

УНИВЕРЗИТЕТ У БЕОГРАДУ

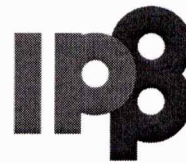
ИНСТИТУТ ЗА ФИЗИКУ БЕОГРАД

ИНСТИТУТ ОД НАЦИОНАЛНОГ ЗНАЧАЈА ЗА РЕПУБЛИКУ СРБИЈУ

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Научном већу Института за физику у Београду

Београд, 05. август 2025.

ИНСТИТУТ ЗА ФИЗИКУ

ПРИМЉЕНО:		05. 08. 2025	
Рад.јед.	б р о ј	Арх.шифр	Прилог
0301	1296/1		

ПРЕДМЕТ:

Молба за покретање поступка за избор у звање научни сарадник

Молим Научно веће Института за физику у Београду да у складу са Правилником о стицању истраживачких и научних звања („Службени Гласник Републике Србије“, бр. 80/2024) који се примењује од 01. јуна 2025., покрене поступак за мој избор у звање научни сарадник.

У прилогу достављам:

1. Мишљење руководиоца лабораторије са предлогом чланова комисије
2. Стручну биографију
3. Преглед научне активности
4. Елементе за квалитативну и квантитативну оцену научног доприноса са доказима
5. Списак објављених радова и њихове копије
6. Податке о цитираности
7. Уверење о одбрањеној докторској дисертацији

С поштовањем,

др Андријана Шолајић,

Истраживач сарадник,
Институт за физику у Београду



Научном већу Института за физику у Београду

Београд, 05. август 2025. године



Предмет:

Мишљење руководиоца лабораторије о избору др Андријане Шолајић у звање научни сарадник

Др Андријана Шолајић је запослена у Лабораторији за 2Д материјале, у оквиру Центра за физику чврстог стања и нове материјале Института за физику у Београду. Др Андријана Шолајић се бави нумеричким симулацијама заснованим на теорији функционала густине у слојевитим и 2Д материјалима и изучавању особина оваквих материјала као и могућностима за манипулацију и контролу њихових особина помоћу увођења контролисаних дефеката. Докторску дисертацију је одбранила 14. јула 2025. године на Физичком факултету Универзитета у Београду. С обзиром да испуњава све услове предвиђене Правилником о стицању истраживачких и научних звања Министарства науке, технолошког развоја и иновација (Службени Гласник Републике Србије бр. 80/2024) који се примењује од 01. јуна 2025., сагласна сам са покретањем поступка за избор др Андријане Шолајић у звање научни сарадник.

Предлажем да у саставу комисије за избор др Андријане Шолајић у звање научни сарадник, буду следећи истраживачи:

1. др Ненад Лазаревић, научни саветник, Институт за физику у Београду
2. др Јелена Пешић, виши научни сарадник, Институт за физику у Београду
3. др Срђан Ставрић, виши научни сарадник, Институт за нуклеарне науке Винча

др Ивана Милошевић

научни сарадник,
Руководилац Лабораторије за 2Д материјале,
Институт за физику у Београду

Материјал уз захтев за избор др Андријане Шолајић у звање научно звање

1. ПОДАЦИ О КАНДИДАТУ/КАНДИДАТКИЊИ

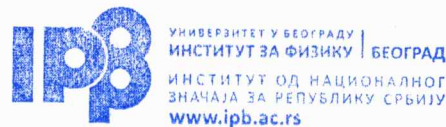
Име и презиме: Андријана Шолајић

Година рођења: 1991

Радни статус: запослена

Назив институције у којој је запослен/а: Институт за физику у Београду

Претходна запослења: ---



Број

0201-1296/3

05. 08. 2025

Образовање

Основне академске студије: 2010 – 2016, Електротехнички факултет, Универзитет у Београду

Одбрањен мастер или магистарски рад: 2017., Електротехнички факултет, Универзитет у Београду

Одбрањена докторска дисертација: 2025., Физички факултет, Универзитет у Београду

Постојеће научно звање: -

Научно звање које се тражи: научни сарадник

Датуми избора у стечена научна звања (укључујући и постојеће)

научни сарадник: -

виши научни сарадник: -

Област науке у којој се тражи звање: природно-математичке науке

Грана науке у којој се тражи звање: физика

Научна дисциплина у којој се тражи звање: Физика кондензоване материје и физика материјала

Назив матичног научног одбора којем се захтев упућује: МНО за физику

Стручна биографија

Андријана Шолајић је рођена 5. маја 1991. у Београду. Завршила је Математичку гимназију 2010. године, а затим и основне и мастер студије на Електротехничком факултету Универзитета у Београду, на смеру Наноелектроника и фотоника. Мастер рад је реализовала у Институту за физику у Београду, у Лабораторији за 2D материјале.

Докторске студије из физике кондензоване материје уписала је 2017. године на Физичком факултету у Београду. Од тада је ангажована у Институту за физику, где је изабрана у звање истраживач сарадник 2021. године. У свом истраживању користи DFT методе за проучавање електронских и оптичких особина 2D хетероструктура заснованих на hBN и монохалкогенидима IIIA групе.

У оквиру докторске тезе, Андријана се бавила истраживањем особина нових хетероструктура заснованих на хексагоналном бор нитриду (hBN) и монохалкогенидима IIIA групе, као и утицајем биаксијалног напрезања на ове структуре, помоћу теорије функционала густине. Докторску дисертацију је одбранила у јулу 2025. године.

Била је учесник више националних и међународних пројеката, укључујући ПРОМИС, мултилатерални пројекат у оквиру Дунавске стратегије, и пројекте билатералне сарадње са Аустријом и Словенијом. Тренутно руководи билатералним пројектом са Аустријом, са Универзитетом у Леобену.

Била је члан организационих одбора неколико научних скупова, као и учесник и помоћник на практичним вежбама на летњој школи у Љубљани. Од 2024. године је чланица одбора за равноправност и диверзитет Центра за физику чврстог стања и нове материјале. Рецензент је више међународних часописа.

Коаутор је на 16 научних радова, од чега је први аутор на 5. Има 245 цитата (Google Scholar), односно 164 (Web of Science, без аутоцитата), и h-индекс 6.

2. ПРЕГЛЕД НАУЧНЕ АКТИВНОСТИ

Др Андријана Шолајић се бави истраживањима у области физике кондензоване материје и физике материјала: истраживање 2D и слојевитих материјала помоћу теорије функционала густине (ДФТ). Истраживање обухвата анализу електронских, вибрационих и оптичких својстава 2D материјала и њихових хетероструктура, могућност модификација и контроле њихових електронских и оптичких

својстава помоћу механичких деформација. У истраживању користи нумеричке симулације засноване на теорији функционала густине. Њен рад се може поделити у три целине. Главни део њених истраживања везан је за тему докторске дисертације и фокусиран је на моделовање нових хетероструктура заснованих на хексагоналном бор-нитриду и монохалкогенидима IIIa групе и испитивање утицаја биаксијалног напрезања на електронске и оптичке особине ових материјала. Друга целина односи се на испитивање динамике решетке слојевитих материјала из породице халогенида прелазних метала и дихалкогенида. Трећи део односи се на истраживање у оквиру билатералног пројекта са Аустријом којим кандидаткиња руководи, и бави се истраживањем природних филосиликата, примарно, могућностима индуковања феромагнетизма у талку путем бомбардовања чистог талка јонима гвожђа.

1. Испитивање утицаја напрезања на хетероструктуре hBN-a и монохалкогенида IIIa групе

Дводимензионални монохалкогениди IIIa групе поседују изванредна електронска и оптичка својства, али су изузетно осетљиви на оксидацију у контакту са ваздухом, што ограничава њихову примену. Енкапсулација hBN-ом се намеће као одлично решење за хемијску али и механичку заштиту ових осетљивих материјала. Истраживања су усмерена на теоријско моделовање и DFT симулације нових хетероструктура заснованих на hBN-у и слојевима InTe, GaTe, InSe, GaSe, InS и GaS, са фокусом на утицај биаксијалног напрезања на електронска и оптичка својства. Показано је да напрезање омогућава прецизно подешавање ширине енергијског процепа и апсорпционих спектра без нарушавања симетрије кристалне решетке. Анализиране су и механичке особине ових хетероструктура, при чему је доказано да hBN обезбеђује значајну механичку стабилност и заштиту монохалкогенида. Резултати су објављени у три SCI рада и доприносе бољем разумевању улоге напрезања и енкапсулације у инжењерингу особина 2D хетероструктура.

2. Динамика решетке слојевитих материјала из породице халогенида прелазних метала и дихалкогенида

Истраживање динамике решетке халогенида прелазних метала (CrI_3 , VI_3 , CrSiTe_3 , MnSi_2Te_6) и дихалкогенида ($\text{Fe}_{3-x}\text{GeTe}_2$, 1T-TaS_2) спроводи се у сарадњи са експерименталним тимом Центра за физику чврстог стања. Допринос кандидата обухвата примену DFT симулација за прорачуне фононских модова у циљу тумачења резултата Раман мерења. Циљ ових истраживања је разумевање утицаја дефеката, краткодметног и дугодетног магнетног уређења и електрон-фононских интеракција. Посебно су разматране појаве као што су стабилизација CDW фаза (1T-TaS_2) и јака спин-фонон интеракција (нпр. VI_3 , CrSiTe_3), у складу са Раман експериментима. Резултати доприносе разумевању фундаменталних корелација у слојевитим магнетима и могућим применама у спинтроници и квантним технологијама.

3. Испитивање спектроскопских отисака дефеката и допаната у дводимензионалним магнетним изолаторима

У оквиру билатералног пројекта са Аустријом истражују се дефекти у филосиликатима модификованим јонским снопом, са фокусом на Fe-допирани талк. Циљ је идентификација спектроскопских потписа дефеката и анализа њиховог утицаја на магнетна својства. Улога кандидаткиње обухвата DFT прорачуне електронских и вибрационих својстава чистог и Fe-допираног талка, посебно фононских мода у Γ тачки ради поређења са Раман спектрима. Поређење резултата са експериментом (одступање $\sim 2\%$) потврђује валидност модела и присуство замане $\text{Mg} \rightarrow \text{Fe}$ атомима. Истраживање указује на потенцијал талка као стабилне 2D платформе за инжењеринг магнетизма путем контролисаног уношења дефеката и отвара могућност за развој нових магнетних 2D материјала. Резултати истраживања су тренутно у припреми за публикацију.

3. ПРИКАЗ НАЈЗНАЧАЈНИЈИХ РЕЗУЛТАТА

Др Андријана Шолајић је у свом досадашњем раду објавила укупно 16 радова у међународним часописима, од чега 1 рад у водећем међународном часопису категорије M21a, 10 радова у водећем међународном часопису категорије M21, 4 рада у међународном часопису категорије M22, и 1 рад у међународном часопису без категорије. Такође, аутор је на 27 саопштења са међународних скупова категорија M30-M60.

Као најзначајнији резултат може се истаћи следећи рад:

1. **Šolajić, A., & Pešić, J.** (2024). Tailoring electronic and optical properties of hBN/InTe and hBN/GaTe heterostructures through biaxial strain engineering. *Scientific Reports*, 14(1). <https://doi.org/10.1038/s41598-024-51303-4> M21, ИФ 3.8

У оквиру овог рада кандидаткиња је спровела систематско теоријско испитивање електронских и оптичких особина ван дер Валсових хетероструктура (HS) hBN/InTe и hBN/GaTe под дејством контролисаног биаксијалног напрезања, користећи методе засноване на теорији функционала густине (DFT). Циљ истраживања био је да се утврди у којој мери примена механичког напрезања може утицати на подешавање енергијског процепа и оптичке апсорпције ових структура, чиме се отварају могућности њихове примене у наноелектроници и фотоници.

Коришћењем софтверског пакета *Quantum ESPRESSO*, извршене су релаксације геометрије и израчунате електронске особине за низ структура под различитим вредностима напрезања у интервалу од -5% до $+5\%$. Уведено је биаксијално напрезање које не нарушава симетрије структура, што омогућава фино подешавање енергијског процепа уз очување електронских својстава карактеристичних за дату структуру. За све разматране случајеве израчунате су и енергије везивања, које указују на стабилност и експерименталну остваривост предложених хетероструктура.

Резултати показују да биаксијално напрезање значајно утиче на електронску структуру: у случају hBN/GaTe HS, ширина енергијског процепа се скоро линеарно мења у зависности од напрезања – расте под компресијом и опада под истезањем (од 1.49 eV до 0.24 eV). Код hBN/InTe структуре уочен је прелаз минимума проводне зоне из Γ у M тачку под компресивним напрезањем већим од 1% , што доводи до нелинеарне зависности ширине енергијског процепа (у опсегу од 1.69 eV до 0.70 eV). Анализа пројектоване густине стања (pDOS) показује да су проводни и валентни нивои претежно доприноси Te и In(Ga) атома, чиме се потврђује да се промене у електронској структури претежно односе на слој InTe или GaTe.

Посебан допринос дат је и у анализи оптичких особина кроз рачунање диелектричне функције и коефицијента апсорпције. Показано је да напрезање помера енергијске положаје и интензитете апсорпционих максимума. Код hBN/InTe структуре, компресионо напрезање изазива формирање израженог максимума апсорпције при $\sim 3\text{ eV}$ за z -поларизацију, што указује на могућност подешавања оптичког одзива у зависности од примењеног напрезања. Овакве структуре би могле наћи примену као широкопојасни апсорбери, сензори или активни елементи оптоелектронских прекидача.

Израчунате су и механичке особине ових структура, које показују како слој hBN-а доприноси механичкој чврстоћи и стабилности у овим структурама, доводећи до вредности Јанговог модула вредностима сличним у графену.

Кандидаткиња је у потпуности спровела све нумеричке симулације, оптимизације структура, анализе механичких особина (еластичне константе, Јангов модуло, модуло смицања), као и анализе електронских и оптичких карактеристика. На основу ових резултата показано је да инжењеринг напрезања представља ефикасан алат за прецизно подешавање својстава vdW хетероструктура. Овај рад представља значајан допринос у области теоријског моделовања и дизајна 2D хетероструктура са потенцијалом за функционалне примене.

4. ПОКАЗАТЕЉИ УСПЕХА У НАУЧНОИСТРАЖИВАЧКОМ РАДУ

4.1. Утицајност

Цитираност кандидата према бази Web of Science бази на дан 04. август 2025. је 178 (167 без аутоцитата), уз Хиршов индекс 6.

доказ: цитатни извештај из базе Web of Science на дан 04. август 2025.

4.2. Међународна научна сарадња

Кандидаткиња је учествовала на међународним пројектима билатералне сарадње са Johannes Kepler Универзитетом у Линцу, Аустрији, под називом „Modelling and measuring phase transitions and optical properties for perovskites“ од 2018 – 2020 године, билатералне сарадње са Јожеф Стефан Институту у Љубљани, Словенији, под називом „Synthesis and characterization of ternary Van der Waals $\text{Mo}_x\text{W}_{1-x}\text{S}_2$ nanotubes for advanced field emission application“ у периоду од 2023 – 2025 године, као и пројекту мултилатералне сарадње у дунавском региону, под називом „Nonthermal Phase transitions in 2D Gallium Sulphide for Applications in Next-Generation Devices“ у периоду од 2023 – 2025 године. Тренутно је руководилац пројекта билатералне сарадње са Montanuniversität Leoben у Аустрији, под називом „Exploring spectroscopic fingerprints of defects and dopants in two dimensional magnetic insulators“, у периоду од 2024 – 2026 године. Кандидаткиња је у овим пројектима била задужена за теоријски део истраживања, и различите DFT прорачуне који доприносе бољем разумевању ефеката у изучаваним системима као и потврди тачности експерименталних резултата и бољем тумачењу истих.

У досадашњој каријери, кандидаткиња је коаутор на следећим радовима са ауторима из иностраних научних институција:

- Djurdjić Mijin, S., **Šolajić, A.**, Pešić, J., Liu, Y., Petrovic, C., Bockstedte, M., Bonanni, A., Popović, Z.V. and Lazarević, N., Spin-phonon interaction and short-range order in $\text{Mn}_3\text{Si}_2\text{Te}_6$. *Physical Review B*, 107(5), p.054309. (2023), DOI: <https://doi.org/10.1103/PhysRevB.107.054309>
- Lazarević, N., Baum, A., Milosavljević, A., Peis, L., Stumberger, R., Bekaert, J., **Šolajić, A.**, Pešić, J., Wang, A., Šćepanović, M. and Abeykoon, A.M., Evolution of lattice, spin, and charge properties across the phase diagram of $\text{FeSe}_{1-x}\text{S}_x$. *Physical Review B*, 106(9), p.094510. (2022), DOI: <https://doi.org/10.1103/PhysRevB.106.094510>
- Djurdjić Mijin, S., Baum, A., Bekaert, J., **Šolajić, A.**, Pešić, J., Liu, Y., He, G., Milošević, M.V., Petrovic, C., Popović, Z.V. and Hackl, R., Probing charge density wave phases and the Mott transition in 1 T-TaS₂ by inelastic light scattering. *Physical Review B*, 103(24), p.245133. (2021), DOI: <https://doi.org/10.1103/PhysRevB.103.245133>
- Milosavljević, A., **Šolajić, A.**, Višić, B., Opačić, M., Pešić, J., Liu, Y., Petrovic, C., Popović, Z.V. and Lazarević, N., Vacancies and spin-phonon coupling in $\text{CrSi}_{0.8}\text{Ge}_{0.1}\text{Te}_3$. *Journal of Raman Spectroscopy*, 51(11), pp.2153-2160. (2020), DOI: <https://doi.org/10.1002/jrs.5962>
- Djurdjić Mijin, S., Abeykoon, A.M., **Šolajić, A.**, Milosavljević, A., Pešić, J., Liu, Y., Petrovic, C., Popović, Z.V. and Lazarević, N., Short-range order in Vl_3 . *Inorganic Chemistry*, 59(22), pp.16265-16271., (2020), DOI: <https://doi.org/10.1021/acs.inorgchem.0c02060>
- Milosavljević, A., **Šolajić, A.**, Djurdjić-Mijin, S., Pešić, J., Višić, B., Liu, Y., Petrovic, C., Lazarević, N. and Popović, Z.V., Lattice dynamics and phase transitions in $\text{Fe}_{3-x}\text{GeTe}_2$. *Physical Review B*, 99(21), p.214304. (2019), DOI: <https://doi.org/10.1103/PhysRevB.99.214304>
- Pešić, J., Popov, I., **Šolajić, A.**, Damjanović, V., Hingerl, K., Belić, M. and Gajić, R., Ab initio study of the electronic, vibrational, and mechanical properties of the magnesium diboride monolayer. *Condensed Matter*, 4(2), p.37., (2019), DOI: <https://doi.org/10.3390/condmat4020037>
- Milosavljević, A., **Šolajić, A.**, Pešić, J., Liu, Y., Petrovic, C., Lazarević, N. and Popović, Z.V., Evidence of spin-phonon coupling in CrSiTe_3 . *Physical Review B*, 98(10), p.104306. (2018), DOI: <https://doi.org/10.1103/PhysRevB.98.104306>
- Djurdjić-Mijin, S., **Šolajić, A.**, Pešić, J., Šćepanović, M., Liu, Y., Baum, A., Petrovic, C., Lazarević, N. and Popović, Z.V., Lattice dynamics and phase transition in CrI_3 single crystals. *Physical Review B*, 98(10), p.104307. (2018), DOI: <https://doi.org/10.1103/PhysRevB.98.104307>

Улога кандидаткиње у овим радовима је везана за теоријске прорачуне засноване на DFT симулацијама и заједничком тумачењу експерименталних резултата помоћу детаљног увида у нумеричке прорачуне. У већини радова са списка, у питању су истраживања слојевитих материјала са различитим комплексним физичким ефектима попут јаког спин-фононоског спрезања који су изучавани помоћу Раманове спектроскопије, уз DFT прорачуне везане за динамику решетке система.

4.3. Руководјење пројектима и потпројектима (радним пакетима)

Кандидаткиња тренутно руководи пројектом билатералне сарадње са Montanuniversität Leoben у Аустрији, под називом „Exploring spectroscopic fingerprints of defects and dopants in two dimensional magnetic insulators“, који се реализује у периоду од јула 2024 – јула 2026 године, финансираном од стране Министарства науке, технолошког развоја и иновација.

доказ: Protocol of the Fourth Meeting of the Serbian-Austrian Joint Commission for Scientific and Technological Cooperation implementing the Agreement between the Government of the Republic of Serbia and the Government of the Republic of Austria on Scientific and Technological Cooperation, concluded in Vienna, on 13 July 2010, Belgrade and Vienna, 17 June 2024

4.4. Уређивање научних публикација

-

4.5. Предавања по позиву (осим на конференцијама)

-

4.6. Рецензирање пројеката и научних резултата

Кандидаткиња је била рецензент за међународне часописе M22 категорије: Physica E: Low-dimensional Systems and Nanostructures, Electronic Structure, Journal of Electronic Materials и Journal of Computational Electronics.

- докази: писма уредништва рецензенту

4.7. Образовање научних кадрова

-

4.8. Награде и признања

-

4.9. Допринос развоју одговарајућег научног правца

-

5. БИБЛИОГРАФИЈА КАНДИДАТА

Радови објављени у научним часописима међународног значаја (M20):

Радови објављени у водећим међународним часописима категорије M21a (12 поена):

Đurđić Mijin, S., Abeykoon, A. M. M., **Šolajić, A.**, Milosavljević, A., Pešić, J., Liu, Y., Petrovic, C., Popović, Z. V., & Lazarević, N. Short-Range Order in VI_3 . Inorganic Chemistry, 59(22), 16265–16271, (2020). <https://doi.org/10.1021/acs.inorgchem.0c02060> (Impact factor: 5.165, M21a)

Радови објављени у водећим међународним часописима категорије M21 (8 поена):

Šolajić, A., & Pešić, J. Tailoring electronic and optical properties of hBN/InTe and hBN/GaTe heterostructures through biaxial strain engineering. Scientific Reports, 14(1), (2024). <https://doi.org/10.1038/s41598-024-51303-4> (Impact factor: 4.9, M21)

Šolajić, A., & Pešić, J. Strain-induced modulation of electronic and optical properties in hBN/InSe heterostructure. Optical and Quantum Electronics, 56(7). (2024). <https://doi.org/10.1007/s11082-024-06837-2> (Impact factor: 4.0, M21)

Djurdjić Mijin, S., **Šolajić, A.**, Pešić, J., Liu, Y., Petrović, Č., Bockstedte, M., Bonanni, A., Popović, Z. V., & Lazarević, N. Spin-phonon interaction and short-range order in $\text{Mn}_3\text{Si}_2\text{Te}_6$. Physical Review B, 107(5). (2023). <https://doi.org/10.1103/PhysRevB.107.054309> (Impact factor: 3.908, M21)

Lazarević, N., Baum, A., Milosavljević, A., Peis, L., Stumberger, R., Bekaert, J., **Šolajić, A.**, Pešić, J., Wang, A., Šćepanović, M., Abeykoon, A. M. M., Milošević, M. V., Petrovic, C., Popović, Z. V., & Hackl, R. Evolution of lattice, spin, and charge properties across the phase diagram of $\text{FeSe}_{1-x}\text{S}_x$. Physical Review B, 106(9). (2022). <https://doi.org/10.1103/PhysRevB.106.094510> (Impact factor: 4.036, M21)

Pešić, J., **Šolajić, A.**, Mitrić, J., Gilić, M., Pešić, I., Paunović, N., & Romčević, N. Structural and optical characterization of titanium–carbide and polymethyl methacrylate based nanocomposite. *Optical and Quantum Electronics*, 54(6). (2022). <https://doi.org/10.1007/s11082-022-03674-z> (Impact factor: 3.0, M21)

Djurdjić Mijin, S., Baum, A., Bekaert, J., **Šolajić, A.**, Pešić, J., Liu, Y., He, G., Milošević, M. V., Petrovic, C., Popović, Z., Hackl, R., & Lazarević, N. Probing charge density wave phases and the Mott transition in 1T-TaS₂ by inelastic light scattering. *Physical Review B*, 103(24). (2021). <https://doi.org/10.1103/PhysRevB.103.245133> (Impact factor: 4.036, M21)

Milosavljević, A., **Šolajić, A.**, Višić, B., Opačić, M., Pešić, J., Liu, Y., Petrovic, C., Popović, Z. V., & Lazarević, N. Vacancies and spin-phonon coupling in CrSi_{0.8}Ge_{0.1}Te₃. *Journal of Raman Spectroscopy*, 51(11), 2153–2160. (2020). <https://doi.org/10.1002/jrs.5962> (Impact factor: 3.133, M21)

Milosavljević, A., **Šolajić, A.**, Djurdjić-Mijin, S., Pešić, J., Višić, B., Liu, Y., Petrovic, C., Lazarević, N., & Popović, Z. Lattice dynamics and phase transitions in Fe_{3-x}GeTe₂. *Physical Review B*, 99(21). (2019). <https://doi.org/10.1103/physrevb.99.214304> (Impact factor: 3.813, M21)

Đurđić Mijin, S., **Šolajić, A.**, Pešić, J. R., Šćepanović, M. J., Liu Y., , Baum A., , Petrovic C., , Lazarević, N. Ž., & Popović, Z. V. Lattice dynamics and phase transition in CrI₃ single crystals. *Physical Review B*, 98(10). (2018). <https://doi.org/10.1103/PhysRevB.98.104307> (Impact factor: 3.836, M21)

Milosavljević, A., **Šolajić, A.**, Pešić, J., Liu, Y., Petrovic, C., Lazarević, N., & Popović, Z. V. Evidence of spin-phonon coupling in CrSiTe₃. *Physical Review B*, 98(10) (2018). <https://doi.org/10.1103/physrevb.98.104306> (Impact factor: 3.836, M21)

Радови објављени у водећим међународним часописима категорије M22 (5 поена):

A Šolajić & J Pešić. Novel wide spectrum light absorber heterostructures based on hBN/In(Ga)Te. *Journal of Physics: Condensed Matter*, 34(34), 345301 (2022). <https://doi.org/10.1088/1361-648X/ac7996> (Impact factor: 2.937, M22)

Damljanović, V., Lazić, N., **Šolajić, A.**, Pešić, J., Nikolić, B., & Damnjanović, M. Peculiar symmetry-protected electronic dispersions in two-dimensional materials. *Journal of Physics. Condensed Matter*: 32(48), 485501. (2020). <https://doi.org/10.1088/1361-648x/abaad1> (Impact factor: 2.887, M22)

Šolajić, A., Pešić, J., & Gajić, R. Optical and mechanical properties and electron-phonon interaction in graphene doped with metal atoms. *Optical and Quantum Electronics*, 52(3) (2020). <https://doi.org/10.1007/s11082-020-02300-0> (Impact factor: 2.084, M22)

Šolajić, A., Pešić, J., & Gajić, R. Ab-initio calculations of electronic and vibrational properties of Sr and Yb intercalated graphene. *Optical and Quantum Electronics*, 50(7) (2018). <https://doi.org/10.1007/s11082-018-1541-x> (Impact factor: 1.547, M22)

Радови у новим часописима који нису имали импакт фактор у време објављивања рада:

Pesic, J., Popov, I., **Solajic, A.**, Damljanović, V., Hingerl, K., Belic, M., & Gajic, R. Ab Initio Study of the Electronic, Vibrational, and Mechanical Properties of the Magnesium Diboride Monolayer. *Condensed Matter*, 4(2), 37 (10 страна). (2019). <https://doi.org/10.3390/condmat4020037>

Зборници међународних научних скупова (M30):

Саопштење са међународног скупа штампано у изводу (M34 – 0.5 поена):

Andrijana Solajic, Jelena Pešić. Strain Engineering in hBN/M^{III}X^{VI} Heterostructures for Enhanced Optoelectronic Performance, *Advances in Solid State Physics and New Materials*, Belgrade – Serbia 19.–23. May 2025. Book of Abstract, page 115. ISBN 978-86-82441-65-6, link: advances25.solidstate.ipb.ac.rs/wp-content/uploads/2025/05/abstractbook.pdf (предавање по позиву) (M34)

Belojica, T., Milosavljević, A., Đurđić Mijin, S., Blagojević, J., **Šolajić, A.**, Pešić, J., Višić, B., Damjanović, V., Ogunbunmi, M. O., Bobev, S., Liu, Y., Petrović, Č., Popović, Z., Hackl, R., & Lazarević, N. Raman Signatures of Instabilities in InSiTe₃. Advances in Solid State Physics and New Materials, Belgrade – Serbia 19.–23.05.2025. Book of Abstract, page 140. ISBN 978-86-82441-65-6, link: advances25.solidstate.ipb.ac.rs/wp-content/uploads/2025/05/abstractbook.pdf (M34)

Milosavljević, A., Blagojević, J., Belojica, T., Višić, B., Đurđić Mijin, S., Opačić, M., **Šolajić, A.**, Pešić, J., Wang, A., Petrović, Č., Hackl, R., & Lazarević, N. Anisotropic Strain Response in FeSe. Advances in Solid State Physics and New Materials, Belgrade – Serbia 19.–23.05.2025. Book of Abstract, page 79. ISBN 978-86-82441-65-6, link: advances25.solidstate.ipb.ac.rs/wp-content/uploads/2025/05/abstractbook.pdf (M34)

Khasiyeva, A., **Šolajić, A.**, & Pešić, J. Effect of metal atoms doping on magnetism in talc - 2D natural material. 22nd Young Researchers' Conference - Materials Science and Engineering, December 4 – 6, 2024, Belgrade, Serbia. Program and the Book of Abstracts, page 54. ISBN 978-86-80321-39-4, link: <https://www.mrs-serbia.org.rs/index.php/book-of-abstracts-22yrc> (M34)

Belojica, T., Blagojević, J., Djurdjic, S. M., **Šolajić, A.**, Pešić, J., Višić, B., Damjanović, V., Yu Liu, , Petrović, C., Popović, Z. V., Milosavljević, A., & Lazarević, N. Study of crystal phases and temperature dependence of InSiTe₃. 22nd Young Researchers' Conference - Materials Science and Engineering, December 4 – 6, 2024. 22 YRC - Program and the Book of Abstracts. Institute of Technical Sciences of SASA2024, page 36, ISBN 978-86-80321-39-4, link: <https://www.mrs-serbia.org.rs/index.php/book-of-abstracts-22yrc> (M34)

Filipović, L., **Šolajić, A.**, & Pešić, J. Investigation of electronic properties of 1T and 2H phases of 2D GaS. 22nd Young Researchers' Conference - Materials Science and Engineering, December 4 – 6, 2024, Belgrade, Serbia. 22 YRC - Program and the Book of Abstracts. Institute of Technical Sciences of SASA2024, page 56. ISBN 978-86-80321-39-4, <https://www.mrs-serbia.org.rs/index.php/book-of-abstracts-22yrc> (M34)

Đurđić Mijin, S., **Šolajić, A.**, Milosavljević, A., Yu Liu, , Pešić, J., Petrovic, C., Popović, Z. V., & Lazarević, N. Raman Spectroscopy Study of Two-Dimensional van der Waals magnets. International Conference on Physics of Two-Dimensional Crystals July 2nd - 6th, 2024. (2024). link: <https://events.mifp.eu/ICP2DC-2024/> (M34)

Pesic, J., **Šolajić, A.**, Milosavljević, A., Djurdjic, S. M., Vasić, B., Paunović, N., & Lazarević, N. The Evolution of Vibrational Modes of FeSe Under Uniaxial Strain. 21th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods. (2023). <https://www.indico.ictp.it/event/10056> (M34)

Pešić, J., **Šolajić, A.**, Đurđić Mijin, S., Y. Liu, , C. Petrovic, , M. Bockstedte, , A. Bonanni, , Popović, Z., & Lazarević, N. Lattice Dynamics in Ferrimagnetic Layered van der Waals Material Mn₃Si₂Te₆. Vienna Ab-Initio Simulation Package (VASP) Ecosystem. 6. – 7. Feb 2023, Evora. Book of Abstracts, page 4. link: <https://indico.hpc.uevora.pt/event/39/overview> (M34)

Djurdjic, S. M., A. Baum, J. Bekaert, **Šolajić, A.**, Pešić, J., Y. Liu, , Ge He, , Milošević, M. V., Petrovic, C., Popović, Z. V., R. Hackl, Lazarević, N. Probing charge density wave phases and the Mott transition in 1T-TaS₂ by Raman scattering. The 21st Symposium on Condensed Matter Physics - SFKM 2023, 26 - 30 June 2023, Belgrade, Serbia. Book of Abstracts, page 26. link: sfkm2023.ipb.ac.rs/wp-content/uploads/2023/06/abstractbook.pdf (M34)

Tea Belojica, , Milosavljević, A., Đurđić Mijin, S., **Šolajić, A.**, Pešić, J., Višić, B., Yu Liu, , Petrović, Č., Popovic, Z. V., & Lazarevic, N. Crystal structure and phase transitions in InSiTe₃. The 21st Symposium on Condensed Matter Physics - SFKM 2023, 26 - 30 June 2023, Belgrade, Serbia. (2023). Book of Abstracts, page 76. link: sfkm2023.ipb.ac.rs/wp-content/uploads/2023/06/abstractbook.pdf (M34)

Pesic, J., **Šolajić, A.**, Milosavljević, A., & Lazarević, N. Uniaxial Strain-Induced Changes in Vibrational Modes of FeSe. SFKM 2023 : 21st Symposium on Condensed Matter Physics, 26 - 30 June 2023, Belgrade, Serbia. Book of Abstracts, page 68. link: sfkm2023.ipb.ac.rs/wp-content/uploads/2023/06/abstractbook.pdf (M34)

Šolajić Andrijana, Pešić Jelena, Strain-Controlled Electronic and Optical Properties of hBN/InTe and hBN/GaTe Heterostructures, SFKM 2023: The 21st Symposium on Condensed Matter Physics, 26 - 30 June

2023, Belgrade, Serbia. Book of Abstracts, page 94. link: sfkm2023.ipb.ac.rs/wp-content/uploads/2023/06/abstractbook.pdf (M34)

Djurdjic, S. M., **Šolajić, A.**, Pešić, J., Y. Liu, , Petrovic, C., M. Bockstedte, , A. Bonanni, , Popović, Z. V., & Lazarević, N. Lattice dynamics and phase transitions in $\text{Mn}_3\text{Si}_2\text{Te}_6$, SFKM 2023: The 21st Symposium on Condensed Matter Physics, 26 - 30 June 2023, Belgrade, Serbia. Book of Abstracts, page 80. link: sfkm2023.ipb.ac.rs/wp-content/uploads/2023/06/abstractbook.pdf (M34)

Pesic, J., **Šolajić, A.**, Milosavljević, A., & Lazarević, N. Evolution Of Vibrational Modes Of FeSe Under Uniaxial Strain. International Meeting on Superconducting Quantum Materials and Nanodevices. (2023). link: <https://www.superqumap.eu/international-meeting-on-superconducting-quantum-materials-and-nanodevices-17-to-21-april-2023/> (M34)

Šolajić, A., & Pešić, J. Strain-induced modulation of electronic and optical properties in hBN/group III monochalcogenide heterostructures. IX International School and Conference on Photonics - PHOTONICA2023, August 28 - September 01, 2023, Belgrade, Serbia. Book of Abstracts, page 68. ISBN 978-86-7306-168-9 (Online). Link: [photonica.ipb.ac.rs/photonica2023/docs/Book of Abstracts \(online\).pdf](https://photonica.ipb.ac.rs/photonica2023/docs/Book_of_Abstracts_(online).pdf) (M34)

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Магистарске и докторске тезе (M70):

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Аутор: Андријана Шолајић

Наслов: Испитивање утицаја напрезања на особине хетероструктура дводимензионалних монохалкогенида IIIA групе ab-initio методама

Година одбране: 2025

Ментор: др Јелена Пешић

Назив студијског програма: Физика

НИО одбране рада: Универзитет у Београду, Физички факултет

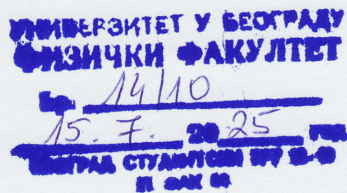
6. КВАНТИФИКАЦИЈА НАУЧНИХ РЕЗУЛТАТА КАНДИДАТА

Врста резултата	Вредност резултата (Прилог 2)	Укупан број резултата (укупан број резултата који подлежу нормирању)	Укупан број бодова (укупан број бодова након нормирања)
M21a	12	1 (1)	12 (8.571)
M21	8	10 (6)	80 (61.934)
M22	5	4 (1)	20 (19.167)
M34	0.5	27 (12)	13.5 (11.190)
M70	6	1 (0)	6 (6)
УКУПНО		43 (20)	131.5 (106.862)

Поређење са минималним квантитативним условима за избор у тражено научно звање

Диференцијални услов за оцењивани период за избор у научно звање: научни сарадник	Неопходно	Остварени нормирани број бодова
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Укупно	16	106.862
Обавезни: M11+M12+M21+M22+M23+M91+M92+M93	6	89.672



На основу члана 29 Закона о општем управном поступку («Службени гласник РС» број 18/2016 и 95/2018), и члана 149 Статута Универзитета у Београду - Физичког факултета, по захтеву АНДРИЈАНЕ ШОЛАЈИЋ, мастер инжењера електротехнике и рачунарства, издаје се следеће

У В Е Р Е Њ Е

АНДРИЈАНА ШОЛАЈИЋ, мастер инжењер електротехнике и рачунарства, дана 14. јула 2025. године, одбранила је докторску дисертацију под називом

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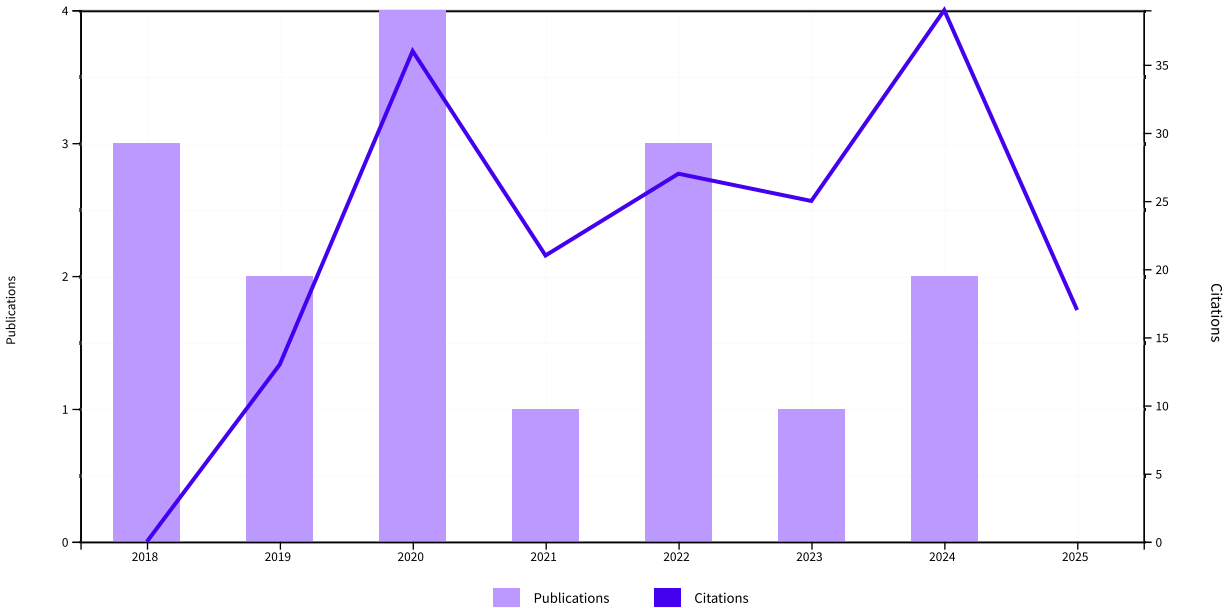
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1 Evidence of spin-phonon coupling in CrSiTe₃ Milosavljevic, A; Solajic, A; (...); Popovic, ZV								

	Sep 18 2018 PHYSICAL REVIEW B ▼ 98 (10)							
⊖ 2	Lattice dynamics and phase transition in CrI_3 single crystals Djurdjic-Mijin, S ; Solajic, A ; (...); Popovic, ZV Sep 18 2018 PHYSICAL REVIEW B ▼ 98 (10)	9	7	2	4	4	6.13	49
⊖ 3	Lattice dynamics and phase transitions in $\text{Fe}_{3-x}\text{GeTe}_2$ Milosavljevic, A ; Solajic, A ; (...); Popovic, ZV Jun 17 2019 PHYSICAL REVIEW B ▼ 99 (21)	3	5	4	5	2	3.43	24
⊖ 4	Spin-phonon interaction and short-range order in $\text{Mn}_3\text{Si}_2\text{Te}_6$ Mijin, SD ; Solajic, A ; (...); Lazarevic, N Feb 21 2023 PHYSICAL REVIEW B ▼ 107 (5)	0	0	3	7	2	4	12
⊖ 5	Probing charge density wave phases and the Mott transition in $17\text{-TaS}_2\text{I}$ by inelastic light scattering Mijin, SD ; Baum, A ; (...); Lazarevic, N Jun 22 2021 PHYSICAL REVIEW B ▼ 103 (24)	0	3	3	2	1	1.8	9
⊖ 6	Ab Initio Study of the Electronic, Vibrational, and Mechanical Properties of the Magnesium Diboride Monolayer Pesic, J ; Popov, J ; (...); Gajic, R Jun 2019 CONDENSED MATTER ▼ 4 (2)	3	1	0	2	1	1.29	9
⊖ 7	Evolution of lattice, spin, and charge properties across the phase diagram of $\text{FeSe}_{1-x}\text{S}_x$ Lazarevic, N ; Baum, A ; (...); Hackl, R Sep 19 2022 PHYSICAL REVIEW B ▼ 106 (9)	0	0	1	2	1	1	4
⊖ 8	Peculiar symmetry-protected electronic dispersions in two-dimensional materials Damjanovic, V ; Lazic, N ; (...); Damjanovic, M Nov 18 2020 JOURNAL OF PHYSICS-CONDENSED MATTER ▼ 32 (48) ★ Enriched Cited References	0	1	1	2	0	0.67	4
		0	2	0	2	0	0.67	24 4

9	Vacancies and spin-phonon coupling in $\text{CrSi}_{0.8}\text{Ge}_{0.1}\text{Te}_3$ Milosavljevic, A; Solajic, A; (...); Lazarevic, N Nov 2020 JOURNAL OF RAMAN SPECTROSCOPY ▾ 51 (11) , pp.2153-2160 ☰★ Enriched Cited References								
10	Novel wide spectrum light absorber heterostructures based on hBN/In(Ga)Te Solajic, A and Pesic, J Aug 24 2022 JOURNAL OF PHYSICS-CONDENSED MATTER ▾ 34 (34) ☰★ Enriched Cited References	0	0	0	3	0	0.75	3	
11	Tailoring electronic and optical properties of hBN/InTe and hBN/GaTe heterostructures through biaxial strain engineering Solajic, A and Pesic, J Jan 11 2024 SCIENTIFIC REPORTS ▾ 14 (1) ☰★ Enriched Cited References	0	0	0	2	0	1	2	
12	Structural and optical characterization of titanium-carbide and polymethyl methacrylate based nanocomposite Pesic, J; Solajic, A; (...); Romcevic, N Jun 2022 OPTICAL AND QUANTUM ELECTRONICS ▾ 54 (6) ☰★ Enriched Cited References	0	0	1	0	1	0.5	2	
13	Short-Range Order in VI_3 Mijin, SD; Abeykoon, AMM; (...); Lazarevic, N Nov 16 2020 INORGANIC CHEMISTRY ▾ 59 (22) , pp.16265-16271 ☰★ Enriched Cited References	0	1	1	0	0	0.33	2	
14	Ab-initio calculations of electronic and vibrational properties of Sr and Yb intercalated graphene Solajic, A; Pesic, J and Gajic, R Jul 2018 OPTICAL AND QUANTUM ELECTRONICS ▾ 50 (7) ☰★ Enriched Cited References	0	0	0	0	0	0.25	2	
15	Optical and mechanical properties and electron-phonon interaction in graphene doped with metal atoms Solajic, A; Pesic, J and Gajic, R Mar 14 2020 OPTICAL AND QUANTUM ELECTRONICS ▾ 52 (3) ☰★ Enriched Cited References	0	0	0	0	1	0.17	1	
		0	0	0	0	0	0	24	0

16

Strain-induced modulation of electronic and optical properties in hBN/InSe heterostructure

[Solajic, A](#) and [Pesic, J](#)

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PROTOCOL

of the Fourth Meeting of the Serbian-Austrian Joint Commission for Scientific and Technological Cooperation implementing the Agreement between the Government of the Republic of Serbia and the Government of the Republic of Austria on Scientific and Technological Cooperation, concluded in Vienna, on 13 July 2010

Belgrade and Vienna, 17 June 2024

The 4th Meeting of the Serbian-Austrian Joint Commission for Scientific and Technological Cooperation in accordance with Article 5 of the Agreement between the Government of the Republic of Serbia and the Government of the Republic of Austria on Scientific and Technological Cooperation of 13 July 2010 took place in Belgrade and Vienna, 17th of June 2024.

The Serbian delegation was headed by Ms. Vukašinović, Ministry of Science, Technological Development and Innovation of the Republic of Serbia.

The Austrian delegation was headed by Mr. Christian Gollubits, Federal Ministry of Education, Science and Research of the Republic of Austria.

The set-up of the two delegations can be found in Annex 1.

The Joint Commission adopted the following agenda:

1. Exchange of information on science and research
2. Discussion and adoption of the Work Programme
3. Selection of projects for the period 2024-2026
4. Next meeting and call for project proposals for the period 2026-2027
5. Adoption and Effectiveness of the Protocol

Ad 1 Exchange of information on science and research

Both sides supplied information on current developments of their national research policies. The Joint Commission expressed its confidence that the implementation of the bilateral programme will further contribute to the development of beneficial links between scientific institutions and scientists of both countries and will enable them to use their scientific potential more efficiently and fruitfully in regional as well as multilateral projects. Both sides reached an understanding to encourage their researchers to jointly participate in EU projects.

Ad 2 Adoption of the Work Programme

The Joint Commission discussed and adopted the Work Programme for the years 2024 - 2026.

The Work Programme includes regulations about the forms and aspects of cooperation, general administrative regulations, the administration of the exchange of scientists and experts as well as financial regulations.

A copy of the Work Programme for the years 2024 - 2026 is attached as part of this Protocol as Annex 2.



Ad 3 Selection of projects for the period 2024-2026

The Joint Committee agreed upon financing mobility costs of 27 cooperation projects lasting from 1st of July 2024 to 30th of June 2026 listed in Annex 3.

The Serbian side supports each bilateral project up to an amount of EUR 4,000.-.

The Austrian side supports each bilateral project up to an amount of EUR 9,000.-.

Ad 4 Next meeting and call for project proposals for the period 2026-2028

The Joint Commission has reached an understanding that upcoming calls for proposals will be published in principal on a biennial basis by the responsible institutions at least six months prior to the meetings of the Joint Commission for Scientific and Technological Cooperation.

The Parties also agreed to send the list of eligible proposals received on their side within 20 working days from the closure of the call.

The call for project proposals will be open from 2 October 2026 to 30 November 2026.

Both parties have reached an understanding to hold the 5th Meeting of the Joint Commission in Vienna in the first half of 2026. The exact date will be agreed upon through diplomatic channels.

Ad 5 Adoption and Effectiveness of the Protocol

This Protocol will remain effective until 30th of June 2026. It will remain effective beyond this date until a new Protocol becomes effective for a maximum period of another year.

Done in Belgrade and Vienna, on 17th of June 2024 in two English original copies.

Head of the Serbian delegation



Ms. Ivana Vukašinović

Ministry of Science, Technological
Development and Innovation of the
Republic of Serbia

Head of the Austrian delegation



Mr. Christian Gollubits

Federal Ministry of Education, Science and
Research of the Republic of Austria

**Work Programme
for the Years 2024-2026**

Adopted on the occasion of the 4th Meeting of the Joint Commission for Scientific and Technological Cooperation, held on-line in Belgrade and Vienna on 17 June 2024, implementing the Agreement between the Government of the Republic of Serbia and the Government of the Republic of Austria on Scientific and Technological Cooperation, signed in Vienna, on 13 July 2010.

1. Forms of Cooperation
2. Aspects of Cooperation
3. General Administrative Regulations
4. Financial Regulations

1. Forms of Cooperation

- 1.1 According to Article 2 of the Agreement, joint cooperation projects in the field of science and technology between Serbian and Austrian researchers will be supported by funding the mobility of researchers.
- 1.2 The Joint Commission will select joint research projects for funding on the basis of public calls for project proposals. The project duration will be two years.
- 1.3 The costs arising from joint cooperation projects should be balanced between the two sides.

2. Aspects of Cooperation

- 2.1 The Joint Commission agreed to support cooperation projects in all research fields.
- 2.2 Project applications with the potential for follow-up applications in bilateral and multilateral cooperation programs in Serbia, Austria and the EU will be favoured.
- 2.3 Project applications submitted by early-stage researchers as well as project applications with involvement of PhD/doctoral students and/or female researchers will be prioritized.

3. General Administrative Regulations

3.1 Responsible Institutions:

3.1.1 In Serbia:

The Ministry of Science, Technological Development and Innovation of the Republic of Serbia - NITRA, on behalf of the Serbian side, shall be the coordinating body for the implementation of the Work Programme.

Ministry of Science, Technological Development and Innovation

Nemanjina 22-26, 11000 Belgrade

Telephone: +381 11 3616 589

Fax: +381 11 3616 589

Email: snezana.omic@nitra.gov.rs

Internet: www.nitra.gov.rs

3.1.2 In Austria:

The mobility funding programme will be implemented by the OeAD - Austria's Agency for Education and Internationalisation

Ebendorferstrasse 7, 1010 Vienna

Telephone: +43 1 53408-472

Email: wtz@oead.at

Internet: <http://www.oead.at/wtz>

The OeAD GmbH is an institution commissioned by the Austrian Federal Ministry of Education, Science and Research to implement this funding programme.

Federal Ministry of Education, Science and Research

Rosengasse 2-6, 1014 Vienna

Telephone: +43 53120 7132

Email: christian.gollubits@bmbwf.gv.at

Internet: <http://www.bmbwf.gv.at>

3.2 Selection procedure of cooperation projects and administration

3.2.1 The upcoming calls for will be published on a biennial basis by the responsible institutions (3.1) at least six months prior to the meetings of the Joint Commission.

3.2.2 Submitted project applications have to include:

- Topic
- Names and contact information of the cooperating Austrian and Serbian institutions, Austrian and Serbian Principal Investigators and research team members
- Project description (subject, objective and methodology)
- Work plan
- Qualifications of the Principal Investigators and research team members
- Project budget
- Further cooperation perspective

3.2.3 Project applications have to be prepared jointly by the Austrian and Serbian Principal Investigators and have to be submitted to both respective responsible institutions (3.1) according to the criteria defined in the call text.

3.2.4 Only project applications received in time by both respective responsible institutions (3.1) will be eligible for evaluation. The responsible institutions will exchange the lists of eligible applications received within 20 working days after the closure of the call and the results of national evaluations at least 10 working days before the selection meeting.

3.2.5 Evaluation criteria for applications:

In Serbia:

- Quality and scientific relevance
- Importance and attainability of the proposed goals
- Compatibility of the methodology and the plan of activities
- Achievements and the applicability of the results
- Perspective for further joint cooperation and participation of the Serbian young researchers

In Austria:

- Scientific quality of the proposed research project incl.
 - Feasibility of the joint research plan
 - Adequacy of the scientific method
 - Qualification of the scientist's/research teams involved
- Perspective for further joint cooperation activities
- Project applications will receive up to 10 points additionally,
 - Either if submitted by early-stage researchers
 - Or if involving doctoral students/early-stage researchers and/or female researchers

- 3.2.6 The responsible institutions (3.1) will provide the Joint Commission with a joint short list of evaluated project applications as a basis for the selection meeting.
- 3.2.7 The Joint Commission will take the final funding decision, either at a physical meeting or via exchange of Emails.
- 3.2.8 A brief midterm report has to be submitted to and adopted by the respective responsible institutions (3.1) after the first year of the project duration as a precondition for further funding.
- 3.2.9 A final report about the results of their research activities has to be submitted no more than 3 months after the expiration of the project duration by the Principal Investigators to the respective responsible institutions (3.1).
- 3.2.10 The exploitation, possible patent registration and publication of project results are subject to the respective national and international laws that are applicable to both sides.

3.3 Administration of the Exchange of Researchers and Experts

- 3.3.1 The project partners have to agree on the date and duration of a stay at the host institution at least three weeks prior to the intended date of visit.
- 3.3.2 The Serbian Principal Investigator will notify the Austrian researcher in question at the responsible institution in Serbia (3.1.1).
- 3.3.3 The Austrian Principal Investigator will notify the Serbian researcher in question at the responsible institution in Austria (3.1.2).

4. **Financial Regulations**

- 4.1 Each side will cover the travel expenses as well as the accommodation costs of its researchers.

4.2 Grants in Serbia

- 4.2.1 Travel expenses (economy class) of the Serbian researchers will be reimbursed based on submitted invoices. Reimbursement of travel expenses by private car will be made on the basis of the Law on the Use of an Official Vehicle.
- 4.2.2 Accommodation expenses of the Serbian researchers and Young researchers: EUR 100.- per working day for up to 14 days or EUR 1,400. - per month for long-term stays between 14 days and 3 months maximum.

4.3 Grants in Austria

- 4.3.1 Travel expenses (economy class) of the Austrian researchers will be reimbursed based on submitted invoices.
- 4.3.2 Accommodation Expenses of the Austrian researchers: EUR 100.- per working day for up to 14 days or EUR 1,400. - per month for long-term stays between 14 days and 3 months maximum. PhD/Doctoral students: EUR 100.- per working day for up to 12 days or EUR 1,250. - per month for long-term stays between 12 days and 3 months maximum.
- 4.3.3 Project related material costs: max. EUR 3000.- as part of the granted maximum budget based on submitted invoices.

4.4 Health insurance:

The sending side will assure that outgoing personnel is sufficiently insured for health.

Annex 3 - List of Projects 2024-2026

Project Title	SRB Project Leader - First Name	SRB Project Leader - Surname	SRB Organisation	AT Project Leader - First Name	AT Project Leader - Surname	AT Organisation
Human Rights and border policies – a comparison of Serbia and Austria	Maja	NASTIĆ	University of Nis; Faculty of Law	Philip	CZECH	Paris Lodron Universität Salzburg;
Learning from mosses: the roles of tri saccharides for plant survival in extreme climate conditions	Aneta	SABOVLEJEVIĆ	University of Belgrade; Faculty of Biology	Ingeborg	LANG	Universität Wien;
Green micro-reinforced building composites with agricultural by-products	Slobodan	ŠUPIĆ	University of Novi Sad; Faculty of technical sciences; Institute for testing of materials;	Ildiko	MERTA	Technische Universität Wien;
Exchanging Laboratory Practices in Air Radioactivity Monitoring	Jelena	AJTIĆ	University of Belgrade; Faculty of Veterinary Medicine	Claudia	LANDSTETTER	AGES - Agentur für Gesundheit und Ernährungssicherheit;
Exploring spectroscopic fingerprints of defects and dopants in two dimensional magnetic insulators	Andrijana	ŠOLAJIĆ	Institute of Physics Belgrade;	Aleksandar	MATKOVIC	Montanuniversität Leoben;
DEVELOPING A PREDICTIVE ANTIBODY TEST FOR EARLY DETECTION OF TUBAL FACTOR INFERTILITY AND TRACHOMA	Marijana	STOJANOVIĆ	University of Belgrade; Institute for Biological Research "Siniša Stanković", National Institute of the Republic of Serbia	Aleksandra	INIC-KANADA	Medizinische Universität Wien;
What's in a verb? Mapping Serbian verbs borrowed into Romani	Mirjana	MIRIĆ	Institute for Balkan Studies SASA;	Marko	SIMONOVIC	Universität Graz;
Impact of Defects on Electronic, Magnetic, and Topological Properties in Semimetallic van der Waals Transition Metal Dichalcogenides	Jelena	PEŠIĆ	University of Belgrade; Institute of Physics Belgrade	Rajdeep	ADHIKARI	Johannes Kepler Universität Linz;
Non-targeted speciation analysis in Asparagus officinalis and Boletus edulis by HPLC-ICPMS/MS	Ivan	MILOVANOVIĆ	University of Belgrade; Innovation Centre of the Faculty of Technology and Metallurgy	Bassam	LAJIN	Universität Graz;
Migrants in Need? The Sociocultural Effects of Contemporary Crises on Serbian Migrants in Austria and Returnees in Serbia	Marija	BRUJIĆ	University of Belgrade; Faculty of Philosophy	Eva Tamara	ASBOTH	Johannes Kepler Universität Linz; Österreichische Akademie der Wissenschaften; Paris Lodron Universität Salzburg;




Annex 3 - List of Projects 2024-2026

Towards reconstructing the Triassic-Jurassic eastern continental margin of the Vardar Ocean: Triassic-Jurassic tectonostratigraphy of the Carpatho-Balkanides/Serbo-Macedonides (Serbia)	Uros	STOJADINOVIĆ	University of Belgrade; Faculty of Mining and Geology	Hans-Jürgen	GAWLICK	Montanuniversität Leoben;
In vitro and in vivo models development for the prediction of sensitization to food	Marija	GAVROVIĆ-JANKULOVIĆ	University of Belgrade; Faculty of Chemistry	Michelle	EPSTEIN	Medizinische Universität Wien;
Anticoagulation and inflammation monitoring in patients after heart and vascular interventions: Prospective	Dragana	UNIĆ-STOJANOVIĆ	University of Belgrade; Institute for Cardiovascular Diseases Dedinje	Sasa	RAJSIC	Medizinische Universität Innsbruck;
Activated flux fusion for wire based plasma additive manufacturing (AS Fusion)	Sebastian	BALOŠ	University of Novi Sad; Faculty of Technical Sciences	Norbert	ENZINGER	Technische Universität Graz;
Data Story about Dementia	Anđelka	ZEČEVIĆ	Serbian Academy of Sciences and Arts; Mathematical Institute	Elma	DERVIC	Complexity Science Hub Vienna;
CREATING VALUABLE (SEMI)PRODUCTS FROM BLACK RASPBERRY POMACE	Katarina	ŠAVIKIN	Institute for Medicinal Plants Research "Dr Josif Pančić" (IPLB);	Heidrun	HALBWIRTH	Technische Universität Wien;
Safety Climate and Performance Appraisal of Heavy Machinery Supply Chain Members in Austria and Serbia as a Resilience Enhancement Tool – <u>SAFECORNER</u>	Vesna	SPASOJEVIĆ BRKIĆ	University of Belgrade; Faculty of Mechanical Engineering	Bernd Markus	ZUNK	Technische Universität Graz;
Small Polaron: from Models to Real Materials	Darko	TANASKOVIĆ	Institute of Physics Belgrade;	Michele	RETICCIOLI	Universität Wien;
From peels to peroxidase: obtaining commercial enzyme preparation from <u>aero-industrial waste</u>	Milica	SVETOZAREVIĆ ARSOVIĆ	University of Belgrade; Innovation Center of the Faculty of Technology and	Eva	PRADA	Technische Universität Wien;
Preventing LPMO from self-destruction by oxidative damage	Dejan	MILENKOVIĆ	The State University in Novi Pazar; University of Kragujevac Institute for Information Technologies	Peter	POLIAK	Universität für Bodenkultur Wien;
Comparative housing studies – commodification and financialisation in contemporary housing in Vienna and <u>Belgrade</u>	Ivan	RATKAJ	University of Belgrade; Faculty of Geography	Robert	MUSIL	Österreichische Akademie der Wissenschaften;
Space weather and monitoring the effects of extraterrestrial radiation	Aleksandra	NINA	University of Belgrade; Institute of Physics Belgrade;	Hans	EICHELBERGER	Österreichische Akademie der Wissenschaften;

Annex 3 - List of Projects 2024-2026

Helen – a Catholic Noblewoman, Serbian Queen and Interreligious Donor connecting East and West in the 13th/14th Centuries (IDCFW)	Branka	VRANEŠEVIĆ	University of Belgrade; Faculty of Philosophy	Mihailo	POPOVIC	Österreichische Akademie der Wissenschaften;
Insights in co-infections with Pneumocystis spp. and canine distemper virus, canine parvovirus-2, canine coronavirus, pseudorabies virus, and flaviviruses in Serbian wild carnivore species	Branislav	KURELJUŠIĆ	Institute of Veterinary Medicine of Serbia;	Christiane	WEISSENBACHER-LANG	Veterinärmedizinische Universität Wien;
Effective interactions between charged Janus colloids beyond mean-field	Nataša	ADŽIĆ	University of Belgrade; Institute of Physics Belgrade;	Emanuela	BIANCHI	Technische Universität Wien;
COMPARING THE REMNANTS OF THE CENERIAN OROGEN IN AUSTRIA AND SERBIA	Bojan	KOSTIĆ	University of Belgrade; Faculty of Mining and Geology	FRIEDRICH	FINGER	Paris Lodron Universität Salzburg; Universität Graz;
Clean and Green hydraulic fluids: ionic liquids approach	Milan	VRANEŠ	University of Novi Sad; Faculty of Sciences	Christian	SCHRÖDER	Universität Wien;