

**Справка за съответствие на публикациите с националните и  
допълнителните изисквания при кандидатстване за длъжността  
доцент**

**на Главен асистент Пламен Весков Петков**

(Доказателствата са във файла, 7.Artefacts\_1.pdf, Приложение №7)

Степен/ Длъжност	№	Публикация	Съществен принос	Точки	Група
Доктор	1	P. V. Petkov, K. D. Danov, P. A. Kralchevsky, Surface pressure isotherm for a monolayer of charged colloidal particles at a water/nonpolar-fluid interface: experiment and theoretical model, Langmuir, vol: 30, 2014, pages: 2768-2778, doi:10.1021/la500126d, SCOPUS Quartile: Q1 (SJR 1.81) 2014 Доказателства: за: SJR: стр. 2-4, Quartiles стр. 89	Да	25	I
	2	Plamen V. Petkov, Krassimir D. Danov, Peter A.Kralchevsky, Monolayers of charged particles in a Langmuir trough: Could particle aggregation increase the surface pressure?, Journal of colloid and interface science, том:462, 2016, стр.:223-234, doi: https://doi.org/10.1016/j.jcis.2015.09.075, Ref, IR , SCOPUS Quartile: Q1, SJR (1.156), 2016 Доказателства за: SJR: стр. 5-7, Quartiles стр. 90	Да	25	I
	3	Peter A. Kralchevsky, Krassimir D. Danov, Plamen V. Petkov, Soft electrostatic repulsion in particle monolayers at liquid interfaces: surface pressure and effect of aggregation, Philosophical Transaction of Royal Society A , брой:374(2072), издателство: The Royal Society, 2016, doi:10.1098/rsta.2015.0130, SCOPUS Quartile: Q1 (SJR, 0.986), 2016 Доказателства за: SJR: стр. 8-10, Quartiles стр. 88	Да	25	I
Главен асистент	Използват се статии №1, 2 и 3				
	4	Venelin Rusanov, Plamen V. Petkov, Krasimir Kamenov, Implementation of Uncertainty Analysis for Evaluation of Nuclear Reactors VVER-1000 Fuel Safety Margins during Normal Operation by FEMAXI-6 Computer Code Calculations, Journal of Physics and Technology, vol: 2, issue:1, 2018, pages: 19-36, ISSN	Да	-	-

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Доцент	5	Petkov, P.V., Identification of optimal number of histogram bars for large data trends, Nuclear Science and Engineering, том: 159, брой:2, 2008, стр. 221-227, doi:10.13182/NSE159-221, SCOPUS, Quartile: Q1, SJR (0.717), 2008 Доказателства за: SJR: стр. 17-19, Quartiles стр. 85	Да	25	I
	6	Petkov, P.V., Implementation of uncertainty analysis in evaluation of small disturbances, Societe Francaise d'Energie Nucleaire - International Congress on Advances in Nuclear Power Plants - ICAPP 2007, "The Nuclear Renaissance at Work", 2008, pages:649-659, ISBN:978-160423871-6, SCOPUS, SJR (0.212), 2009 Доказателства: SJR: стр. 11-13	Да	10	III
	7	Petkov, P.V., Implementation of a new controlling function in MELCOR computer code for uncertainty evaluations, International Conference on Advances in Nuclear Power Plants, ICAPP 2008, 2008, стр.:1436-1442, ISBN: 978-0-89448-061-4 SCOPUS, SJR (0.212), 2008 Доказателства: SJR: стр. 34-36	Да	10	III
	8	Danail Hristov, Plamen V. Petkov, Ivo Naev, Calculation of decay heat rate in VVER-1000 spent fuel pool including uncertainties, Nuclear Engineering and Design, vol: 366, 2020, ISBN:0029-5493, doi:10.1016/j.nucengdes.2020.110754, SCOPUS, Quartile: Q1, SJR 1.073, 2020 Доказателства за: SJR: стр. 14-16, Quartiles стр. 86	Да	25	I
	9	Petkov, P.V., Hristov D. V., VVER-1000/V320 decay heat analysis involving TVS-M and TVSA fuel assemblies, Nuclear Engineering and Design, том: 238, брой: 12, 2008, стр. 3227-3239, doi:0.1016/j.nucengdes.2008.06.012, Ref, SCOPUS Quartile: Q1, SJR (0.816), 2008 Доказателства за: SJR: стр. 14-16, Quartiles стр. 86	Да	25	I
	10	James Sienicki, Plamen V. Petkov, STAR-LM reactivity coefficient uncertainty effects upon autonomous load following and passive safety, Transactions of American Nuclear Society 2002 Winter Meeting; Washington, DC (United States); 17-21 Nov 2002; W--31-109-ENG-38; Trans. Am.	Да	10	III

		Nucl. Soc. 87: 282-283 2002 (SJR 0.1), 2002 Доказателства за: SJR: стр. 20-22			
11		B. Radoev, I. Ivanov, Plamen V. Petkov, Capillary bridge: Transition from equilibrium to hydrodynamic state, Colloids and Surfaces A: Physicochemical and Engineering Aspects, том: 505, 2016, стр.:98-105, doi:https://doi.org/10.1016/j.colsurfa.2016.01.040, , SCOPUS Quartile: Q2, SJR (0.797), 2016 Доказателства за: SJR: стр. 27-29, Quartiles стр. 87	Да	20	I
12		Plamen V. Petkov, B. Radoev, Statics and dynamics of capillary bridges, Colloids and Surfaces A: Physicochemical and Engineering Aspects, том: 460, 2014, стр.:18-27, doi:https://doi.org/10.1016/j.colsurfa.2014.03.038, Ref, IR, , SCOPUS Quartile: Q2, SJR (0.854), 2014 Доказателства за: SJR: стр. 27-29, Quartiles стр. 87	Да	20	I
13		Plamen V. Petkov, Boryan Radoev, Investigation of Single and Binary of “Sandwich” Type Convex Liquid Capillary Bridges, Stretched between Two Flat Surfaces (Experimental Approach), 8 <sup>th</sup> Bubble and Drop Conference ( <a href="https://bd2019.eu/">https://bd2019.eu/</a> ), Bulgaria, 24–28 June 2019 Colloids and Interfaces, Special issue, 2019, edited by Reinhard Miller and Elena Mileva, ISSN (online):2504-5377, doi:10.3390/colloids3040068 Indexed in Web of Science: Доказателства: стр. 30-33	Да	15	II
14		L. M. Dimitrova, Plamen V. Petkov, P. A. Kralchevsky, S. D. Stoyanov, E. G. Pelan, Production and Characterization of Stable Foams with Fine Bubbles from Solutions of Hydrophobin HFBII and Its Mixtures with Other Proteins, Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol: 521, 2017, pages:92-104, doi:10.1016/j.colsurfa.2016.06.018, SCOPUS Quartile: Q2 (SJR 0.753), 2017 Доказателства за: SJR: стр. 27-29, Quartiles: стр. 87	Да	20	I
15		Boryan Radoev, Plamen V. Petkov, Ivan T. Ivanov, Capillary Bridges—A Tool for Three-Phase Contact Investigation, DOI: 10.5772/60684, Surface Energy, edited by Mahmood Aliofkhazraei, SBN:978-953-51-2216-6,	Да	15	

	InTechOpen, London, EC3R 6AF, UK Доказательства: стр. 70-78			
16	James Sienicki, Plamen V. Petkov, Passive Safety of the STAR-LM HLMC Natural Convection Reactor, 10-th International Conference on Nuclear Engineering (ICONE 10); Arlington, VA (United States); 14-18 Apr 2002, 2002, ISSN (print):00002016, doi:10.1115/ICONE10-22290, , SCOPUS, SJR (0.126), 2017 Доказательства за: SJR: стр. 24-26	Да	10	III
17	Plamen V. Petkov, Rashkov, K., Gerogieva, N, Development of statistical methodology for analysis of operational data trends acquired during reactor operation in 'Kozloduy' NPP, in "Deterministic Analysis of Operational Events in Nuclear Power Plants", Proceedings of a Technical Meeting held in Dubrovnik, Croatia, 23-26 May 2005, IAEA-TECDOC-1550, ISSN (print): 92-0-101307-8, ISSN (online): 92-0-101307-8, ISBN: 92-0-101307-8, IAEA, Vienna Доказательства: стр. 38-45	Да	15	
18	J J Sienicki, AV Moisseytsev, DC Wade, MT Farmer, C, CP Tzanos, JA Stillman, JW Holland, Plamen V. Petkov, IU Therios, RF Kulak, The STAR-LM lead-cooled closed fuel cycle fast reactor coupled to a supercritical carbon dioxide Brayton cycle advanced power converter, HLMC-2003, Trans. Am. Nucl. Soc., Publisher: ANS, 2003, ISSN (online):978-0-89448-677-7, SCOPUS, SJR (0.189), 2004 Доказательства за: SJR: стр. 20-22		10	III
19	James Sienicki, Plamen V. Petkov, Assessment of reactivity coefficient uncertainty effects upon STAR-LM autonomous operation and passive safety, Proceedings of 11-th International Conference on Nuclear Engineering, ICONE11-36025, p. 141, ISSN 2424-2934, 2003 (SJR 0.178), 2003 Доказательства за: SJR: стр. 46-48	Да	10	III
20	VVER-1000/V320 decay heat analysis, involving TVS- M and TVS-A fuel assemblies Societe Francaise d'Energie Nucleaire - International Congress on Advances in Nuclear Power Plants - ICAPP 2007, "The Nuclear Renaissance at Work", 2008, pages:649-659, ISBN:978-160423871-6, SCOPUS, SJR (0.212), 2009 Доказательства: SJR: стр. 11-13	Да	10	III

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	21	<p>Sienicki, J. J., Petkov, P.V., Operational and passive safety aspects of the STAR-LM natural convection HLHC reactor. Study on operational aspects of a natural circulation HLHC reactor, JNC TA9400 ; 2001-2, Japan, p. 245</p> <p>Доказателства: стр. 49-54. Основната информация е на стр. 53.</p>	Да	30	
	22	<p>Plamen V. Petkov, Status of Input Data Development for Severe Accident Calculation in Kozloduy NPP, Proceedings of the 6-th International Conference on Nuclear Option in Countries with Small and Medium Electricity Grids, 2006, edited by N. Kavlina, D. Prevec and T. Bajcs, ISBN-10:9789535522416, ISBN-13 9535522418</p> <p>Доказателства: стр. 55-69</p>	Да	15	
	23	<p>Plamen V. Petkov, Implementation of Uncertainty Analysis in Evaluation of Small Disturbances, Trans. Am. Nucl. Soc. Vol. 94, 1, 2006, pp. 560-561</p> <p>Доказателства: SJR: стр. 20-23</p>	Да	10	III
		Общо		305	

Изготвил:

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