

Dmitrii O Kharchenko

List of Publications by Year in Descending Order

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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.

57
papers

539
citations

16
h-index

19
g-index

60
ext. papers

597
ext. citations

1.8
avg, IF

4
L-index

#	Paper	IF	Citations
57	Electromigration-induced formation of percolating adsorbate islands during condensation from the gaseous phase: a computational study. <i>Beilstein Journal of Nanotechnology</i> , 2021 , 12, 694-703	3	0
56	Stability of ϵ Nb phase in Zr/Nb alloys under neutron irradiation: Phase field modeling. <i>Journal of Applied Physics</i> , 2021 , 129, 035104	2.5	0
55	First-principle calculations of vacancy clustering in zirconium-based alloys. <i>Journal of Nuclear Materials</i> , 2021 , 554, 153079	3.3	0
54	Phase field modeling precipitation of ϵ phase and mechanical properties change in Zr/Nb alloys under neutron irradiation. <i>Radiation Effects and Defects in Solids</i> , 2020 , 175, 602-626	0.9	2
53	Islands growth control in adsorptive multilayer plasma-condensate systems. <i>Journal of Crystal Growth</i> , 2019 , 514, 1-7	1.6	3
52	Microstructure evolution of cascade annealing in irradiated pure ϵ Zr: a molecular dynamics study. <i>Radiation Effects and Defects in Solids</i> , 2019 , 174, 752-764	0.9	0
51	Nano-sized Adsorbate Island Formation in Adsorptive Anisotropic Multilayer Systems. <i>Springer Proceedings in Physics</i> , 2019 , 135-152	0.2	0
50	Point defects patterning in irradiated ϵ zirconium: numerical study in the framework of the rate theory. <i>Radiation Effects and Defects in Solids</i> , 2018 , 173, 527-554	0.9	2
49	Phase field modelling voids nucleation and growth in binary systems. <i>Condensed Matter Physics</i> , 2018 , 21, 13002	1.3	4
48	An influence of vacancies and elastic deformation coupling onto phase decomposition of binary systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 486, 497-507	3.3	1
47	Nano-sized Adsorbate Structure Formation in Anisotropic Multilayer System. <i>Nanoscale Research Letters</i> , 2017 , 12, 337	5	10
46	Multiscale Modelling of Self-Organization of Non-Equilibrium Point Defects in Irradiated ϵ alpha-Zirconium. <i>Progress in Physics of Metals</i> , 2017 , 18, 295-400	1.6	5
45	Thermal Effects at Nano-sized Pattern Formation in Surface Layers. <i>Springer Proceedings in Physics</i> , 2017 , 365-382	0.2	0
44	Nano-Sized Pattern Formation in Nonequilibrium Adsorptive Systems with Interacting Adsorbate. <i>Springer Proceedings in Physics</i> , 2016 , 69-84	0.2	0
43	Thermal effects in nano-sized adsorbate islands growth processes at vapor deposition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 444, 689-699	3.3	5
42	Self-Organization of an Ensemble of Vacancies under the Spinodal Decomposition of Binary Systems at Continuous Irradiation. <i>Ukrainian Journal of Physics</i> , 2016 , 61, 265-278	0.4	4
41	A Study of Atomic Displacements Produced in Cascades in Irradiated ϵ alpha-Zr by Using Molecular Dynamics Simulations. <i>Metallofizika i Noveishie Tekhnologii</i> , 2016 , 38, 1303-1320	0.5	0

40	An Atomic Scale Study of Structural and Electronic Properties for α -Zirconium with Single Vacancies and Vacancy Clusters. <i>Metallofizika I Noveishie Tekhnologii</i> , 2016 , 38, 1195-1212	0.5	0
39	Modeling phase decomposition and patterning in binary alloy systems subjected to neutron irradiation. <i>Radiation Effects and Defects in Solids</i> , 2016 , 171, 819-839	0.9	5
38	A study of void size growth in nonequilibrium stochastic systems of point defects. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	5
37	Patterning and pattern selection in a surface layer: Feedback between point defects population and surface layer temperature variations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 463, 152-162	3.3	4
36	Scaling properties of pyramidal islands formation process at epitaxial growth. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	15
35	Modeling microstructure evolution of binary systems subjected to irradiation and mechanical loading. <i>Radiation Effects and Defects in Solids</i> , 2015 , 170, 584-600	0.9	6
34	Statistical properties of abnormal nano-sized adsorbate islands growth in a model of adsorptive multilayer system. <i>Surface Science</i> , 2015 , 637-638, 90-100	1.8	11
33	A study of phase separation processes in presence of dislocations in binary systems subjected to irradiation. <i>Condensed Matter Physics</i> , 2015 , 18, 23003	1.3	5
32	Abnormal grain growth in nonequilibrium systems: effects of point defect patterning. <i>Physical Review E</i> , 2014 , 89, 042133	2.4	17
31	Modeling self-organization of nano-size vacancy clusters in stochastic systems subjected to irradiation. <i>Radiation Effects and Defects in Solids</i> , 2014 , 169, 418-436	0.9	18
30	Statistical properties of nanosized clusters on a surface in overdamped stochastic reaction-Cattaneo systems. <i>Surface Science</i> , 2014 , 630, 158-167	1.8	17
29	Universality and self-similar behaviour of non-equilibrium systems with non-Fickian diffusion. <i>Condensed Matter Physics</i> , 2014 , 17, 33004	1.3	7
28	A study of pyramidal islands formation in epitaxy within the generalized phase-field model. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	21
27	Simulation of a Spatial Organization of Point Defects in Irradiated Systems. <i>Ukrainian Journal of Physics</i> , 2013 , 58, 993-1008	0.4	15
26	Ab-initio calculations for the structural properties of Zr-Nb alloys. <i>Condensed Matter Physics</i> , 2013 , 16, 13801	1.3	20
25	Properties of spatial arrangement of V-type defects in irradiated materials: 3D-modelling. <i>Condensed Matter Physics</i> , 2013 , 16, 33001	1.3	14
24	Noise-induced pattern formation in system of point defects subjected to irradiation. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	24
23	Nanosize pattern formation in overdamped stochastic reaction-diffusion systems with interacting adsorbate. <i>Physical Review E</i> , 2012 , 86, 041143	2.4	21

22	Properties of nano-islands formation in nonequilibrium reaction-diffusion systems with memory effects. <i>Physica Scripta</i> , 2012 , 86, 055401	2.6	19
21	Pattern selection processes and noise induced pattern-forming transitions in periodic systems with transient dynamics. <i>Open Physics</i> , 2011 , 9,	1.3	14
20	Phase-field modeling of epitaxial growth in stochastic systems with interacting adsorbate. <i>Physica Scripta</i> , 2011 , 83, 045802	2.6	24
19	Morphology change of the silicon surface induced by Ar ⁺ ion beam sputtering. <i>Condensed Matter Physics</i> , 2011 , 14, 23602	1.3	16
18	Stochastic effects at ripple formation processes in anisotropic systems with multiplicative noise. <i>Physical Review E</i> , 2010 , 82, 061108	2.4	19
17	Phase separation in binary systems with competing internal and external multiplicative noises. <i>European Physical Journal B</i> , 2010 , 76, 37-48	1.2	12
16	Noise induced patterning in periodic systems with conserved dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 3356-3367	3.3	17
15	Stochastic generalization for a hyperbolic model of spinodal decomposition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 3443-3455	3.3	29
14	Noise induced patterning in reaction-diffusion systems with non-Fickian diffusion. <i>Physica D: Nonlinear Phenomena</i> , 2009 , 238, 2251-2260	3.3	18
13	Chaos in a generalized Lorenz system. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 2595-2605	9.3	7
12	Phase separation in binary systems with internal multiplicative noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 5342-5354	3.3	13
11	Phase transitions induced by thermal fluctuations. <i>European Physical Journal B</i> , 2008 , 61, 95-103	1.2	11
10	Phase transitions induced by noise cross-correlations. <i>Physical Review E</i> , 2005 , 71, 041101	2.4	16
9	Evolution of a stochastic system within the framework of Tsallis statistics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 354, 262-280	3.3	9
8	Self-Organized Criticality within the Framework of the Variational Principle 2005 , 695-715		
7	Fluctuation induced reconstruction of phase transition. <i>European Physical Journal B</i> , 2003 , 32, 375-382	1.2	9
6	Self-organized criticality within fractional Lorenz scheme. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 323, 263-293	3.3	20
5	Path integral solution of the system with coloured multiplicative noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 308, 113-124	3.3	4

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| 4 | Coloured noise influence on system evolution. <i>European Physical Journal B</i> , 2002 , 29, 97-103 | 1.2 | 6 |
| 3 | SCALING LAWS IN STOCHASTIC SYSTEMS WITH ANOMALOUS DIFFUSION. <i>Fluctuation and Noise Letters</i> , 2002 , 02, L273-L278 | 1.2 | 3 |
| 2 | Evolution of the system with multiplicative noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 293, 178-188 | 3.3 | 7 |
| 1 | Kinetics of phase transitions with singular multiplicative noise. <i>Physics of the Solid State</i> , 2000 , 42, 532-538 | 3.8 | 4 |