

НАУЧНОМ ВЕЋУ ИНСТИТУТА ЗА ФИЗИКУ

Предмет: Молба за покретање поступка за избор у звање
Научни сарадник

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

У прилогу достављам:

1. Мишљење руководиоца пројекта
2. Кратку биографију
3. Научну и стручну биографију
4. Списак објављених радова са копијама радова
5. Фотокопију дипломе доктора наука
6. Предлог састава комисије за избор у звање научни сарадник
7. Цитираност радова

У Београду, 10.11.2016. године

ПОТПИС

МИШЉЕЊЕ РУКОВОДИОЦА ПРОЈЕКТА СА ПРЕДЛОГОМ
ЧЛАНОВА КОМИСИЈЕ ЗА ПИСАЊЕ ИЗВЕШТАЈА

Предлог комисије за избор др Бранке Хацић у звање Научни сарадник.

1. др Јелена Трајић, виши научни сарадник, Институт за физику – први референт
2. др Зорица Лазаревић, виши научни сарадник, Институт за физику
3. др Јаблан Дојчиловић, редовни професор, Физички факултет

БИОГРАФСКИ ПОДАЦИ

Име и презиме: Бранка Хацић

Рођен/а: 06.09.1976. у Београду, Србија

Образовање: 9. децембра 2004. дипломирала је на Физичком факултету, Универзитета у Београду, смер Општа физика, са просечном оценом 8,81 (осам и 81/100) у току студија и са оценом 10 (десет) на дипломском испиту. Постдипломске студије на смеру "Експериментална физика кондензованог стања материје" уписала је школске 2005./2006. године.

10. децембра 2007. године стекла је звање магистра физичких наука на Физичком факултету Универзитета у Београду са средњом оценом свих положених испита 9,80 (девет и 80/100), одбраном магистарске тезе под називом "Вибрациона спектроскопија $Pb_{1-x}Mn_xTe$ добијеног Брицмановим методом и епитаксијом молекулског снопа", под менторством др Маје Ромчевић.

28. децембра 2009. године стекла је звање доктора физичких наука на Физичком факултету Универзитета у Београду, одбраном докторске дисертације под називом "Вибрациона спектроскопија $Pb_{1-x}Mn_xTe$ добијеног епитаксијом молекулског снопа и нанодимензионог ZnO допираног са Mn , Co и Fe ", под менторством др Маје Ромчевић.

Научна звања:

Научни сарадник – Институт за физику, 07.07.2010. године, истекло током процеса избора у вишег научног сарадника. Одбијен избор у вишег научног сарадника услед недостатка руковођења изработом докторске дисертације

Запослење:

- Од 15.2.2005. до 31.8.2005. године Бранка Хацић је била запослена у Основној школи Бранко Радичевић у Батајници као професор
- Од 1.9.2005. ради у Институту за физику

НАУЧНА И СТРУЧНА АКТИВНОСТ

Научни рад др Бранке Хаџић одвија се у оквиру физике материјала, у области физике полупроводних кристала, танких филмова, наночестица и наноструктура. Научне активности обухватају експериментални рад, обраду резултата, моделовање и теоријску анализу испитиваних материјала. Такође, бави се и примењеним истраживањим. Досадашња научна активност кандидата испољава се у три сегмента.

Први сегмент је испитивање оптичких и магнетних особина разблажених полумагнетних полупроводника на бази ZnO.

Други сегмент је испитивање оптичких и фононских особина различитих материјала као што су, пластично деформисани бакар, кристали ZnGeAs₂ допирани Mn, CdTe_{1-x}Se_x(In), ферити као и Bi₁₂SiO₂₀ и Bi₁₂GeO₂₀ добијених методом раста кристала по Чохралском (Czochralski).

Трећи сегмент научне активности кандидата се испољава кроз сарадњу са другим истраживачким групама, кроз испитивање оптичких особина разних материјала Рамановом спектроскопијом.

У оквиру ових истраживања др Бранка Хаџић је отворила и ново поглавље истраживања усмеривши пажњу на испитивање утицаја загревања узорка ласерским зрачењем. Тако је на групи узорка ZnO допираних са CoO откривен различит утицај загревања на различите фазе у узорку да модови ZnO другачије реагује на загревање од модова Co₃O₄. Интензитет пикова ZnO опада са загревањем узорка док интензитет пикова Co₃O₄ расте. Такође утврђено је формирање димера Co на површини Co₃O₄ приликом загревања ових материјала.

Др Бранка Хаџић учествује на пројектима у оквиру Споразума о научној сарадњи између Пољске академије наука и Српске академије наука и уметности:

- Elementary excitations in semimagnetic nanocrystals and nanostructures, 2008-2014.
- Elementary excitations in semimagnetic crystals and structures, 2005-2007.

Као резултат ове сарадње публиковано је укупно 18 радова, а од претходног избора у звање 15 радова, а у задњих пет година 13 радова на којима је др Бранка Хаџић или први аутор или један од коаутора.

Члан је Друштва физичара, Друштва за ЕТРАН и Оптичког друштва Србије.

Др Бранка Хацић је проширила област истраживања и покренула сарадњу на пољу наномедицине са проф. др Браниславом Миловановићем, редовним професором Медицинског факултета у Београду и начелником одељења за кардиологију КБЦ Бежанијска коса, где се бави проучавањем проблема програмираног плацеба. Као резултат те сарадње др Бранка Хацић је одржала и четири предавања по позиву на међународној конференцији (Neurocard - International meeting on Neurocardiology and Noninvasive electrocardiology). Овом сарадњом указала је на могућности и значај коришћења Раманове спектроскопије у фармацији и медицини.

Поред научног рада др Бранка Хацић активно доприноси формирању будућих истраживача као члан Организационог комитета Конференције младих истраживача.

У својој каријери др Бранка Хацић је аутор или коаутор 41 рада (без апстраката) објављених у међународним и домаћим часописима и саопштеним на међународним и домаћим конференцијама. Од тога су 18 рада објављена у врхунским међународним часописима категорије M21, 8 у водећим категорије M22, 15 у међународним часописима категорије M23.

Од претходног избора у звање др Бранка Хацић је објавила 31 рад, 15 у врхунским међународним часописима, 7 у водећим, 9 у међународним часописима. У задњих пет година др Бранка Хацић је објавила 25 радова, 13 у врхунским међународним часописима, 7 у водећим, 5 у међународним часописима. Ови радови су цитирани више од 81 пут без аутоцитата.

Елементи за квалитативну оцену кандидата

- **Предавања по позиву.**

- The Fifth International Symposium of Neurocardiology, Neurocard 2013, Belgrade October 17-18, 2013.

- The Sixth International Symposium of Neurocardiology, Neurocard 2014, Belgrade October 16-17, 2014.

- The VII International Symposium of Neurocardiology, Neurocard 2015, Belgrade October 16-17, 2015, Scientific programme and Book of Abstracts 64(2015)

- The VIII International Symposium of Neurocardiology, Neurocard 2016, Belgrade October 14-15, 2016,

- **Комитети конференција.**

Члан организационог комитета Конференције младих истраживача од 2013.

Члан је Друштва физичара, Друштва за ЕТРАН и Оптичког друштва Србије.

- **Пројекти**

- Сада је на ангажована је на пројекту Интегралних интердисциплинарних истраживања Министарства просвете и науке Републике Србије – **Оптоелектронски нанодимензиони системи – пут ка примени**, број 45003, 2011–2016.

- Претходно је била ангажована на пројекту основних истраживања – **Спектроскопија елементарних екситација код полуманетних полупроводника** (2007–2010).

- **Међународна сарадња.**

са Институтом за физику Пољске Академије наука, где је више пута боравила а такође је и примила је неколико посета.

- **Рецензије**

Рецензент је у часописима Journal of Alloys and Compounds, Applied Physics Letters и Acta Physica Polonica A.

Табеле научне компетентности кандидата

Табела научне компетентности кандидата са укупним бројем поена:

Ознака групе	Број радова	Вредност индикатора	Укупна вредност
M21	13	8	104
M22	7	5	35
M23	5	3	15
M32	4	1.5	6
M34	2	0.5	1.0
M72	1	6	6
Укупно			167

Диференцијални услов- Од првог избора у претходно звање до избора у звање.....	потребно је да кандидат има најмање XX поена, који треба да припадају следећим категоријама:		
		Неопходно XX=	Остварено
Научни сарадник	Укупно	16	167
	M10+M20+M31+M32+M33 M41+M42 ≥	10	160
	M11+M12+M21+M22 M23+M24 ≥	5	154

СПИСАК НАУЧНИХ РАДОВА РАЗВРСТАНИХ ПРЕМА КАТЕГОРИЈАМА НАУЧНОГ РАДА (М КОЕФИЦИЈЕНТИ)

Радови у задњих 5 година рачунајући и 2016. годину означени су са *. Радови закључно са 2009. годином су ушли у претходни избор. Радови из 2010. и 2011. не улазе ни у један избор у звање.

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

М 21:

1. N. Romčević, D. Stojanović, M. Romčević, D.R. Khokhlov, B. Hadžić and A.V. Nikorich
Raman spectroscopy of Pb_{0.75}Sn_{0.25}Te(In) single crystal
Journal of Alloys and Compounds 436,38-42(2007)
2. N. Romčević, J. Trajić, T.A. Kuznetsova, M. Romčević, B. Hadžić and D.R. Khokhlov
Far-infrared study of impurity local modes in Ni-doped PbTe
Journal of Alloys and Compounds 442,324-327(2007)
3. N. Romčević, A.J. Nadolny, M. Romčević, T. Story, B. Taliashvili, A. Milutinović, J. Trajić, E. Lusakowska, D. Vasiljević-Radović, V. Domukhowski, V. Osinniy, B. Hadžić and P. Dziawa
Far-infrared phonon spectroscopy of Pb_{1-x}MnxTe layers grown by molecular beam epitaxy
Journal of Alloys and Compounds 438,34-40(2007)
4. N. Romčević, R. Kostić, B. Hadžić, M. Romčević, I. Kuryliszyn-Kudelska, W. Dobrowolski, U. Narkiewicz and D. Sibera
Raman scattering from ZnO incorporating Fe nanoparticles: Vibrational modes and low-frequency acoustic modes
Journal of Alloys and Compounds 507, 386-390 (2010)
5. I. Kuryliszyn-Kudelska, B. Hadžić, D. Sibera, M. Romčević, N. Romčević, U. Narkiewicz and W. Dobrowolski
Dynamic magnetic properties of ZnO nanocrystals incorporating Fe

- Journal of Alloys and Compounds 509, 3756-3759 (2011)
- 6.* B. Hadžić, N. Romčević, M. Romčević, I. Kuryliszyn-Kudelska, W. Dobrowolski, J. Trajić, D. Timotijević, U. Narkiewicz and D. Sibera
Surface optical phonons in ZnO(Co) nanoparticles: Raman study
Journal of Alloys and Compounds 540, 49-56 (2012)
- 7.* N. Ivanović, N. Marjanović, Z. Rakočević, V. Andrić, B. Hadžić, I. Vukanac, I. Djurdjević and M. Srecković
Changes of properties of cured and uncured disiloxane bisbenzocyclobutene thin films under irradiation
Progress in Organic coatings 76, 257-262 (2013)
- 8.* M. Jelić, N. Boukos, M. Lalović, N. Romčević, V. Leovac, B. Hadžić, S. Baloš, Lj. Jovanović, M. Slankamenac, M. Živanov and Lj. Vojnović-Ješić
Synthesis, structure and photoluminescence properties of copper(II) and cobalt(III) complexes with pyridoxalaminoguanidine
Optical materials 35, 2728-2735 (2013)
- 9.* I. Kuryliszyn-Kudelska, B. Hadžić, D. Sibera, M. Romčević, N. Romčević, U. Narkiewicz, W. Lojkowski, M. Arciszewska and W. Dobrowolski
Magnetic properties of ZnO(Co) nanocrystals
Journal of Alloys and Compounds, 561, 247-251 (2013)
- 10.* Lj. Veselinović, M. Mitrić, L. Mančić, M. Vukomanović, B. Hadžić, S. Marković and D. Uskoković
The effect of Sn for Ti substitution on the average and local crystal structure of BaTi_{1-x}Sn_xO₃ (0 ≤ x ≤ 0,20)
Journal of Applied Crystallography, 47, 999-1007 (2014)
- 11.* N. Romčević, M. Gilić, I. Anzel, R. Rudolf, M. Mitrić, M. Romčević, B. Hadžić, D. Joksimović, M. Petrović-Damjanović and M. Kos
Determination of Microstructural Changes by Severely Plastically Deformed Copper-Aluminium Alloy: Optical Study
Journal of Mining and Metallurgy section B-Metallurgy, 50, 61-68 (2014)
- 12.* B. Hadžić, N. Romčević, M. Romčević, I. Kuryliszyn-Kudelska, W. Dobrowolski, R. Wrobel, U. Narkiewicz and D. Sibera
Raman study of surface optical phonons in ZnO(Mn) nanoparticles
Journal of Alloys and Compounds, 585, 214-219 (2014)
- 13.* M. Romčević, L. Kilanski, N. Romčević, B. Hadžić, W. Dobrowolski, I.V. Fedorchenko, S.F. Marenkin
Raman spectra of ZnGeAs₂ highly doped with Mn
Materials Research Bulletin, 59, 300-304 (2014)
- 14.* B. Hadžić, N. Romčević, M. Romčević, I. Kuryliszyn-Kudelska, W. Dobrowolski, U. Narkiewicz and D. Sibera
Influence of SOP modes on Raman spectra of ZnO(Fe) nanoparticles
Optical materials, 42, 118-123 (2015)
- 15.* M.M. Radanović, M.G. Jelić, N.Ž. Romčević, N. Boukos, Lj.S. Vojinović-Ješić, V.M. Leovac, B.B. Hadžić, B.M. Bajac, L.F. Nadj, C. Chandrinou, S.S. Baloš
Synthesis, structure and photoluminescence of (PLAGH)₂[ZnCl₄] and comparative analysis of photoluminescence properties with tris(2,2'-bipyridine)ruthenium(II)
Materials Research Bulletin, 70, 951-957 (2015)

- 16.* N. Romčević, M. Romčević, W. Dobrowolski, L. Kilanski, M. Petrović, J. Trajić, B. Hadžić, Z. Lazarević, M. Gilić, J.L. Ristić-Djurović, N. Paunović, A. Reszka, B.J. Kowalski, I.V. Fedorchenko, S.F. Marenkin
Far-infrared spectroscopy of Zn_{1-x}MnxGeAs₂ single crystals: Plasma damping influence on plasmon – Phonon interaction
 Journal of Alloys and Compounds, 649, 375-379 (2015)
- 17.* B. Hadžić, N. Romčević, M. Romčević, I. Kuryliszyn-Kudelska, W. Dobrowolski, U. Narkiewicz, D. Sibera
Raman study of surface optical phonons in hydrothermally obtained ZnO(Mn) nanoparticles
 Optical Materials, 58, 317-322 (2016)
- 18.* A. Kovačević, J. Ristić-Đurović, M. Lekić, B. Hadžić, S.I. Abudagel Giama, S. Petričević, P. Mihailović, B. Matović, D. Dramlić, Lj. Brajović and N. Romčević
Influence of femtosecond pulsed laser irradiation on bismuth germanium oxide single crystal properties
 Materials Research Bulletin 83, 284-289 (2016)

M 22

1. D. Stojanović, N. Romčević, J. Trajić, B. Hadžić, M. Romčević and D.R. Khokhlov
Investigation of Photoconductivity in n-type Gallium doped PbTe
 Science of Sintering 39,169-175(2007)
- 2.* I. Kuryliszyn-Kudelska, W. Dobrowolski, M. Arciszewska, N. Romčević, M. Romčević, B. Hadžić, D. Sibera, U. Narkiewicz and W. Lojkowski
Transition Metals in ZnO Nanocrystals – Magnetic and Structural Properties
 Science of Sintering 45, 31-48 (2013)
- 3.* M. Jelić, N. Romčević, B. Hadžić, M. Lalović, M. Slankamenac and B. Živanov
Photoluminescence study of cobalt (III) and copper (II) complexes with the Schiff base of pyrodoxal and aminoguanidine
 Physica Scripta, T162, 014010 (4pp) (2014)
- 4.* M. Petrović, N. Romčević, J. Trajić, W. Dobrowolski, M. Romčević, B. Hadžić, M. Gilić and A. Mycielski
Far-infrared spectroscopy of CdTe_{1-x}Se_x(In): Phonon properties
 Infrared Physics and Technology, 67,323-326 (2014)
- 5.* D. Sekulić, Z. Lazarević, Č. Jovalekić, A. Rečnik, M. Romčević, B. Hadžić and N. Romčević
The Comparative Study of the Structural and the Electrical Properties of the Nano Spinel Ferrites Prepared by the Soft Mechanochemical Syntesis
 Science of Sintering, 46, 235-245 (2014)
- 6.* J. Trajić, M. Gilić, N. Romčević, M. Romčević, G. Stanišić, B. Hadžić, M. Petrović, Y.S. Yahia
Raman Spectroscopy of Optical Properties In Cds Thin Films
 Science of Sintering, 47, 145-152 (2015)
- 7.* A. Milutinović, Z.Ž. Lazarević, M. Jakovljević, B. Hadžić, M. Petrović, M. Gilić, W. D. Dobrowolski, N. Ž. Romčević
Optical properties of layered III–VI semiconductor γ -InSe:M (M^{1/4}Mn, Fe, Co, Ni)
 Journal of Physics and Chemistry of Solids 89, 120–127 (2016)

8.* B. Hadžić, N. Romčević, D. Sibera, U. Narkiewicz, I. Kuryliszyn-Kudelska, W. Dobrowolski, M. Romčević

Laser power influence on Raman spectra of ZnO(Co) nanoparticles

Journal of Physics and Chemistry of Solids 91, 80–85 (2016)

M23

1. D. Stojanović, J. Trajić, B. Hadžić, M. Romčević, I.I. Ivanchik, D.R. Khokhlov and N. Romčević

Far-infrared study of DX-like centers in Pb_{0.95}Mn_{0.05}Te(Ga)

Acta Physica Polonica 112, 959-962 (2007)

2. N. Romčević, R. Kostić, M. Romčević, B. Hadžić, I. Kuryliszyn-Kudelska, W. Dobrowolski, U. Narkiewicz and D. Sibera

Raman Scattering from ZnO(Fe) Nanoparticles

Acta Physica Polonica A 114,1323-1328 (2008)

3. N. Romčević, J. Trajić, B. Hadžić, M. Romčević, D. Stojanović, Z. Lazarević, T.A. Kuznetsova, D.R. Khokhlov, R. Rudolf and I. Anžel

Raman spectroscopy of multiphonon emission process in Ni-doped PbTe

Acta Physica Polonica A 116, 91-92 (2009)

4. R. Kostić, N. Romčević, M. Romčević, B. Hadžić, R. Rudolf, I. Kuryliszyn-Kudelska, W. Dobrowolski, U. Narkiewicz and D. Sibera

Low-frequency Raman scattering from ZnO(Fe) nanoparticles

Acta Physica Polonica A 116, 65-67 (2009)

5. M. Mirić, R. Rudolf, I. Anžel, B. Hadžić, M. Romčević, J. Trajić and N. Romčević

Ellipsometric measurements of plastically deformed copper

Acta Physica Polonica A 116, 715-717 (2009).

6. N. Ivanović, N. Marjanović, J. Grbović Novaković, M. Manasijević, Z. Rakočević, V. Andrić and B. Hadžić

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2. B. Hadžić, N. Romčević

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Др Бранка Хаџић

Институт за физику, Београд

Библиографија цитираних радова

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Author(s): Radisavljevic, I (Radisavljevic, I.); Novakovic, N (Novakovic, N.); Mahnke, HE (Mahnke, H. -E.); Romcevic, N (Romcevic, N.); Slankamenac, M (Slankamenac, M.); Sekulic, D (Sekulic, D.); Ivanovic, N (Ivanovic, N.)

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Author(s): Trajic, J (Trajic, J.); Romcevic, N (Romcevic, N.); Romcevic, M (Romcevic, M.); Stojanovic, D (Stojanovic, D.); Ryabova, LI (Ryabova, L. I.); Khokhlov, DR (Khokhlov, D. R.)

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Author(s): Nikolic, PM (Nikolic, P. M.); Paraskevopoulos, KM (Paraskevopoulos, K. M.); Zachariadis, G (Zachariadis, G.); Valasiadis, O (Valasiadis, O.); Zorba, TT (Zorba, T. T.); Vujatovic, SS (Vujatovic, S. S.); Nikolic, N (Nikolic, N.); Aleksic, OS (Aleksic, O. S.); Ivetic, T (Ivetic, T.); Cvetkovic, O (Cvetkovic, O.); Blagojevic, V (Blagojevic, V.); Nikolic, MV (Nikolic, M. V.)
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Author(s): Petrovic, M (Petrovic, M.); Romcevic, N (Romcevic, N.); Romcevic, M (Romcevic, M.); Stanistic, G (Stanistic, G.); Vasiljevic-Radovic, D (Vasiljevic-Radovic, D.); Trajic, J (Trajic, J.); Lazarevic, Z (Lazarevic, Z.); Kostic, S (Kostic, S.)
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Author(s): Nikolic, MV (Nikolic, M. V.); Paraskevopoulos, KM (Paraskevopoulos, K. M.); Ivetic, T (Ivetic, T.); Zorba, TT (Zorba, T. T.); Vujatovic, SS (Vujatovic, S. S.); Pavlidou, E (Pavlidou, E.); Blagojevic, V (Blagojevic, V.); Bojicic, A (Bojicic, A.); Aleksic, OS (Aleksic, O. S.); Nikolic, N (Nikolic, N.); Konig, W (Koenig, W.); Nikolic, PM (Nikolic, P. M.)
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Author(s): Trajic, J (Trajic, J.); Romcevic, N (Romcevic, N.); Romcevic, M (Romcevic, M.); Stojanovic, D (Stojanovic, D.); Rudolf, R (Rudolf, R.); Kuznetsova, TA (Kuznetsova, T. A.); Khokhlov, DR (Khokhlov, D. R.)
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Author(s): Radisavljevic, I (Radisavljevic, Ivana); Novakovic, N (Novakovic, Nikola); Ivanovic, N (Ivanovic, Nenad); Romcevic, N (Romcevic, Nebojsa); Manasijevic, M (Manasijevic, Miodrag); Mahnke, HE (Mahnke, Heinz-Eberhard)
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Author(s): Nikolic, PM (Nikolic, P. M.); Paraskevopoulos, KM (Paraskevopoulos, K. M.); Vujatovic, SS (Vujatovic, S. S.); Nikolic, MV (Nikolic, M. V.); Chatzistavrou, X (Chatzistavrou, X.); Pavlidou, E (Pavlidou, E.); Ivetic, T (Ivetic, T.); Blagojevic, V (Blagojevic, V.); Bojicic, A (Bojicic, A.); Dinulovic, D (Dinulovic, D.)
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Author(s): Nikolic, PM (Nikolic, P. M.); Paraskevopoulos, KM (Paraskevopoulos, K. M.); Djukic, SR (Djukic, S. R.); Vujatovic, SS (Vujatovic, S. S.); Labus, NJ (Labus, N. J.); Zorba, TT (Zorba, T. T.); Jovic, M (Jovic, M.); Nikolic, MV (Nikolic, M. V.); Bojicic, A (Bojicic, A.); Blagojevic, V (Blagojevic, V.); Stamenovic, B (Stamenovic, B.); Konig, W (Koenig, W.)
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Author(s): Nikolic, PM (Nikolic, P. M.); Paraskevopoulos, KM (Paraskevopoulos, K. M.); Nikolic, MV (Nikolic, M. V.); Vujatovic, SS (Vujatovic, S. S.); Pavlidou, E (Pavlidou, E.); Zorba, TT (Zorba, T. T.); Ivetic, T (Ivetic, T.); Stamenovic, B (Stamenovic, B.); Labus, N (Labus, N.); Jovic, M (Jovic, M.); Ristic, MM (Ristic, M. M.)
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Author(s): Nikolic, PM (Nikolic, P. M.); Paraskevopoulos, KM (Paraskevopoulos, K. M.); Nikolic, MV (Nikolic, M. V.); Stamenovic, B (Stamenovic, B.); Zorba, TT (Zorba, T. T.); Vujatovic, SS (Vujatovic, S. S.); Blagojevic, V (Blagojevic, V.); Bojicic, A (Bojicic, A.)
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Author(s): Nikolic, PM (Nikolic, Pantelija M.); Vujatovic, SS (Vujatovic, Stevan S.); Golic, DL (Golic, Danijela Lukovic); Labus, NJ (Labus, Nebojsa J.); Paraskevopoulos, KM (Paraskevopoulos, Konstantinos M.); Zorbas, KT (Zorbas, Kostas T.); Nikolic, MV (Nikolic, Maria Vesna); Bojicic, A (Bojicic, Aleksandar); Blagojevic, V (Blagojevic, Vladimir); Konig, W (Koenig, Wolfgang)
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Author(s): Nikolic, PM (Nikolic, P. M.); Paraskevopoulos, KM (Paraskevopoulos, K. M.); Vujatovic, SS (Vujatovic, S. S.); Nikolic, MV (Nikolic, M. V.); Bojicic, A (Bojicic, A.); Zorba, TT (Zorba, T. T.); Stamenovic, B (Stamenovic, B.); Blagojevic, V (Blagojevic, V.); Jovic, M (Jovic, M.); Dasic, M (Dasic, M.); Konig, W (Koenig, W.)
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Author(s): Orłowski, BA (Orłowski, B. A.); Osinniy, V (Osinniy, V.); Dziawa, P (Dziawa, P.); Pietrzyk, M (Pietrzyk, M.); Kowalski, BJ (Kowalski, B. J.); Taliashvili, B (Taliashvili, B.); Story, T (Story, T.); Johnson, RL (Johnson, R. L.)
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Conference Location: Poznan, POLAND

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Author(s): Mao, JW (Mao, Junwei); Hou, XH (Hou, Xianhua); Wang, XY (Wang, Xinyu); He, GN (He, Guannan); Shao, ZP (Shao, Zongping); Hu, SJ (Hu, Shejun)
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Title: Facile synthesis of ZnFe₂O₄ with inflorescence spicate architecture as anode materials for lithium-ion batteries with outstanding performance
Author(s): Hou, XH (Hou, Xianhua); Wang, XY (Wang, Xinyu); Yao, LM (Yao, Lingmin); Hu, SJ (Hu, Shejun); Wu, YP (Wu, Yuping); Liu, X (Liu, Xiang)
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Title: Magnetic Properties of Fe₂O₃/ZnO Nanocomposites

Author(s): Typek, J (Typek, J.); Wardal, K (Wardal, K.); Zolnierkiewicz, G (Zolnierkiewicz, G.); Guskos, N (Guskos, N.); Narkiewicz, U (Narkiewicz, U.)

Edited by: Bonca J; Kruchinin S

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Conference Location: Yalta, UKRAINE

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Title: FMR and Magnetization Study of ZnFe₂O₄ Nanoparticles in 0.40Fe₂O₃/0.60ZnO Nanocomposite

Author(s): Typek, J (Typek, Janusz); Wardal, K (Wardal, Kamil); Guskos, N (Guskos, Nikos); Sibera, D (Sibera, Daniel); Narkiewicz, U (Narkiewicz, Urszula)

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Title: Synthesis of graphene oxide-BiPO₄ composites with enhanced photocatalytic properties

Author(s): Lv, HW (Lv, Hongwei); Shen, XP (Shen, Xiaoping); Ji, ZY (Ji, Zhenyuan); Qiu, DZ (Qiu, Dezhou); Zhu, GX (Zhu, Guoxing); Bi, YL (Bi, Yongliang)

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Author(s): Dom, R (Dom, Rekha); Kumar, GS (Kumar, G. Siva); Hebalkar, NY (Hebalkar, Neha Y.); Joshi, SV (Joshi, Shrikant V.); Borse, PH (Borse, Pramod H.)

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Author(s): Fu, YS (Fu, Yongsheng); Xiong, P (Xiong, Pan); Chen, HQ (Chen, Haiqun); Sun, XQ (Sun, Xiaoqiang); Wang, X (Wang, Xin)

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Author(s): Guskos, N (Guskos, N.); Typek, J (Typek, J.); Zolnierkiewicz, G (Zolnierkiewicz, G.); Wardal, K (Wardal, K.); Sibere, D (Sibere, D.); Narkiewicz, U (Narkiewicz, U.)

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Author(s): Fu, YS (Fu, Yongsheng); Wang, X (Wang, Xin)

Source: INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH Volume: 50 Issue: 12
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Title: Effect of Fe-doping on the structural, optical and magnetic properties of ZnO nanostructures synthesised by co-precipitation method

Author(s): Fabbiyola, S (Fabbiyola, S.); Kennedy, LJ (Kennedy, L. John); Ratnaji, T (Ratnaji, T.); Vijaya, JJ (Vijaya, J. Judith); Aruldoss, U (Aruldoss, Udaya); Bououdina, M (Bououdina, M.)

Source: CERAMICS INTERNATIONAL Volume: 42 Issue: 1 Pages: 1588-1596 DOI: 10.1016/j.ceramint.2015.09.110 Part: B Published: JAN 2016

Record 2 of 9

Title: Influence of Fe doping on magnetic properties of ZrO₂ nanocrystals

Author(s): Kuryliszyn-Kudelska, I (Kuryliszyn-Kudelska, I.); Arciszewska, M (Arciszewska, M.); Malolepszy, A (Malolepszy, A.); Mazurkiewicz, M (Mazurkiewicz, M.); Stobinski, L (Stobinski, L.); Grabias, A (Grabias, A.); Kopcewicz, M (Kopcewicz, M.); Paszkowicz, W (Paszkowicz, W.); Minikaev, R (Minikaev, R.); Domukhovski, V (Domukhovski, V.); Nedelko, N (Nedelko, N.); Dobrowolski, W (Dobrowolski, W.)

Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 632 Pages: 609-616
DOI: 10.1016/j.jallcom.2015.01.257 Published: MAY 25 2015

Record 3 of 9

Title: Magnetic Properties of Fe₂O₃/ZnO Nanocomposites

Author(s): Typek, J (Typek, J.); Wardal, K (Wardal, K.); Zolnierkiewicz, G (Zolnierkiewicz, G.); Guskos, N (Guskos, N.); Narkiewicz, U (Narkiewicz, U.)

Edited by: Bonca J; Kruchinin S

Source: NANOTECHNOLOGY IN THE SECURITY SYSTEMS Book Series: NATO Science for Peace and Security Series C-Environmental Security Pages: 93-109 DOI: 10.1007/978-94-017-9005-5_9 Published: 2015

Conference Title: NATO Advanced Research Workshop on Nanotechnology in the Security Systems

Conference Date: SEP 29-OCT 03, 2013

Conference Location: Yalta, UKRAINE

Record 4 of 9

Title: Magnetic study of 0.20(Fe₂O₃)/0.80(ZnO) nanocomposite

Author(s): Typek, J (Typek, J.); Wardal, K (Wardal, K.); Zolnierkiewicz, G (Zolnierkiewicz, G.); Guskos, N (Guskos, N.); Sibera, D (Sibera, D.); Narkiewicz, U (Narkiewicz, U.)

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 361

Pages: 12-18 DOI: 10.1016/j.jmmm.2014.02.065 Published: JUN 2014

Record 5 of 9

Title: Evidence of a cluster glass-like behavior in Fe-doped ZnO nanoparticles

Author(s): Ramos, JE (Ramos, J. E.); Montero-Munoz, M (Montero-Munoz, M.);

Coaquira, JAH (Coaquira, J. A. H.); Rodriguez-Paez, JE (Rodriguez-Paez, J. E.)

Source: JOURNAL OF APPLIED PHYSICS Volume: 115 Issue: 17 Article Number:

17E123 DOI: 10.1063/1.4864246 Published: MAY 7 2014

Record 6 of 9

Title: Equilibrium and kinetic studies on acid dye Acid Red 88 adsorption by magnetic ZnFe₂O₄ spinel ferrite nanoparticles

Author(s): Konicki, W (Konicki, Wojciech); Sibera, D (Sibera, Daniel); Mijowska, E

(Mijowska, Ewa); Lenzion-Bielun, Z (Lenzion-Bielun, Zofia); Narkiewicz, U

(Narkiewicz, Urszula)

Source: JOURNAL OF COLLOID AND INTERFACE SCIENCE Volume: 398 Pages:

152-160 DOI: 10.1016/j.jcis.2013.02.021 Published: MAY 15 2013

Record 7 of 9

Title: Magnetic properties of ZnFe₂O₄ nanoparticles

Author(s): Guskos, N (Guskos, Niko); Glenis, S (Glenis, Spiros); Typek, J (Typek,

Janusz); Zolnierkiewicz, G (Zolnierkiewicz, Grzegorz); Berczynski, P (Berczynski,

Pawel); Wardal, K (Wardal, Kamil); Guskos, A (Guskos, Aleksander); Sibera, D (Sibera,

Daniel); Moszynski, D (Moszynski, Dariusz); Lojkowski, W (Lojkowski, Witold);

Narkiewicz, U (Narkiewicz, Urszula)

Source: CENTRAL EUROPEAN JOURNAL OF PHYSICS Volume: 10 Issue: 2 Pages:

470-477 DOI: 10.2478/s11534-012-0013-3 Published: APR 2012

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Title: Magnetic properties of ZnFe₂O₄ ferrite nanoparticles embedded in ZnO matrix

Author(s): Guskos, N (Guskos, N.); Glenis, S (Glenis, S.); Zolnierkiewicz, G

(Zolnierkiewicz, G.); Typek, J (Typek, J.); Berczynski, P (Berczynski, P.); Guskos, A

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Title: MAGNETIC RESONANCE STUDY OF NANOCRYSTALLINE ZnO
NANOPOWDERS DOPED WITH Fe₂O₃ OBTAINED BY HYDROTHERMAL
SYNTHESIS

Author(s): Guskos, N (Guskos, N.); Typek, J (Typek, J.); Zolnierkiewicz, G

(Zolnierkiewicz, G.); Wardal, K (Wardal, K.); Sibere, D (Sibere, D.); Narkiewicz, U

(Narkiewicz, U.)

Source: REVIEWS ON ADVANCED MATERIALS SCIENCE Volume: 29 Issue: 2

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Hadzic B, 2012, J ALLOY COMPD, V540, P49, DOI 10.1016/j.jallcom.2012.06.076

Record 1 of 4

Title: Photoluminescence emission at room temperature in zinc oxide nano-columns

Author(s): Rocha, LSR (Rocha, L. S. R.); Deus, RC (Deus, R. C.); Foschini, CR (Foschini, C. R.); Moura, F (Moura, F.); Garcia, FG (Garcia, F. Gonzalez); Simoes, AZ (Simoes, A. Z.)

Source: MATERIALS RESEARCH BULLETIN Volume: 50 Pages: 12-17 DOI: 10.1016/j.materresbull.2013.09.049 Published: FEB 2014

Record 2 of 4

Title: Heterogeneous phase formation in diluted magnetic semiconducting Zn_{1-x}-yCo_xAl_yO (CAZO) nanoparticles

Author(s): Siddheswaran, R (Siddheswaran, R.); Medlin, R (Medlin, R.); Belsky, P (Belsky, P.); Vavrunkova, V (Vavrunkova, V.); Ocenasek, J (Ocenasek, J.); David, B (David, B.); Sutta, P (Sutta, P.)

Source: RSC ADVANCES Volume: 4 Issue: 45 Pages: 23405-23411 DOI: 10.1039/c4ra02973a Published: 2014

Record 3 of 4

Title: Structural, optical and magnetic properties of Co-doped ZnO nanorods prepared by hydrothermal method

Author(s): Shi, SB (Shi, Shaobo); Yang, Y (Yang, Yu); Xu, JP (Xu, Jianping); Li, L (Li, Lan); Zhang, XS (Zhang, Xiaosong); Hu, GH (Hu, Guo-Hua); Dang, ZM (Dang, Zhi-Min)

Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 576 Pages: 59-65 DOI: 10.1016/j.jallcom.2013.04.011 Published: NOV 5 2013

Record 4 of 4

Title: Magnetic properties of ZnO(Co) nanocrystals

Author(s): Kurylczyn-Kudelska, I (Kurylczyn-Kudelska, I.); Hadzic, B (Hadzic, B.); Sibera, D (Sibera, D.); Romcevic, M (Romcevic, M.); Romcevic, N (Romcevic, N.); Narkiewicz, U (Narkiewicz, U.); Lojkowski, W (Lojkowski, W.); Arciszewska, M (Arciszewska, M.); Dobrowolski, W (Dobrowolski, W.)

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Record 1 of 1

Title: Photoluminescence Properties and Comparative Analysis of the New Compound of Zn(II) with Piridoxalaminoguanidine and Ru(II) Bipyridine Complex

Author(s): Jelic, MG (Jelic, M. G.); Radanovic, MM (Radanovic, M. M.); Romcevic, NZ (Romcevic, N. Z.); Boukos, N (Boukos, N.); Vojinovic-Jesic, LS (Vojinovic-Jesic, Lj. S.); Bajac, BM (Bajac, B. M.); Slankamenac, MP (Slankamenac, M. P.); Zivanov, MB (Zivanov, M. B.)

Book Group Author(s): IEEE

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Conference Date: MAY 12-14, 2014

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Title: Prediction of structure candidates for zinc oxide as a function of pressure and investigation of their electronic properties

Author(s): Zagorac, D (Zagorac, D.); Schon, JC (Schoen, J. C.); Zagorac, J (Zagorac, J.); Jansen, M (Jansen, M.)

Source: PHYSICAL REVIEW B Volume: 89 Issue: 7 Article Number: 075201 DOI: 10.1103/PhysRevB.89.075201 Published: FEB 3 2014

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Title: Strong Piezoelectricity in (1-x)(K_{0.4}Na_{0.6})(Nb_{0.9}Sb_{0.04})O₃-xBi(0.5)K(0.5)Zr(1-y)Sn(y)O(3) Lead-Free Binary System: Identification and Role of Multiphase Coexistence

Author(s): Zheng, T (Zheng, Ting); Wu, JG (Wu, Jiagang); Xiao, DQ (Xiao, Dingquan); Zhu, JG (Zhu, Jianguo); Wang, XJ (Wang, Xiangjian); Xin, LP (Xin, Lipeng); Lou, XJ (Lou, Xiaojie)

Source: ACS APPLIED MATERIALS & INTERFACES Volume: 7 Issue: 10 Pages: 5927-5937 DOI: 10.1021/acsami.5b00151 Published: MAR 18 2015

Record 2 of 2

Title: Structural and electric properties of BaSn_{0.15}Ti_{0.85}O₃ films on ITO/glass substrate by RF sputtering from powder target

Author(s): Zhu, GS (Zhu, G. S.); Yan, DL (Yan, D. L.); Xu, HR (Xu, H. R.); Yu, AB (Yu, A. B.)

Source: MATERIALS LETTERS Volume: 140 Pages: 155-157 DOI: 10.1016/j.matlet.2014.11.030 Published: FEB 1 2015

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Record 1 of 1

Title: Experimental investigation and characterization of selected as-cast alloys in vertical Cu_{0.5}Ag_{0.5}-Al section in ternary Cu-Al-Ag system

Author(s): Simsic, ZS (Simsic, Zdenka Stanojevic); Manasijevic, D (Manasijevic, Dragan); Zivkovic, D (Zivkovic, Dragana); Grguric, TH (Grguric, Tamara Holjevac); Kostov, A (Kostov, Ana); Minic, D (Minic, Dusko); Zivkovic, Z (Zivkovic, Zivan)

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Title: Synthesis of graphene-wrapped ZnMn₂O₄ hollow microspheres as high performance anode materials for lithium ion batteries

Author(s): Zhang, T (Zhang, Tong); Yue, HJ (Yue, Huijuan); Qiu, HL (Qiu, Hailong); Zhu, K (Zhu, Kai); Zhang, LJ (Zhang, Lijie); Wei, YJ (Wei, Yingjin); Du, F (Du, Fei); Chen, G (Chen, Gang); Zhang, D (Zhang, Dong)

Source: RSC ADVANCES Volume: 5 Issue: 120 Pages: 99107-99114 DOI: 10.1039/c5ra16667e Published: 2015

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Title: Electrodeposition of Sn-Mn Layers from Aqueous Citrate Electrolytes

Author(s): Kazimierczak, H (Kazimierczak, Honorata); Ozga, P (Ozga, Piotr); Slupska, M (Slupska, Monika); Swiatek, Z (Swiatek, Zbigniew); Berent, K (Berent, Katarzyna)

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Record 1 of 1

Title: Far-infrared spectroscopy of Zn_{1-x}Mn_xGeAs₂ single crystals: Plasma damping influence on plasmon - Phonon interaction

Author(s): Romcevic, N (Romcevic, N.); Romcevic, M (Romcevic, M.); Dobrowolski, WD (Dobrowolski, W. D.); Kilanski, L (Kilanski, L.); Petrovic, M (Petrovic, M.); Trajic, J (Trajic, J.); Hadzic, B (Hadzic, B.); Lazarevic, Z (Lazarevic, Z.); Gilic, M (Gilic, M.); Ristic-Djurovic, JL (Ristic-Djurovic, J. L.); Paunovic, N (Paunovic, N.); Reszka, A (Reszka, A.); Kowalski, BJ (Kowalski, B. J.); Fedorchenko, IV (Fedorchenko, I. V.); Marenkin, SF (Marenkin, S. F.)

Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 649 Pages: 375-379 DOI: 10.1016/j.jallcom.2015.07.087 Published: NOV 15 2015

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Title: Influence of Fe doping on magnetic properties of ZrO₂ nanocrystals

Author(s): Kuryliszyn-Kudelska, I (Kuryliszyn-Kudelska, I.); Arciszewska, M (Arciszewska, M.); Malolepszy, A (Malolepszy, A.); Mazurkiewicz, M (Mazurkiewicz, M.); Stobinski, L (Stobinski, L.); Grabias, A (Grabias, A.); Kopcewicz, M (Kopcewicz, M.); Paszkowicz, W (Paszkowicz, W.); Minikaev, R (Minikaev, R.); Domukhovski, V (Domukhovski, V.); Nedelko, N (Nedelko, N.); Dobrowolski, W (Dobrowolski, W.)

Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 632 Pages: 609-616 DOI: 10.1016/j.jallcom.2015.01.257 Published: MAY 25 2015

Record 2 of 4

Title: Magnetic Properties of Fe₂O₃/ZnO Nanocomposites

Author(s): Typek, J (Typek, J.); Wardal, K (Wardal, K.); Zolnierkiewicz, G (Zolnierkiewicz, G.); Guskos, N (Guskos, N.); Narkiewicz, U (Narkiewicz, U.)

Edited by: Bonca J; Kruchinin S

Source: NANOTECHNOLOGY IN THE SECURITY SYSTEMS Book Series: NATO Science for Peace and Security Series C-Environmental Security Pages: 93-109 DOI: 10.1007/978-94-017-9005-5_9 Published: 2015

Conference Title: NATO Advanced Research Workshop on Nanotechnology in the Security Systems

Conference Date: SEP 29-OCT 03, 2013

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Record 3 of 4

Title: Magnetic study of 0.20(Fe₂O₃)/0.80(ZnO) nanocomposite

Author(s): Typek, J (Typek, J.); Wardal, K (Wardal, K.); Zolnierkiewicz, G (Zolnierkiewicz, G.); Guskos, N (Guskos, N.); Sibera, D (Sibera, D.); Narkiewicz, U (Narkiewicz, U.)

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Title: Cobalt-doped ZnO nanocrystals: quantum confinement and surface effects from ab initio methods

Author(s): Schoenhalz, AL (Schoenhalz, Aline L.); Dalpian, GM (Dalpian, Gustavo M.)

Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 15 Issue: 38 Pages: 15863-15868 DOI: 10.1039/c3cp51395e Published: 2013

Sekulic DL, 2014, SCI SINTER, V46, P235, DOI 10.2298/SOS1402235S

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Title: Influence of morphology and crystallinity on field emission properties of NiFe₂O₄ nanoparticles grown by high-temperature vapor phase condensation route

Author(s): Bhosale, SV (Bhosale, S. V.); Suryawanshi, SR (Suryawanshi, S. R.); Bhoraskar, SV (Bhoraskar, S. V.); More, MA (More, M. A.); Joag, DS (Joag, D. S.); Mathe, VL (Mathe, V. L.)

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Record 1 of 12

Title: YIn_{0.9}Mn_{0.1}O₃-ZnO nano-pigment exhibiting intense blue color with impressive solar reflectance

Author(s): Jose, S (Jose, Sheethu); Jayaprakash, A (Jayaprakash, Anaswara); Laha, S (Laha, Sourav); Natarajan, S (Natarajan, S.); Nishanth, KG (Nishanth, K. G.); Reddy, MLP (Reddy, M. L. P.)

Source: DYES AND PIGMENTS Volume: 124 Pages: 120-129 DOI: 10.1016/j.dyepig.2015.09.014 Published: JAN 2016

Record 2 of 12

Title: Room temperature magnetism in zinc nano ferrite synthesized by a novel oxalate-ceramic method

Author(s): Bhatt, KK (Bhatt, Kapil K.); Niwate, YS (Niwate, Yogesh S.); Garje, SS (Garje, Shivram S.); Kothari, DC (Kothari, D. C.)

Source: MATERIALS CHEMISTRY AND PHYSICS Volume: 161 Pages: 256-259 DOI: 10.1016/j.matchemphys.2015.05.047 Published: JUL 1 2015

Record 3 of 12

Title: Magnetic Properties of Fe₂O₃/ZnO Nanocomposites

Author(s): Typek, J (Typek, J.); Wardal, K (Wardal, K.); Zolnierkiewicz, G (Zolnierkiewicz, G.); Guskos, N (Guskos, N.); Narkiewicz, U (Narkiewicz, U.)

Edited by: Bonca J; Kruchinin S

Source: NANOTECHNOLOGY IN THE SECURITY SYSTEMS Book Series: NATO Science for Peace and Security Series C-Environmental Security Pages: 93-109 DOI: 10.1007/978-94-017-9005-5_9 Published: 2015
Conference Title: NATO Advanced Research Workshop on Nanotechnology in the Security Systems
Conference Date: SEP 29-OCT 03, 2013
Conference Location: Yalta, UKRAINE

Record 4 of 12

Title: Doping concentration driven morphological evolution of Fe doped ZnO nanostructures

Author(s): Sahai, A (Sahai, A.); Kumar, Y (Kumar, Y.); Agarwal, V (Agarwal, V.); Olive-Mendez, SF (Olive-Mendez, S. F.); Goswami, N (Goswami, N.)

Source: JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 16 Article Number: 164315 DOI: 10.1063/1.4900721 Published: OCT 28 2014

Record 5 of 12

Title: Activity of the ZnO-Fe₂O₃ catalyst on the degradation of Dicamba and 2,4-D herbicides using simulated solar light

Author(s): Maya-Trevino, ML (Maya-Trevino, M. L.); Guzman-Mar, JL (Guzman-Mar, J. L.); Hinojosa-Reyes, L (Hinojosa-Reyes, L.); Ramos-Delgado, NA (Ramos-Delgado, N. A.); Maldonado, MI (Maldonado, M. I.); Hernandez-Ramirez, A (Hernandez-Ramirez, A.)

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Title: Investigation of the homogeneity of sol-gel-derived microcrystals with a mixed ZnO-MgO-FeO composition

Author(s): Kompan, ME (Kompan, M. E.); Stepanov, YP (Stepanov, Yu. P.)

Source: PHYSICS OF THE SOLID STATE Volume: 56 Issue: 6 Pages: 1195-1199 DOI: 10.1134/S1063783414060171 Published: JUN 2014

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Title: Microstructural and photoluminescence properties of sol-gel derived Tb³⁺ doped ZnO nanocrystals

Author(s): Kabongo, GL (Kabongo, Guy L.); Mhlongo, GH (Mhlongo, Gugu H.); Malwela, T (Malwela, Thomas); Mothudi, BM (Mothudi, Bakang M.); Hillie, KT (Hillie, Kenneth T.); Dhlamini, MS (Dhlamini, Mokhotjwa S.)

Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 591 Pages: 156-163 DOI: 10.1016/j.jallcom.2013.12.075 Published: APR 5 2014

Record 8 of 12

Title: Photoelectrochemical Properties of Nanomultiple CaFe₂O₄/ZnFe₂O₄ pn Junction Photoelectrodes

Author(s): Cao, JY (Cao, Junyu); Xing, JJ (Xing, Juanjuan); Zhang, YJ (Zhang, Yuanjian); Tong, H (Tong, Hua); Bi, YP (Bi, Yingpu); Kako, T (Kako, Tetsuya); Takeguchi, M (Takeguchi, Masaki); Ye, JH (Ye, Jinhua)

Source: LANGMUIR Volume: 29 Issue: 9 Pages: 3116-3124 DOI: 10.1021/la304377z Published: MAR 5 2013

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Title: Polymer nanocomposites with improved resistance to ionizing radiation
Author(s): Borjanovic, V (Borjanovic, Vesna); Bisticic, L (Bisticic, Lahorija); Mikac, L (Mikac, Lara); McGuire, GE (McGuire, Gary E.); Zamboni, I (Zamboni, Ivana); Jaksic, M (Jaksic, Milko); Shenderova, O (Shenderova, Olga)
Source: JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B Volume: 30 Issue: 4
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Title: Effect of Fe Concentration in ZnO Powders on Ferromagnetic Resonance Spectra
Author(s): Raita, O (Raita, O.); Popa, A (Popa, A.); Stan, M (Stan, M.); Suciu, RC (Suciu, R. C.); Biris, A (Biris, A.); Giurgiu, LM (Giurgiu, L. M.)
Source: APPLIED MAGNETIC RESONANCE Volume: 42 Issue: 4 Pages: 499-509
DOI: 10.1007/s00723-012-0322-0 Published: JUN 2012

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Title: Luminescence and Raman Spectra of Sol-Gel-Derived ZnO Microcrystals with a High Iron Content
Author(s): Aksyanov, IG (Aksyanov, I. G.); Kompan, ME (Kompan, M. E.); Kul'kova, IV (Kul'kova, I. V.); Stepanov, YP (Stepanov, Yu. P.)
Source: GLASS PHYSICS AND CHEMISTRY Volume: 38 Issue: 1 Pages: 143-148
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Record 12 of 12

Title: Influence of Mn doping on structural, optical, and magnetic properties of Zn_{1-x}Mn_xO nanorods
Author(s): Phan, TL (Phan, The-Long); Yu, SC (Yu, S. C.); Vincent, R (Vincent, R.); Bui, HM (Bui, H. M.); Thanh, TD (Thanh, T. D.); Lam, VD (Lam, V. D.); Lee, YP (Lee, Y. P.)
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Record 1 of 3

Title: Enhancement of the power factor of Pb_{1-x}Sn_xTe (0.00 ≤ x ≤ 0.08) alloys
Author(s): Saleh, SA (Saleh, S. A.)
Source: PHILOSOPHICAL MAGAZINE Volume: 94 Issue: 28 Pages: 3183-3194 DOI: 10.1080/14786435.2014.933907 Published: 2014

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Title: Dynamics of oxide phases on the surface of single- and polycrystalline Pb_{1-x}Sn_xTe films upon their investigation by the raman light scattering method
Author(s): Zimin, SP (Zimin, S. P.); Gorlachev, ES (Gorlachev, E. S.); Gladysheva, NV (Gladysheva, N. V.); Naumov, VV (Naumov, V. V.); Gremenok, VF (Gremenok, V. F.); Seidi, HG (Seidi, H. G.)
Source: OPTICS AND SPECTROSCOPY Volume: 115 Issue: 5 Pages: 679-684 DOI: 10.1134/S0030400X1311026X Published: NOV 2013

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Title: Raman spectroscopy of PbTe/CdTe nanocrystals
Author(s): Tschirner, N (Tschirner, Norman); Lange, H (Lange, Holger); Lambert, K (Lambert, Karel); Hens, Z (Hens, Zeger); Thomsen, C (Thomsen, Christian)

Source: PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume: 248
Issue: 11 Pages: 2748-2750 DOI: 10.1002/pssb.201100222 Published: NOV 2011

Kostic R, 2009, ACTA PHYS POL A, V116, P65

Record 1 of 4

Title: Growth of Dual DLC and Icosahedral Boron Carbide Nano-Crystals by HFCVD
Author(s): Ghoranneviss, M (Ghoranneviss, M.); Elahi, AS (Elahi, A. Salar);
Dadashbaba, M (Dadashbaba, M.)
Source: MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 608 Issue: 1
Pages: 103-115 DOI: 10.1080/15421406.2014.949767 Published: FEB 11 2015

Record 2 of 4

Title: Magnetic Properties of Fe₂O₃/ZnO Nanocomposites
Author(s): Typek, J (Typek, J.); Wardal, K (Wardal, K.); Zolnierkiewicz, G
(Zolnierkiewicz, G.); Guskos, N (Guskos, N.); Narkiewicz, U (Narkiewicz, U.)
Edited by: Bonca J; Kruchinin S
Source: NANOTECHNOLOGY IN THE SECURITY SYSTEMS Book Series: NATO
Science for Peace and Security Series C-Environmental Security Pages: 93-109 DOI:
10.1007/978-94-017-9005-5_9 Published: 2015
Conference Title: NATO Advanced Research Workshop on Nanotechnology in the
Security Systems
Conference Date: SEP 29-OCT 03, 2013
Conference Location: Yalta, UKRAINE

Record 3 of 4

Title: Transition Metals in ZnO Nanocrystals - Magnetic and Structural Properties
Author(s): Kuryliszyn-Kudelska, I (Kuryliszyn-Kudelska, I.); Dobrowolski, W
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Author(s): Wesselinowa, JM (Wesselinowa, J. M.); Apostolov, AT (Apostolov, A. T.)
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Author(s): Juarez, D (Juarez, D.); Balart, R (Balart, R.); Boronat, T (Boronat, T.); Reig,
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Author(s): Wardal, K (Wardal, Kamil); Typek, J (Typek, Janusz); Zolnierkiewicz, G (Zolnierkiewicz, Grzegorz); Guskos, N (Guskos, Niko); Narkiewicz, U (Narkiewicz, Urszula); Sibera, D (Sibera, Daniel)

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Author(s): Rudolf, R (Rudolf, R.); Gilic, M (Gilic, M.); Romcevic, M (Romcevic, M.); Anzel, I (Anzel, I.)

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Author(s): Kontopoulou, I (Kontopoulou, I.); Angelopoulou, A (Angelopoulou, A.); Bouropoulos, N (Bouropoulos, N.)

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Title: Structural, optical and magnetic properties of pulsed laser deposited Co-doped ZnO films

Author(s): Karzazi, O (Karzazi, O.); Sekhar, KC (Sekhar, K. C.); El Amiri, A (El Amiri, A.); Hlil, EK (Hlil, E. K.); Conde, O (Conde, O.); Levichev, S (Levichev, S.); Moreira, JA (Agostinho Moreira, J.); Chahboun, A (Chahboun, A.); Almeida, A (Almeida, A.); Gomes, MJM (Gomes, M. J. M.)

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Title: Flash synthesis of macro-/nanoporous ZnCo₂O₄ via self-sustained decomposition of metal-organic complexes

Author(s): Deng, SJ (Deng, Shaojuan); Han, R (Han, Rong); Dong, CJ (Dong, Chengjun); Xiao, XC (Xiao, Xuechun); Wu, JM (Wu, Jinming); Wang, YD (Wang, Yude)

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Title: Transport and carrier injection effects of junction in spin-orbit coupling heterojunction using resonance force microscopy

Author(s): Ren, R (Ren, R.); Wang, WR (Wang, Weiren); Li, X (Li, Xuan); Zhao, ZX (Zhao, Zhongxia)

Source: OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID
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Title: Synthesis of graphene-wrapped ZnMn₂O₄ hollow microspheres as high performance anode materials for lithium ion batteries

Author(s): Zhang, T (Zhang, Tong); Yue, HJ (Yue, Huijuan); Qiu, HL (Qiu, Hailong); Zhu, K (Zhu, Kai); Zhang, LJ (Zhang, Lijie); Wei, YJ (Wei, Yingjin); Du, F (Du, Fei); Chen, G (Chen, Gang); Zhang, D (Zhang, Dong)

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Title: Electrodeposition of Sn-Mn Layers from Aqueous Citrate Electrolytes

Author(s): Kazimierczak, H (Kazimierczak, Honorata); Ozga, P (Ozga, Piotr); Slupska, M (Slupska, Monika); Swiatek, Z (Swiatek, Zbigniew); Berent, K (Berent, Katarzyna)

Source: JOURNAL OF THE ELECTROCHEMICAL SOCIETY Volume: 161 Issue: 6
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РЕПУБЛИКА СРБИЈА



ФИЗИЧКИ ФАКУЛТЕТ
УНИВЕРЗИТЕТА У БЕОГРАДУ

ДИПЛОМА

О СТЕЧЕНОМ НАУЧНОМ СТЕПЕНУ
ДОКТОРА НАУКА

ХАЦИЋ (Бранко) БРАНКА

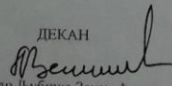
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ФАКУЛТЕТУ ПОД НАЗИВОМ „ВИБРАЦИОНА СПЕКТРОСКОПИЈА Рb1-хMnxTe
ДОБИЈЕНОГ ЕПИТАКСИЈОМ МОЛЕКУЛСКОГ СНОПА И НАНОДИМЕНЗИОНОГ
ZnO ДОПИРАНОГ Mn, Co И Fe”.

НА ОСНОВУ ТОГА ИЗДАЈЕ ЈОЈ СЕ ОВА ДИПЛОМА О СТЕЧЕНОМ НАУЧНОМ СТЕПЕНУ

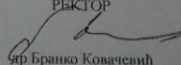
ДОКТОРА ФИЗИЧКИХ НАУКА

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У Београду, 18. маја 2010. године

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