НАСТАВНО- НАУЧНОМ ВЕЋУ

ФИЗИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

Пошто смо на основу Одлуке декана Физичког факултета, од 04. маја 2026. године, одређени за чланове Комисије за припрему извештаја по расписаном конкурсу за избор једног ДОЦЕНТА за ужу научну област ФИЗИКА ЈОНИЗОВАНИХ ГАСОВА И ПЛАЗМЕ на Физичком факултету у Београду, подносимо следећи

Р Е Ф Е Р А Т

На конкурс за избор једног ДОЦЕНТА за ужу научну област ФИЗИКА ЈОНИЗОВАНИХ ГАСОВА И ПЛАЗМЕ на Физичком факултету у Београду, који је објављен у огласнику НСЗ "ПОСЛОВИ", број 1197, страна 21, од 20. маја 2026. године, благовремено се, са свим потребним документима, пријавио један кандидат, ДР ВЕСНА КОВАЧЕВИЋ, доцент Физичког факултета Универзитета у Београду.

БИОГРАФИЈА, НАСТАВНА И НАУЧНА АКТИВНОСТ

др Весне Ковачевић

1 Основни биографски подаци

Весна Ковачевић је рођена 18.08.1983. године у Тузли, Босна и Херцеговина. Основну школу и гимназију завршила је у Београду. Физички факултет Универзитета у Београду, смер Општа физика, уписала је 2002. године. Дипломирала је са просечном оценом 9,15 09. јула 2007. године. Дипломски рад под називом „Испитивање апсорпције угљен диоксида у диелектричном баријерном пражњењу са Li_4SiO_4 као апсорбером" је урадила под руководством проф. Милорада Кураице у Лабораторији за физику и технологију плазме на Физичком факултету. Докторирала је 22. фебруара 2018. године на Физичком факултету на смеру „Физика јонизованих гасова, плазме и квантна оптика". Докторску дисертацију под називом „Дијагностика и примене диелектричног баријерног пражњења у контакту са водом" урадила је под руководством проф. др Милорада Кураице. Од фебруара 2008. ангажована је на пројекту основних истраживања "Спектроскопска дијагностика плазме у изворима значајним за примене" (ев. бр. 141043), на Физичком факултету, као стипендиста Министарства науке и технолошког развоја. Од септембра 2009. запослена је на Физичком факултету као истраживач приправник на пројекту "Спектроскопска дијагностика плазме у изворима значајним за примене" (ев. бр. 141043). У периоду 2009-2011. година била је ангажована за израду документације и вођење процеса акредитације Лабораторије за физику и технологију плазме на Физичком факултету која је у том периоду акредитована као лабораторија за физичко-хемијска испитивања ваздуха и емисије отпадних гасова. Од јануара 2011. ангажована је на пројекту основних истраживања "Дијагностика и оптимизација извора плазме значајних за примене" (ев. бр. 171034) и пројекту технолошког развоја "Интегрисани системи за уклањање штетних састојака дима и развој технологија за реализацију термоелектрана и енергана без аерозагађења" (ев. бр. 33022). У фебруару 2012. изабрана је у звање истраживач-сарадник на Физичком факултету у оквиру поменутих пројеката. У звање асистента за научну област физика јонизованих гасова и плазме на Физичком факултету у Београду изабрана је у јулу 2013. године, а реизабрана у звање асистента у мају 2016. године. У звање асистент са докторатом за ужу научну област физика јонизованих гасова и плазме изабрана је на Физичком факултету 27. марта 2019. године. У звање доцента за ужу научну област физика јонизованих гасова и плазме изабрана је 29.09.2020. Изборни период је продужен за годину дана због породиљског одсуства од 01.06.2021. до 01.06.2022. У научно звање Виши научни сарадник изабрана је 22.01.2024. Од 2009. године ангажована је на Физичком факултету као сарадник у извођењу наставе а потом као асистент из предмета Физика, лабораторијске вежбе, за студенте Хемијског факултета, Општа физика 3, Општа физика 4, Лабораторија физике 3 и Лабораторија физике 4 у извођењу рачунских и експерименталних вежби за студенте Физичког факултета. Од школске 2020/2021 предметни је наставник на предметима Лабораторија физике 3 и Лабораторија физике 4 за студенте основних студија Физичког факултета (Општа физика, Теоријска и експериментална физика, Примењена физика и информатика), као и на курсу Лабораторија физике 4 за студенте Математичког факултета, смер Астрофизика. Од 2024/2025 држи рачунске вежбе из предмета Електромагнетизам и Таласи и оптика за студенте Математичког факултета, смер Астрофизика. На докторским студијама предметни је наставник на предмету Примена плазме у биологији и медицини. Аутор је помоћног уџбеника „Збирка одабраних решених задатака из Оптике“. Била је ментор једног мастер рада и једне докторске дисертације. Област научно-истраживачког рада Весне Ковачевић је дијагностика и примена извора нискотемпературне плазме на атмосферском притиску. Коаутор је 24 рада у међународним часописима са укупним импакт фактором преко 80. Радови су јој цитирани преко 900 пута без аутоцитата и цитата коаутора и Хиршов индекс јој је 15. Такође је објавила преко 65 саопштења на међународним конференцијама и одржала 3 предавања по позиву на међународним научним скуповима. У периоду од септембра до децембра 2011. била је на стручном усавршавању на институту The Leibniz Institute for Plasma Science and Technology (INP Greifswald), Greifswald, у Немачкој, у групи којом руководи професор Рони Брандербург. Поред тога учествовала је на пројекту сарадње са привредом, учествује или је учествовала на пројектима билатералне међународне сарадње између Србије и Немачке, Француске, Белорусије и Кине, на међународном пројекту COST и била је члан организационог комитета неколико међународних конференција. Руководила је научним пројектом билатералне сарадње Физичког факултета и Политехничке школе из Париза, Француска. Учествовала је на пројекту ATTOPLASMAS (ев. бр. 7750277) који је финансирао Фонд за науку Републике Србије у оквиру програма Идеје. Захваљујући дугогодишњем раду др Ковачевић на истраживању и примени пражњења у контакту са течностима, уреднички тим часописа J. Phys. D: Appl. Phys. ју је позвао да напише прегледни рад на ову тему, који је објављен 2022. године, што се сматра посебном врстом признања.

2 Наставна активност

Наставну активност започела је 2009. године на Физичком факултету као сарадник у извођењу наставе. Школске 2009/2010. и 2010/2011. године држала је експерименталне вежбе из предмета Физика за студенте Хемијског факултета. Од школске 2011/2012. године држи рачунске вежбе из предмета Општа физика 3 и Општа физика 4, за студенте Физичког факултета. Од школске 2013/2014. године ради као асистент на предметима Општа физика 3, Општа физика 4, Лабораторија физике 3 и Лабораторија физике 4 у извођењу рачунских и експерименталних вежби за студенте Физичког факултета. Са студентима има коректан однос и добру комуникацију. На рачунским вежбама из предмета Општа физика 3 и Општа физика 4 увела је нове задатке. У оквиру предмета Лабораторија физике 3 и Лабораторија физике 4 током школске 2013/2014 и 2014/2015 заједно са осталим колегама ангажованим на извођењу наставе из ових предмета и предметним наставником радила је на унапређењу експерименталних вежби и активно учествовала у постављању седам нових лабораторијских вежби као и писању припремних текстова за вежбе. Написала је припремне текстове за две експерименталне вежбе: Струјна вага и Образовни спектрофотометар са призмом. Била је члан комисије за одбрану три мастер рада на Физичком факултету. Активно је учествовала и помагала у реализацији два мастер рада који су урађени у Лабораторији за физику и технологију плазме на Физичком факултету. Ангажована је у припремној настави за талентоване ученике на Физичком факултету за такмичење на Олимпијади из физике.

Након избора у звање доцента, од школске 2020/2021, предметни је наставник на предметима Лабораторија физике 3 и Лабораторија физике 4 за студенте основних студија Физичког факултета (Општа физика, Теоријска и експериментална физика, Примењена физика и информатика), као и на курсу Лабораторија физике 4 за студенте Математичког факултета, смер Астрофизика. Од 2024/2025 држи рачунске вежбе из предмета Електромагнетизам и Таласи и оптика за студенте Математичког факултета, смер Астрофизика. На докторским студијама предметни је наставник на предмету Примена плазме у биологији и медицини. Аутор је помоћног уџбеника „Збирка одабраних решених задатака из оптике“ који се користи на предмету Општа физика 4, након што је Наставно-научно веће Физичког факултета Универзитета у Београду на седници одржаној 25.03.2026. године усвојило његову рецензију. Била је члан комисије за одбрану три мастер рада на Физичком факултету. Руководила је израдом једног мастер рада на Физичком факултету. Ментор је једне докторске дисертације урађене у сарадњи Хемијског факултета и Физичког факултета. Ментор је докторских студија из области физике јонизованих гасова и плазме студенту који код ње ради докторску дисертацију. Активно је учествовала и помагала у реализацији два мастер рада који су урађени у Лабораторији за физику и технологију плазме на Физичком факултету. Учествовала је у популаризацији физике на Физичком факултету. Ангажована је у припремној настави кроз експерименталне вежбе за талентоване ученике на Физичком факултету за такмичење на Олимпијади из физике.
Према подацима из Студентске службе Физичког факултета (подаци прикупљени 05.03.2026.) просечна оцена педагошког рада доц. др Весне Ковачевић добијена у анонимним студентским анкетама током целокупног протеклог изборног периода износи 4,78.

Менторство:

Мастер студије:

1) Руководила је израдом једног мастер рада на Физичком факултету
Кандидат: Симеон Раденковић
Назив рада: „Испитивање утицаја пакованог слоја и радних параметара на генерисање озона у диелектричном баријерном пражњењу“ (Усвојена тема мастер рада на седници Изборног и Наставно-научног већа одржаној 15.05.2024.)
Датум одбране: 30.09.2024.

Докторске студије:

1) Ментор докторских студија на Физичком факултету од октобра 2024. године, Научна област: Физика јонизованих гасова и плазме, кандидат: Симеон Раденковић, тренутно је друга година докторских студија, запослен као истраживач-приправник у Лабораторији за физику и технологију плазме на Физичком факултету.
Развој новог правца истраживања кроз менторство на докторату: Испитивање динамике пражњења у реакторима са пакованим слојем- утицај диелектрика, карактеристике пражњења, интеракција плазме са површинама (гранични слојеви, површински процеси), плазма хемија.
2) Ментор докторске дисертације на Хемијском факултету Универзитета у Београду
Кандидат: Слађана Савић Јовановић
Тема: „Унапређени оксидациони процеси за деградацију пропранолола у води“
Ментори:
др Горан Роглић, редовни професор Универзитета у Београду- Хемијског факултета
др Весна Ковачевић, доцент Универзитета у Београду- Физичког факултета
Прихваћена тема докторске дисертације и одређени ментори на Већу научних области природних наука на седници одржаној 27.02.2025.
Датум одбране: 19.06.2026.

Уџбеник:

Др Весна Ковачевић је аутор помоћног уџбеника.
Аутор: Весна В. Ковачевић
Наслов: „Збирка одабраних решених задатака из оптике“, рецензирани помоћни уџбеник, ISBN 978-86-84539-47-4

3 Научна активност

Научна активност кандидаткиње др Весне Ковачевић везана је за дијагностику и примену нискотемпературних извора плазме на атмосферском притиску. Истраживање се одвија у неколико праваца:

- Дијагностика и примена диелектричног баријерног пражњења на атмосферском притиску у контакту са водом

- Истраживање плазмених млазева у племенитим гасовима

- Примена гасних пражњења за третман емисионих гасова

- Примена диелектричног баријерног пражњења за функционализацију графена и нанотуба

- Истраживање нискотемпературних електричних гасних пражњења у контакту са течностима

- Генерисање високих хармоника за потребе истраживања физике атомских процеса на атосекундној временској скали

Доц. др Весна Ковачевић у изборном периоду је објавила и један ревијални рад објављен у часопису Journal of Physics D: Applied Physics, написан по позиву часописа:
V. V. Kovačević, G. B. Sretenović, B. M. Obradović, M. M. Kuraica, Low-temperature plasmas in contact with liquids—a review of recent progress and challenges, *J. Phys. D: Appl. Phys.* 55 (2022) 473002

3.1 Публикације

Кандидаткиња је до сада објавила 24 рада у међународним часописима и са укупним импакт фактором 80,647 (ORCID ID: 0000-0002-8575-1668; Scopus). Број радова објављених у међународним часописима са импакт фактором већим од 1 је 23, а њихов укупни импакт фактор је 79,845. Према индексној бази *Scopus* (приступљено 03.06.2026.) има укупно 1090 цитата, односно 943 цитата без аутоцитата и цитата свих коаутора. Према овој бази, Хиршов индекс кандидаткиње износи 15.

Према класификацији Министарства науке, технолошког развоја и иновација објављени радови припадају категоријама М21а+, М21а, М21, М22 и М23. Од 24 радова, 23 рада су објављена у међународним часописима са импакт фактором већим од 1. Један рад је објављен у часопису који припада категорији М21а+, 7 радова је објављено у категорији М21а, 11 радова је објављено у категорији М21, 4 рада су објављена у часописима који припадају категорији М22, 1 рад је објављен у часопису категорије М23. Од избора у звање доцента објавила је шест радова у међународним часописима, од чега је један ревијални рад, једанаест саопштења на међународним скуповима и одржала једно предавање по позиву на међународном скупу. Сви радови објављени су у реномираним часописима (*J. Phys. D: Appl. Phys., Plasma Sources Sci. Technol., Appl. Phys. Lett., Phys. Rev. E*, итд.) међународних издавача са дугом традицијом („IOP Publishing, AIP publishing, Wiley, Elsevier, Springer, IEEE“). Учествовала је на већем броју међународних конференција са преко 65 радова представљених на усменим и постер презентацијама. Аутор је 3 предавања по позиву и 2 усмена излагања на међународним конференцијама. Одржала је предавање по позиву на Универзитету у Падови, Департман за хемију, под називом „Diagnostics and applications of water falling film dielectric barrier discharge “. Рецензент је у истакнутим међународним часописима из области физике плазме.

3.2 Учешће на научним пројектима и међународна сарадања

У току досадашњег рада Весна Ковачевић је учествовала на пет националних пројекта, једном међународном пројекту и десет пројеката билатералне сарадње. Развија сарадњу која је верификована кроз заједничке радове и пројекте са колегама из више познатих светских центара за физику нискотемпературне плазме. Поред колега са Физичког факултета унутар земље блиско сарађује са колегама са Хемијског факултета Универзитета у Београду (истраживачке групе проф. др Горана Роглића и проф. др Драгана Манојловића). Сарадњу има и са колегама са Института за Физику у Београду (група др Миливоја Ивковића), са Технолошко-металуршког факултета Универзитета у Београду (проф. др Немања Тришовић) и Електротехничког факултета Универзитета у Београду (проф. др Слободан Вукосавић, проф. др Јован Цветић).

Руководилац је научног пројекта у оквиру програма „Павле Савић“ (програм сарадње „Партнерство Hubert Curien“ (PHC) између Републике Србије и Републике Француске у области научних и технолошких истраживања) за 2020-2021., под називом „PIANO: Plasma-activated conversion of CO_2 – influence of plasma processing parameters and reactor design“. Партнери на пројекту су Универзитет у Београду – Физички факултет и Лабораторија за физику плазме Политехничке школе у Паризу (Laboratoire de Physique des Plasmas (LPP), Ecole Polytechnique, Paris). Руководилац са француске стране је др Оливије Гајтел (Oliver Guaitella).

<u>Национални пројекти:</u>

2022-2024 „Attosecond VUV-XUV-SXR Beamline for Ultrafast Spectroscopies of Electron Dynamics in Gases and Plasmas – ATTOPLASMAS“, пројекат финансиран од стране Фонда за науку Републике Србије у оквиру програма Идеје под руководством др Предрага Ранитовића (е. б. 7750277)

2011 – 2019 *„Дијагностика и оптимизација извора плазме значајних за примене“*, пројекат основних истраживања Министарства просвете, науке и технолошког развоја под руководством проф. др Милорада Кураице (е. б. 171034)

2011 – 2019 *„Интегрисани системи за уклањање штетних састојака дима и развој технологија за реализацију термоелектрана и енергана без аерозагађења“*, пројекат технолошког развоја Министарства просвете, науке и технолошког развоја под руководством проф. др Слободана Вукосавића (е. б. 33022)

2008 – 2010. *„Спектроскопска дијагностика плазме у изворима значајним за примене”*, пројекат Министарства науке и технолошког развоја реализован на Физичком факултету под руководством проф. др Милорада Кураице (е. б. 141043)

2007 – 2008. *„Лабораторијска испитивања у реалним условима у циљу смањења емисије штетних гасова SO_2 и NO_x насталих сагоревањем колубарских лигнита у ТЕНТ-у”*, пројекат реализован у сарадњи са термоелектраном "Никола Тесла" под руководством проф. др Милорада Кураице

<u>Међународни пројекти и сарадња:</u>

Листа научноистраживачких институција са којима је остварена сарадња и верификована кроз заједничке публикације и пројекте:

1. Leibniz Institute for Plasma Science and Technology (INP Greifswald) (Немачка),
2. Institute for Physics, University of Greifswald, Greifswald (Немачка),
3. Ecole Polytechnique, Paris (Француска),
4. Eindhoven University of Technology (Холандија),
5. GREMI Laboratory, University of Orleans (Француска),
6. B.I. Stepanov Institute of Physics of the NASB (Белорусија),
7. Zhejiang University (Кина) и
8. University of Michigan (САД)
9. University of Padova, Department of Chemical Sciences (Италија)

2014 – 2017. учешће на међународном пројекту CMST COST Action TD1208- “Electrical discharges with liquids for future applications“.

<u>Учешће у пројектима међународне билатералне сарадње:</u>

2022 – 2024 „*Израда стерилизатора за личну заштитну опрему заснованог на електричним пражњењима у ваздуху на атмосферском притиску*“, у сарадњи са Институтом физике „Б.И.Степанов“ Националне академије наука Белорусије, Минск, (Белорусија)

2020 – 2021 „*Конверзија CO_2 активирана плазмом – побољшање енергетске ефикасности оптимизацијом процеса конверзије (PIANO)*“, у сарадњи са Laboratoire de Physique des Plasmas (LPP), Ecole Polytechnique, Париз, (Француска)

2019 – 2020. *„Дијагностика микропражњења са течном електродом“* у сарадњи са Leibniz Institute for Plasma Science and Technology (INP Greifswald), Greifswald, (Немачка)

2018 – 2019. *„Развој извора плазмених млазева на атмосферском притиску метода њихове примене за инактивацију епидермијски значајних микробиота у болницама“*, у сарадњи са Институтом физике „Б.И.Степанов“ Националне академије наука Белорусије, Минск, (Белорусија)

2018 – 2019. *„Уклањање испарљивих органских једињења коришћењем диелектричног баријерног пражњења“*, у сарадњи са Универзитетом Џеђанг (Zhejiang University) из Хангџоуа у Кини, (Кина)

2016-2017 *„Комплементарна, напредна дијагностика јачине електричног поља у плазменим млазевима који се користе у биолошке и медицинске сврхе“*, у сарадњи са колегама из Француске, GREMI Laboratory, University of Orleans, (Француска)

2016 – 2017. *„Нове дијагностичке методе у истраживању плазма млазева“* у сарадњи са Leibniz Institute for Plasma Science and Technology (INP Greifswald), Greifswald, (Немачка)

2014 – 2015. *„Испитивање физичких и хемијских процеса у неравнотежним плазмама на атмосферском притиску применом напредних дијагностичких метода“* у сарадњи са Институтом за физику у Грајфсвалду (Institute for Physics, University of Greifswald, Greifswald) (Немачка)

2014 – 2015. *„Инактивација клинички значајних микроорганизама и њихових конзорцијума деловањем неравнотежне плазме на атмосферском притиску“*, у сарадњи са Институтом физике „Б.И.Степанов“ Националне академије наука Белорусије, (Белорусија)

2012 – 2013. *„Деконтаминација површина и водених раствора деловањем неравнотежне плазме на атмосферском притиску“*, у сарадњи са Институтом физике „Б.И.Степанов“ Националне академије наука Белорусије, (Белорусија)

<u>Студијски боравци и усавршавања у иностранству:</u>

Др Весна Ковачевић је до сада реализовала више студијских боравака у иностранству:

октобар – новембар 2019. стручно усавршавање у институту The Leibniz Institute for Plasma Science and Technology (INP Greifswald), Greifswald, у Немачкој, у групи којом руководи Prof. Dr. Ronny Brandenburg (DAAD)

децембар 2017. - институт The Leibniz Institute for Plasma Science and Technology (INP Greifswald), Greifswald, у Немачкој, у групи којом руководи Prof. Dr. Ronny Brandenburg (DAAD)

фебруар 2017. - Лабораторија за физику плазме у Политехничкој школи у Паризу (Laboratoire de Physique des Plasmas (LPP), Ecole Polytechnique, Université Paris Sud 11, CNRS, Palaiseau, France) у групи којом руководи Dr. Olivier Guaitella

новембар – децембар 2016. GREMI Laboratory, Université d'Orléans, у Француској, у групи којом руководи Dr. Jean-Michel Pouvesle

октобар 2016. институт The Leibniz Institute for Plasma Science and Technology (INP Greifswald), Greifswald, у Немачкој у групи којом руководи Prof. Dr. Ronny Brandenburg (DAAD)

септембар 2014. Institute for Physics, University of Greifswald, Greifswald, у Немачкој у групи којом руководи Prof. Dr. Jürgen Meichsner (DAAD)

септембар 2011. – децембар 2011. у институту The Leibniz Institute for Plasma Science and Technology (INP Greifswald), Greifswald, у Немачкој, у групи којом руководи Prof. Dr. Ronny Brandenburg

- Учествовала је на преко 30 међународних конференција и стручних радионица.

Признања

1. Избор рада *Spatio-temporally resolved electric field measurements in helium plasma jet* од стране уредника часописа Journal of Physics D: Applied Physics у листу Highlights of 2014. О врсти признања најбоље сведочи цитат из описа са интернет странице часописа: *„Our annual selection represents the breadth and excellence of the work published in the journal. These articles include outstanding new research in a paper or a Letter (LET), well-received topical reviews and special issue articles. The articles were selected for the high praise received from referees, presentation of outstanding research and popularity with our online readership.“*
   Линк: http://iopscience.iop.org/0022-3727/page/Highlights-of-2014

2. Рад V.V. Kovačević et al. *Journal of Physics D: Applied Physics*, 51 (2018) 065202 налази се на листи најцитиранијих радова тог часописа током 2019. године.
   Линк: https://iopscience.iop.org/journal/0022-3727

3. Позив уредничког одбора часописа Journal of Physics D: Applied Physics за публиковање тематског прегледног рада на тему интеракције плазме са течностима.
   V. V. Kovačević, G. B. Sretenović, B. M. Obradović, M. M. Kuraica, Low-temperature plasmas in contact with liquids—a review of recent progress and challenges, *J. Phys. D:Appl. Phys.* **55** (2022) 473002

4. Од стране издавачке куће IOP Publishing додељено јој је признање IOP Trusted Reviewer status, којим се потврђује изузетно висок ниво компетенције у процесу рецензирања научних радова.

5. Доц. др Весна Ковачевић је придружени члан британског друштва физичара: Institute of Physics – IOP у које је позвана као рецензент од поверења: IOP Publishing – Trusted reviewer; за којег је проглашена због квалитета рецензија које је радила за овог издавача.

3.3 Остале академске активности:

<u>Рецензије</u>

Доц. др Весна Ковачевић до сада има 57 верификованих рецензија за 40 радова у угледним часописима из области физике:

Applied Physics Letters (AIP Publishing)

Plasma Sources Science and Technology (IOP Publishing)

Journal of Physics D: Applied Physics (IOP Publishing)

Plasma Chemistry and Plasma Processing (Springer)

IEEE Transactions on Plasma Science (IEEE)

Physics of Plasmas (AIP Publishing)

AIP Advances (AIP Publishing)

Journal of Plasma Physics (Cambridge Univ Press)

Journal of Food Processing and Preservation (WILEY)

- Од стране издавачке куће IOP Publishing додељено јој је признање IOP Trusted Reviewer status, којим се потврђује изузетно висок ниво компетенције у процесу рецензирања научних радова.

- Рецензент је националног пројекта Чешке Републике финансираног од стране Чешке научне фондације (Czech Science Foundation, project proposal No. 18-178xxx).

- Рецензирала је два пројекта међународне билатералне сарадње на позив Министарства просвете, науке и технолошког развоја Републике Србије

<u>Члан организационог комитета међународних и националних научних скупова:</u>

Др Весна Ковачевић је до сада учествовала у организацији следећих међународних научних скупова:

- 12th Workshop on Frontiers in Low Temperature Plasma Diagnostics (FLTPD XII), 23-27 April, 2017, Zlatibor, Serbia

- 28th Summer School and International Symposium on the Physics of Ionized Gases (SPIG), August 29- September 2, 2016, Belgrade, Serbia

- 4th Central European Symposium on Plasma Chemistry (CESPC), 12.-25.08.2011., Zlatibor, Serbia

- 25th Summer School and International Symposium on the Physics of Ionized Gases (SPIG), 30.08.- 03.09. 2010. Donji Milanovac, Serbia

Весна Ковачевић била је члан организационог комитета националних научних скупова:

- XII Конгреса физичара Србије, од 28. априла до 2. маја 2013. године у Врњачкој Бањи, Србија

- XXXI Републички семинар о настави физике, од 30. априла до 2. маја 2013. године у Врњачкој Бањи, Србија

Члан је Друштва физичара Србије.

4 Преглед научних резултата

Област научноистраживачког рада др Весне Ковачевић је конструкција, дијагностика и примена извора нискотемпературне плазме на атмосферском притиску. Истраживање се одвија у неколико праваца:

H1. Дијагностика и примена диелектричног баријерног пражњења на атмосферском притиску у контакту са водом

H2. Истраживање плазмених млазева у племенитим гасовима

H3. Примена гасних пражњења за третман емисионих гасова

H4. Примена диелектричног баријерног пражњења за функционализацију графена и нанотуба

H5. Истраживање нискотемпературних електричних гасних пражњења у контакту са течностима

H6. Генерисање високих хармоника за потребе истраживања физике атомских процеса на атосекундној временској скали

Главни правац истраживања др Весне Ковачевић је физика нискотемпературне плазме на атмосферском притиску, са фокусом на дијагностику и примену електричних пражњења у контакту са течностима.

H1. Дијагностика и примена диелектричног баријерног пражњења са падајућим воденим филмом на атмосферском притиску

Нискотемпературна плазма у течностима и у контакту са течностима представља новију област истраживања која се развила у последњих двадесетак година, а највише због бројних могућности примене као што су деградација загађивача у отпадним водама, инактивација микроорганизама и активација воде за одложену примену. У оригиналној конструкцији плазма реактора базираног на диелектричном баријерном пражњењу (ДБП) са падајућим воденим филмом неравнотежна, хемијски веома активна плазма формира се у гасној фази, а завршава на површини течности. Комплексност интеракције плазма-течност захтева анализу како гасне тако и течне фазе. У оквиру истраживања урађена су електрична мерења и емисиона спектроскопија у плазми формираној у ваздуху, азоту, кисеонику, аргону и хелијуму [A12, A4]. Такође, испитиван је утицај плазме и радног гаса на формирање активних хемијских врста у течној фази (хидроксил радикал, водоник-пероксид, нитрати, нитрити, озон) и ефикасност у различитим применама [A15, A12, A9, A6, A4]. Анализа гасне фазе FTIR спектроскопијом дала је јаснији увид у формирање молекулских врста у плазми генерисаној у ваздуху у присуству воденог филма и без воденог филма, што заједно са мерењима хемијских врста формираних у течности даје потпунији увид у интеракцију плазме и воде [A4]. Оваква конфигурација испољила је изузетну ефикасност при деградацији испарљивих органских једињења, толуена и тврдокорних нафтних деривата, нпр. андекана у гасној фази [A4]. У сарадњи са INP Greifswald испитана је примена поменутог извора плазме у биомедицини. ДБП са воденим филмом показао је изузетну ефикасност у стерилизацији воде и инактивацији неких врста микроорганизама (E. Coli, S. Aureus). Урађено је и истраживање уклањања различитих загађујућих супстанци у воденој фази које представљају велики проблем у третману отпадних и пијаћих вода. Испитан је утицај различитих хомогених катализатора и њихове дозе на процес деградације хербицида мезотриона [A6], фармацеутског једињења ибупрофена [A9] и никотина [A15] у ДБП-у са воденим филмом. Коришћењем савремене опреме HPLC-DAD и HPLC-Orbitrap-MS одређена је ефикасност и производи деградације за сваки систем и испитана је њихова токсичност. У испитиваним процесима показана је изузетна ефикасност при деградацији штетних једињења, али и ниска токсичност коначних продуката деградације.

Рад [A20] се бавио разградњом пропранолола, бета блокатора, једног од 100 лекова који су најчешће преписивани у свету. Овај лек се добро метаболише у људском организму, али због обима примене извесне количине заврше у отпадним водама које даље загађују животну средину па се може детектовати у различитим концентрацијама у површинским водама, рекама, морима и океанима. Због тога представља биохазард који захтева развој технологија за његову безбедну разградњу. У поменутом раду је показано по први пут да се ово једињење може успешно уклонити уз помоћ плазме, конкретно, диелектричног баријерног пражњења, што га је и квалификовало за објављивање у часопису са високим фактором утицаја.

Из овог правца истраживања објављено је шест радова у којима је кандидаткиња учествовала у осмишљавању и дизајну експеримента, експерименталним мерењима, обради и тумачењу резултата и у писању.

H2. Истраживање плазмених млазева у племенитим гасовима

Испитивања плазма џета генерисаног у племенитим гасовима на атмосферском притиску, како експериментално тако и теоријски, у последњих неколико година привукло је пажњу великог броја истраживачких група. Подстрек опсежним истраживањима пружила је перспективна примена у области биомедицине, где је показано селективно деловање на непожељне промене живих ћелија. Применом Штаркове поларизационе спектроскопије линија хелијума измерена је расподела електричног поља у плазма џету, приказани су и резултати мерења расподеле ротационих температура и интензитета линија хелијума и водоника у плазма џету [A1, A2]. Стримерске карактеристике плазменог млаза су посматране током позитивног полупериода примењеног напона, док се у негативном полупериоду пражњење понаша слично тињавом пражњењу на атмосферском притиску. Ово су прва мерења електричног поља у плазма џету која се могу наћи у литератури и показују одлично слагање са теоријским моделом из литературе, а пре свега са очекиваном расподелом електричног поља на оси пражњења. Посматран је и просторно временски развој јачине електричног поља. Утврђено је да се плазмени млаз који увире у ваздух, и нема уземљену електроду постављену неколико центиметара низ струју гаса, понаша као катодно усмерени стример. Са друге стране, плазмени млаз који је у контакту са уземљеном електродом има развој аналоган развоју микропражњења у ваздуху. Такође, демонстрирана је директна веза између јачине електричног поља и брзине стримера [A8]. Модел изоловане главе стримера базиран на Миковом критеријуму за прелаз лавине у стример је коришћен за опис пропагације стримера у мешавини хелијума и ваздуха. Добијени резултати су показали задовољавајуће слагање, како са резултатима флуидних модела, тако и са експерименталним резултатима испитивања плазмених млазева [A7]. У детаљној студији хелијумовог плазменог млаза урађено је параметарско испитивање утицаја брзине протока радног гаса и положаја и типа мете на расподелу јачине електричног поља [A17, A11, A16, A14, A13]. Поред Штаркове поларизационе спектроскопије коришћена је и шлиренова визуелизација протока гаса. Добијени су значајни резултати који демонстрирају пресудан утицај протока гаса и положаја мете на јачину електричног поља. Показано је да промена једноставних параметара као што је проток радног гаса може се користити за регулисање јачине електричног поља. Развијен је нови приступ за квантитативну анализу интеракције плазменог млаза и гасне струје у плазменим млазевима на атмосферском притиску [A16]. Метода мерења демонстрирана у овом раду је даље искоришћена за одређивање доминантних механизама интеракције плазме и струје гаса [A18]. Показано је да су основни механизми ове интеракције електрохидродинамичка сила и термални механизам изазван брзим локалним загревањем гаса. Зависно од експерименталних услова, ова два ефекта могу деловати у истом или у супротном правцу потирући се. Објављен је и прегледни рад који се бави коришћењем Штарковог померајa у дијагностици плазме [A10] као и прегледни рад у коме су представљене спектроскопске методе за мерење јачине електричног поља за гасна пражњења на атмосферском притиску у хелијуму [A24]. У раду [A23] је по први пут експериментално уочен и описан „стример са две главе“ (“double-headed streamer, DHS”), феномен до тада познат само из теоријских и нумеричких модела. Генерисањем пражњења без електрода у племенитим гасовима добијен је репродуцибилан DHS, коришћен као модел за експерименталну анализу. Мерењем брзина пропагације и применом Штаркове поларизационе спектроскопије први пут су одређене јачине електричног поља у обе главе стримера, укључујући и негативни стример у племенитом гасу.

Из овог правца истраживања објављено је тринаест радова у којима је кандидаткиња учествовала у осмишљавању и дизајну експеримента, експерименталним мерењима, обради и тумачењу резултата, као и у писању.

H3. Примена гасних пражњења за третман емисионих гасова

Један део научних активности усмерен је на примену диелектричног баријерног пражњења (ДБП) и корона пражњења на атмосферском притиску за третман емисионих гасова из различитих извора загађења. У оквиру сарадње са привредом реализован је експеримент у реалним условима, осмишљено је и реализовано неколико варијанти плазма реактора, сопствени електростатички таложник и мокри амонијачни скрубер. Урађени су упоредни тестови при директном и индиректном третману димног гаса помоћу плазма реактора конструисаног као батерија од 16 паралелно везаних ДБП. Поред тога, компактна конструкција ДБП-а са воденим филмом показала је изузетну ефикасност у деградацији испарљивих органских једињења у емисионом гасу. Показало се да водени филм у коме се растварају производи оксидације из гасне фазе може имати улогу скрубера и значајно смањити концентрације резидуалних једињења у излазној гасној струји [A4]. У публикацији [A3] описан је лабораторијски модел плазма реактора за третман димних гасова на бази импулсног корона пражњења и дате су његове електричне и спектроскопске карактеристике. Намена оваквог пражњења је третман штетних гасова који се емитују првенствено из електрана, дакле азот-моноксида и сумпор-диоксида. За те потребе је конструисано напајање на принципу Марксовог генератора са типичним карактеристикама: напон од 60 kV, време раста сигнала од 40 ns и трајање сигнала од 300 ns. Ефикасност реактора заједно са извором напајања тестирана је преко његове ефикасности у производњи озона и оксидацији азот-моноксида. Започето је истраживање плазмом потпомогнуте конверзије угљен- диоксида и оптимизација параметара плазме и дизајна реактора за ефикасну редукцију CO_2 у CO применом диелектричног баријерног пражњења са воденим филмом.

Поред претходно наведеног рада [A4], објављен је и рад који се тиче употребе импулсног корона пражњења. Кандидаткиња је учествовала у обради, тумачењу и презентацији резултата и писању самог рада.

Н4. Примена диелектричног баријерног пражњења за функционализацију графена и нанотуба

У овом експерименту су третиране вишезидне угљеничне нанотубе и графен у кисеоничној плазми добијеној помоћу диелектричног баријерног пражњења на атмосферском притиску. Показано је да се функционализација ових материјала може постићи применом диелектричног баријерног пражњења без промене њихове структуре. Резултати су објављени у једном раду у коме је др Ковачевић учествовала у конструкцији пражњења и дијагностици коришћеног за третман и у писању дела рада који се односи на само пражњење.

Н5. Истраживање нискотемпературних електричних гасних пражњења у контакту са течностима

Нискотемпературна електрична гасна пражњења на атмосферском притиску завређују пажњу научне заједнице и ширег аудиторијума због њиховог потенцијала за ефикасан третман температурно осетљиве материје у коју се убраја и третман живог ткива. Ту се посебно истиче примена ових пражњења у биологији, медицини и пољопривреди. Интеракција плазме са живом материјом се у првој апроксимацији може свести на интеракцију са течностима, јер течност представља највећи проценат живог ткива. Кандидаткиња је дала значајан допринос испитивању интеракције плазме са течностима који је препознат у свету и огледа се у високој цитираности њених радова који се баве овом тематиком. То су целовита истраживања диелектричног баријерног пражњења са воденом електродом [A12] и плазменог млаза у контакту са течном метом [A14]. На основу ових радова, др Ковачевић је добила позив од угледног часописа Journal of Physics D: Applied Physics за објављивање тематског прегледног рада на тему интеракције плазме са течностима. Са групом својих колега кандидаткиња је припремила и објавила обимнији материјал који обухвата преглед постигнућа у овој области од 2015. године [A19]. Рад садржи преглед нових конструкција пражњења, примењених дијагностичких метода и метода које би се могле применити, као и преглед иновативних примена ових система које су предложене у последњем периоду. Др Ковачевић је осмислила структуру рада коју је прихватио уреднички одбор часописа и учествовала у писању поменутог рада.

Из сарадње са Департманом за хемију, Универзитета у Падови, проистекла су два рада [A21] и [A22], која се баве истраживањем генерисања атмосферског пражњења над водом високе електронске концентрације, које достиже концентрације изнад

10^{18} cm^{-3} при енергијама импулса од само 40 mJ, што представља јединствен резултат у физици јонизованих гасова. Радијално импулсно пражњење које се карактерише простирањем по самој површини течности анализирано је уз помоћ просторно и временски разложене оптичке емисионе спектроскопије. Због специфичности механизма простирања по површини течности овакво пражњење је показало високу ефикасност у третману сурфактаната као што су тритон и перфлуороалкилне супстанце.

Н6. Генерисање високих хармоника за потребе истраживања физике атомских процеса на атосекундној временској скали

Након избора у звање доцента, кандидаткиња се укључила у потпуно нову област истраживања која се темељи на физици ласера и стварању хармоника високог реда са ултракратким трајањем. Овако генерисани хармоници могу се применити у проучавању атомске физике на атосекундним временским размерама. Истраживања се спроводе у оквиру пројекта ATTOPLASMAS (Фонд за науку РС) под руководством др Предрага Ранитовића, чиме је ова врхунска тема први пут започета у Србији. Рад је обухватио изградњу инфраструктуре, набавку фемтосекундског ласера и оптичког параметарског појачавача, адаптацију спектрометра за VUV област, те конструисање апаратуре за генерисање високих хармоника. Током 2024. добијени су релевантни експериментални резултати, успешно репродуковани теоријским моделима сарадника са универзитета у Конектикату (САД) и Цукуби (Јапан). У припреми су публикације, а у току су експерименти интеракције VUV зрака са атомима гасова.

5 Списак публикација

А Радови у међународним часописима

Радови у водећим међународним часописима (ИМПАКТ>1)

[A1] Sretenović G B, Krstić I B, Kovačević V V, Obradović B M and Kuraica M M, Spectroscopic measurement of electric field in atmospheric-pressure plasma jet operating in bullet mode *Appl. Phys. Lett.* **99** (2011) 161502 (IF 3,844; M21a) DOI: 10.1063/1.3653474

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Г. Радови у зборницима домаћих конференција

Нема.

Д. Радови у домаћим часописима

Нема.

Е. Магистарски и докторски рад

Докторска дисертација „Дијагностика и примене диелектричног баријерног пражњења у контакту са водом", одбрањена 22.02.2018., Физички факултет, Универзитет у Београду

6 Цитати

Списак цитата на основу података доступних у индексној бази Scopus на дан 03.06.2026.:

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З А К Љ У Ч А К

На основу поднете документације и чињеница наведених у овом извештају, Комисија закључује да др Весна Ковачевић, доцент Физичког факултета, испуњава све квантитативне и квалитативне услове за избор у звање доцента сагласно конкурсом прописаним условима. Др Ковачевић се активно бави научним радом из области физике јонизованих гасова и плазме, до сада је објавила 24 рада (1 у категорији М21а+, 7 у категорији М21а, 11 у категорији М21, 4 у категорији М22, 1 у категорији М23) у водећим међународним часописима, од тога 23 са импакт фактором већим од 1. Укупни импакт фактор радова износи 80,647 и *h-index* износи 15. Објављени радови цитирани су 943 пута без аутоцитата и цитата коаутора. Учествовала је на већем броју међународних конференција са преко 65 радова представљених на усменим и постер презентацијама. Одржала је 3 предавања по позиву на међународним конференцијама и једно предавање по позиву на универзитету у иностранству. Кандидаткиња има дугогодишње искуство у педагошком раду са студентима, а просечна оцена педагошког рада доц. др Весне Ковачевић добијена у анонимним студентским анкетама током целокупног протеклог изборног периода износи 4,78. Др Ковачевић је аутор рецензираног универзитетског уџбеника из области физике. Кандидаткиња је била члан комисије за одбрану три мастер рада, руководила је израдом једном мастер рада и једне докторске дисертације. Др Ковачевић је учествовала у више националних и међународних научних пројеката. Руководилац је научног пројекта билатералне сарадње Србије и Француске. Др Весна Ковачевић има успешну међународну сарадњу са колегама из истакнутих научноистраживачких институција, рецензент је у међународним часописима из области физике, континуирано се усавршава на студијским боравцима у иностранству и учествовала је у организацији међународних научних скупова. Комисија сматра да доцент др Весна Ковачевић задовољава све критеријуме за избор у звање доцента на Физичком факултету Универзитета у Београду. Због тога Комисија са задовољством

П Р Е Д Л А Ж Е

Изборном већу Физичког факултета у Београду да доцента др Весну Ковачевић изабере у звање и на радно место ДОЦЕНТА Физичког факултета Универзитета у Београду за ужу научну област ФИЗИКА ЈОНИЗОВАНИХ ГАСОВА И ПЛАЗМЕ.

У Београду, 24.08.2026.

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