

Dmitrij Kryzhevich

List of Publications by Year in descending order

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59
papers

428
citations

623188

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59
all docs

59
docs citations

59
times ranked

138
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of atomic collision cascades in vanadium crystal with internal structure. Crystallography Reports, 2009, 54, 1002-1010.	0.1	37
2	Key role of excess atomic volume in structural rearrangements at the front of moving partial dislocations in copper nanocrystals. Scientific Reports, 2019, 9, 3867.	1.6	36
3	Primary Ion-Irradiation Damage of BCC-Iron Surfaces. Russian Physics Journal, 2017, 60, 170-174.	0.2	30
4	Formation of Point Defect Clusters in Metals with Grain Boundaries under Irradiation. Physical Mesomechanics, 2019, 22, 355-364.	1.0	30
5	Atomic collision cascades in vanadium crystallites with grain boundaries. Physical Mesomechanics, 2009, 12, 20-28.	1.0	28
6	MD simulation of plastic deformation nucleation in stressed crystallites under irradiation. Physics of Atomic Nuclei, 2016, 79, 1193-1198.	0.1	28
7	Atomic mechanisms of high-speed migration of symmetric tilt grain boundaries in nanocrystalline Ni. Letters on Materials, 2019, 9, 197-201.	0.2	27
8	Dynamics of the Formation and Propagation of Nanobands with Elastic Lattice Distortion in Nickel Crystallites. Physical Mesomechanics, 2018, 21, 492-497.	1.0	25
9	Structural features of bicomponent dust Coulomb balls formed by the superposition of fields of different origin in plasma. Physics of Plasmas, 2008, 15, .	0.7	24
10	Stage character of cluster formation in metal specimens in electrothermal pulse dispersion. Physical Mesomechanics, 2010, 13, 184-188.	1.0	24
11	Local structural transformations in the fcc lattice in various contact interaction. Molecular dynamics study. Physical Mesomechanics, 2012, 15, 147-154.	1.0	24
12	Local structural transformations in copper crystallites under nanoindentation. Technical Physics Letters, 2012, 38, 634-637.	0.2	23
13	Atomic mechanisms of local structural rearrangements in strained crystalline titanium grain. Technical Physics Letters, 2011, 37, 946-948.	0.2	20
14	Nucleation of Plasticity in Alpha-Iron Nanowires. Russian Physics Journal, 2020, 63, 947-953.	0.2	15
15	MD simulation of primary radiation damage in metals with internal structure. Inorganic Materials: Applied Research, 2016, 7, 648-657.	0.1	14
16	Structural Transformations in the Grain Boundary Region of Nanocrystalline Metals Under Mechanical Loading. Russian Physics Journal, 2019, 62, 1357-1362.	0.2	10
17	Simulation of nanoparticles with block structure formation by electric dispersion of metal wire. Procedia Engineering, 2010, 2, 1589-1593.	1.2	6
18	Molecular dynamics simulation of primary radiation damage in Fe-Cr alloy. Journal of Physics: Conference Series, 2016, 774, 012130.	0.3	6

#	ARTICLE	IF	CITATIONS
19	Structural features of two-component dusty plasma Coulomb balls. Technical Physics Letters, 2008, 34, 319-322.	0.2	3
20	Computer-aided simulation of gas adsorption processes in nanopores. , 2014, , .		2
21	Evolution of atomic displacement cascades in Fe-Cr alloy. AIP Conference Proceedings, 2016, , .	0.3	2
22	Nanopowder synthesis based on electric explosion technology. AIP Conference Proceedings, 2017, , .	0.3	2
23	Simulation of interaction of edge dislocations with radiation defects in Fe-10Cr alloy. Journal of Physics: Conference Series, 2018, 1115, 052032.	0.3	2
24	Molecular-dynamics study of crystal structure defect formation by the thermal fluctuation mechanism during high-rate deformation. Technical Physics Letters, 2006, 32, 101-102.	0.2	1
25	Calculation of diffusion properties of grain boundaries in nanocrystalline copper. Physical Mesomechanics, 2008, 11, 25-28.	1.0	1
26	Mobility of edge dislocations in stressed iron crystals during irradiation. AIP Conference Proceedings, 2015, , .	0.3	1
27	Effect of the shape and size of carbon nanopores on kinetic properties of molecular hydrogen. AIP Conference Proceedings, 2015, , .	0.3	1
28	Atomistic simulation of structural damage during ion irradiation of iron single crystals. Journal of Physics: Conference Series, 2017, 830, 012067.	0.3	1
29	Influence of the size and wall curvature of nanopores on the gas distribution pattern in them. Journal of Applied Mechanics and Technical Physics, 2017, 58, 31-35.	0.1	1
30	Peculiarities of structural transformations in metal nanoparticles at high speed collisions. Journal of Physics: Conference Series, 2018, 946, 012049.	0.3	1
31	Features of primary radiation damage in Fe-Cr alloy near free surfaces. Journal of Physics: Conference Series, 2018, 946, 012015.	0.3	1
32	Influence of grain size on the nucleation and development of plasticity in nanocrystalline FeNi films. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012012.	0.3	1
33	Nucleation and Evolution of Plasticity in Nanocrystalline Bcc-Iron under Shear Loading. Russian Physics Journal, 2021, 63, 1854-1860.	0.2	1
34	Nucleation of structural defects in materials with a perfect crystal lattice by thermal fluctuations under dynamic loading. Combustion, Explosion and Shock Waves, 2006, 42, 490-492.	0.3	0
35	Protodefekt as a Basis of Multilevel Nanoscale Plasticity of Crystal Materials. AIP Conference Proceedings, 2008, , .	0.3	0
36	Simulation of plastic deformation initiation in crystal materials under dynamic loading. Procedia Engineering, 2010, 2, 1579-1587.	1.2	0

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37	Dynamics of particle formation by electric synchronous explosion of wires. AIP Conference Proceedings, 2015, , .	0.3	0
38	Features of particle synthesis at metal wire dispersion. AIP Conference Proceedings, 2016, , .	0.3	0
39	Peculiarities of molecular hydrogen behavior in palladium nanopores of different morphology. AIP Conference Proceedings, 2016, , .	0.3	0
40	Computer simulation of metal wire explosion under high rate heating. Journal of Physics: Conference Series, 2017, 830, 012115.	0.3	0
41	Fragmentation features of vanadium crystallite at deformation in constrained conditions. AIP Conference Proceedings, 2017, , .	0.3	0
42	Stability of localized nonequilibrium structural states in nickel under external loading. AIP Conference Proceedings, 2017, , .	0.3	0
43	Structure of bicomponent particles synthesized from colliding metal clusters. AIP Conference Proceedings, 2017, , .	0.3	0
44	Grain boundary effect on radiation damage in Fe-Cr alloy. AIP Conference Proceedings, 2017, , .	0.3	0
45	Atomic mechanisms for formation of localized nonequilibrium structural states in nickel under complex mechanical loading. AIP Conference Proceedings, 2017, , .	0.3	0
46	Features of plastic deformation nucleation in the elastically loaded aluminium crystallites during irradiation. Journal of Physics: Conference Series, 2017, 830, 012068.	0.3	0
47	Atomic mechanisms of plasticity nucleation in nanocrystalline vanadium. AIP Conference Proceedings, 2018, , .	0.3	0
48	Features of plasticity nucleation in deformed vanadium crystallite under irradiation. Journal of Physics: Conference Series, 2018, 1115, 032015.	0.3	0
49	Atomic mechanisms of grain structure restructuring in surface of aluminum during ion implantation. Journal of Physics: Conference Series, 2018, 946, 012023.	0.3	0
50	Peculiarities of plastic deformation nucleation in nanocrystalline vanadium under shear loading. AIP Conference Proceedings, 2018, , .	0.3	0
51	Peculiarities of grain boundary migration in vanadium crystal under shear loading. Journal of Physics: Conference Series, 2019, 1147, 012032.	0.3	0
52	Dynamics of dislocation loops in radiation-damaged Fe-10Cr crystallites. Journal of Physics: Conference Series, 2019, 1147, 012084.	0.3	0
53	Features of structural rearrangements at onset of plasticity in bcc iron with free surfaces of different orientation. Journal of Physics: Conference Series, 2019, 1147, 012031.	0.3	0
54	Nucleation of twins and dislocations in V-Ti alloys under various straining conditions. EPJ Web of Conferences, 2019, 221, 01023.	0.1	0

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55	Particularities of changes in internal structure of nanocrystalline Ni under mechanical loading. EPJ Web of Conferences, 2019, 221, 01025.	0.1	0
56	Simulation of benzylpenicillin molecule distribution in slit-shaped Si nanopores. EPJ Web of Conferences, 2019, 221, 01024.	0.1	0
57	Features of defect nucleation in nanosized crystals with BCC lattice. AIP Conference Proceedings, 2019, , .	0.3	0
58	Peculiarities of the development of plastic deformation in a textured FeNi alloy with a gradient grain structure. IOP Conference Series: Materials Science and Engineering, 2021, 1093, 012013.	0.3	0
59	Excess Atomic Volume and its Role in Fracture of Nickel Single Crystals. Russian Physics Journal, 2021, 64, 1198-1204.	0.2	0