

Табела. 9.6. Компетентност наставника

Име и презиме		Душан Арсеновић		
Звање		Научни саветник		
Ужа научна област		Квантна механика и оптика		
Академска каријера	Година	Институција	Област	Ужа научна односно уметничка област
Избор у звање	29.02.2012	Институт за физику, Универзитет у Београду	Физика	Квантна физика и оптика
Докторат	21.06.1999	Физички факултет, Универзитет у Београду	Физика	Класична, квантна и математичка физика
Магистратура	01.12.1993	Физички факултет, Универзитет у Београду	Физика	Класична, квантна и математичка физика
Диплома	23.10.1991	Физички факултет, Универзитет у Београду	Физика	
Списак предмета које наставник држи на докторским студијама				
Р.Б.	Ознака	Назив предмета		
1.	ФИЗДФВО4	Нумеричке методе и симулације у квантној оптици		
Најзначајнији радови у складу са захтевима допунских услова стандарда за дато поље (минимално 10 не више од 20)				
				P
1.		J. Dimitrijević, D. Arsenović, B.M. Jelenković, Conservation laws for optical Bloch equations for the Λ scheme, J. Phys. A: Math. Theor. 53, 445201, (2020)		M21
2.		B. Zlatković, M.M. Ćurčić, I.S. Radojičić, D. Arsenović, A. Krmpot, B.M. Jelenković Slowing probe and conjugate pulses in potassium vapor using four wave mixing, Optics Express, Vol. 26, No. 26, 2018, p. 34266--34273		M21
3.		D. Arsenović, M.M. Ćurčić, T. Khalifa, B. Zlatković, Ž. Nikitović, I.S. Radojičić, A.J. Krmpot, B.M. Jelenković, Slowing 80-ns light pulses by four-wave mixing in potassium vapor, Physical Review A, 98, 023829 (2018)		M22
4.		R. Loura, D. Arsenović, N. Paunković, D.B. Popović, S. Prvanović, Security of two-state and four-state practical quantum bit-commitment protocols, Physical Review A 94, 062335 (2016)		M22
5.		J. Dimitrijević, D. Arsenović, B.M. Jelenković, Nonlinear polarization rotation of a Gaussian pulse propagating through an EIT medium, Journal of Physics B: Atomic, Molecular and Optical Physics, 47 No. 4 (2014) 045503 (8pp)		M23
6.		Z.D. Grujić, M.M. Lekić, M. Radonjić, D. Arsenović, B.M. Jelenković, Ramsey effects in coherent resonances at closed transition $F_g=2 \rightarrow F_e=3$ of ^{87}Rb , Journal of Physics B: Atomic, Molecular and Optical Physics, 45, 245502 (2012)		M23
7.		M. Davidović, A.S. Sanz, M. Božić, D. Arsenović, Coherence loss and revivals in atomic interferometry: a quantum-recoil analysis, Journal of Physics A: Mathematical and Theoretical, 45, Number 16, 165303 (2012)		M21
8.		J. Dimitrijević, D. Arsenović, B.M. Jelenković, Coherent processes in electromagnetically induced absorption: a steady and transient study, New Journal of Physics, 13 033010, (2011)		M21
9.		M.M. Mijailović, Z.D. Grujić, M. Radonjić, D. Arsenović, B.M. Jelenković, Nonlinear magneto-optical rotation narrowing in vacuum gas cells due to interference between atomic dark states of two spatially separated laser beams, Physical Review A, 80, 053819-7, (2009)		M22
10.		D.M. Davidović, J. Vukanić, D. Arsenović, Two new analytical approximations of the Chandrasekhar's H-function for isotropic scattering, ICARUS, 194/1 389-397 (2008)		M22
Збирни подаци научне активности наставника				
Укупан број цитата, без аутоцитата			315	
Укупан број радова са SCI (или SSCI) листе			64	
Тренутно учешће на пројектима			Домаћи 1	Међународни 1
Усавршавања				
Други подаци које сматрате релевантним				

Table. 9.6 Teachers' competences

Name and family name				
Title				
Narrow scientific area				
Academic career	Year	Institution	Area	Narrow scientific or art area
Election to the title	29.02.2012	Institute of Physics Belgrade, University of Belgrade, MNT RS, Serbia	Physics	Quantum mechanics and optics
PhD	21.06.1999	Faculty of Physics, University of Belgrade, Serbia	Physics	Classical, quantum and mathematical physics
Master degree	01.12.1993	Faculty of Physics, University of Belgrade, Serbia	Physics	Classical, quantum and mathematical physics
Diploma	23.10.1991	Faculty of Physics, University of Belgrade, Serbia	Physics	
List of subjects the teacher is lecturing in doctoral studies				
No.	Mark	Subject name		
1.	ФИЗДФВО4	Numerical methods and simulations in quantum optics		
The most significant papers, in compliance with the requirements of the additional requirements of the standard for the given field (minimum 10, not more than 20)				
				R
1.		J. Dimitrijević, D. Arsenović, B.M. Jelenković, Conservation laws for optical Bloch equations for the Λ scheme, J. Phys. A: Math. Theor. 53, 445201, (2020)		M21
2.		B. Zlatković, M.M. Ćurčić, I.S. Radojičić, D. Arsenović, A. Krmpot, B.M. Jelenković Slowing probe and conjugate pulses in potassium vapor using four wave mixing, Optics Express, Vol. 26, No. 26, 2018, p. 34266--34273		M21
3.		D. Arsenović, M.M. Ćurčić, T. Khalifa, B. Zlatković, Ž. Nikitović, I.S. Radojičić, A.J. Krmpot, B.M. Jelenković, Slowing 80-ns light pulses by four-wave mixing in potassium vapor, Physical Review A, 98, 023829 (2018)		M22
4.		R. Loura, D. Arsenović, N. Paunković, D.B. Popović, S. Prvanović, Security of two-state and four-state practical quantum bit-commitment protocols, Physical Review A 94, 062335 (2016)		M22
5.		J. Dimitrijević, D. Arsenović, B.M. Jelenković, Nonlinear polarization rotation of a Gaussian pulse propagating through an EIT medium, Journal of Physics B: Atomic, Molecular and Optical Physics, 47 No. 4 (2014) 045503 (8pp)		M23
6.		Z.D. Grujić, M.M. Lekić, M. Radonjić, D. Arsenović, B.M. Jelenković, Ramsey effects in coherent resonances at closed transition $Fg=2 \rightarrow Fe=3$ of 87Rb, Journal of Physics B: Atomic, Molecular and Optical Physics, 45, 245502 (2012)		M23
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9.		M.M. Mijailović, Z.D. Grujić, M. Radonjić, D. Arsenović, B.M. Jelenković, Nonlinear magneto-optical rotation narrowing in vacuum gas cells due to interference between atomic dark states of two spatially separated laser beams, Physical Review A, 80, 053819-7, (2009)		M22
10.		D.M. Davidović, J. Vukanić, D. Arsenović, Two new analytical approximations of the Chandrasekhar's H-function for isotropic scattering, ICARUS, 194/1 389-397 (2008)		M22

Cumulative data of scientific activity of the teacher		
Total number of citations, without self citations	315	
Total number of papers on the SCI (or SSCI) list	64	
Current participation in projects	Domestic 1	International 1
specialization		
Other information you consider to be important		