

ИЗБОРНОМ И НАСТАВНО-НАУЧНОМ ВЕЋУ ФИЗИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

На VI редовној седници Изборног и Наставно-научног већа Физичког факултета, Универзитета у Београду одржаној 27. марта 2019. године, одређени смо у Комисију за припрему извештаја по расписаном конкурс за избор једног РЕДОВНОГ ПРОФЕСОРА за ужу научну област ФИЗИКА АТОМА И МОЛЕКУЛА на Физичком факултету Универзитета у Београду. У том својству подносимо Већу следећи

РЕФЕРАТ

На конкурс за избор једног РЕДОВНОГ ПРОФЕСОРА за ужу научну област ФИЗИКА АТОМА И МОЛЕКУЛА на Физичком факултету Универзитета у Београду, који је објављен у листу Националне службе за запошљавање „ПОСЛОВИ“ број 823, дана 3.4.2019. године, јавио се један кандидат, др Горан Попарић, ванредни професор Физичког факултета Универзитета у Београду.

1. Биографија

Горан Попарић је рођен 20.08.1965. у Београду. Основну и средњу школу је завршио у Београду. Физички факултет, истраживачки смер на експерименталној физици завршио је 1993. године са просечном оценом 9,21 (девет и 21/100) и оценом 10 на дипломском раду. Дипломски рад је радио из области атомске физике под називом „Франк-Херцови огледи“. Од 1994. године је запослен на Физичком факултету прво као асистент, а затим од 2004. године и као наставник у звању доцента. Магистрирао је 1997. године у области физике атома и молекула на тему „Побуђивање вибрационих нивоа C^3P_u стања молекула азота“. Докторску тезу је одбранио 2001. године такође на Физичком факултету у области Физика атома и молекула под називом „Побуђивање вибрационих нивоа валентних и Ридбергових стања молекула азота и угљен-моноксида електронима“. Од 1996 учествовао је на четири научна пројекта.

Од 2004. до 2009. године је у два мандата био продекан за наставу на Физичком факултету, Универзитета у Београду. Као продекан за наставу учествовао је у реформи наставних планова 2006. године, а такође и припреми нових наставних планова за акредитацију 2009. године. Тренутно се обавља функцију продекана за финансије Физичког факултета, на коју је изабран 2018. године.

У звање ванредног професора изабран је 2013. године, а реизабран 2018. године. Држао је наставу на предметима Физика 1 (за студенте Физичке хемије), Мониторинг Буке (за студенте Географије), Програмирање и Основи рачунарске технике (за студенте Примењене и компјутерске физике), Физика молекула (за студенте смере Теоријска и експериментална физика), а на докторским студијама Монте карло симулације у физици.

Области интересовања у којима ради су: Физика атомских сударних процеса, Физика молекула и Симулације физичких процеса.

Од 2014-2016. године био је ко-председник организационог комитета међународне научне конференције 28th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2016) која је одржана од 29.8.-2.9. 2016. године у Београду.

Од 2016-2018. године био је ко-председник научног комитета међународне научне конференције 29th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2018) која је одржана од 28.8.-1.9. 2018. године у Београду.

2. Наставна активност

Од 1993. године, студентима држи рачунске и експерименталне вежбе из предмета: Физичка механика и термодинамика. Такође од 1998. године студентима држи рачунске и експерименталне вежбе из предмета: Физика Молекула.

Од 2004 године, студентима физике на смеру Примењена и компјутерска физика држи предавања на предметима: Програмирање, Основи рачунарске технике и Основи информатике. Такође од 2007. године држи предавања студентима Физичке хемије на предмету: Физика 1. Од 2011. године држи предавања студентима Географског факултета, на смеру за Геопросторне основе животне средине и предмета: Мониторинг буке. У току 2017. године на смеру Теоријска и експериментална физика држи предавања из предмета: Физика молекула.

На мастер студијама на смеру Примењена и компјутерска физика држао је курсеве из предмета: Основи телекомуникација и Архитектура рачунара и оперативни системи.

На докторским студијама држао је курсеве: Монте Карло симулације у физици и Експерименталне методе физике електрон-атомских судара.

Био је ментор више дипломских и мастер радова, а такође и три одбрањене докторске дисертације. Тренутно је ментор на још две докторске дисертације.

Од 2004. до 2009. године је био у два мандата продекан за наставу на Физичком факултету, Универзитета у Београду

Такође је коаутор, заједно са професором др Бећком Касалицом, уџбеника „Увод у акустику“, који се користи за предмет „Мониторнг Буке“, за студенте Географије. Аутор је уџбеника „Основи физике атомских сударних процеса“, за истоимени предмет који се држи као изборни за студенте мастер студија Физичког факултета.

Према Анкети о вредновању педагошког рада наставника на Физичког факултету, Универзитета у Београду, оцењен је просечном оценом 4.80 .

3. Опис досадашње научне активности

Од 1996. учесник је на 4. научна пројекта:

1. Атомска и молекулска физика: Пп2: „Експериментална Физика атомских сударних честица“ (Основна истраживања.) од 1996 до 2000. године.
2. „Експриментална истраживања ласерске и електронске интеракције са атомима, металним парама и молекулима“ (Основна истраживања. Бр. Пројекта 1424) од 2001 до 2005. године.
3. „Електронска и ласерска спектрометрија молекула“ (Основна истраживања. Бр. Пројекта 141015) од 2006. до 2010. године.
4. „Атомски сударни процеси и фотоакустична спектрометрија молекула и чврстих тела“ (Основна истраживања. Бр. Пројекта 171016). Шеф пројекта је проф. др Драгољуб Белић.

Досадашња научна активност је углавном везана за физику атомских судара. Развијан је хибридни спектрометар за мерење ефикасних пресека за јонизацију молекула. Такође су развијане и методе симулације транспорта електрона кроз гасове у присуству електричних и магнетних поља и рачунати одговарајући коефицијенти брзина вибрациононе побуде, екситације и јонизације.

Од актуелних научних активности и активности у новијем периоду могу се издвојити следеће:

3.1. Развој хибридног спектрометра за мерење ефективних пресека за јонизацију молекула помоћу time-of-flight методе

У оквиру ове научне активности развијен је и тестиран електронски спектрометар који се састоји од електронског монохроматора и анализатора, који омогућава добијање електронског млаза високе резолуције. Електронски спектрометар омогућава контролисану јонизацију молекула и представља подсистем ширег система који укључује и детекцију јона насталих при судару молекулског гаса са електронима. Такође је развијен и систем за детекцију јона и њихову масену сепарацију заснован на „time-of-flight“

методи. За сада је детекција омогућена коришћењем каналног мултипликатора, али је за већу ефикасност неопходна набавка детектора јона.

Сама „time-of-flight“ метода која је у основи мерења новог масеног спектрометра, имплементирана је раније на двоструком трохоидном електронском спектрометру где је послужила за мерењу диференцијалних пресека на граничним угловима из чега су је произашло неколико радова у водећим међународним часописима са импакт фактором већим од 1. Наслови радова везаних за „time-of-flight“ проблематику су дати у прилогу преглед научних резултата под редним бројевима [A12], [A13], [A21], [A22] и [A23].

Из развоја хибридног спектрометра за мерење ефективних пресека за јонизацију молекула је проистекао и део резултата докторског рада Мирјане М. Војновић који је одбрањен 2016. године, а који је рађен под менторством Горана Попарића.

3.2. Развој симулације за израчунавање коефицијената брзине ексцитације и јонизације молекула у електричним и магнетним пољима.

У оквиру ове научне активности развијена је симулација транспорта електрона у гасовима ниских концентрација у присуству електричног поља. Симулација даје функције дистрибуције електрона по енергијама, што омогућава да се израчунавају коефицијенти брзине вибрационе и електронске побуде молекула. Такође је омогућено и израчунавање коефицијената брзине јонизације. Значај симулације је у томе што полазећи од мерених диференцијалних и тоталних пресека за ексцитацију омогућава моделирање транспорта електрона и даје макроскопске податке везане за коефицијенте брзине ексцитације и јонизације молекула. Ово је значајно за моделирање горњих слојева атмосфере, моделирање гасних ласера и за моделирање плазми ниских и средњих концентрација. У току је даљи развој симулације и омогућавање израчунавања коефицијената брзине у присуству магнетног поља, а такође и у присуству радио фреквентних поља.

Из дате научне активности проистекао је део докторског рада Мирјане М. Војновић под називом „Коефицијенти брзине побуђивања и јонизације молекула CO и N₂ електронима у присуству електричних и магнетних поља“ који је одбрањен 2016. године, а који је рађен под менторством Горана Попарића.

У скоријем периоду из ове научне активности такође је проистекло и више научних радова објављених у водећим међународним часописима са импакт фактором већим од 1. Наслови радова везаних за ову проблематику су дати у прилогу преглед научних резултата под редним бројевима [A1], [A5], [A6], [A7], [A8] и [A10].

3.3. Развој система за мерење акустичних особина. Модификација акустичних особина текстилних материјала третирањем у плазми

Комплетно је развијен и направљен уређај за мерење апсорпције звучних таласа и звучне импедансе, према постојећем стандарду ISO 10534-2:1998 standard (Acoustics – Determination of sound absorption coefficient and impedance in impedance tubes – Part 2: Transfer-function method). Систем је успешно тестиран, и употребљен за мерење акустичних особина текстилних материјала. Тренутно су актуелна истраживања на модификацији акустичних особина текстилних материјала у радио-фреквентној плазми аргона и азота. Прелиминарни резултати показују да је могуће повећати коефицијент апсорпције звучних таласа текстилних материјала, при одређеним условима плазме у случају оба коришћена гаса. Упоредо се ради на моделирању услова у плазми, као и на дијагностици услова плазме помоћу оптичке емисионе спектроскопије, у циљу поређења модела са експерименталним мерењима. С обзиром на прелиминарне резултате, нови научни резултати и одговарајуће публикације из ове научне активности се очекују у наредном периоду.

4. Преглед научних резултата

- 29 радова у водећим међународним часописима (са импакт фактором преко 1)
- 232 цитата (без аутоцитата или цитата коаутора)
- Збирни импакт фактор 63,65
- Просечни импакт фактор 2,19
- Ментор три одбрањене докторске дисертације под називом:
 1. „Побуђивање молекула H_2 , N_2 и CO електронима ниских енергија“, докторант асистент Мирослав Ристић, Универзитет у Београду, Факултет за Физичку хемију, Београд 2011. године.
 2. „Коефицијенти брзине побуђивања и јонизације молекула CO и N_2 електронима у присуству електричних и магнетних поља“, докторант Мирјана М. Војновић, Универзитет у Београду, Физички факултет, Београд. 2016. године
 3. "ELECTRON IMPACT EXCITATION AND IONIZATION OF CO AND N_2 IN RADIO-FREQUENCY ELECTRIC FIELD" (Електронска ударна екситација и јонизација CO и N_2 у радио фреквентним електричним пољима), докторант МУНА АОНЕАС, Универзитет у Београду, Физички факултет, Београд. 2018. године.
- Више радова у зборницима међународних конференција и конференција са међународним учешћем и домаћим конференцијама.
- Више саопштења по позиву на међународним конференцијама и конференцијама са међународним учешћем и домаћим конференцијама.

Кратак приказ научноистраживачког рада кроз резултате публиковане у међународним часописима:

У радовима објављеним у водећим међународним часописима под редним бројевима (A12), (A13), (A21), (A22) и (A23) који су наведени списку научне публикације дата су мерења диференцијалних пресека за побуђивање молекула N_2 , H_2 , CO на граничним угловима од 0^0 и 180^0 коришћењем развијене „time of flight“ методе мерења на постојећем двоструком трохоидном електронском спектрометру. Вредност резултата је у томе што дају могућност провере постојећих теоријских модела и њиховог важења на граничним угловима, а такође и у томе што се слична мерења не могу извести на постојећим класичним типовима спектрометара. У време објављивања слични резултати нису постојали, док су неки од резултата у међувремену верификовани.

У радовима објављеним у водећим међународним часописима под редним бројевима (A1) (A5), (A6), (A7), (A8), (A10), (A11), (A14), (A16), (A18), (A19), (A20) који су наведени списку научне публикације дата су израчунавања коефицијената брзине екситације вибрационих и електронских стања, молекула N_2 , H_2 , CO и CO_2 . У оквиру ових резултата приказан је развој симулације транспорта електрона кроз гасове. Вредност резултата је у томе што слични резултати веома ретки или нису постојали у време објављивања. Такође, резултати се могу користити за моделирање транспортних процеса у горњим слојевима атмосфере, у гасним ласерима и у плазмама ниских и средњих концентрација.

5. Списак публикација

A) Радови у међународним часописима

Радови у водећим међународним часописима (IF>1)

- [A1] Miroslav M. Ristić, Muna M. Aoneas, Mirjana M. Vojnović, Sava M. D. Galijaš, Goran B. Poparić,
Excitation of Electronic States of CO in Radio-Frequency Electric Field by Electron Impact
Plasma Chem Plasma Process (2018) 38:903–916
(IF=2.658)
DOI 10.1007/s11090-018-9892-4
- [A2] Snežana B. Stanković, Dušan Popović, Goran B. Poparić, Thermal properties of directionally oriented polymer fibrous materials as a function of fibre arrangement at mesoscopic level, Thermal Science 2019 OnLine-First Broj 00, Stranice: 105-105
(IF=1.433)
DOI 10.2298/TSCI181011105S
- [A3] S M D Galijaš and G B Poparić, Evaluation of electron capture distances of the Rydberg ion-surface interactions, Phys. Scr. 94 (2019) 025401 (10pp)
(IF=1.902)
DOI 10.1088/1402-4896/aaf1ef
- [A4] Snežana B. Stanković, Milada Novaković, Dušan M. Popović, Goran B. Poparić & Matejka Bizjak Novel engineering approach to optimization of thermal comfort properties of hemp containing textiles, The Journal of The Textile Institute(2019)
(IF=1.174)
DOI: 10.1080/00405000.2018.1557367
- [A5] Miroslav M. Ristić, Muna M. Aoneas, Mirjana M. Vojnović, Goran B. Poparić, Excitation of Electronic States of N₂ in Radio-Frequency Electric Field by Electron Impact
Plasma Chem Plasma Process, September 2017, Volume 37, Issue 5, pp 1431–1443
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DOCUMENT TYPE: Article

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DOCUMENT TYPE: Conference Paper
PUBLICATION STAGE: Final
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ЗАКЉУЧАК

На конкурс за редовног професора са пуним радним временом за ужу научну област Физика атома и молекула који је расписан 3.4.2019. године у листу „Послови” број 823 по одлуци VI седнице Изборног и Наставно-научног већа Физичког факултета, Универзитета у Београду одржане 27.3.2019. године, јавио се један кандидат, др Горан Попарић. Кандидат на основу предходно изложених података из биографије и наставно-научног рада, испуњава услове за избор у звање редовног професора, предвиђене Законом о високом образовању Републике Србије, Правилником о условима за стицање звања наставника на Универзитету у Београду и Статутом Физичког факултета.

Научни рад кандидата је резултирао са 29 радова у водећим међународним часописима (са импакт фактором > 1). Укупан импакт фактор тих радова износи 63.65, а средњи импакт фактор по раду је 2.19. Поменти радови су цитирани преко 232 пута без самоцитата и цитата коаутора. Након последњег реизбора у звање ванредног професора кандидат је објавио 4 рада у водећим међународним часописима (са импакт фактором > 1). Кандидат је аутор уџбеника „Основи физике атомских сударних процеса“, а такође и коаутор уџбеника „Увод у акустику“. Учесник је домаћих и међународних научних конференција са усменим и постер презентацијама, као и предавањима по позиву.

Од 2014-2016. године био је ко-председник организационог комитета међународне научне конференције 28th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2016) која је одржана од 29.8.-2.9. 2016. године у Београду.

Од 2016-2018. године био је ко-председник научног комитета међународне научне конференције 29th Summer School and International Symposium on the Physics of Ionized Gases (SPIG 2018) која је одржана од 28.8.-1.9. 2018. године у Београду.

Кандидат има три менторства докторских дисертација које су успешно одбрањене.

Наставна активност кандидата показује способност да развија и унапређује студијске курсеве. Резултат ове активности је увођење нових вежби и нових предмета. Педагошки рад кандидата је одлично оцењен од стране студената 4.80 (средња оцена у предходном периоду).

На основу изложеног, Комисија

ПРЕДЛАЖЕ

Изборном већу Физичког факултета да др Горана Попарића изабере у звање и на радно место РЕДОВНОГ ПРОФЕСОРА за ужу научну област **ФИЗИКА АТОМА И МОЛЕКУЛА** на Физичком факултету Универзитета у Београду.

Београд, 25.4.2019.

Комисија:

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