

Evgeny Votyakov

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

734
citations

687363

13
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

390
citing authors

#	ARTICLE	IF	CITATIONS
1	Lorentz Force Velocimetry. <i>Physical Review Letters</i> , 2006, 96, 164501.	7.8	150
2	Theory of the Lorentz force flowmeter. <i>New Journal of Physics</i> , 2007, 9, 299-299.	2.9	101
3	Critical Properties of Lennard-Jones Fluids in Narrow Slit-Shaped Pores. <i>Langmuir</i> , 2001, 17, 4451-4458.	3.5	92
4	A Theoretical Study of the Phase Diagrams of Simple Fluids Confined within Narrow Pores. <i>Langmuir</i> , 1999, 15, 5713-5721.	3.5	55
5	Adsorption in pores with heterogeneous surfaces. <i>Langmuir</i> , 1993, 9, 2652-2660.	3.5	49
6	Sensitivity analysis for thermocline thermal storage tank design. <i>Renewable Energy</i> , 2016, 99, 764-771.	8.9	45
7	Constrained flow around a magnetic obstacle. <i>Journal of Fluid Mechanics</i> , 2008, 610, 131-156.	3.4	41
8	Structure of the Wake of a Magnetic Obstacle. <i>Physical Review Letters</i> , 2007, 98, 144504.	7.8	36
9	A perturbation model for stratified thermal energy storage tanks. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 218-223.	4.8	31
10	Immersed boundary method for the MHD flows of liquid metals. <i>Journal of Computational Physics</i> , 2009, 228, 903-920.	3.8	28
11	Algebraic model for thermocline thermal storage tank with filler material. <i>Solar Energy</i> , 2015, 122, 1154-1157.	6.1	27
12	Analytic models of heterogenous magnetic fields for liquid metal flow simulations. <i>Theoretical and Computational Fluid Dynamics</i> , 2009, 23, 571-578.	2.2	18
13	Interaction of a magnetic dipole with a slowly moving electrically conducting plate. <i>Journal of Engineering Mathematics</i> , 2012, 77, 147-161.	1.2	13
14	Phase States of Mixed Adspecies on Heterogeneous Surfaces. <i>Langmuir</i> , 1997, 13, 1079-1088.	3.5	11
15	Analysis of Thermal Desorption Spectra of Heterogeneous Surfaces. <i>Langmuir</i> , 1999, 15, 6070-6082.	3.5	11
16	Effects of the consistency of the fringing magnetic field on direct numerical simulations of liquid metal flow. <i>Fusion Engineering and Design</i> , 2011, 86, 5-14.	1.9	11
17	Calibration functions in approximate simulations of equilibrium adsorption characteristics. <i>Russian Chemical Bulletin</i> , 2002, 51, 1667-1674.	1.5	6
18	Characteristic features of phase diagrams describing condensation of adsorbate in narrow pores. <i>Russian Chemical Bulletin</i> , 2001, 50, 50-59.	1.5	5

#	ARTICLE	IF	CITATIONS
19	FluxTracer: A Ray Tracer Postprocessor to Assist in the Design and Optimization of Solar Concentrators and Receivers. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, .	1.8	3
20	Object oriented modelling of the CSP-DSW facility. AIP Conference Proceedings, 2019, , .	0.4	1
21	FluxTracer: A 3D-Partitioning and Radiant Flux Computer Tool to Analyse the Optical Behaviour of Light Collection and Concentration Subsystems Using High Performance Computers. , 2018, , .		0
22	Analysis of the focal region of the heliostat field of the ASTRI reference plant with fluxtracer. AIP Conference Proceedings, 2019, , .	0.4	0
23	Numerical simulation of a longitudinal Lorentz force flowmeter for turbulent flows in a circular pipe. , 2007, , 749-749.		0