

**Табела. 9.6.** Компетентност наставника

<b>Име и презиме</b>		Владимир Милосављевић		
<b>Звање</b>		редован професор		
<b>Ужа научна област</b>		Физика јонизованих гасова и плазме		
<b>Академска каријера</b>	Година	Институција	Област	Ужа научна односно уметничка област
Избор у звање	2015	Физички факултет, Универзитет у Београду	Физика јонизованих гасова и плазме	2015
Докторат	2001	Физички факултет, Универзитет у Београду	Физика јонизованих гасова и плазме	2001
Магистратура	1996	Физички факултет, Универзитет у Београду	Физика јонизованих гасова и плазме	1996
Мастер диплома	--	--	--	--
Диплома	1991	Физички факултет, Универзитет у Београду	Физика кондензоване материје	1991
<b>Списак предмета које наставник држи на докторским студијама</b>				
<b>Р.Б.</b>	<b>Ознака</b>	<b>Назив предмета</b>		
1	ФИЗДФЛП1	Извори јонизованог гаса		
2	ФИЗДФЛП6	Одабрана поглавља физике јонизованих гасова		
<b>Најзначајнији радови у складу са захтевима допунских услова стандарда за дато поље (минимално 10 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; 9(1):12891, (2019). doi: 10.1038/s41598-019-49013-3.		<b>M21</b>
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		<b>M21</b>

	Processes and Polymers 15/6, e1800018 (2018).	
7	J. Lalor, L. Scally, P.J. Cullen & V. Milosavljević, Impact of plasma jet geometry on residence times of radical species, <i>Journal of Vacuum Science &amp; Technology A: Vacuum, Surfaces, and Films</i> 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, <i>Plasma Process Polym.</i> 15/2, e1700085 (2018).	<b>M21</b>
9	V. Milosavljević & P.J. Cullen, Spectroscopic investigation of a Dielectric Barrier Discharge in Modified Atmosphere Packaging, <i>Eur. Phys. J. Appl. Phys.</i> 80, 20801 (2017).	<b>M21</b>
10	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, <i>Plasma Chemistry and Plasma Processing</i> 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, <i>Journal of Vacuum Science &amp; Technology A: Vacuum, Surfaces, and Films</i> 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, <i>Water Science &amp; Technology</i> 75/1, 207-219 (2017).	<b>M21</b>
13	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>
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, <i>Innovative Food Science and Emerging Technologies</i> 38B, 384-392 (2016).	<b>M21</b>
15	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>
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, <i>Journal of Water Process Engineering</i> 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, <i>British Journal of Cancer</i> 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 <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> , <i>Applied and Environmental Microbiology</i> 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, <i>Food and Bioproducts Processing</i> 96, 154-160 (2015).	<b>M21</b>
20	P.J. Cullen & V. Milosavljević, Spectroscopic characterization	<b>M21</b>

	of the radio-frequency argon plasma jet discharge at ambient air, Progress of Theoretical and Experimental Physics 2015/6, 063J01(2015).	
<b>Збирни подаци научне активности наставника</b>		
Укупан број цитата, без ауоцитата	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 не сме бити већа од 1 странице А4		

**Table. 9.6** Teachers' competences

<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>	<b>Year</b>	<b>Institution</b>	<b>Area</b>	<b>Narrow scientific or art area</b>
Election to the title	2015	Faculty of Physics, University of Belgrade	ionized gas and plasma physics	2015
PhD	2001	Faculty of Physics, University of Belgrade	ionized gas and plasma physics	2001
Master degree	1996	Faculty of Physics, University of Belgrade	ionized gas and plasma physics	1996
Master diploma	--	--	--	--
Diploma	1991	Faculty of Physics, University of Belgrade	physics of condensed matter	1991
<b>List of subjects the teacher is lecturing in doctoral studies</b>				

No.	Mark	Subject name
1	ФИЗДФЛП1	Ionized gas sources
2	ФИЗДФЛП6	Selected chapters of physics of ionized gases
The most significant papers, in compliance with the requirements of the additional requirements of the standard for the given field ( <b>minimum 10, not more than 20</b> )		
		R
1		Miroslav Gulan and Vladimir Milosavljević, Characterization of plasma chemistry for an optimized pulse resonance atmospheric-pressure plasma system, EPL 133, 43002 (2021).
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; 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).
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.
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).
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).
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).
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).
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).
10		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).
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).	
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).	M21
13	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, Surfaces and Interfaces 6, 162-169 (2017).	M21
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).	M21
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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).	M21
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).	M21
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).	M21
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).	M21
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).	M21
<b>Cumulative data of scientific activity of the teacher</b>		
Total number of citations, without self citations		1031
Total number of papers on the SCI (or SSCI) list		72
Current participation in projects		Domestic YES
		International YES
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 1 A4 page		