

# Dmitrij Kryzhevich

## 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.

46  
papers

241  
citations

11  
h-index

14  
g-index

59  
ext. papers

412  
ext. citations

0.8  
avg, IF

3.38  
L-index

#	Paper	IF	Citations
46	Evolution of atomic collision cascades in vanadium crystal with internal structure. <i>Crystallography Reports</i> , <b>2009</b> , 54, 1002-1010	0.6	29
45	Primary Ion-Irradiation Damage of BCC-Iron Surfaces. <i>Russian Physics Journal</i> , <b>2017</b> , 60, 170-174	0.7	19
44	Key role of excess atomic volume in structural rearrangements at the front of moving partial dislocations in copper nanocrystals. <i>Scientific Reports</i> , <b>2019</b> , 9, 3867	4.9	19
43	Atomic collision cascades in vanadium crystallites with grain boundaries. <i>Physical Mesomechanics</i> , <b>2009</b> , 12, 20-28	1.6	19
42	Structural features of bicomponent dust Coulomb balls formed by the superposition of fields of different origin in plasma. <i>Physics of Plasmas</i> , <b>2008</b> , 15, 053701	2.1	15
41	Dynamics of the Formation and Propagation of Nanobands with Elastic Lattice Distortion in Nickel Crystallites. <i>Physical Mesomechanics</i> , <b>2018</b> , 21, 492-497	1.6	15
40	Local structural transformations in the fcc lattice in various contact interaction. Molecular dynamics study. <i>Physical Mesomechanics</i> , <b>2012</b> , 15, 147-154	1.6	14
39	MD simulation of plastic deformation nucleation in stressed crystallites under irradiation. <i>Physics of Atomic Nuclei</i> , <b>2016</b> , 79, 1193-1198	0.4	14
38	MD simulation of primary radiation damage in metals with internal structure. <i>Inorganic Materials: Applied Research</i> , <b>2016</b> , 7, 648-657	0.6	13
37	Local structural transformations in copper crystallites under nanoindentation. <i>Technical Physics Letters</i> , <b>2012</b> , 38, 634-637	0.7	11
36	Stage character of cluster formation in metal specimens in electrothermal pulse dispersion. <i>Physical Mesomechanics</i> , <b>2010</b> , 13, 184-188	1.6	11
35	Atomic mechanisms of high-speed migration of symmetric tilt grain boundaries in nanocrystalline Ni. <i>Letters on Materials</i> , <b>2019</b> , 9, 197-201	0.9	11
34	Formation of Point Defect Clusters in Metals with Grain Boundaries under Irradiation. <i>Physical Mesomechanics</i> , <b>2019</b> , 22, 355-364	1.6	9
33	Atomic mechanisms of local structural rearrangements in strained crystalline titanium grain. <i>Technical Physics Letters</i> , <b>2011</b> , 37, 946-948	0.7	8
32	Nucleation of Plasticity in Alpha-Iron Nanowires. <i>Russian Physics Journal</i> , <b>2020</b> , 63, 947-953	0.7	7
31	Molecular dynamics simulation of primary radiation damage in FeCr alloy. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 774, 012130	0.3	5
30	Structural Transformations in the Grain Boundary Region of Nanocrystalline Metals Under Mechanical Loading. <i>Russian Physics Journal</i> , <b>2019</b> , 62, 1357-1362	0.7	5

29	Simulation of nanoparticles with block structure formation by electric dispersion of metal wire. <i>Procedia Engineering</i> , <b>2010</b> , 2, 1589-1593		4
28	Evolution of atomic displacement cascades in Fe-Cr alloy <b>2016</b> ,		2
27	Nanopowder synthesis based on electric explosion technology <b>2017</b> ,		2
26	Structural features of two-component dusty plasma Coulomb balls. <i>Technical Physics Letters</i> , <b>2008</b> , 34, 319-322	0.7	2
25	Influence of the size and wall curvature of nanopores on the gas distribution pattern in them. <i>Journal of Applied Mechanics and Technical Physics</i> , <b>2017</b> , 58, 31-35	0.6	1
24	Mobility of edge dislocations in stressed iron crystals during irradiation <b>2015</b> ,		1
23	Computer-aided simulation of gas adsorption processes in nanopores <b>2014</b> ,		1
22	Calculation of diffusion properties of grain boundaries in nanocrystalline copper. <i>Physical Mesomechanics</i> , <b>2008</b> , 11, 25-28	1.6	1
21	Simulation of interaction of edge dislocations with radiation defects in Fe-10Cr alloy. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1115, 052032	0.3	1
20	Peculiarities of structural transformations in metal nanoparticles at high speed collisions. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 946, 012049	0.3	1
19	Features of primary radiation damage in FeCr alloy near free surfaces. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 946, 012015	0.3	1
18	Molecular-dynamics study of crystal structure defect formation by the thermal fluctuation mechanism during high-rate deformation. <i>Technical Physics Letters</i> , <b>2006</b> , 32, 101-102	0.7	0
17	Nucleation and Evolution of Plasticity in Nanocrystalline Bcc-Iron under Shear Loading. <i>Russian Physics Journal</i> , <b>2021</b> , 63, 1854-1860	0.7	0
16	Influence of grain size on the nucleation and development of plasticity in nanocrystalline FeNi films. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1093, 012012	0.4	0
15	Atomistic simulation of structural damage during ion irradiation of iron single crystals. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 830, 012067	0.3	
14	Computer simulation of metal wire explosion under high rate heating. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 830, 012115	0.3	
13	Peculiarities of grain boundary migration in vanadium crystal under shear loading. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1147, 012032	0.3	
12	Dynamics of dislocation loops in radiation-damaged Fe-10Cr crystallites. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1147, 012084	0.3	

11	Features of structural rearrangements at onset of plasticity in bcc iron with free surfaces of different orientation. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1147, 012031	0.3
10	Features of plastic deformation nucleation in the elastically loaded aluminium crystallites during irradiation. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 830, 012068	0.3
9	Simulation of plastic deformation initiation in crystal materials under dynamic loading. <i>Procedia Engineering</i> , <b>2010</b> , 2, 1579-1587	
8	Nucleation of structural defects in materials with a perfect crystal lattice by thermal fluctuations under dynamic loading. <i>Combustion, Explosion and Shock Waves</i> , <b>2006</b> , 42, 490-492	1
7	Excess Atomic Volume and its Role in Fracture of Nickel Single Crystals. <i>Russian Physics Journal</i> , <b>2021</b> , 64, 1198-1204	0.7
6	Nucleation of twins and dislocations in V-Ti alloys under various straining conditions. <i>EPJ Web of Conferences</i> , <b>2019</b> , 221, 01023	0.3
5	Particularities of changes in internal structure of nanocrystalline Ni under mechanical loading. <i>EPJ Web of Conferences</i> , <b>2019</b> , 221, 01025	0.3
4	Simulation of benzylpenicillin molecule distribution in slit-shaped Si nanopores. <i>EPJ Web of Conferences</i> , <b>2019</b> , 221, 01024	0.3
3	Peculiarities of the development of plastic deformation in a textured FeNi alloy with a gradient grain structure. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2021</b> , 1093, 012013	0.4
2	Features of plasticity nucleation in deformed vanadium crystallite under irradiation. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1115, 032015	0.3
1	Atomic mechanisms of grain structure restructuring in surface of aluminum during ion implantation. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 946, 012023	0.3