

Valeria Krzhizhanovskaya

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

673

citations

12

h-index

21

g-index

104

ext. papers

840

ext. citations

2.2

avg, IF

4.14

L-index

#	Paper	IF	Citations
82	Flood early warning system: design, implementation and computational modules. <i>Procedia Computer Science</i> , 2011 , 4, 106-115	1.6	81
81	Anomaly detection in earth dam and levee passive seismic data using support vector machines and automatic feature selection. <i>Journal of Computational Science</i> , 2017 , 20, 143-153	3.4	50
80	Dynamic workload balancing of parallel applications with user-level scheduling on the Grid. <i>Future Generation Computer Systems</i> , 2009 , 25, 28-34	7.5	35
79	Crack Detection in Earth Dam and Levee Passive Seismic Data Using Support Vector Machines. <i>Procedia Computer Science</i> , 2016 , 80, 577-586	1.6	28
78	Time-frequency methods for structural health monitoring. <i>Sensors</i> , 2014 , 14, 5147-73	3.8	23
77	Distributed Simulation of City Inundation by Coupled Surface and Subsurface Porous Flow for Urban Flood Decision Support System. <i>Procedia Computer Science</i> , 2013 , 18, 1046-1056	1.6	20
76	Russian-Dutch double-degree Master's programme in computational science in the age of global education. <i>Journal of Computational Science</i> , 2015 , 10, 288-298	3.4	19
75	A Grid-based Virtual Reactor: Parallel performance and adaptive load balancing. <i>Journal of Parallel and Distributed Computing</i> , 2008 , 68, 596-608	4.4	18
74	Reducing cross-flow vibrations of underflow gates: Experiments and numerical studies. <i>Journal of Fluids and Structures</i> , 2014 , 50, 25-48	3.1	15
73	Free-surface flow simulations for discharge-based operation of hydraulic structure gates. <i>Journal of Hydroinformatics</i> , 2014 , 16, 189-206	2.6	14
72	. <i>IEEE Systems Journal</i> , 2009 , 3, 121-130	4.3	14
71	How to Speed up Optimization? Opposite-center Learning and Its Application to Differential Evolution. <i>Procedia Computer Science</i> , 2015 , 51, 805-814	1.6	13
70	An Approach for Real-time Levee Health Monitoring Using Signal Processing Methods. <i>Procedia Computer Science</i> , 2013 , 18, 2357-2366	1.6	12
69	Differential evolution for system identification of self-excited vibrations. <i>Journal of Computational Science</i> , 2015 , 10, 360-369	3.4	11
68	Data-driven Travel Demand Modelling and Agent-based Traffic Simulation in Amsterdam Urban Area. <i>Procedia Computer Science</i> , 2016 , 80, 2030-2041	1.6	11
67	System dynamics of human body thermal regulation in outdoor environments. <i>Building and Environment</i> , 2018 , 143, 760-769	6.5	11
66	Models of Pedestrian Adaptive Behaviour in Hot Outdoor Public Spaces. <i>Procedia Computer Science</i> , 2017 , 108, 185-194	1.6	11

65	Virtual Dike: multiscale simulation of dike stability. <i>Procedia Computer Science</i> , 2011 , 4, 791-800	1.6	11
64	Simulation of City Evacuation Coupled to Flood Dynamics 2014 , 485-499		11
63	Supplemented Alkaline Phosphatase Supports the Immune Response in Patients Undergoing Cardiac Surgery: Clinical and Computational Evidence. <i>Frontiers in Immunology</i> , 2018 , 9, 2342	8.4	11
62	Analysis of publication activity of computational science society in 2001-2017 using topic modelling and graph theory. <i>Journal of Computational Science</i> , 2018 , 26, 193-204	3.4	10
61	Analysis of Computational Science Papers from ICCS 2001-2016 using Topic Modeling and Graph Theory. <i>Procedia Computer Science</i> , 2017 , 108, 7-17	1.6	10
60	Data-driven Modeling of Transportation Systems and Traffic Data Analysis During a Major Power Outage in the Netherlands. <i>Procedia Computer Science</i> , 2015 , 66, 336-345	1.6	10
59	Modeling earthen dikes using real-time sensor data. <i>Journal of Hydrology</i> , 2013 , 496, 154-165	6	10
58	Artificial intelligence and finite element modelling for monitoring flood defence structures 2011 ,		10
57	Compensation of decreased ion energy by increased hydrogen dilution in plasma deposition of thin film silicon solar cells at low substrate temperatures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 159-160, 53-56	3.1	9
56	Grid-Based Simulation of Industrial Thin-Film Production. <i>Simulation</i> , 2005 , 81, 77-85	1.2	9
55	Digital Transformation and Global Society. <i>Communications in Computer and Information Science</i> , 2016 ,	0.3	8
54	Anomaly Detection in Clinical Data of Patients Undergoing Heart Surgery. <i>Procedia Computer Science</i> , 2017 , 108, 99-108	1.6	8
53	Signal analysis and anomaly detection for flood early warning systems. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1025-1043	2.6	8
52	Multiscale modelling in real-time flood forecasting systems: From sand grain to dike failure and inundation. <i>Procedia Computer Science</i> , 2010 , 1, 809	1.6	8
51	Combining Data-Driven Methods with Finite Element Analysis for Flood Early Warning Systems. <i>Procedia Computer Science</i> , 2015 , 51, 2347-2356	1.6	7
50	The impact of pace of life on pedestrian heat stress: A computational modelling approach. <i>Environmental Research</i> , 2020 , 186, 109397	7.9	7
49	Big Data Meets Computational Science, Preface for ICCS 2014. <i>Procedia Computer Science</i> , 2014 , 29, 1-7	1.6	7
48	Double-degree Master's Program in Computational Science: Experiences of ITMO University and University of Amsterdam. <i>Procedia Computer Science</i> , 2014 , 29, 1433-1445	1.6	7

47	Immune System Model Calibration by Genetic Algorithm. <i>Procedia Computer Science</i> , 2016 , 101, 161-171	1.6	7
46	Coupling Game Theory and Discrete-Event Simulation for Model-Based Ambulance Dispatching. <i>Procedia Computer Science</i> , 2018 , 136, 398-407	1.6	7
45	On some localized waves described by the extended KdV equation. <i>Comptes Rendus - Mecanique</i> , 2005 , 333, 528-533	2.1	6
44	A 3D Virtual Reactor for Simulation of Silicon-Based Film Production 2004 ,		5
43	Identification of risk factors for patients with diabetes: diabetic polyneuropathy case study. <i>BMC Medical Informatics and Decision Making</i> , 2020 , 20, 201	3.6	5
42	Uncertainty quantification patterns for multiscale models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200072	3	5
41	Distributed Simulation of Silicon-Based Film Growth. <i>Lecture Notes in Computer Science</i> , 2002 , 879-887	0.9	5
40	Special features of the growth of hydrogenated amorphous silicon in PECVD reactors. <i>Technical Physics</i> , 2000 , 45, 1032-1041	0.5	4
39	Computer Simulation Approach in Development of Propane-air Combustor Microreactor. <i>Procedia Computer Science</i> , 2016 , 101, 76-85	1.6	4
38	Data through the Computational Lens, Preface for ICCS 2016. <i>Procedia Computer Science</i> , 2016 , 80, 1-7	1.6	4
37	Game of neutrophils: modeling the balance between apoptosis and necrosis. <i>BMC Bioinformatics</i> , 2019 , 20, 475	3.6	4
36	Benchmarking and Adaptive Load Balancing of the Virtual Reactor Application on the Russian-Dutch Grid. <i>Lecture Notes in Computer Science</i> , 2006 , 530-538	0.9	4
35	Identifying Self-excited Vibrations with Evolutionary Computing. <i>Procedia Computer Science</i> , 2014 , 29, 637-647	1.6	3
34	Multiscale Modelling and Simulation Workshop:12 Years of Inspiration. <i>Procedia Computer Science</i> , 2015 , 51, 1082-1087	1.6	3
33	Numerical prediction of the IJkDijk trial embankment failure. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2015 , 168, 158-171	0.9	3
32	Modeling chemical vapor deposition of silicon dioxide in microreactors at atmospheric pressure. <i>Journal of Physics: Conference Series</i> , 2015 , 574, 012145	0.3	3
31	Computational Engineering on the Grid: Crafting a Distributed Virtual Reactor 2006 ,		3
30	Dynamic Load Balancing of Black-Box Applications with a Resource Selection Mechanism on Heterogeneous Resources of the Grid. <i>Lecture Notes in Computer Science</i> , 2007 , 245-260	0.9	3

29	Simulating an Impact of Road Network Improvements on the Performance of Transportation Systems under Critical Load: Agent-based Approach. <i>Procedia Computer Science</i> , 2016 , 101, 253-261	1.6	3
28	Experience of using FEM for real-time flood early warning systems: Monitoring and modeling Boston levee instability. <i>Journal of Computational Science</i> , 2015 , 10, 13-25	3.4	2
27	Young Researchers Advancing Computational Science: Perspectives of the Young Scientists Conference 2015. <i>Procedia Computer Science</i> , 2015 , 66, 1-4	1.6	2
26	A mathematical model and simulation results of plasma enhanced chemical vapor deposition of silicon nitride films. <i>Journal of Physics: Conference Series</i> , 2015 , 574, 012144	0.3	2
25	Dutch-Russian double degree master's program curricula in computational science and high performance computing 2014 ,		2
24	Abnormally high oscillator strengths of the graphene nanoribbons electronic spectrum: quantum chemistry calculations. <i>RSC Advances</i> , 2016 , 6, 75937-75942	3.7	2
23	Evolutionary Game Theory Can Explain the Choice Between Apoptotic and Necrotic Pathways in Neutrophils 2018 ,		2
22	A unifying model to estimate the effect of heat stress in the human innate immunity during physical activities. <i>Scientific Reports</i> , 2021 , 11, 16688	4.9	2
21	Behavioural thermal regulation explains pedestrian path choices in hot urban environments.. <i>Scientific Reports</i> , 2022 , 12, 2441	4.9	2
20	3D simulation and analytical model of chemical heating during silicon wet etching in microchannels. <i>Journal of Physics: Conference Series</i> , 2016 , 681, 012035	0.3	1
19	Detecting Erosion Events in Earth Dam and Levee Passive Seismic Data with Clustering 2015 ,		1
18	Simulation of multiphysics multiscale systems, 7th international workshop. <i>Procedia Computer Science</i> , 2010 , 1, 603-605	1.6	1
17	Simulation of Multiphysics Multiscale Systems: Introduction to the ICCS2007 Workshop. <i>Lecture Notes in Computer Science</i> , 2007 , 755-761	0.9	1
16	Detecting Critical Transitions in the Human Innate Immune System Post-cardiac Surgery. <i>Lecture Notes in Computer Science</i> , 2020 , 371-384	0.9	1
15	A novel three-jet microreactor for localized metal-organic chemical vapour deposition of gallium arsenide: design and simulation. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012018	0.3	1
14	Reproducibility of Two Innate Immune System Models. <i>Communications in Computer and Information Science</i> , 2016 , 501-514	0.3	1
13	Development and simulation of microfluidic Wheatstone bridge for high-precision sensor. <i>Journal of Physics: Conference Series</i> , 2016 , 738, 012071	0.3	1
12	Multiscale Modelling and Simulation, 13th International Workshop. <i>Procedia Computer Science</i> , 2016 , 80, 1242-1243	1.6	1

11	Application of clustering methods for detecting critical acute coronary syndrome patients. <i>Procedia Computer Science</i> , 2018 , 136, 370-379	1.6	1
10	The relationship between cognitive functioning and psychopathology in patients with psychiatric disorders: a transdiagnostic network analysis. <i>Psychological Medicine</i> , 2021 , 1-10	6.9	0
9	Uncertainty quantification of a three-dimensional in-stent restenosis model with surrogate modelling.. <i>Journal of the Royal Society Interface</i> , 2022 , 19, 20210864	4.1	0
8	Numerical simulation of synthesis of fullerenes by the arc discharge method. <i>Journal of Physics: Conference Series</i> , 2013 , 461, 012043	0.3	
7	Multiscale Modelling and Simulation, 14th International Workshop. <i>Procedia Computer Science</i> , 2017 , 108, 1811-1812	1.6	
6	Novel approach to investigation of semiconductor MOCVD by microreactor technology. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 032011	0.3	
5	Modeling of Plasma Chemical Deposition and Degradation of Silicon Thin Films 2006 , 1347-1348		
4	Distributed Simulation of Amorphous Hydrogenated Silicon Films: Numerical Experiments on a Linux Based Computing Environment. <i>Lecture Notes in Computer Science</i> , 2001 , 483-491	0.9	
3	Simulation of Multiphysics Multiscale Systems, 5th International Workshop. <i>Lecture Notes in Computer Science</i> , 2008 , 165-166	0.9	
2	Simulation of Multiphysics Multiscale Systems, 6th International Workshop. <i>Lecture Notes in Computer Science</i> , 2009 , 653-654	0.9	
1	Modelling Neutrophils Response to Various Levels of Insults. <i>Procedia Computer Science</i> , 2018 , 136, 390-397	1.6	1