

# Evgeniy Kartaev

## List of Publications by Year in descending order

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30  
papers

211  
citations

1163117

8  
h-index

1058476

14  
g-index

30  
all docs

30  
docs citations

30  
times ranked

79  
citing authors

#	ARTICLE	IF	CITATIONS
1	Technique of Formation of an Axisymmetric Heterogeneous Flow During Thermal Spraying of Powder Materials. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 159-168.	3.1	34
2	Air plasma sprayed coatings of self-fluxing powder materials. <i>Journal of Physics: Conference Series</i> , 2014, 567, 012010.	0.4	28
3	Formation of counter flow jet resulting from impingement of multiple jets radially injected in a crossflow. <i>Experimental Thermal and Fluid Science</i> , 2015, 68, 310-321.	2.7	26
4	Analysis of mixing of impinging radial jets with crossflow in the regime of counter flow jet formation. <i>Chemical Engineering Science</i> , 2014, 119, 1-9.	3.8	25
5	Micro-Metallurgy of Splats: Theory, Computer Simulation and Experiment. <i>JSME International Journal Series B</i> , 2005, 48, 366-380.	0.3	19
6	An Experimental Study of the Synthesis of Ultrafine Titania Powder in Plasmachemical Flow-Type Reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2014, 12, 377-396.	1.1	16
7	Theoretical Modeling and Experimental Study of Thermal Barrier Coatings. <i>Materials Transactions</i> , 2003, 44, 2311-2321.	1.2	9
8	Small-size spectrometer for emission analysis of low-temperature plasma flows. <i>Thermophysics and Aeromechanics</i> , 2007, 14, 247-256.	0.5	8
9	The structure and physical-mechanical properties of the heat-resistant Ni-Co-Cr-Al-Y intermetallic coating obtained using rebuilt plasma equipment. <i>Thermophysics and Aeromechanics</i> , 2014, 21, 641-650.	0.5	7
10	Upstream penetration behavior of the developed counter flow jet resulting from multiple jet impingement in the crossflow of cylindrical duct. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 1163-1178.	4.8	6
11	The heating and acceleration dynamics of Al <sub>2</sub> O <sub>3</sub> particles in the axisymmetric heterogeneous flow emanating from a plasma torch with inter-electrode inserts. <i>Thermophysics and Aeromechanics</i> , 2014, 21, 515-527.	0.5	5
12	Control of the Synthesis of Submicron Titanium Dioxide Particles in a Continuous Plasma-Chemical Reactor. <i>Journal of Engineering Physics and Thermophysics</i> , 2015, 88, 1459-1465.	0.6	4
13	Modeling the One-Stage Synthesis of Composite Particles of the Nucleus-Shell Type in Separate Oxidation of Titanium and Silicon Tetrachlorides in a Plasmachemical Reactor. <i>Journal of Engineering Physics and Thermophysics</i> , 2020, 93, 108-113.	0.6	4
14	Determination of temperature in a plasma jet emanating from a plasma torch with sectioned inter-electrode insert from the molecular emission spectrum of nitrogen. <i>Thermophysics and Aeromechanics</i> , 2011, 18, 629-641.	0.5	3
15	Supersonic plasma and wear-resistant nickel alloy coatings. <i>Doklady Chemistry</i> , 2015, 463, 194-197.	0.9	2
16	High-temperature synthesis of silica particles by the chloride method in the regime of counter flow jet quenching. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
17	Numerical simulation of the synthesis of titania-silica composite nanoparticles in plasmachemical reactor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
18	Flow field and crossflow mixing upstream and downstream the multiple jet injection plane in case of impinging jets in a cylindrical duct. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Steady-state and unsteady Reynolds-averaged Navier-stokes modelling of cold jets-in-hot crossflow in a cylindrical duct for non-impinging, impinging, and strongly impinging jets. Heat and Mass Transfer, 2020, 56, 2285-2302.	2.1	2
20	MODELING OF SYNTHESIS OF COMPOSITE "CORE-SHELL" PARTICLES ON THE BASIS OF JOINT OXIDATION OF TITANIUM AND SILICON TETRACHLORIDES IN A PLASMA-CHEMICAL REACTOR. Journal of Applied Mechanics and Technical Physics, 2020, 61, 566-572.	0.5	2
21	Numerical simulation of synthesis titania-silica composite nanoparticles in the plasmachemical reactor. Proceedings of the Russian Higher School Academy of Sciences, 2017, , 7-17.	0.1	2
22	Controlling the Size and Phase Composition of Submicron Titanium-Dioxide Particles Synthesized in a Flow-Type Plasma Chemical Reactor. Journal of Engineering Physics and Thermophysics, 2018, 91, 1063-1068.	0.6	1
23	Modeling of the synthesis of composite particles based on titania and silica in flow-type plasmachemical reactor. Journal of Physics: Conference Series, 2019, 1404, 012003.	0.4	1
24	CONTROL OF GAS-PHASE HIGH-TEMPERATURE SYNTHESIS OF TITANIUM DIOXIDE NANOPARTICLES IN A PLASMA-CHEMICAL REACTOR WITH THE USE OF A QUENCHING JET. Journal of Applied Mechanics and Technical Physics, 2021, 62, 419-428.	0.5	1
25	Plasma-Chemical Treatment of Process Gases with Low-Concentration Fluorine-Containing Components. Plasma Chemistry and Plasma Processing, 2017, 37, 273-286.	2.4	0
26	Modeling the Synthesis of Composite Titania- and Silica-Based Core-Shell Type Particles in a Plasmachemical Reactor. Journal of Engineering Physics and Thermophysics, 2019, 92, 383-388.	0.6	0
27	Modeling of the synthesis of "core-shell" composite particles based on segregated oxidation of titanium and silicon tetrachlorides in flow-type plasmachemical reactor. Journal of Physics: Conference Series, 2019, 1393, 012071.	0.4	0
28	Modeling Control over the Size and Phase Composition of Submicron Particles of Titanium Dioxide Synthesized in a Flow Plasma-Chemical Reactor. Theoretical Foundations of Chemical Engineering, 2020, 54, 588-591.	0.7	0
29	Control of Gas-Phase High-Temperature Synthesis of Titanium Dioxide Nanoparticles in a Plasma-Chemical Reactor with the use of a Quenching Jet. PrikladnaË Mehanika, TehniÄeskaË Fizika, 2021, 62, 80-90.	0.0	0
30	Control of the Synthesis of Composite Core-Shell-Type Particles in a Continuous Plasmachemical Reactor. Journal of Engineering Physics and Thermophysics, 0, , .	0.6	0