

**Табела. 9.8** Компетентност ментора

<b>Име и презиме</b>		Владимир Милосављевић		
<b>Звање</b>		редован професор		
<b>Ужа научна, уметничка односно стручна област</b>		Физика јонизованих гасова и плазме		
<b>Академска каријера</b>	Година	Институција	Ужа научна, уметничка односно стручна област	
Избор у звање	2015	Физички факултет, Универзитет у Београду	Физика јонизованих гасова и плазме	
Докторат	2001	Физички факултет, Универзитет у Београду	Физика јонизованих гасова и плазме	
Магистратура	1996	Физички факултет, Универзитет у Београду	Физика јонизованих гасова и плазме	
Мастер диплома	--	--	--	
Диплома	1991	Физички факултет, Универзитет у Београду	Физика кондензоване материје	
<b>Списак дисертација-докторских уметничких пројеката а у којима је наставник ментор или је био ментор у претходних 10 година</b>				
Р.Б.	Наслов дисертације-докторског уметничког пројекта	Име кандидата	*пријављена	** одбрањена
1	Просторна и временска селективност импулсног гасног пражњења на атмосферском притиску	Miroslav Gulan	2016	
2	Развој и карактеризација неравнотежне плазме	James Lalor	2016	
3	Дијагностика и дизајн новог плазменог уређаја	Laurance Scally	2016	2021
4	Испитивање утицаја плазменог пражњења на ПЕТ амбалажу	Misra Cftri	2012	2016
5	Оптимизација равне електричне сонде која се	Borislav Dolinaj	2011	2016

	користи за одређивање функције расподеле јонске			
6	Развој затворених петљи за контролу etching/deposition gate-а код ERC плазменог реактора	Yang Zhang	2011	2016
7	Утицај плазме на оштећење полупроводничких материјала са малом дијалектичном константом	Evgueni Gudimenko	2010	2015
8	Изучавање значаја хемије плазме на модификацију полимера	Michael Donegan	2010	2013
9	Значај микроталасне плазме за обраду метала	Aidan Breen	2008	2012
10	Електрична, оптичка и акустична дијагностика плазме на атмосферском притиску	Niall O'Connor	2007	2011
*Година у којој је дисертација-докторски уметнички пројекат пријављена-пријављен (само за дисертације-докторске уметничке пројекте које су у току), ** Година у којој је дисертација-докторски уметнички пројекат одбрањена (само за дисертације-докторско уметничке пројекте из ранијег периода)				
<p><b>Категоризација публикације научних радова из области датог студијског програма према класификацији ресорног Министарства просвете, науке и технолошког развоја а у складу са допунским захтевима стандарда за дато поље (минимално 5 не више од 20)</b></p> <p><b>Категоризација публикације уметничких референци из области датог студијског програма према класификацији из Упутства за припрему документације за акредитацију студијског програма а у складу са допунским захтевима стандарда за дато поље (минимално 5 не више од 20)</b></p>				
1	Miroslav Gulan and Vladimir Milosavljević, Characterization of plasma chemistry for an optimized pulse resonance atmospheric-pressure plasma system, EPL 133, 43002 (2021).			<b>M21</b>
2	G. Conway, Z. He, A. Hutanu, G. P. Cribaro, E. Manaloto, A. Casey, D. Traynor, V. Milosavljevic, O. Howe, C. Barcia, J. Murray, P.J. Cullen, J.F. Curtin, Cold Atmospheric Plasma induces accumulation of lysosomes and caspase-independent cell death in U373MG Glioblastoma multiforme cells, Scientific Reports 9;			<b>M21</b>

	9(1):12891, (2019). doi: 10.1038/s41598-019-49013-3.	
3	Pavlovic Sanja S, Stankovic Snezana B, Zekic Andrijana A, Nenadovic Milos T, Popovic Dusan M, Vladimir Milosavljevic, Poparic Goran B, Impact of plasma treatment on acoustic properties of natural cellulose materials, CELLULOSE 26 (11), 6543-6554 (2019).	<b>M21</b>
4	Kexin Zhang, Camila Perussello, Vladimir Milosavljević, P.J Cullen, Da-Wen Sun, Brijesh K. Tiwari, Diagnostics of plasma reactive species and induced chemistry of plasma treated foods, Critical Reviews in Food Science and Nutrition, 2019 Jan 24:1-14.	<b>M21</b>
5	L. Scally, M. Gulan, L. Weigang, P.J. Cullen, V. Milosavljevic, Significance of a Non-Thermal Plasma Treatment on LDPE Biodegradation with Pseudomonas A, Materials 11/10, 1925 (2018).	<b>M21</b>
6	L. Scally, J. Lalor, M. Gulan, P.J. Cullen & V. Milosavljević, Spectroscopic study of excited molecular nitrogen generation due to interactions of metastable noble gas atoms, Plasma Processes and Polymers 15/6, e1800018 (2018).	<b>M21</b>
7	J. Lalor, L. Scally, P.J. Cullen & V. Milosavljević, Impact of plasma jet geometry on residence times of radical species, Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films 36, 03E108 (2018).	<b>M21</b>
8	P.J.Cullen, J. Lalor, L. Scally, D. Boehm, V. Milosavljević, P. Bourke and K. Keener, Translation of plasma technology from the lab to the food industry, Plasma Process Polym. 15/2, e1700085 (2018).	<b>M21</b>
9	V. Milosavljević & P.J. Cullen, Spectroscopic investigation of a Dielectric Barrier Discharge in Modified Atmosphere Packaging, Eur. Phys. J. Appl. Phys. 80, 20801 (2017).	<b>M21</b>
10	H. M. Abourayana, V. Milosavljević, P. Dobbryn and D. P. Dowling, Evaluation of the effect of plasma treatment frequency on the activation of polymer particles, Plasma Chemistry and Plasma Processing 37/4, 1223-1235 (2017).	<b>M21</b>
11	L. Scally, J. Lalor, P.J. Cullen and V. Milosavljević, Impact of atmospheric pressure non-equilibrium plasma discharge on polymer surface metrology, Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films 35, 03E105 (2017).	<b>M21</b>
12	C. Sarangapani, Y. Dixit, V. Milosavljević, P. Bourke, C. Sullivan and P. J. Cullen, Optimization of atmospheric air plasma for degradation of organic dyes in wastewater, Water Science & Technology 75/1, 207-219 (2017).	<b>M21</b>
13	K. A. O'Flynn, V. Milosavljević, P. Dobbryn, D. P. Dowling, Evaluation of a Reel-to-Reel Atmospheric Plasma System for the Treatment of Polymers, Surfaces and Interfaces 6, 162-169 (2017).	<b>M21</b>
14	L. Han, D. Boehm, E. Amias, V. Milosavljević, P.J. Cullen, P. Bourke, Atmospheric Cold Plasma Interactions with Modified Atmosphere Packaging Inducer Gases for Safe Food Preservation, Innovative Food Science and Emerging Technologies 38B, 384-392 (2016).	<b>M21</b>
15	H.M. Abourayana, V. Milosavljević, P. Dobbryn, P.J. Cullen and D.P. Dowling, Investigation of a Scalable	<b>M21</b>

	Barrel Atmospheric Plasma Reactor for the Treatment of Polymer Particles, Surface and Coatings Technology 308/25, 435-441 (2016).	
16	C. Sarangapani, N.N. Misra, V. Milosavljević, P. Bourke, F. O'Regan, & P.J. Cullen, P. J. Pesticide degradation in water using atmospheric air cold plasma, Journal of Water Process Engineering 9, 225-232 (2016).	<b>M21</b>
17	G.E. Conway, A. Casey, V. Milosavljević, Y. Liu, O. Howe, P.J. Cullen, J.F. Curtin, Non-Thermal Atmospheric Plasma induces ROS-independent cell death in U373MG Glioma cells and augments the cytotoxicity of Temozolomide, British Journal of Cancer 114, 435-443 (2016).	<b>M21</b>
18	L. Han, S. Patil, D. Boehm, V. Milosavljević, P.J. Cullen & P. Bourke, Mechanisms of Inactivation by High-Voltage Atmospheric Cold Plasma Differ for Escherichia coli and Staphylococcus aureus, Applied and Environmental Microbiology 82/2, 450-458 (2016).	<b>M21</b>
19	Millan Sango D., Han L., Milosavljević V., Van Impe J. F., Bourke P., Cullen P. J., Valdramidis V. P., Assessing Bacterial Recovery and Efficacy of Cold Atmospheric Plasma Treatments, Food and Bioproducts Processing 96, 154-160 (2015).	<b>M21</b>
20	P.J. Cullen & V. Milosavljević, Spectroscopic characterization of the radio-frequency argon plasma jet discharge at ambient air, Progress of Theoretical and Experimental Physics 2015/6, 063J01(2015).	<b>M21</b>
<b>Збирни подаци научне активност наставника</b>		
<b>Збирни подаци уметничке активност наставника</b>		
Укупан број цитата, без аутоцитата	1031	
Укупан број радова са SCI (или SSCI) листе	<b>72</b>	
Тренутно учешће на пројектима	Домаћи <b>ДА</b>	Међународни <b>ДА</b>
Усавршавања	<b>ДА – Република Ирска, Немачка</b>	
Други подаци које сматрате релевантним	<b>PI на 4 међународна пројекта, шеф катедре</b>	
Максимална дужине несме бити већа од 2 странице А4		

**Table. 9.8** Competences of mentors

<b>Name and family name</b>		Vladimir Milosavljević		
<b>Title</b>		full professor		
<b>Narrow scientific area</b>		ionized gas and plasma physics		
<b>Academic career</b>	Year			
Election to the title	2015	Faculty of Physics, University of Belgrade	ionized gas and plasma physics	
PhD	2001	Faculty of Physics, University of Belgrade	ionized gas and plasma physics	
Master degree	1996	Faculty of Physics, University of Belgrade	ionized gas and plasma physics	
Master diploma	--	--	--	
Diploma	1991	Faculty of Physics, University of Belgrade	physics of condensed matter	
<b>A list of dissertations-doctoral art projects in which the teacher is or was a mentor in the past 10 years</b>				
No.	Title of the dissertation – doctoral art project	Name of the candidate	*submitted	**defended
1	Temporal and Spatial Selectivity of the Pulsed Gas Discharges on Atmospheric Pressure	Miroslav Gulan	2016	
2	Development and Characterisation of non-equilibrium plasma technology	James Lalor	2016	
3	Plasma Diagnostics and Engineering of a	Laurance Scally	2016	2021

	Novel Plasma Based Technology			
4	Study of the impact of plasma discharges on pet packages	Misra Cftri	2012	2016
5	Study of an ECR Etching Reactor using a Retarding Field Energy Analyzer	Borislav Dolinaj	2011	2016
6	The design of the close-loop control system for etching/deposition plasma reactor	Yang Zhang	2011	2016
7	Characterisation of a low-k material damage by plasma	Evgueni Gudimenko	2010	2015
8	Influence of the plasma chemistry on a polymer modification	Michael Donegan	2010	2013
9	Evaluation of microwave plasma for the processing of metallic materials	Aidan Breen	2008	2012
10	Electrical, optical and acoustic diagnostics of atmospheric pressure gas discharges	Niall O'Connor	2007	2011

\* Year in which the dissertation-doctoral art project was submitted (for dissertations-doctoral art projects in progress)

\*\* The year in which the dissertation-doctoral art project was defended (only for dissertations-doctoral art projects from the previous period)

**Categorization of the publication of scientific papers in the field of the given study program according to the classification of the relevant Ministry of Education, Science and Technological Development and in accordance with the additional requirements of the standard for the given field (minimum 5 not more than 20)**

**Categorization of the publication of artistic references in the field of the given study program according to the classification in the guidelines for preparing the documentation for the accreditation of the study program and in accordance with the additional requirements of the standard for the given field (minimum 5 not more than 20)**

<b>1</b>	Miroslav Gulan and Vladimir Milosavljević, Characterization of plasma chemistry for an optimized pulse resonance atmospheric-pressure plasma system, EPL 133, 43002 (2021).	<b>M21</b>
<b>2</b>	G. Conway, Z. He, A. Hutanu, G. P. Cribaro, E. Manaloto, A. Casey, D. Traynor, V. Milosavljevic, O. Howe, C. Barcia, J. Murray, P.J. Cullen, J.F. Curtin, Cold Atmospheric Plasma induces accumulation of lysosomes and caspase-independent cell death in U373MG Glioblastoma multiforme cells, Scientific Reports 9; 9(1):12891, (2019). doi: 10.1038/s41598-019-49013-3.	<b>M21</b>
<b>3</b>	Pavlovic Sanja S, Stankovic Snezana B, Zekic Andrijana A, Nenadovic Milos T, Popovic Dusan M, Vladimir Milosavljevic, Poparic Goran B, Impact of plasma treatment on acoustic properties of natural cellulose materials, CELLULOSE 26 (11), 6543-6554 (2019).	<b>M21</b>
<b>4</b>	Kexin Zhang, Camila Perussello, Vladimir Milosavljević, P.J Cullen, Da-Wen Sun, Brijesh K. Tiwari, Diagnostics of plasma reactive species and induced chemistry of plasma treated foods, Critical Reviews in Food Science and Nutrition, 2019 Jan 24:1-14.	<b>M21</b>
<b>5</b>	L. Scally, M. Gulan, L. Weigang, P.J. Cullen, V. Milosavljevic, Significance of a Non-Thermal Plasma Treatment on LDPE Biodegradation with Pseudomonas A, Materials 11/10, 1925 (2018).	<b>M21</b>
<b>6</b>	L. Scally, J. Lalor, M. Gulan, P.J. Cullen & V. Milosavljević, Spectroscopic study of excited molecular nitrogen generation due to interactions of metastable noble gas atoms, Plasma Processes and Polymers 15/6, e1800018 (2018).	<b>M21</b>
<b>7</b>	J. Lalor, L. Scally, P.J. Cullen & V. Milosavljević, Impact of plasma jet geometry on residence times of radical species, Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films 36, 03E108 (2018).	<b>M21</b>
<b>8</b>	P.J.Cullen, J. Lalor, L. Scally, D. Boehm, V. Milosavljević, P. Bourke and K. Keener, Translation of plasma technology from the lab to the food industry, Plasma Process Polym. 15/2, e1700085 (2018).	<b>M21</b>
<b>9</b>	V. Milosavljević & P.J. Cullen, Spectroscopic investigation of a Dielectric Barrier Discharge in Modified Atmosphere Packaging, Eur. Phys. J. Appl. Phys. 80, 20801 (2017).	<b>M21</b>
<b>10</b>	H. M. Abourayana, V. Milosavljević, P. Dobbyn and D. P. Dowling, Evaluation of the effect of plasma treatment frequency on the activation of polymer particles, Plasma Chemistry and Plasma Processing 37/4, 1223-1235 (2017).	<b>M21</b>
<b>11</b>	L. Scally, J. Lalor, P.J. Cullen and V. Milosavljević, Impact of atmospheric pressure non-equilibrium plasma discharge on polymer surface metrology, Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films 35, 03E105 (2017).	<b>M21</b>

<b>12</b>	C. Sarangapani, Y. Dixit, V. Milosavljević, P. Bourke, C. Sullivan and P. J. Cullen, Optimization of atmospheric air plasma for degradation of organic dyes in wastewater, <i>Water Science &amp; Technology</i> 75/1, 207-219 (2017).	<b>M21</b>
<b>13</b>	K. A. O'Flynn, V. Milosavljević, P. Dobbyn, D. P. Dowling, Evaluation of a Reel-to-Reel Atmospheric Plasma System for the Treatment of Polymers, <i>Surfaces and Interfaces</i> 6, 162-169 (2017).	<b>M21</b>
<b>14</b>	L. Han, D. Boehm, E. Amias, V. Milosavljević, P.J. Cullen, P. Bourke, Atmospheric Cold Plasma Interactions with Modified Atmosphere Packaging Inducer Gases for Safe Food Preservation, <i>Innovative Food Science and Emerging Technologies</i> 38B, 384-392 (2016).	<b>M21</b>
<b>15</b>	H.M. Abourayana, V. Milosavljević, P. Dobbyn, P.J. Cullen and D.P. Dowling, Investigation of a Scalable Barrel Atmospheric Plasma Reactor for the Treatment of Polymer Particles, <i>Surface and Coatings Technology</i> 308/25, 435-441 (2016).	<b>M21</b>
<b>16</b>	C. Sarangapani, N.N. Misra, V. Milosavljević, P. Bourke, F. O'Regan, & P.J. Cullen, P. J. Pesticide degradation in water using atmospheric air cold plasma, <i>Journal of Water Process Engineering</i> 9, 225-232 (2016).	<b>M21</b>
<b>17</b>	G.E. Conway, A. Casey, V. Milosavljević, Y. Liu, O. Howe, P.J. Cullen, J.F. Curtin, Non-Thermal Atmospheric Plasma induces ROS-independent cell death in U373MG Glioma cells and augments the cytotoxicity of Temozolomide, <i>British Journal of Cancer</i> 114, 435–443 (2016).	<b>M21</b>
<b>18</b>	L. Han, S. Patil, D. Boehm, V. Milosavljević, P.J. Cullen & P. Bourke, Mechanisms of Inactivation by High-Voltage Atmospheric Cold Plasma Differ for <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> , <i>Applied and Environmental Microbiology</i> 82/2, 450-458 (2016).	<b>M21</b>
<b>19</b>	Millan Sango D., Han L., Milosavljević V., Van Impe J. F., Bourke P., Cullen P. J., Valdramidis V. P., Assessing Bacterial Recovery and Efficacy of Cold Atmospheric Plasma Treatments, <i>Food and Bioproducts Processing</i> 96, 154–160 (2015).	<b>M21</b>
<b>20</b>	P.J. Cullen & V. Milosavljević, Spectroscopic characterization of the radio-frequency argon plasma jet discharge at ambient air, <i>Progress of Theoretical and Experimental Physics</i> 2015/6, 063J01(2015).	<b>M21</b>

**Cumulative data of scientific activity of the teacher**

**Cumulative data of scientific activity of the teacher**

Total number of citations, without self citations	1031	
Total number of papers on the SCI (or SSCI) list	72	
Current participation in projects	Domestic <b>YES</b>	international <b>YES</b>
Specialization	Post-Doc: Germany,	



	Republic of Ireland
Other information you consider to be important	<b>PI on 4 international projects, a head of the department</b>
Maximum length may not be over 2 A4 pages	