. Conference: 11th European Meeting on Ferroelectricity (EMF-2007) Location: Bled, SLOVENIA Date: SEP 03-07, 2007 FERROELECTRICS Volume: 368 Pages: 392-400 Article Number: PII 905106997 Published: 2008	0	0	0	0	0	2	0.20
30.	**Raman spectra of bismuth titanate ceramics** By: Lazarevic, Z. Z.; Romcevic, N. Z.; Romcevic, M. J.; et al. Edited by: Uskokovic, DP; Milonjic, SK; Rakovic, DI Conference: 8th Conference of the Yugoslav-Materials-Research-Society (Yu-MRS) Location: Herceg Novi, MONTENEGRO Date: SEP 04-08, 2006 Sponsor(s): Yugoslav Mat Res Soc	0	0	0	0	1	2	0.18

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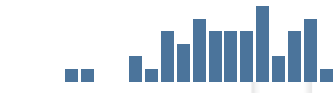

***h*-index**
11

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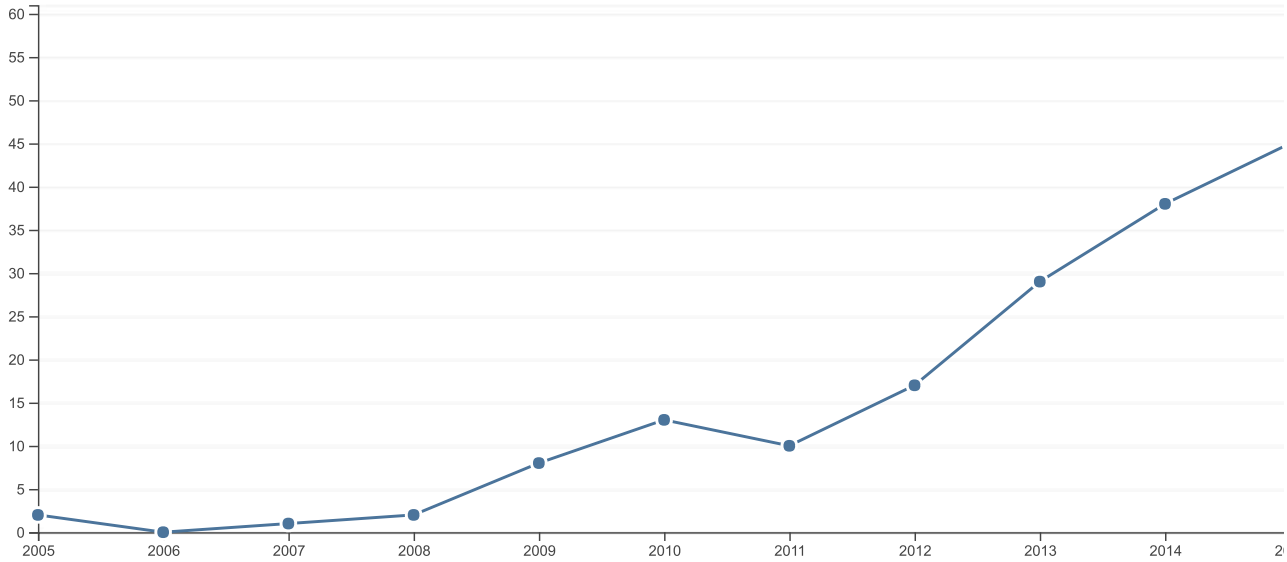

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☐	31. **Electrochemical properties and thermal stability of epoxy coatings electrodeposited on aluminium and modified aluminium surfaces** By: Miskovic-Stankovic, VB; Lazarevic, ZZ; Kacarevic-Popovic, AM	0	0	0	0	0	2	0.12

	JOURNAL OF THE SERBIAN CHEMICAL SOCIETY Volume: 66 Issue: 11-12 Pages: 871-880 Published: 2001							
32.	**Optical properties of layered III-VI semiconductor gamma-InSe:M (M=Mn, Fe, Co, Ni)** By: Milutinovic, Aleksandra; Lazarevic, Zorica Z.; Jakovljevic, Milka; et al. JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 89 Pages: 120-127 Published: FEB 2016	0	0	0	1	0	1	0.50
33.	**Spectroscopy investigation of nanostructured zinc ferrite obtained by mechanochemical synthesis** By: Lazarevic, Z. Z.; Jovalekic, C.; Milutinovic, A.; et al. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 7 Issue: 9-10 Pages: 720-725 Published: SEP-OCT 2013	0	1	0	0	0	1	0.20
34.	**Spectroscopy study of Bi12GeO20 single crystals** By: Lazarevic, Z. Z.; Kostic, S.; Radojevic, V.; et al. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 7 Issue: 1-2 Pages: 58-61 Published: JAN-FEB 2013	0	0	0	0	0	1	0.20
35.	**Spectroscopy study of BaTiO3 obtained from mechanochemically activated oxides mixture** By: Lazarevic, Z. Z.; Romcevic, N. Z.; Romcevic, M. J. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 5 Issue: 1-2 Pages: 30-33 Published: JAN 2011	0	0	0	0	0	1	0.14
36.	**Internal oxidation of Ag-VC composites** By: Skraba, Polona; Kosec, Ladislav; Bizjak, Milan; et al. CORROSION SCIENCE Volume: 53 Issue: 1 Pages: 127-134 Published: JAN 2011	0	0	1	0	0	1	0.14
37.	**Study of undoped and donor doped barium titanate prepared by modified Pechini method** By: Lazarevic, Z. Z.; Romcevic, N. Z. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 4 Issue: 1 Pages: 15-18 Published: JAN 2010	0	0	1	0	0	1	0.13
38.	**Yttrium Orthoferrite Powder Obtained by the Mechanochemical Synthesis** By: Lazarevic, Zorica Z.; Jovalekic, Cedomir; Gilic, Martina; et al. SCIENCE OF SINTERING Volume: 49 Issue: 3 Pages: 277-284 Published: JUL-SEP 2017	0	0	0	0	0	0	0.00
39.	**The Bridgman Method Growth and Spectroscopic Characterization of Calcium Fluoride Single Crystals** By: Elswie, Hana Ibrahim; Lazarevic, Zorica Z.; Radojevic, Vesna; et al. SCIENCE OF SINTERING Volume: 48 Issue: 3 Pages: 333-341 Published: SEP-DEC 2016	0	0	0	0	0	0	0.00
40.	**Raman spectroscopy study of anodic film on Ag43Cu37Zn20 alloy** By: Dimitrijevic, S. P.; Lazarevic, Z. Z.; Rajcic-Vujasinovic, M.; et al. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 10 Issue: 9-10 Pages: 777-780 Published: SEP-OCT 2016	0	0	0	0	0	0	0.00

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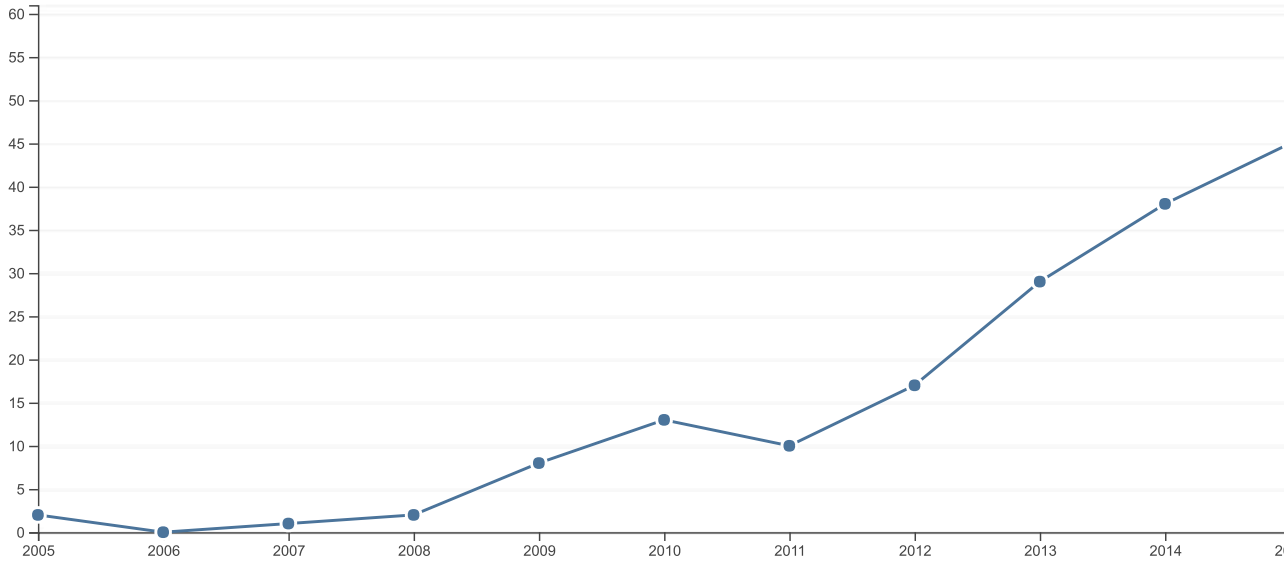

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41. **Growth, characterization and optical quality of calcium fluoride single crystals grown by the Bridgman method** By: Elswie, Hana Ibrahim; Kostic, Slobodanka; Radojevic, Vesna; et al.	0	0	0	0	0	0	0.00

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42.	**Spectroscopy investigation of nanostructured nickel-zinc ferrite obtained by mechanochemical synthesis** By: Lazarevic, Z. Z.; Jovalekic, C.; Milutinovic, A.; et al. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 9 Issue: 1-2 Pages: 102-106 Published: JAN-FEB 2015	0	0	0	0	0	0	0.00
43.	**Investigation of Ferroelectric Layered Perovskite Barium Bismuth Tantalate Prepared by Solid-State Reaction** By: Simoes, A. Z.; Stojanovic, B. D.; Lazarevic, Z. Z.; et al. Conference: 12th European Meeting on Ferroelectricity EMF Location: Bordeaux, FRANCE Date: JUN 26-JUL 01, 2011 FERROELECTRICS Volume: 428 Pages: 27-35 Published: 2012	0	0	0	0	0	0	0.00
44.	**Study of Bi12SiO20 single crystals obtained by Czochralski method** By: Lazarevic, Z. Z.; Kostic, S.; Romcevic, M. J.; et al. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 5 Issue: 1-2 Pages: 150-152 Published: JAN 2011	0	0	0	0	0	0	0.00
45.	**INFRARED AND RAMAN SPECTROSCOPY STUDY OF ANTIMONY DOPED BARIUM TITANATE PREPARED FROM ORGANOMETALLIC COMPLEX** By: Lazarevic, Zorica Z.; Romcevic, Nebojsa Z.; Romcevic, Maja J.; et al. Conference: 11th Annual Conference of the Materials-Research-Society-of-Serbia (YUCOMAT 2009) Location: Heroeg Novi, MONTENEGRO Date: AUG 31-SEP 04, 2009 Sponsor(s): Mat Res Soc Serbia INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 24 Issue: 6-7 Pages: 676-681 Published: MAR 20 2010	0	0	0	0	0	0	0.00
46.	**Characterization of doped BaTiO3 ceramic powders synthesized from polymeric precursors** By: Lazarevic, Z. Z.; Romcevic, N. Z. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 3 Issue: 10 Pages: 1042-1045 Published: OCT 2009	0	0	0	0	0	0	0.00
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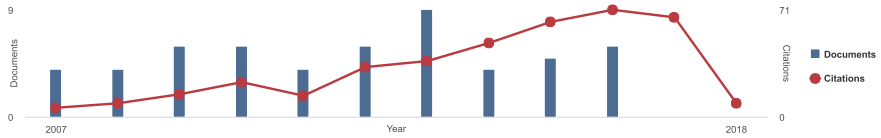

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Study of structure and properties of Bi4Ti3O 12 prepared by mechanochemical syntheses	Lazarević, Z.Ž., Stojanović, B.D., Paiva-Santos, C.O., Romčević, N.Ž.	2008	Ferroelectrics 368(1 PART 2), pp. 154-162	3
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Synthesis and characterization of barium strontium titanate powder	Lazarević, Z.Ž., Romčević, N.Ž., Stojanović, B.D.	2008	Journal of Optoelectronics and Advanced Materials 10(10), pp. 2675-2677	0
View abstract ⌄ KOBSON Related documents				
Structure study of Bi4Ti3O12 produced via mechanochemically assisted synthesis	Stojanović, B.D., Paiva-Santos, C.O., Cilense, M., Jovalekić, C., Lazarević, Z.Z.	2008	Materials Research Bulletin 43(7), pp. 1743-1753	26
View abstract ⌄ KOBSON View at Publisher Related documents				
Spectroscopy study of Bi4Ti3O12 obtained from mechanically activated Bi2O3-TiO2 mixtures	Lazarević, Z., Stojanović, B., Romčević, M., (...), Jovalekić, C., Romčević, N.	2008	Journal of Alloys and Compounds 453(1-2), pp. 499-502	9
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Raman spectra of bismuth titanate ceramics	Lazarević, Z.Ž., Romčević, N.Ž., Romčević, M.J., Stojanović, B.D.	2007	Materials Science Forum 555, pp. 243-247	2
View abstract ⌄ KOBSON Related documents				
Structural and ferroelectrical properties of bismuth titanate ceramic powders prepared by mechanically assisted synthesis	Lazarević, Z.Ž., Romčević, N.Ž., Todorović, M., Stojanović, B.D.	2007	Science of Sintering 39(2), pp. 177-184 Open Access	5
View abstract ⌄ KOBSON View at Publisher Related documents				
Characterization of bismuth titanate ceramics derived by mechanochemical synthesis	Lazarević, Z.Ž., Stojanović, B.D., Paiva-Santos, C.O., Romčević, N.Ž., Varela, J.A.	2007	Science of Sintering 39(3), pp. 267-272 Open Access	4
View abstract ⌄ KOBSON View at Publisher Related documents				
Synthesis of Bi4Ti3O12 nanoparticles by mechanochemical reaction	Lazarević, Z.Ž., Stojanović, B.D., Romčević, N.Ž.	2007	Journal of Optoelectronics and Advanced Materials 9(7), pp. 2262-2265	4
View abstract ⌄ KOBSON Related documents				
Mechanochemical synthesis of Bi4Ti3O12	Lazarević, Z.Ž., Stojanović, B.D., Varela, J.A.	2006	Materials Science Forum 518, pp. 125-130	3
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Document title	Authors	Year	Source	Cited by
Mechanically activating formation of layered structured bismuth titanate	Stojanovic, B.D., Paiva-Santos, C.O., Jovalekic, C., (...), Lazarevic, Z., Varela, J.A.	2006	Materials Chemistry and Physics 96(2-3), pp. 471-476	27
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An approach to analyzing synthesis, structure and properties of bismuth titanate ceramics	Lazarević, Z., Stojanović, B.D., Varela, J.A.	2005	Science of Sintering 37(3), pp. 199-216 Open Access	19
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Determination of the protective properties of electrodeposited organic epoxy coatings on aluminium and modified aluminium surfaces	Lazarević, Z.Ž., Mišković-Stanković, V.B., Kačarević-Popović, Z., Dražić, D.M.	2005	Corrosion Science 47(3 SPEC. ISS.), pp. 823-834	12
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The study of corrosion stability of organic epoxy protective coatings on aluminium and modified aluminium surfaces	Lazarević, Z.Ž., Mišković-Stanković, V.B., Kačarević-Popović, Z., Dražić, D.M.	2005	Journal of the Brazilian Chemical Society 16(1), pp. 98-102 Open Access	4
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Electrochemical properties and thermal stability of epoxy coatings electrodeposited on aluminium and modified aluminium surfaces	Miskovic-Stankovic, V.B., Lazarević, Z.Z., Kačarević-Popović, Z.M.	2001	Journal of the Serbian Chemical Society 66(11-12), pp. 871-880 Open Access	2
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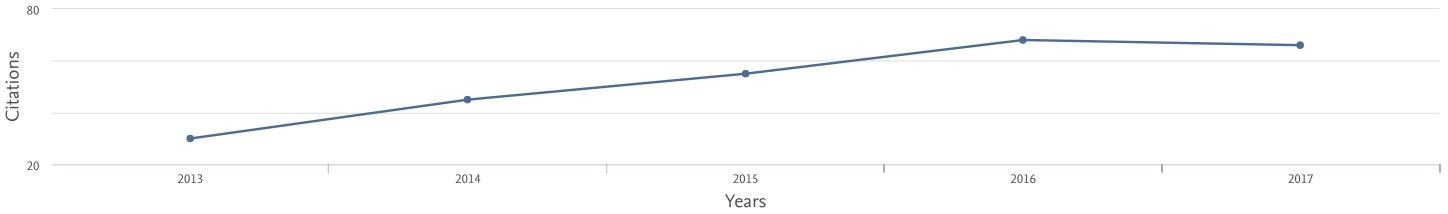

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2	Growth, characterization and optical quality of calcium fluo...	2016							0		0
3	Optical properties of Cd<inf>1-x</inf>Mn<inf>x</inf>S nanopa...	2016							0		0
4	Optical properties of layered III-VI semiconductor γ-InSe:M ...	2016						1	**1**		**1**
5	The bridgman method growth and spectroscopic characterizatio...	2016							0		0
6	Impedance spectroscopy of nanocrystalline MgFe<inf>2</inf>O<...	2016						3	**3**		**3**
7	Far-infrared spectroscopy of Zn<inf>1-x</inf>Mn&...	2015					1		**1**		**1**
8	Spectroscopy investigation of nanostructured nickel-zinc fer...	2015							0		0
9	Temperature-dependent complex impedance, electrical conducti...	2015					3	4	**7**		**7**
10	Spectroscopy investigation of nanostructured nickel-zinc fer...	2015					3	1	**4**		**4**
11	Study of structural and optical properties of YAG and Nd:YAG...	2015				3	3	8	**14**		**14**
12	Characterization of partially inverse spinel ZnFe<inf>2</inf...	2014				1	3	5	**9**	1	**10**
13	The comparative study of the structural and the electrical p...	2014				2	1	3	**6**		**6**
14	Far-infrared investigations of the surface modes in CdS thin...	2014							0		0
15	Spectroscopic characterization of YAG and Nd:YAG single crys...	2014				1			**1**	1	**2**
16	Study of nife <inf>2</inf>O <inf>4</inf> and ZnFe <inf>2</in...	2013				1	1		**2**		**2**
17	Raman spectroscopy of bismuth silicon oxide single crystals ...	2013					1	1	**2**		**2**

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18	Spectroscopy investigation of nanostructured zinc ferrite ob...	2013							0		0
19	Structural, electrical and dielectric properties of spinel n...	2013			1	3	2	3	**9**	1	**10**
20	The cation inversion and magnetization in nanopowder zinc fe...	2013					3		**3**		**3**
21	Plasmon-ionized impurity-phonon interaction in PbTe doped wi...	2013							0		0
22	Nanodimensional spinel NiFe<inf>2</inf>O<inf>4</inf> and ZnF...	2013		1	2	3	4	11	**21**	1	**22**
23	Spectroscopy study of Bi12GeO20 single crystals	2013							0		0
24	Preparation and characterization of spinel nickel ferrite ob...	2013		2	3	2	2	2	**11**		**11**
25	Characterization of nanostructured spinel NiFe<inf>2</inf>O<...	2012			1	6	5	4	**16**	1	**17**
26	Soft mechanochemical synthesis and characterization of nanod...	2012							0		0
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30	Spectroscopy characterization of MnSe nanoclasters randomly ...	2012						1	**1**		**1**
31	Study of manganese ferrite powders prepared by a soft mechan...	2011	1	4	3	2	1	4	**14**		**15**
32	Study of Bi<inf>12</inf>SiO<inf>20</inf> single crystals obt...	2011	1						0		**1**
33	Internal oxidation of Ag-VC composites	2011					1		**1**		**1**
34	Spectroscopy study of BaTiO<inf>3</inf> obtained from mechan...	2011	1						0		**1**
35	Optical properties of plastically deformed copper	2010		1			1		**2**		**2**
36	Structure study of nanosized La- and Sb-doped BaTiO<inf>3</i...	2010	5	3	1	2	3	2	**11**		**16**
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42	Study of barium bismuth titanate prepared by mechanochemical...	2009	1	1	2	1	2		**6**		**7**
43	Study on bi-layered ceramics powders prepared by the mechano...	2009	6	1	9		2		**12**		**18**
44	Study of ferroelectric BaBi<inf>4</inf>Ti<inf>4</inf>O<inf>1...	2009		1		2			**3**		**3**
45	Raman spectroscopy of multiphonon emission process in Ni-dop...	2009	1	1	1			2	**4**		**5**
46	Characterization of barium titanate ceramic powders by Raman...	2009	4	2	4	3	5	1	**15**		**19**
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53	Structural and ferroelectrical properties of bismuth titanat...	2007	2	1		1			**2**	1	**5**
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58	Determination of the protective properties of electrodeposit...	2005	8	1	2		1		**4**		**12**
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☐ 60	Electrochemical properties and thermal stability of epoxy co...	2001		1					1		1

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Top of page

Прилози уз одељак 5.
тачка 1

1.6 Награде

KRISTAL INFIZ

Sinfiz

Кристал ИНФИЗ и Спектроскопија ИНФИЗ,
Развојно производни центри Института за физику, додељују:

ДИПЛОМУ

др Зорици Лазаревић

за изузетан допринос у повећању продуктивности рада
на научним пројектима Центра у периоду 2006-2010.

др Небојша Ромчевић
директор Кристал ИНФИЗ д.о.о.

Драган Игњатијевић
директор Спектроскопије ИНФИЗ д.о.о.

У Београду, мај 2010.

Belgrade, 10. 06. 2012.

P O T V R D A

Ovim se potvrđuje da je **Dr. Zorica Lazarević,** naučni saradnik Instituta za fiziku, Univerziteta u Beogradu, osvojila nagradu za najbolju usmenu prezentaciju rada:

Raman study of ferroelectric bismuth titanate

autora: N. Ž. Romčević, Z. Ž. Lazarević, M. J. Romčević, G. Stanišić i B. Stojanović

na konferenciji **The First Serbian Ceramic Society Conference: Advanced Ceramic Materials and Application**, održanoj u Beogradu od 10-12. 05. 2012 godine.

U ime programskog odbora konferencije i u svoje lično ime Vam čestitam i zahvaljujem na učešću.

Srdačan pozdrav,

Prof. Dr. Vojislav Mitić
Predsednik
Srpkog Keramičkog Društva

Belgrade, 05. 11. 2014.

P O T V R D A

Ovim se potvrđuje da je **Dr. Zorica Lazarević,** viši naučni saradnik Instituta za fiziku, Univerziteta u Beogradu, osvojila nagradu za najbolju poster prezentaciju rada:

Growth, structural and optical studies of neodymium doped yttrium aluminum garnet

Autora: S. Kostić, Z. Ž. Lazarević, M. Romčević, A. Milutinović, V. Radojević, M. Petrović-Damjanović, N. Ž. Romčević

na konferenciji **The Third Serbian Ceramic Society Conference: Advanced Ceramic Materials and Application**, održanoj u Beogradu od 29.09-1.10. 2014 godine.

U ime programskog odbora konferencije i u svoje lično ime Vam čestitam i zahvaljujem na učešću.

Srdačan pozdrav,

Prof. Dr. Vojislav Mitić
Predsednik
Srpkog Keramičkog Društva

Прилози уз одељак 5.
тачка 2

АНГАЖОВАНОСТ У ФОРМИРАЊУ НАУЧНИХ КАДРОВА

Прилог: Релевантне странице из теза

ДП

На основу чл. 30. став 3. Закона о високом образовању, чл. 40. Статута ТМФ-а и чл. 32. Правилника о докторским студијама ТМФ, на седници Наставно-научног већа Технолошко-металуршког факултета од 24.11.2016. године, донета је

О Д Л У К А

о прихватању Реферата Комисије за оцену подобности теме и кандидата
за израду докторске дисертације

Прихвата се Реферат Комисије за оцену подобности теме и кандидата и одобрава израда докторске дисертације HANA IBRAHIM EL SWIE, мастер инж. технологије, под називом: „Синтеза и карактеризација оптички активних композита са полимерном матрицом на бази монокристала (Synthesis and characterization of optical polymer composites based on single crystals).

Одлуку о давању сагласности на предлог теме докторске дисертације доноси Универзитет у Београду.

За менторе се одређују: др Весна Радојевић, редовни професор Универзитета у Београду, Технолошко-металуршки факултет и др Зорица Лазаревић, виши научни сарадник Универзитета у Београду, Институт за физику

Одлуку доставити: Универзитету у Београду на сагласност, кандидату, менторима, Служби за наставно студентске послове и архиви Факултета.

ДЕКАН

Проф. др Ђорђе Јанаћковић

UNIVERSITY OF BELGRADE
FACULTY OF TECHNOLOGY AND METALLURGY

Hana Ibrahim Elswie

SYNTHESIS AND CHARACTERIZATION OF OPTICAL POLYMER COMPOSITES BASED ON SINGLE CRYSTALS

Doctoral Dissertation

Belgrade, 2017.

UNIVERZITET U BEOGRADU
TEHNOLOŠKO-METALURŠKI FAKULTET

Hana Ibrahim Elswie

SINTEZA I KARAKTERIZACIJA OPTIČKI AKTIVNIH KOMPOZITA SA POLIMERNOM MATRICOM NA BAZI MONOKRISTALA

Doktorska Disertacija

Beograd, 2017.

Supervisors

Dr Vesna Radojević, full professor, University of Belgrade
Faculty of Technology and Metallurgy

Dr Zorica Lazarević, Associate Research Professor, University of Belgrade,
Institute of Physics

Member of Committee

Dr Petar Uskoković, full professor, University of Belgrade
Faculty of Technology and Metallurgy

Dr Radmila Jančić-Hajneman, full professor, University of Belgrade
Faculty of Technology and Metallurgy

Dr Dušica Stojanović, Associate Research Professor, University of Belgrade
Faculty of Technology and Metallurgy

Date:_____

ACKNOWLEDGEMENTS

First and foremost, I would like to thank Allah the almighty for giving me the courage, the willingness and patience to complete this work. Undertaking this PhD has been a truly life-changing experience for me and it would not have been possible to do without the support and guidance that I received from many people.

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I would like to express the deepest appreciation to my other advisor, Dr Zorica Lazarević, who has attitude and the substance of a genius: she continually and convincingly conveyed a spirit of adventure in regard to research. Without her guidance and persistent help this dissertation would not have been possible. It has been an honor to be their PhD student.

Special thanks to Dr Dušica Stojanović for her resourceful suggestions and technical support in experiments, her visionary thoughts and energetic working style have influenced me greatly as researcher.

I would like to thank my rest of committee members Dr Petar Uskoković and Dr Radmila Jančić- Heinemann my thesis examiners for their interest in my work and for their insightful suggestions and comments on my thesis.

I would like to thank the various members of with whom I had the opportunity to work and have not already mentioned Dejan Trifunović who provided a friendly and cooperative atmosphere at work and also useful feedback and insightful comments on my work, and for always making me feel so welcome. I was fortunate to have the chance to work with Ivana Radović who patiently taught me number of laboratory techniques, and worked closely with me. Many thanks to Andjela Radisavljević and Daniel Mihailović, who as good friends, were always willing to help and give his best suggestions. Special thanks to Dr Martina Gilić (the

Institute of Physics Belgrade) for technical help for recording Raman spectra and for the valuable discussion. Also, I want to express my gratitude to our dear colleagues who have helped in the measurement, Dr Slobodanka Kostić (the Institute of Physics Belgrade) and Dr Dalibor Sekulić (Faculty of Technical Sciences Novi Sad).

I would also like to thank my parents, brothers, and sisters. They were always supporting me and encouraging me with their best wishes, especially my father for always believing in me, and encouraging me to follow my dreams.

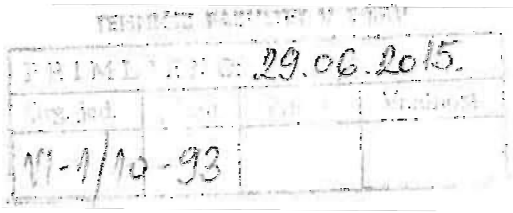
Finally, I would like to thank my husband, Hussam Daman, who has been by my side throughout this PhD, living every single minute of it, and without whom, I would not have had the courage to embark on this journey in the first place. He was always there cheering me up and stood by me through the good times and bad, and for his understanding, wisdom, patience, enthusiasm, and encouragement and for pushing me farther than I thought I could go.

UNIVERZITET U BEOGRADU
TEHNIČKI FAKULTET U BORU

Stevan P. Dimitrijević

ELEKTROHEMIJSKA I POVRŠINSKA KARAKTERIZACIJA TROKOMPONENTNIH LEGURA SISTEMA Ag-Cu-Zn U BLISKO NEUTRALNIM HLORIDNIM RASTVORIMA

doktorska disertacija



BOR, 2015. godine

UNIVERSITY OF BELGRADE
TECHNICAL FACULTY IN BOR

Stevan P. Dimitrijević

ELCTROCHEMICAL AND SURFACE CHARACTERIZATION OF TERNARY ALLOYS OF THE SYSTEM Ag-Cu-Zn IN NEAR NEUTRAL CHLORIDE SOLUTIONS

Doctoral Dissertation

BOR, 2015.

Zahvalnost

Zahvaljujem se svima koji su mi svojim radom, znanjem, savetima i podrškom pomogli u izradi doktorske disertacije.

Veliku zahvalnost dugujem prof. dr Mirjani Rajčić-Vujasinović, redovnom profesoru Tehničkog fakulteta u Boru, mentoru ove disertacije, na razumevanju, podršci, formiranju konačne verzije teksta, savetima, sugestijama i pomoći pri tumačenju rezultata. Njena stručnost, znanje i podrška su umnogome doprineli kvalitetu ove teze.

Eksperimentalni deo ove disertacije urađen je na tri fakulteta i u tri instituta.

Tehnološko-metalurškom fakultetu u Beogradu i Inovacionom centru TMF-a u Beogradu, posebno prof. dr Željku Kamberoviću, redovnom profesoru na sveukupnoj podršci prilikom izrade disertacije, savetima i sugestijama pri formiranju konačne verzije disertacije. Veliku zahvalnost dugujem prof. dr Bojanu Jokiću, docentu ovog fakulteta na izradi izuzetnih SEM i FE SEM snimaka, EDS analizi i tumačenju rezultata ovih metoda i korisnim sugestijama na celokupan tekst disertacije. Nikoli Jovanoviću se zahvaljujem na pomoći oko pripreme legura. Dr Mariji Korać, višem naučnom saradniku se zahvaljujem korisnim savetima i sugestijama u toku izrade disetracije. Redovnom profesoru dr Jeleni Bajat zahvaljujem na pomoći u prikupljanju relevantne literature.

Tehničkom fakultetu u Boru na kome su urađena elektrohemijska ispitivanja, se ovom prilikom zahvaljujem na izvarendnom prijemu i pomoći a posebno prof. dr Zoranu Steviću, redovnom profesoru na dodatnom softverskom modulu na elektrohemijskom sistemu koji je omogućio dodatne mogućnosti za potenciodinamičke metode kao i korisnim savetima i sugestijama pri formiranju konačne verzije disertacije. Doc. dr Vesni Grekulović, se zahvaljujem na saradnji prilikom snimanja cikličnih voltamograma i korisnim sugestijama u toku izrade disertacije. Veliku zahvalnost prof. Dr Dragani Žiković, redovnom profesoru i prof. Dr Draganu Manasijeviću, vanrednom profesoru za termodinamičke proračune legura sistema Ag-Cu-Zn. Takode se zahvaljujem prof. dr Svetlani Ivanov, varednom profesoru. Posebnu zahvalnost dugujem laborantu Tijani Jovanović sa katedre za Fizičku hemiju na pomoći pri pripremi rastvora. Zahvaljujem se Urošu Stamenkoviću i Tamari na pomoći pri poliranju uzoraka.

Institutu za rudarstvo i metalurgiju Bor, posebno Radiši Todoroviću, dipl. inž. met. na livenju legura.

Institutu za nuklerane sirovine Vinča, posebno Dr Miodragu Mitriću, višem naučnom saradniku veliku zahvalnost dugujem na XRD analizi. Dr Suzani Veličković, višem naučnom saradniku zahvaljujem na analizama masene spektrometrije na MALDI. Takođe se zahvaljujem i dr Aleksandru Devečerskom.

Dr Zorici Lazarević, višem naučnom sardaniku sa Instituta za fiziku Beograd se zahvaljujem na analizi rezultata Ramanove spektroskopije kao i savetima, sugestijama i pomoći pri tumačenju rezultata celokupne disertacije koji su doprineli većem kvalitetu konačnog teksta. Dr Milici Petrović, naučnom sardniku i dr Martini Gilić, naučnom sardniku sa ovog instituta se zahvaljujem na snimanju Raman spektara.

Nikoli Vukoviću, dipl. inž. geol. sa Rudarsko-geološkog fakulteta u Beogradu se zahvaljujem na rezultatima SEM EDS analize.

Posebnu zahvalnost dugujem tastu Branislavu Jovanoviću na mašinskoj obradi odlivaka i Draganu Stankoviću na pripremi elektroda.

Saši Martinoviću dipl. inž. met. se zahvaljujem na korisnim savetima i sugestijama u pripremi legura.

Dr Zoranu Anđiću se zahvaljujem na drugarskoj podršci i korisnim savetima pri obradi rezultata.

Miši Steviću se zahvaljujem na realizaciji proširenja softvera za elektrohemijska ispitivanja.

Fabrici bakarne žice u Boru se zahvaljujem na izvarednom prijemu i pomoći pri izradi uzoraka za eksperimentalni deo rada.

Firmi MEGABREND, posebno Nebojši Vidanoviću na pomoći pri pripremi elektroda.

Svojim dragim prijateljima Viši Tasiću i Jeleni Stanković se zahvaljujem na donetim uzorcima morskih voda sa Jadranskog, Egejskog i Jonskog mora.

Posebna zahvalnost mojoj porodici, posebno Katarini i Mihajlu bez kojih ova disertacija ne bi imala smisla i Silvani za podršku i strpljenje i pomoć u sastavljanju završne verzije teksta, uz korisne sugestije, što je bilo jednako važno koliko i pomoć u eksperimentalnom delu. Zahvaljujem i svojim roditeljima na podršci i razumevanju.

Doktorska disertacija predstavlja rezultat istraživanja u okviru tekućeg projekta Ministarstva prosvete, nauke i tehnološkog razvoja: TR 34033: "Inovativna sinergija nus-produkata, minimizacije otpada i čistije proizvodnje u metalurgiji", realizator: TMF Beograd, rukovodilac: prof. dr Željko Kamberović).

Bor,

Stevan Dimitrijević, dipl.inž.teh.

UNIVERZITET U NOVOM SADU
PRIRODNO-MATEMATIČKI FAKULTET
DEPARTMAN ZA FIZIKU

KORELACIJA IZMEĐU SASTAVA I SVOJSTAVA AMORFNOG AS_2S_3 DOPIRANOG BIZMUTOM

DOKTORSKA DISERTACIJA

Mentor: prof. dr Svetlana Lukić Petrović
Kandidat: mr Mirjana Šiljegović

Novi Sad, 2015 godine.

Koristim priliku da izrazim veliku zahvalnost:

• ***dr Svetlani Lukić Petrović***, redovnom profesoru Prirodno-matematičkog fakulteta u Novom Sadu, mentoru ovog rada, koja mi je kao šef Katedre za eksperimentalnu fiziku kondenzovane materije omogućila da se bavim problematikom iz koje je proistekao ovaj rad, na izuzetnoj savesnosti prilikom pregleda rukopisa i na velikoj pomoći u postupku izvođenja zaključaka,

• ***dr Dragoslavu Petroviću***, redovnom profesoru Prirodno-matematičkog fakulteta u Novom Sadu, na stručnim i vrlo korisnim sugestijama oko interpretacije eksperimentalnih rezultata koji se odnose na električna merenja,

• ***dr Daliboru Sekuliću***, naučnom saradniku Fakulteta tehničkih nauka u Novom Sadu, na ogromnoj pomoći pri izvođenju eksperimenata vezanih za električna i dielektrična merenja i obradi rezultata koji se na njih odnose, a naročito na konstantnoj raspoloživosti za konsultacije i sugestije i spremnosti da podeli svoje znanje,

• ***dr Goranu Štrbcu***, docentu Prirodno-matematičkog fakulteta u Novom Sadu, na svesrdnoj pomoći u realizaciji merenja termičkih karakteristika,

• ***dr Dragani Štrbac***, docentu Fakulteta tehničkih nauka u Novom Sadu, na angažmanu u realizaciji merenja spektralnih osobina,

• ***Milošu Bokorovu***, stručnom saradniku Prirodno-matematičkog fakulteta u Novom Sadu, na angažmanu u izvedbi SEM merenja,

• ***dr Imreu Gutu***, vanrednom profesoru Prirodno-matematičkog fakulteta u Novom Sadu i ***dr Ljubici Đačanin***, asistentu Prirodno-matematičkog fakulteta u Novom Sadu, na pomoći i sugestijama prilikom izvođenja termogravimetrijskih merenja,

• ***dr Zorici Lazarević***, višem naučnom saradniku Instituta za fiziku u Zemunu, na konsultacijama oko interpretacije Raman spektara,

• ***Radenku Kisiću***, kolegi i stručnom saradniku Prirodno-matematičkog fakulteta u Novom Sadu, na velikom zalaganju pri tehničkoj obradi pojedinih grafika i slika,

• ***dr Fedoru Skubanu***, docentu Prirodno-matematičkog fakulteta u Novom Sadu, na pruženoj pomoći pri tehničkoj obradi teksta, a najviše na velikom prijateljstvu i podršci,

• ***dr Tamari Ivetić***, višem naučnom saradniku Prirodno-matematičkog fakulteta u Novom Sadu, na pruženoj pomoći u postupku konvolucije Raman spektara,

• kolegama sa ***Departmana za sintezu materijala iz Instituta Jozef Stefan iz Ljubljane***, na saradnji tokom realizacije merenja Raman spektara,

Veliko **HVALA** dugujem mojim najdražima, **mojoj porodici**, čija me je neizmerna podrška i ljubav pratila u svim životnim fazama.

mr Mirjana Šiljegović

S A D R Ž A J

Прилози уз одељак 5.
тачка 4

РУКОВОЂЕЊЕ ПРОЈЕКТИМА, ПОТПРОЈЕКТИМА И ПРОЈЕКТНИМ ЗАДАЦИМА

Број 04-209/52
07-02- 20.11. год.
НОВИ САД

Евиденциони број уговора: 45003

На основу чл. 10, 97 и 98. Закона о научноистраживачкој делатности ("Службени гласник РС", бр. 110/05, 50/06-испр. и 18/10 - у даљем тексту: Закон), сагласно чл. 29 и 30. Акта о избору, вредновању и финансирању Програма суфинансирања интегралних и интердисциплинарних истраживања (Програм ИИИ) и Програма обезбеђивања и одржавања научноистраживачке опреме и простора за научноистраживачки рад (Програм НОП) за циклус истраживања у периоду 2011-2014. године број 451-01-967/2010-01 од 20. маја 2010. године (у даљем тексту: Акт), након поступка у складу са конкурсом за предлагање пројеката у оквиру финансирања Програма ИИИ и Програма НОП објављеним 23. маја 2010. године у дневном листу "Политика", а у складу са одлуком о финансирању број 401-00-9/2011-01 од 25. јануара 2011. године, уговорне стране:

1) РЕПУБЛИКА СРБИЈА - Министарство за науку и технолошки развој, Београд, Немањина 22-26, ПИБ 105002818, матични број: 17693794 (у даљем тексту: Министарство), које представља министар за науку и технолошки развој Божидар Ђелић (у даљем тексту: министар)

2) РЕАЛИЗАТОРИ ИСТРАЖИВАЊА - учесници у реализацији научноистраживачког пројекта:

2. 1) Геоекономски факултет у Београду, ПИБ 100024624, матични број:17251716, кога заступа др Бранислав Пелевић, декан

2. 2) Грађевински факултет у Београду, ПИБ 100251144, матични број:07006454, кога заступа др Ђорђе Вуксановић, декан

2. 3) Електротехнички факултет у Београду, ПИБ 101206130, матични број:07032498, кога заступа др Миодраг Поповић, декан

2. 4) Институт за нуклеарне науке 'Винча', ПИБ 101877940, матични број:7035250, кога заступа др Јован Недељковић, директор

2. 5) Институт за физику у Београду, ПИБ 100105980, матични број:7018029, кога заступа др Александар Белић, в.д. директор

2. 6) Машински факултет у Београду, ПИБ 100209517, матични број:07032501, кога заступа др Милорад Милованчевић, декан

2. 7) Технички факултет у Чачку, ПИБ 101123484, матични број:07181779, кога заступа др Јерослав Живанић, декан

2. 8) Технолошко-металуршки факултет у Београду, ПИБ 100123813, матични број:07032552, кога заступа др Иванка Поповић, декан

2. 9) Универзитет Унион - Рачунарски факултет, ПИБ 102971356, матични број:17489453, кога заступа др Драган Милетић, декан

2. 10) Факултет за пословне студије, ПИБ 100035467, матични број:17241117, кога заступа др Гордана Козмазец, декан

2. 11) Факултет техничких наука у Новом Саду, ПИБ 100724720, матични број:08067104, кога заступа др Илија Ћосић, декан

закључују

УГОВОР
О РЕАЛИЗАЦИЈИ И ФИНАНСИРАЊУ НАУЧНОИСТРАЖИВАЧКОГ ПРОЈЕКТА ИЗ ПРОГРАМА СУФИНАНСИРАЊА ИНТЕГРАЛНИХ И ИНТЕРДИСЦИПЛИНАРНИХ ИСТРАЖИВАЊА И ПРОГРАМА ОБЕЗБЕЂИВАЊА И ОДРЖАВАЊА НАУЧНОИСТРАЖИВАЧКЕ ОПРЕМЕ И ПРОСТОРА ЗА НАУЧНОИСТРАЖИВАЧКИ РАД ЗА ЦИКЛУС ИСТРАЖИВАЊА У ПЕРИОДУ 2011-2014. ГОДИНЕ

Члан 1.

Овим уговором се уређују међусобна права и обавезе уговорних страна и руководиоца пројекта у реализацији и финансирању научноистраживачког пројекта (у даљем тексту: Пројекат) у складу са Законом и Актом:

Наслов: Оптоелектронски нанодимензиони системи - пут ка примени;
Евиденциони број: 45003;
Руководилац пројекта: Др Небојша Ромчевић, научни саветник;
Реализатор истраживања у коме је запослен руководилац:
Институт за физику у Београду.

Пројекат се састоји од 7 подпројеката, и то:

- Подпројекат 1 :"Синтеза наноматеријала и структура", чији је руководилац Зорица Лазаревић, научни сарадник
- Подпројекат 2 :"Теорија оптичких особина наноструктура", чији је руководилац Милан Тадић, редовни професор
- Подпројекат 3 :"Електронски принципи формирања и функционисања наноструктура ", чији је руководилац Ивана Радисављевић, научни сарадник
- Подпројекат 4 :"Примена рачунара у повезивању теоријских, експерименталних и примењених истраживања", чији је руководилац Стеван Милинковић, редовни професор
- Подпројекат 5 :"Карактеризација нанаочестица и наноструктура", чији је руководилац Маја Ромчевић, виши научни сарадник
- Подпројекат 6 :"Испитивање електричних карактеристика нових материјала и пројектовање сензора са оптичким влакнима", чији је руководилац Милош Сланкаменац, асистент
- Подпројекат 7 :"Наноструктурни оптоелектонски сензорски системи", чији је руководилац Пеђа Михаиловић, доцент

I Финансирање пројекта

Члан 2.

Министарство финансира Пројекат сагласно расположивим средствима буџета Републике Србије и других извора, у складу са законом.

Овим уговором утврђује се износ и структура буџета Пројекта.

Буџет Пројекта обухвата:

УГОВОРНЕ СТРАНЕ:

1) за Министарство за науку и технолошки развој

Александар Белић, министар

2) РЕАЛИЗАТОРИ ИСТРАЖИВАЊА:

Реализатор истраживања	Потпис директора / декана
2. 1) Геоекономски факултет у Београду	(М.П.)
2. 2) Грађевински факултет у Београду	(М.П.)
2. 3) Електротехнички факултет у Београду	(М.П.)
2. 4) Институт за нуклеарне науке "Винча"	(М.П.)
2. 5) Институт за физику у Београду	(М.П.)
2. 6) Машински факултет у Београду	(М.П.)
2. 7) Технички факултет у Чачку	(М.П.)
2. 8) Технолошко-металуршки факултет у Београду	(М.П.)
2. 9) Универзитет Унион - Рачунарски факултет	(М.П.)
2. 10) Факултет за пословне студије	(М.П.)
2. 11) Факултет техничких наука у Новом Саду	(М.П.)

РУКОВОДИЛАЦ Пројекта

Др Небојша Ромчевић, научни саветник

На основу чл. 11, 28 и 32-36. Закона о иновационој делатности („Службени гласник Републике Србије", бр. 110/05 – у даљем тексту: Закон) и Правилника о условима конкурисања, критеријумима за избор реализатора пројеката и условима финансирања пројеката или изградње инфраструктуре намењене реализацији иновационих пројеката ("Службени гласник РС", бр. 59/06- у даљем тексту: Правилник), сагласно Одлуци број 451-01-2932/2007- 4/01 од 28. 12.2007. године и Одлуци број 401-00-00144/2008-01/82 од 27.10.2008.године, а у вези са финансирањем реализације одобрених иновационих пројеката пријављених на јавни позив објављен дана 31.12.2007. године у дневном листу „Политика", следеће уговорне стране:

1. **Република Србија - Министарство за науку и технолошки развој, Београд, Немањина 22-26. ПИБ 105002818, матични број: 17693794** (у даљем тексту: Министарство), и

2. Реализатори иновационог пројекта

2.1. Носилац реализације иновационог пројекта и регистровани реализатор, КРИСТАЛ ИНФИЗ ДОО, Београд,Прегревица 118, ПИБ 104669833, матични број: 20213574, субјект иновационе делатности уписан у Регистар иновационе делатности под ознаком бр. РИО/5/2006 (у даљем тексту: Регистровани реализатор/носилац реализације);

2.2. Реализатори учесници

А)Иновациони центар електротехничког факултета доо, Београд, Булевар Краља Александра 73, ПИБ:104385708, матични број:20146125 (у даљем тексту: Реализатор учесник);

Б)Институт за физику, Београд, Прегревица 118, ПИБ:100105980, матични број:07018029 (у даљем тексту: Реализатор учесник);

3. **Руководилац иновационог пројекта, Лазаревић Зорица, Београд,Прегревица 118, ЈМБГ:3011968775068** (у даљем тексту: Руководилац иновационог пројекта);

закључују

У Г О В О Р
о финансирању реализације иновационог пројекта по Програму иновационе делатности за 2007. годину

Члан 1.

Овим уговором утврђују се међусобна права и обавезе уговорних страна везано за начин и динамику реализације и услове финансирања буџетским средствима Иновациног пројекта Тip 1., „Производња магнетооптичког сензорског кристала" (у даљем тексту: Иновациони Пројекат), одобреног под евиденционим

У Београду, 12.10. 2008.године
Евиденциони број уговора: 401-00-00144/2008-01-ИПТip 1./82

УГОВОРНЕ СТРАНЕ

1. за Републику Србију - Министарство за науку и технолошки развој

Мр Божидар Ђелић, министар

2. за Реализаторе иновационог пројекта

1) за Регистрованог реализатора:
КРИСТАЛ ИНФИЗ ДОО

Др Ромчевић Небојша, директор

2) за Реализаторе учеснике

1. Иновациони центар електротехничког факултета доо, Београд

Др Дејан Живковић, директор

2. Институт за физику

Др Драган Поповић, директор

3. Руководилац иновационог пројекта

Лазаревић Зорица

NARODOWE CENTRUM NAUKI

Warszawa , dn 09/03/2011 r.
miejscowość

OKREŚLENIE RAM WSPÓŁPRACY MIĘDZY PARTNERAMI INSTYTUCJONALNYMI W ZAKRESIE REALIZACJI PROJEKTU BADAWCZEGO

nawiązanej między

Instytutem Fizyki Polskiej Akademii Nauk
nazwa instytucji polskiej

a

Institute of Physics, Belgrade University
nazwa instytucji zagranicznej

1. **Określenie partnerów z każdej ze stron *(imię i nazwisko, stopień/tytuł naukowy, nazwa jednostki lub instytucji, państwo, telefon, e-mail)* wymienić również współpracowników partnerów w poszczególnych grupach (*imię i nazwisko, stopień/tytuł naukowy, charakter udziału w projekcie).***

Polski Partner Instytucjonalny
Instytut Fizyki, Polskiej Akademii Nauk, Warszawa
Al. Lotników 32/46
02-668 Warszawa
Poland
Polski koordynator – Dr. Izabela Kudelska
Instytut Fizyki Polskiej Akademii Nauk
Tel. +48 22 8435626, e-mail:kuryl@ifpan.edu.pl
Charakter udziału – koordynator projektu, koordynator strony polskiej, wykonanie pomiarów własności magnetycznych
Współpracownicy polskiej strony: - Dr. Natalia Nedelko
Instytut Fizyki Polskiej Akademii Nauk
Tel. +48 22 8430926, e-mail:natal@ifpan.edu.pl
Charakter udziału – wykonanie części pomiarów własności magnetycznych

Serbski Partner Instytucjonalny
Institute of Physics, Belgrade University
P.O. Box 68
Pregrevica 118, Zemun
Belgrade, Serbia
Serbski koordynator – Dr. Zorica Lazarević
Institute of Physics, Belgrade University
Tel. +381113713035, e-mail: lzorica@ipb.ac.rs
Charakter udziału – koordynator strony serbskiej, wykonanie próbek, charakteryzacja strukturalna próbek,
Współpracownicy serbskiej strony: - Dr. Nebojša Romčević
Institute of Physics, Belgrade University

Tel. +381113713026
Charakter udziału – pomiary metodami spektroskopii Ramana, badania optyczne w obszarze podczerwieni

2. Cele nawiązywanej/kontynuowanej współpracy międzynarodowej.

Celem projektu będzie wytworzenie i zbadanie właściwości fizycznych (strukturalnych, magnetycznych, wibracyjnych) nanoskopowych spineli ferrytowych MFe_2O_4 (M=Mn, Ni, Zn, Mg).

3. Podział zadań między partnerów projektu (*harmonogram*), charakter wsparcia i zaangażowania instytucji partnerskich oraz informacje dotyczące udostępnianej infrastruktury.

Formy współpracy:
- wspólne eksperymenty w laboratoriach obu instytutów badawczych
- wymiana próbek i materiałów
- wymiana wizyt naukowców w obu instytutach
- wspólne publikacje, wystapienia konferencyjne

Podział zadań w ramach projektu:

- wytworzenie próbek, pomiary własności strukturalnych, wibracyjnych próbek (Institute of Physics, Belgrade University)
- zbadanie własności magnetycznych (Instytut Fizyki PAN, Warszawa);
- rozpowszechnianie wyników badań – publikacje, komunikaty konferencyjne, prezentacje konferencyjne (Instytut Fizyki PAN, Warszawa; Institute of Physics Belgrade University).

Zadania będą powiązane ze sobą i wykonywane od początku realizacji projektu.

Pieczęć instytucji polskiej
INSTYTUT FIZYKI
POLSKIEJ AKADEMII NAUK
02-668 Warszawa
Al. Lotników 32/46
tel.:(022) 843 70 01 fax:(022) 843 09 26
Osoba(y) uprawniona(e) do reprezentacji instytucji polskiej
DYREKTOR
Prof. dr hab. Leszek Sirko
podpis i pieczęć

Pieczęć instytucji zagranicznej
Osoba(y) uprawniona(e) do reprezentacji instytucji zagranicznej
podpis i pieczęć

Kierownik Projektu
podpis

Partner zagraniczny
podpis

NARODOWE CENTRUM NAUKI

Belgrade , date. 09/03/2011 r.
place

Cooperative frameworks between institutional partners within the scope and realisation of the research project.

concluded between

.Institute of Physics, Polish Academy of Sciences
name of Polish institution

and

Institute of Physics, Belgrade University
name of foreign institution

1. **The defining of partners for each of the parties *(name and surname, academic degrees and titles, name of unit or institution, country, telephone, email)* listed equally are those cooperating with the partners in the individual groups (*name and surname, academic degree and title, nature of project participation*).**

Polish Institution
Institute of Physics, Polish Academy of Sciences, Warszawa
Al. Lotników 32/46
02-668 Warszawa
Poland
Polish coordinator – Dr. Izabela Kudelska
Instytut Fizyki Polskiej Akademii Nauk
Tel. +48 22 8435626, e-mail:kuryl@ifpan.edu.pl
Nature of project participation – coordinator of the project, coordinator of polish side, performing of magnetic measurements
Participant: - Dr. Natalia Nedelko
Institute of Physics, Polish Academy of Sciences
Tel. +48 22 8430926, e-mail:natal@ifpan.edu.pl
Nature of project participation – performing of magnetic measurements

Serbian Institution
Institute of Physics, Belgrade University
P.O. Box 68
Pregrevica 118, Zemun
Belgrade, Serbia
Serbian coordinator – Dr. Zorica Lazarević
Institute of Physics, Belgrade University
Tel. +381113713035, e-mail: lzorica@ipb.ac.rs
Nature of project participation – coordinator of Serbian side, preparation of the nanoscopic spinel ferrites samples, structural investigations
Participant: - Dr. Nebojša Romčević
Institute of Physics, Belgrade University
Tel. +381113713026
Nature of project participation – Raman spectroscopy characterization, infrared (IR) measurements

2. The aims for concluding/continuing international cooperation.

The project will focus on preparation, experimental studies (structural, vibrational, magnetic characterization) of spinel-type ferrite nanoparticles MFe_2O_4 (M=Mn, Ni, Zn, Mg). The stress will be put on the fabrication and investigations of ferromagnetic and superparamagnetic samples.

3. Task division between the project partners (schedule), the nature of support and involvement of partner institutions as well as the information on the infrastructure to be made available.

Forms of cooperations:

- joint experiments in laboratories of both institut
- exchange of scientific visits
- join publications, conference presentations

For the task management the project is composed of workpackages:

- fabrication of nano ferrites samples, structural, vibrational characterization (Institute of Physics, Belgrade University);
- magnetic properties studies (Institue of Physics PAS, Warsaw);
- dissemination - articles in the international journals, conferences and workshops (Institue of Physics PAS, Warsaw; Institute of Physics Belgrade University).

Workpackages will start from the beginning, run and interrelate during all the project time.

Polish institution
official stamp of institution
INSTYTUT FIZYKI
POLSKIEJ AKADEMII NAUK
02-668 Warszawa
Al. Lotników 32/46
tel.:(022) 843 70 01 fax:(022) 843 09 26

Individual(s) authorised to represent the entity

DIRECTOR

Professor Leszek Sirko

signature and stamp

Foreign institution
official stamp of institution

ИНСТИТУТ ЗА ФИЗИКУ

Individual(s) authorised to represent the entity

signature and stamp

Principal Investigator

signature

Foreign Partner

signature

UNIVERZITET U BEOGRADU
INSTITUT ZA FIZIKU BEOGRAD
Pregrevica 118, 11080 Zemun – Beograd, Srbija
Tel: +381 11 3713000, Fax: +381 11 3162190, www.ipb.ac.rs
PIB/VAT: 100105980, Matični broj: 07018029, Tekući račun: 205-66984-23

Belgrade, 04/11/2016

Cooperative frameworks between institutional partners within the scope and realisation of the research project

concluded between

Institute of Physics, Belgrade University, Belgrade

and

Institute of Physics, Polish Academy of Sciences, Warszawa

1. The defining of partners for each of the parties (name and surname, academic degrees and titles, name of institution, country, telephone, email) listed equally are those cooperating the partners in the individual groups (name and surname, academic degree and title, nature of project participation).

Serbian Institution

Institute of Physics, Belgrade University

P.O. Box 68

Pregrevica 118, Zemun

Belgrade, Serbia

Serbian coordinator - Dr Zorica Lazarević

Institute of Physics, Belgrade University

Tel. +381 11 3713035, e-mail: lzorica@ipb.ac.rs

Nature of project participation - coordinator of Serbian side of the project, preparation of the nanosized ferrite samples, structural investigations, Raman spectroscopy characterization, IR measurements

Participant: - Dr Nebojša Romčević

Institute of Physics, Belgrade University

Tel. +381 11 3713026, e-mail: romcevi@ipb.ac.rs

Nature of project participation - Raman spectroscopy characterization, IR measurements

UNIVERZITET U BEOGRADU
INSTITUT ZA FIZIKU BEOGRAD
Pregrevica 118, 11080 Zemun – Beograd, Srbija
Tel: +381 11 3713000, Fax: +381 11 3162190, www.ipb.ac.rs
PIB/VAT: 100105980, Matični broj: 07018029, Tekući račun: 205-66984-23

Polish Institution

Institute of Physics, Polish Academy of Sciences, Warszawa

Al. Lotników 32/46

02-668 Warszawa

Poland

Polish coordinator - Dr Izabela Kudelska

Institute of Physics, Polish Academy of Sciences, Warszawa

Tel. +48 22 8435626, e-mail: kuryl@ifpan.edu.pl

Nature of project participation - coordinator of Polish side of the project, coordinator performing of magnetic measurements

Participant: - Dr Monika Arciszewska

Institute of Physics, Polish Academy of Sciences, Warszawa

Tel. +48 22 8435626, e-mail: arcis@ifpan.edu.pl

Nature of project participation - performing of magnetic measurements

2. The aims for concluding/continuing international cooperation.

The project will focus on prepartiopn, experimental studie (structural, vibrational, magnetic characterization) of diferrent type magnetic materials, as spinel-ferrite nanoparticles MFe_2O_4 (M = Mn, Ni, Zn, Mg), yttrium ortho-ferrite ($YFeO_3$), $LiFePO_4$. The stress will be put on the fabrication and investigations of ferromagnetic and superparamagnetic samples.

3. Task division between the project partners (schedule), the nature of support and involvement of partner institutions as the information on infrastructure to be made available.

Forms of cooparations:

- joint experiments in laboratories of both institut
- exchange of scientific visits
- join publications, conference presentations

For the task management the project is composed of workpackages:

UNIVERZITET U BEOGRADU
INSTITUT ZA FIZIKU BEOGRAD
Pregrevica 118, 11080 Zemun – Beograd, Srbija
Tel: +381 11 3713000, Fax: +381 11 3162190, www.ipb.ac.rs
PIB/VAT: 100105980, Matični broj: 07018029, Tekući račun: 205-66984-23

- fabrication of nanosized ferrites samples, structural, vibrational characterization (Institute of Physics Belgrade);

- magnetic properties studies (Institute of Physics, PAS, Warszawa);

- dissemination - articles in the international journals, conferences and workshops (Institute of Physics Belgrade; Institute of Physics, PAS, Warszawa).

Workpackages will start from the beginning, run and interrelate all the project time.

Institute of Physics Belgrade

(official stamp of institution)

Individual(s) authorized to represent the entity

(signature and stamp)

Principal Investigator

(signature)

Institute of Physics, PAS, Warszawa

(official stamp of institution)
INSTITUTE OF PHYSICS
POLISH ACADEMY OF SCIENCES
Aleja Lotników 32/46
02-668 Warsaw, Poland

Individual(s) authorized to represent the entity

Director
The Institute of Physics, PAS
Professor Roman Puźniak

(signature and stamp)

Foreign Partner

(signature)

Прилози уз одељак 5.
тачка 5

АКТИВНОСТ У НАУЧНИМ И НАУЧНО-СТРУЧНИМ ДРУШТВИМА И ОСТАЛИ ПОКАЗАТЕЉИ УСПЕХА У НАУЧНОМ

1. Докази о учешћу у научним, организационим и програмским одборима конференција
2. Рецензије часописа: неке од електронских порука и захвалница
3. Позивна писма за предавања

Belgrade, 10. 10. 2017.

P O T V R D A

Ovim se potvrđuje da je **Dr. Zorica Lazarević,** viši naučni saradnik Instituta za fiziku, Univerziteta u Beogradu, član Srpskog keramičkog društva od 2012.godine i predsednik sekcije Optički keramički materijali i stakla od 2014. godine. U cilju unapredjenja i podizanja kvaliteta istraživanja u oblasti savremenih optički aktivnih keramičkih materijala, kao i formiranja mladjeg naučnog kadra, dr Zorica Lazarević je aktivno učestvovala u radu naučnog odbora SKD, kao i naučnog i organizacionog komiteta medjunarodne konferencije Advanced Ceramic Materials and Application koju ovo društvo organizuje od 2012.godine.

Potvrda se izdaje na lični zahtev zaposlenog radi izbora u zvanje naučni savetnik.

Srdačan pozdrav,

Prof. Dr. Vojislav Mitić
Predsednik
Srpkog Keramičkog Društva

Srpsko Keramičko Društvo Serbian Ceramic Society

Fransa d'Eperea 86 Tel: +381 11 2027203 E-mail: nina.obradovic@itn.sanu.ac.rs

Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION

Serbian Ceramic Society
Institute of Technical Sciences of SASA

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
May 10-11th, 2012, Belgrade, Serbia

Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION

Organized by
Serbian Ceramic Society
&
Institute of Technical Sciences of SASA

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
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Prof. Dr. Vojislav Mitić
Dr. Nina Obradović
Dr. Lidija Mančić

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SERBIAN Ceramic Society. Conference (1 ; 2012 ; Beograd)
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COBISS.SR-ID 190546188

Dear Colleagues and friends,

We have great pleasure to welcome you to the Advanced Ceramic and Application Conference organized by the Serbian Ceramic Society in cooperation with the Institute of Technical Sciences of SASA.

This conference brings together researchers from academia and industry to present the latest advances in synthesis and characterization in the field on new ceramic structures. Chosen conference topics open the new frontiers in designing of advanced ceramic materials, since they cover fundamental theoretical research, modeling and simulation, controlled nanostructured materials synthesis and optimization of the consolidation process, which all together should provide device miniaturization and better perspective in energy-materials-information integration process.

General conference topics include:

- Basic Ceramic Science
- Multifunctional Ceramics
- Nanostructural Ceramics
- Bio- and Opto- Ceramics
- Constructive and Eco- Ceramics
- Magnetic and Amorphous Materials
- Composite Materials, Catalysis and Electrocatalysis
- Artistic Ceramic and Design

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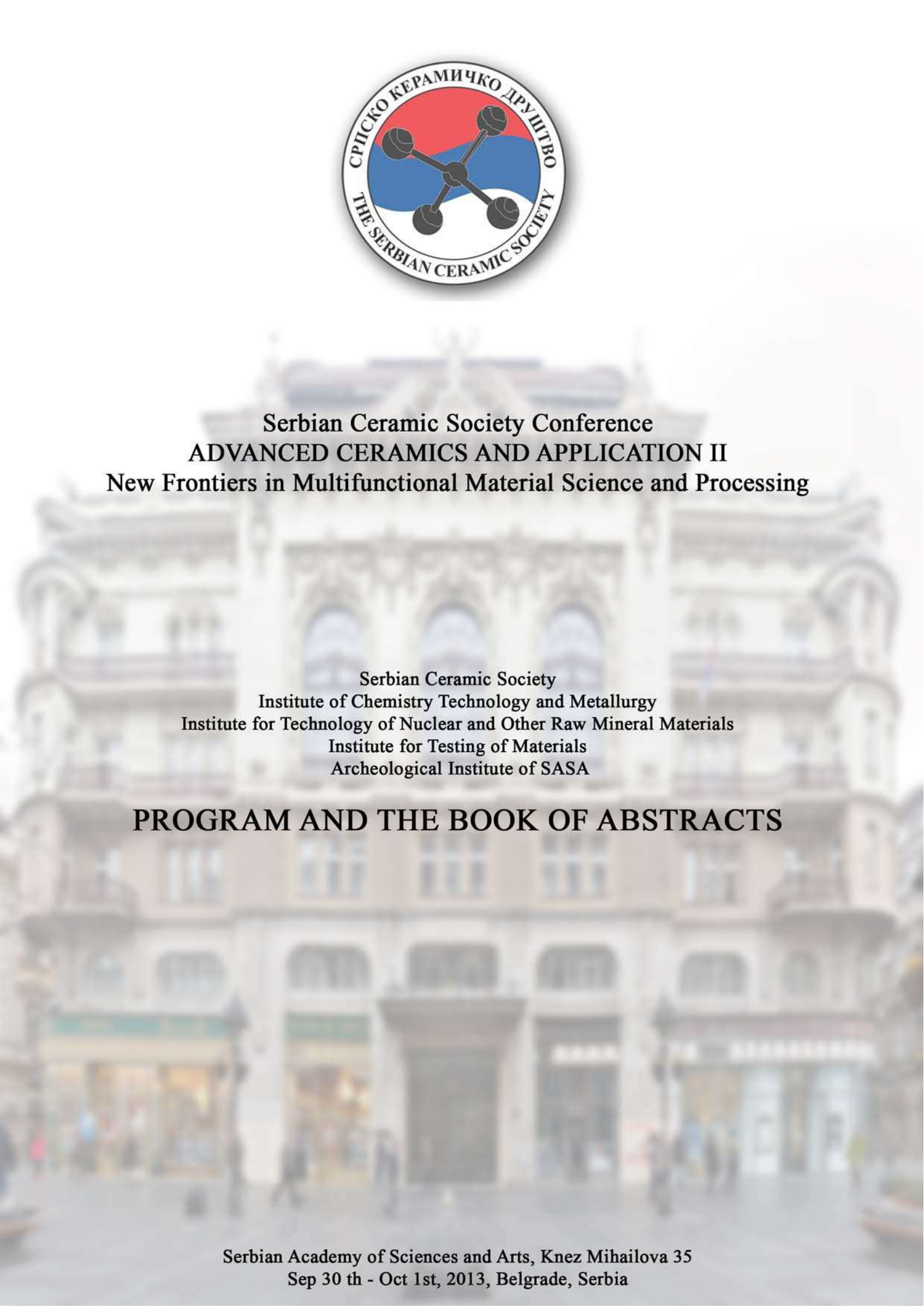
Acknowledgement

The Conference Organizers are grateful to the Ministry of Education and Science of the Republic of Serbia for the financial support, and to the Institute of Technical Sciences of SASA, Serbian Academy of Sciences and Arts, PTT Communications "Srbija", "Dunav" Insurance Co. and Nissal Co. for the conference support.

Prof. Dr. Vojislav Mitić, President
Serbian Ceramic Society
World Academy Ceramics' Member



Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION II
New Frontiers in Multifunctional Material Science and Processing

Serbian Ceramic Society
Institute of Chemistry Technology and Metallurgy
Institute for Technology of Nuclear and Other Raw Mineral Materials
Institute for Testing of Materials
Archeological Institute of SASA

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
Sep 30 th - Oct 1st, 2013, Belgrade, Serbia

Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION II
New Frontiers in Multifunctional Material Science and Processing

Serbian Ceramic Society
Institute of Chemistry Technology and Metallurgy
Institute for Technology of Nuclear and Other Raw Mineral Materials
Institute for Testing of Materials
Archeological Institute of SASA

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
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Dr Nina Obradovic
Dr Lidija Mančić

Technical Editor:
Dr Lidija Mačić

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c) Наноматеријали - Апстракти
COBISS.SR-ID 201203212

Conference program

Dear Colleagues, dear friends, we have great pleasure to welcome you to the Advanced Ceramic and Application Conference II organized by the Serbian Ceramic Society in cooperation with the Institute of Chemistry Technology and Metallurgy, Institute for Technology of Nuclear and Other Raw Mineral Materials, Institute for Testing of Materials and Archeological Institute of SASA. This conference brings together researchers from academia and industry to present the latest advances in synthesis and characterization in the field on new ceramic structures. The chosen Conference topics opening the new frontiers in designing of advanced ceramic materials since they cover fundamental theoretical research, modeling and simulation, controlled nanostructured materials synthesis and optimization of the consolidation process, which all together should provide practical realization of the new ideas towards device miniaturization, energy-materials-information integration and preservation of cultural heritage.

Prof. Dr Vojislav Mitić
President of the Serbian Ceramic Society
World Academy Ceramics Member

General Conference topics included:

- Basic Ceramics Science
- Nano-, Bio- and Opto-ceramic Nanotechnologies
- Multifunctional Materials
- Magnetic and Amorphous Materials
- Construction and Eco-ceramic
- Composites, Catalysis, Electro-catalysis
- Artistic Ceramic and Design, Archeological Heritage
- Young Researchers
- **Sintering processes**
  - kinetics
  - thermodinamics
  - microstructure
  - modeling

Acknowledgement The Conference Organizers are grateful to the Ministry of Education and Science of the Republic of Serbia for financial support, as well as to the Serbian Academy of Sciences and Arts, Institute of Technical Sciences of SASA, Institute for Balkan Studies of SASA and Academy of SOC for Fine Arts and Conservation. We are also grateful to the PTT Communication, EPS, Dunav Insurance, Nissal Co, Akademska štampa and others who support the conference.

Serbian Ceramic Society Conference

ADVANCED CERAMICS AND APPLICATION III

New Frontiers in Multifunctional Material Science and Processing

Serbian Ceramic Society
Institute of Technical Sciences of SASA
Institute of Chemistry Technology and Metallurgy
Institute of Physics
Institute for Technology of Nuclear and Other Raw Mineral Materials
Institute for Testing of Materials
Archeological Institute of SASA

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
Serbia, Belgrade, 29th September-1st October, 2014.

Serbian Ceramic Society Conference

ADVANCED CERAMICS AND APPLICATION III

New Frontiers in Multifunctional Material Science and Processing

Serbian Ceramic Society
Institute of Technical Sciences of SASA
Institute of Chemistry Technology and Metallurgy
Institute of Physics
Institute for Technology of Nuclear and Other Raw Mineral Materials
Institute for Testing of Materials
Archeological Institute of SASA

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
Sep 29th - Oct 1st, 2014, Belgrade, Serbia

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Prof.dr Vojislav Mitić
Prof. dr Olivera Milošević
Dr Nina Obradovic
Dr Lidija Mančić

Technical Editor:
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SERBIAN Ceramic Society. Conference (3 ; 2014 ; Beograd)
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c) Наноматеријали - Апстракти
COBISS.SR-ID 201203212

Dear Colleagues, Dear Friends,

We have great pleasure to welcome you to the Advanced Ceramic and Application Conference III organized by the Serbian Ceramic Society in cooperation with the Institute of Technical Sciences of SASA, Institute of Chemistry Technology and Metallurgy, Institute of Physics, Institute for Technology of Nuclear and Other Raw Mineral Materials, Institute for Testing of Materials and Archeological Institute of SASA,

Advanced Ceramics play an important role in the European Union's prioritized materials to enable the transition towards to a knowledge-based low carbon, cost competitive and efficient societies. The chosen Conference topics open the new frontiers in designing of advanced ceramic materials since they cover fundamental theoretical research, modeling and simulation, controlled nanostructured materials synthesis and optimization of the consolidation process, which all together should provide practical realization of the new ideas towards device miniaturization, energy-materials-information integration and preservation of cultural heritage. This ACA III Conference gathers the researchers, engineers, academy staff and PhD students trying to emphasize the key advanced materials research, processing, characterization and innovation activities.

Serbian Ceramic Society has been initiated in 1995/1996 and fully registered in 1997 as Yugoslav Ceramic Society, being strongly supported by American Ceramic Society. Since 2009., continued as Serbian Ceramic Society in accordance to the Serbian law procedure. Serbian Ceramic Society is almost the only one Ceramic Society in the South-East Europe, with members from more than 20 Institutes and Universities, active in 16 sessions, by program and the frames which are defined by the American Ceramic Society activities.

Prof. Dr Vojislav Mitić
President of the Serbian Ceramic Society
World Academy Ceramics Member
European Academy of Sciences&Arts Member

Prof. Dr Olivera Milošević,
President of the General Assembly of the
Serbian Ceramic Society
Academy of Engineering Sciences of Serbia Member

General Conference Topics

- Basic Ceramics Science
- Nanostructural, Bio- and Opto-ceramic
- Materials and Nanotechnologies
- Multifunctional Materials
- Magnetic and Amorphous Materials
- Construction Materials and Eco-ceramics
- Composite Materials, Catalysis and Electrocatalysis
- Artistic Ceramics and Design, Archaeology and Heritage
- Young Researchers
- Sintering processes
  -kinetics
  -microstructure
  -thermodinamics
  -modeling

Conference Co-chairmen:

Prof. Dr. Vojislav Mitić SRB
Prof. Dr. Olivera Milošević SRB
Prof. Dr. Marcel Van de Voorde EU
Prof. Dr. Rainer Gadow GER

Scientific Committee

Academician Momčilo M. Ristić
Prof. Dr. Vojislav Mitić
Prof. Dr. Marcel Van de Voorde
Prof. Dr. Gary Messing
Prof. Dr. David Johnson
Prof. Dr. Slavcho Rakovsky
Prof. Dr. Jurgen G. Heinrich
Prof. Dr. Masohiro Yoshimura
Dr. Mrityunjay "Jay" Singh
Prof. Dr. Rainer Gadow
Dr. Tatsuki Ohji
Dr. Hua-Tay Lin
Prof. Dr. Paolo Colombo
Prof. Dr. Lennart Bergstrom
Prof. Anne Leriche
Prof. Dr. Pavol Šajgalik
Dr. Richard Todd
Dr. Francis Cambier
Dr. Moritz von Witzleben
Dr. Hasan Mandal
Prof. Dr. Hans Fecht
Prof. Dr. Eugene Olevsky
Dr. Eugene Medvedovski
Prof. Dr. Mikolaj Szafran
Dr. Karsten Agersted Nielsen
Dr. Robert Danzer
Dr. Carmen Baudin
Dr. Dušan Jovanović
Prof. Dr. Vladimir Pavlović
Dr. Nina Obradović
Dr. Lidija Mančić
Prof. Dr. Steven Tidrow
Prof. Dr. Carol Handwerker
Prof. Dr. John Blendal
Dr. Wilhelm Siemen
Prof. Dr. Adrian Volceanov
Dr. Lukasz Kilanski
Dr. Dragan Damjanović
Dr. Jonjaua Ranogajec
Dr. Snežana Pašalić
Prof. Dr. Zoran Nikolić
Dr. Zagorka Radojević
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Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION IV
New Frontiers in Multifunctional Material Science and Processing

Serbian Ceramic Society
Institute for Testing of Materials
Institute of Chemistry Technology and Metallurgy
Institute for Technology of Nuclear and Other Raw Mineral Materials
School of Electrical Engineering and Computer Science of Applied Studies

PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
Serbia, Belgrade, 21-23. September 2015

Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION IV
New Frontiers in Multifunctional Material Science and Processing

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Dear Colleagues, Dear Friends,

We have great pleasure to welcome you to the Advanced Ceramic and Application Conference IV organized by the Serbian Ceramic Society in cooperation with the Institute for Testing of Materials, Institute of Chemistry Technology and Metallurgy, Institute for Technology of Nuclear and Other Raw Mineral Materials, Institute for Technical Sciences SASA and School of Electrical Engineering and Computer Science of Applied Studies.

Advanced Ceramics play an important role in the European Union's prioritized materials to enable the transition towards to a knowledge-based efficient societies. The chosen Conference topics cover fundamental theoretical research in advanced ceramics, modeling and simulation of technological processes, controlled synthesis of nanomaterials, developing of new composite and hybrid structures which should provide practical realization of the new ideas and brings new quality in everyday life. ACA IV Conference gathers the researchers, engineers, academy staff, artist, specialist and PhD students trying to emphasizes the key innovation activities toward developing the next generation of advanced ceramics products for industry of high-technology, renewable energy sources, environmental efficiency, security, space technology, cultural heritage, prosthesis, etc.

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General Conference Topics

- Basic Ceramics Science
- Nanostructural, Bio- and Opto-Ceramic Materials and Technologies
- Multifunctional Materials
- Magnetic and Amorphous Materials
- Construction Materials and Eco-ceramics
- Composite Materials, Catalysis and Electrocatalysis
- Artistic Ceramics and Design, Archaeology and Heritage
- Young Researchers
- Sintering processes
  -kinetics
  -microstructure
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ADVANCED CERAMICS AND APPLICATION V
New Frontiers in Multifunctional Material Science and Processing

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Institute for Testing of Materials
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PROGRAM AND THE BOOK OF ABSTRACTS

Serbian Academy of Sciences and Arts, Knez Mihailova 35
Serbia, Belgrade, 21st-23rd September 2016.

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ADVANCED CERAMICS AND APPLICATION V
New Frontiers in Multifunctional Material Science and Processing

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Dear Colleagues,

We have great pleasure to welcome you to the Advanced Ceramic and Application Conference V organized by the Serbian Ceramic Society in cooperation with the Institute for Testing of Materials, Institute of Technical Sciences of SASA, Institute of Chemistry Technology and Metallurgy, Institute for Technology of Nuclear and Other Raw Mineral Materials and School of Electrical Engineering and Computer Science of Applied Studies.

Advanced Ceramics today include many old-known ceramic materials produced through newly available processing techniques as well as broad range of the innovative compounds and composites, particularly with plastics and metals. Such developed new materials with improved performances already bring a new quality in the everyday life. The chosen Conference topics cover contributions from a fundamental theoretical research in advanced ceramics, computer-aided design and modeling of a new ceramics products, manufacturing of nanoceramic devices, developing of multifunctional ceramic processing routes, etc. Traditionally, ACA Conferences gather leading researchers, engineers, specialist, professors and PhD students trying to emphasizes the key achievements which will enable the wide speared use of the advanced ceramics products in High-Tech industry, renewable energy utilization, environmental efficiency, security, space technology, cultural heritage, prosthesis, etc.

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Advanced Ceramic & Application Conference V is dedicated to Academician Momčilo Ristić.

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General Conference Topics

- Basic Ceramics Science
- Nanostructural, Bio- and Opto-Ceramic Materials and Technologies
- Multifunctional Materials
- Magnetic and Amorphous Materials
- Construction Materials and Eco-ceramics
- Composite Materials, Catalysis and Electrocatalysis
- Artistic Ceramics and Design, Archaeology and Heritage
- Young Researchers
- Sintering processes
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  -microstructure
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Serbian Ceramic Society Conference
ADVANCED CERAMICS AND APPLICATION VI
New Frontiers in Multifunctional Material Science and Processing

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Institute of Chemistry Technology and Metallurgy
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Serbian Academy of Sciences and Arts, Knez Mihailova 35
Serbia, Belgrade, 18-20. September 2017.

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New Frontiers in Multifunctional Material Science and Processing

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Dear Colleagues,

We have great pleasure to welcome you to the Advanced Ceramic and Application Conference VI organized by the Serbian Ceramic Society in cooperation with the Institute for Testing of Materials, Institute of Technical Sciences of SASA, Institute of Chemistry Technology and Metallurgy and Institute for Technology of Nuclear and Other Raw Mineral Materials.

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For the first time Advanced Ceramic and Application Conference hosting delegations from Republics of Ghana, Nigeria, Niger and Cameroon with the idea to connect, share and provide positive influence to the scientific and industrial communities all around world.

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Conference Topics

- Basic Science & Sintering of Ceramics
- Nano, Bio- & Opto Ceramic
- Electro & Multifunctional Ceramics
- Magnetic, Catalytic & Composite Materials
- Renewable Energy, Heritage & Archeology
- Industrial Talks

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Wiesław Stręk <ees.jalcom.f1a3.36c6a2.6ce02b6d@eesmail.elsevier.com>
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lzorica@yahoo.com lzorica@ipb.ac.rs
01/21/16 at 12:39 PM
Ms. Ref. No.: JALCOM-D-[redacted]
Title: [redacted]
Journal of Alloys and Compounds

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To lzorica@ipb.ac.rs

Date Wed 13:27

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To lzorica@ipb.ac.rs

Date 20 Aug 2015 16:04

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Title: [redacted]
Journal of Alloys and Compounds

Dear Dr Lazarevic,

The paper "[redacted]". The abstract is shown below.

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ABSTRACT:
La+3 substitution based piezoelectric material, (Pb0.92La0.08)(Zr0.60Ti0.40)O3 also known as PLZT 8/60/40, was prepared by high energy mechano-chemical ball milling. Highly reactive nature of the nano size (~15-40 nm) milled PLZT powders enable the partial perovskite phase (confirmed by X-ray diffraction) at room temperature itself. Compaction of these fine scale nano powders by the cold isostatic pressing technique which leads to a higher density > 98% with a close packed dense microstructure that can be seen in SEM images for sintered ceramics. Dielectric measurements for the electrically poled PLZT 8/60/40 ceramics suggest that the lanthanum substitution affects the nature of ferroelectric phase transition of PZT showing a deviation from normal to the diffuse type phase transition (DPT). The parameters of this DPT, such as degree of deviation from Curie-Weiss law (<DELTA>Tm), diffuseness empirical parameters <gamma> and <DELTA>Tdiff were calculated at various frequencies from 1 kHz to 500 kHz. The large value of <gamma> (1<<gamma><2) and <DELTA>Tdiff at said frequencies confirms the deviation from normal phase transition and the high degree of disorderliness in the material. To support this study, polarization vs. electric field and electromechanical coupling factor (kp) measurements were also performed on PLZT 8/60/40 ceramics within the temperature range of 30oC to 170oC and 30oC to 210oC respectively. The effect of temperature on the ferroelectric properties was also studied.

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Jean-Marc Greneche <ees.jalcom.62f0.33b2da.31ec27ff@eesmail.elsevier.com>
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Nov 30 at 4:47 PM
Ms. Ref. No.: CORSCI-D-[redacted]
Title: [redacted]
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Editor-in-Chief
Corrosion Science

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ABSTRACT:
Al2O3/Mo5Si3 and Al2O3/Mo5Si3-Cu composites were successfully synthesized via a ball-milled mixture of MoO3, Mo, Si and Al powders and consolidated by hot pressing. The microstructure and oxidation properties of the composites were investigated. Results show that Al2O3/Mo5Si3 and Al2O3/Mo5Si3-Cu composite powders were obtained after 10 h of milling. At 600 ℃, the addition of Al2O3 and Cu in the Mo5Si3 could effectively restrain its pest oxidation. At 1200 ℃, the corresponding oxidation rate constants of the composites are almost an order of magnitude lower than the Mo5Si3 alloy. The composites have better oxidation resistance than the Mo5Si3 alloy.

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Subject **Re: decision**
From Acta Physica Polonica A
To Zorica Lazarevic
Date Tue 13:14

Dear Zorica,

Thank you very much for your time and comments !

Best regards,

Witold Dobrowolski

----- Original Message ----- From: "Zorica Lazarevic" <lzorica@ipb.ac.rs>
To: <appol@ifpan.edu.pl>
Sent: Tuesday, December 08, 2015 1:01 PM
Subject: decision

Dear Professor Daniel,
I have been sending in attachment -
the proposal and decision of acceptance of the paper entitled:
,,Infrared Active Phonons and Optical Band Gap in Multiferroic GdMnO3
Studied by Infrared and UV-Visible Spectroscopy,,
by Syed Hamad Bukhari, Javed Ahmad
for publication in Acta Physica Polonica A.
Best regards
Zorica Lazarevic.

Dear Zorica,

Its a long time since we have contacted last time. I have more and more work. And I guess the same is your situation. But we have to find time to
see each other from time to time.

Im looking for the person who could review the paper:

Infrared Active Phonons and Optical Band Gap in Multiferroic GdMnO3
Studied by Infrared and UV-Visible Spectroscopy
Syed Hamad Bukhari, Javed Ahmad

Will you help me to find reviewer? Maybe one of your coworker?

Best regards,

Daniel

Witold Daniel Dobrowolski
Acta Physica Polonica A
Institute of Physics
Polish Academy of Sciences
Al Lotnikow 32/46
02-668 Warszawa, Poland

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07/17/13 at 6:26 PM
17-Jul-2013

Journal: Industrial & Engineering Chemistry Research
Manuscript ID : [redacted]
Title : "[redacted]"
Author(s): [redacted]

Dear Dr. Lazarevic:

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Sincerely,

Prof. Jim Yang Lee
Associate Editor
Industrial & Engineering Chemistry Research
Phone: 202-697-9005
Fax: 202-354-4713
Email: lee-office@iecr.acs.org
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Patrick Desjardins <tsf@polymtl.ca>
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lzorica@ipb.ac.rs lzorica@yahoo.com
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Title: [redacted]
submitted to Thin Solid Films

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> > To: lzorica@yahoo.com
> > Date: Thursday, November 8, 2012, 2:11 AM
> >
> > Ms.Ref.No. [redacted] November 8,2012.
> >
> > Title: [redacted]
> >
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> >
> > The above mentioned manuscript has been submitted for publication in
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> > evaluate it prior to publication and, if so, we would be most
> > grateful to
> > receive your opinions within the next 2 weeks, by November 23.
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> > I would like to thank you in advance for any assistance you can
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> > this matter. If you want to be sent an acknowledgement of receipt of
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> > report could you please request one specifically when you replay.
> >
> > Yours sincerely,
> >
> > Prof. Dr. Miroslav Dramicanin
> > ICOM 2012 Chairperson
> > Director of "Gamma" Laboratory
> > e-mail: gamma@vinca.rs [1]
> >

Thank you for reviewing for Journal of Raman Spectroscopy

- **philippe.colomban@glvt-cnrs.fr**

-
- 04/15/15 at 11:22 AM

To

- lzorica@yahoo.com

Message body
15-Apr-2015

Dear Dr. Lazarevic

Thank you for reviewing the manuscript JRS-[redacted]. Your time and effort is greatly appreciated by the journal editors and by the authors.

Yours sincerely

Journal of Raman Spectroscopy

Our ref. Number: Inv-02
Belgrade, 16 July 2013

Dr Zorica Lazarević
Institute of Physics
University of Belgrade
Pregrevica 118
Zemun
Belgrade
Serbia

Dear Dr. Zorica Lazarević

On behalf of the Organizing Committee of the Advanced Ceramics and Application - II Conference organized by Serbian Ceramic Society it is our great pleasure to confirm Your participation as an

INVITED LECTURER

at the Advanced Ceramics and Application – II conference which will be held in Belgrade, Sept 30-Okt 01, 2013.

Kind regards,

Prof. Dr. Vojislav Mitić
Conference chairperson
President of Serbian Ceramic Society

CERTIFICATE

We have honor to certify that

Zorica Lazarevic

has been invited lecturer at the
Advanced Ceramic and Application Conference II

President

СРПСКО КЕРАМИЧКО ДРУШТВО
THE SERBIAN CERAMIC SOCIETY

Belgrade,
30 Sept - 01 Oct 2013.

Serbian Ceramic Society

INV2

New approach and comparative studies of structura; and electrical properties of nano spinel ferrites prepared by soft mechanochemical synthesis

Z. Ž. Lazarević[1], D. Sekulić[2], Č. Jovalekić[3],
M. Romčević[1], A. Milutinović[1], N. Ž. Romčević[1]

[1]Institute of Physics, University of Belgrade, Pregrevica 118, Zemun, Belgrade, Serbia
[2]Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia
[3]The Institute for Multidisciplinary Research, University of Belgrade, Belgrade, Serbia

Ferrites are very attractive materials for technological applications due to their combined properties as magnetic conductors (ferrimagnetic) and electric insulators. Spinel ferrites, by virtue of their structure, can accommodate a verity of cations at different sites enabling a wide variation in electrical and magnetic properties. Spinel ferrites MFe$_2$O$_4$ (M=Mn, Ni, Zn) were obtained by soft mechanochemical synthesis in a planetary ball mill. The appropriate mixture of oxides and hydroxides were used as initial compounds. This mixture was mechanically activated, uniaxial pressed and sintered at 1100°C/2h. The phase composition of the sintered samples was analyzed by XRD, Raman and IR spectroscopy. Morphologies were examined by SEM. In this study, DC-resistivity was measured as a function of temperature from 298-473 K and activation energy of sintered samples was determined. The AC-conductivity measurements in the same temperature range were carried out in the frequency range 100Hz-1MHz. The electrical conductivities show an increase with increasing temperature indicating the semiconducting behavior of the studied ferrites. The conduction phenomenon of the investigated samples has been explained on the basis of hopping model. Analysis of the complex impedance spectra has been used to study the effect of grain and grain boundary on the electrical properties of ferrites.


CERTIFICATE
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THE SERBIAN CERAMIC SOCIETY
President
Belgrade
September 21-23, 2015
Serbian Ceramic Society

INV1

Electrical and Dielectric Characterization of $Zn_xNi_{1-x}Fe_2O_4$ Ferrite Ceramics Prepared by Sintering of Nanopowders

Dalibor L. Sekulić[1], Z. Ž. Lazarević[2], Č. Jovalekić[3], N. Ž. Romčević[2]
[1]*Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia*
[2]*Institute of Physics, University of Belgrade, Belgrade, Serbia*
[3]*The Institute for Multidisciplinary Research, University of Belgrade, Serbia*

Nanostructured $Zn_xNi_{1-x}Fe_2O_4$ (x= 0.0, 0.5 and 1) ferrite ceramics were successfully prepared by a conventional sintering of nanosized powders (10–25 nm), synthesized by soft mechanochemical treatment of high–purity Ni(II), Zn(II) and Fe(III) hydroxides as precursors. Electrical properties, such as DC resistivity as a function of temperature and AC conductivity as a function of frequency and temperature, were examined. The variation of DC resistivity with temperature well obeys the Arrhenius law, indicating semiconductor–like behavior of the prepared ferrites. The drift mobility was estimated from the DC resistivity data and found to increase with increasing temperature from ambient to 200°C. The experimental results reveal that AC electrical conductivity of all three samples increases with increasing frequency of the applied field from 100 Hz to 10 MHz. Analysis of the AC conductivity data by means of Jonscher's universal power law shows that correlated barrier hopping mechanism is the most probable mechanism of electrical conduction for $Zn_xNi_{1-x}Fe_2O_4$ ferrites. As part of a systematic study, dielectric constant and dielectric loss ($\tan\delta$) are also studied as a function of frequency and temperature. The dielectric behavior of ferrite ceramics can be explained by using the mechanism of polarization process, which is correlated to hopping of charge between Fe^{2+} and Fe^{3+} ions at octahedral sites of the spinel lattice.

INV2

Study of Nanodimensional Spinel $Ni_{0.5}Zn_{0.5}Fe_2O_4$ Ferrite Prepared by Mechanochemical Synthesis

Zorica Lazarević
Institute of Physics, University of Belgrade, Pregrevica 118, Zemun, Belgrade, Serbia

The nanodimensional $Ni_{0.5}Zn_{0.5}Fe_2O_4$ ferrites were prepared from mixture of $NiO/ZnO/\alpha\text{-}Fe_2O_3$ and $Ni(OH)_2/Zn(OH)_2/Fe(OH)_3$ powders by (soft) mechanochemical synthesis after 5 and 10 h of milling time. The XRD of the sample obtained after 10 h milling time shows single phase cubic spinel structure. TEM analysis revealed that all samples are composed of more or less agglomerated nanosize particles. The average size of nano crystallites is ~20 nm. The degree of the cation inversion of NZF is estimated for spinel fraction in all samples by Rietveld analysis. In the Raman and IR spectra are observed all of first-order active modes. In the spectra of the single phase "hydroxide" samples it is visible that the energy position and intensity of modes is dependent on the composition and cation distribution. It was shown that the modes in Raman spectra of nickel-zinc ferrite that originate from vibrating of different cations could be clearly distinguished. From the ratio of intensities

of the A_{1g} -type Raman modes, it is possible to estimate the inversion of cations. The Mössbauer spectra were fitted by several subspectra and according to known subspectral areas of both iron sites the degree of inversion was calculated, also. The cation inversion is δ = 0.36(3) for ferrite sample obtained from the mixture of appropriate hydroxide for 10 h milling.

INV3

EPMA, BIB-SEM and FIB-SEM Investigations on Gas Shales from the Dniepr Donets Basin (Ukraine): Evolution of Micro- and Nanoscale Porosity during Thermal Maturation

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Porosity and permeability are essential parameters for reservoir rocks. As these parameters are directly related to the rock fabric, high resolution techniques are increasingly used to determine reservoir quality of shale gas plays. Techniques developed for conventional reservoir rocks, characterized by large (>10 μm) pores, cannot fully be applied to study gas shales.

The Dniepr Donets Basin (DDB) is a Devonian rift-structure located within the East European Craton. It is filled with Devonian syn-rift sediments and a thick Carboniferous to Mesozoic post-rift succession. The basin hosts more than 200 conventional oil and gas fields. Apart from that, recent investigations focus on the potential for unconventional hydrocarbon production (shale gas). Because of their high average content of total organic carbon (5-6 %), Upper Visean Rudov Beds are one of the main target horizons for shale gas exploration within the DDB. The organic rich black shales can be subdivided into different facies zones according to their mineralogical composition. Those facies zones, predefined by x-ray diffraction measurements on core samples, have been visualized in detail using SEM imaging of fresh broken surfaces, allowing a rapid assessment of mineral distribution and rock fabric. Changing permeability and fraccability, which are essential for reservoir characterization, are directly related to microscale changes in rock texture and mineralogical composition. In case of Rudov Beds, a basin-centered, brittle siliceous facies is most likely referred to a high contribution from deep water radiolaria and is separated from a transitional clayey and a marginal carbonate rich facies. In contrast, a higher abundance of coaly layers as well as inertinite macerals, derived from syn-depositional wildfires, reflects increased terrestrial influence in the marginal areas of the basin.

Another major issue in terms of reservoir quality is represented by type and distribution of organic matter (OM) within the inorganic mineral matrix. Combined SEM imaging, EDX and WDX element mapping on polished sections help visualizing the complex distribution of organic particles within the fine-grained matrix as well as interactions of OM and inorganic phases like clay minerals. Light element mapping of finely dispersed OM, as


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present in the world for several decades already. Nevertheless, in Serbia the discipline is just at the beginning of development. In this paper I'll try to explain the importance of the ethnoarchaeological research at local level and in wider, regional frames.

INV-REHA2
Fluorine doping of cathode materials for rechargeable batteries

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In the continuing search for alternative cathode materials for rechargeable batteries with improved electrochemical performances, there is a need for a versatile approach that will address concerns regarding low reversible capacity, poor capacity retention, low operating voltage and structural instability. So far, a lot of investigation was focused on cation doping. On the other hand, there is much less investigation on anion doping of cathode materials. Taking olivine-type $LiFePO_4$ and layered Na_xCoO_2 as example materials for lithium- and sodium- ion batteries, respectively, the influence of fluorine doping on both the structure and the electrochemical performances was examined. The crystal structure refinement revealed that fluorine incorporation preserves the parent structure. Furthermore, small oxygen replacement by fluorine ions changes electronic structure and consequently modifies electrical properties.

INV-REHA3
Spectroscopy study of $LiFePO_4$ catode materials for Li-ion battery prepared in the thermo-acoustic reactor

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$LiFePO_4$ is a potential cathode candidate for the next generation of secondary lithium batteries. The iron based olivine type cathodes (mainly lithium iron phosphate, $LiFePO_4$) are regarded as possible alternatives to cathodes based on rare metal composites. Industry uses mostly methods in solids and less hydrothermal synthesis. The pilot reactor was built according to the principles of the thermos-acustic burner. It consists of a burner on the basis of the Helmholtz resonator. The sample synthesized in incomplete combustion and resonance mode of reactor and calcined at 700°C. The obtained samples were characterized by X-ray diffraction, Raman and Mössbauer spectroscopy. The aim of this work is to show that is possible to achieve a desired crystal phase with only a proper mode of operation. The seemingly rapid transformation of amorphous into pure phase material was attributed to two mechanisms; increasing the number of particles due to the reduction in size and a larger number of collisions between particles due to the strong turbulent flow associated with explosive combustion.