

Dmitrij Kryzhevich

List of Publications by Year in descending order

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59
papers

428
citations

623188

14
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713013

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all docs

59
docs citations

59
times ranked

138
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Nucleation and Evolution of Plasticity in Nanocrystalline Bcc-Iron under Shear Loading. Russian Physics Journal, 2021, 63, 1854-1860.	0.2	1
4	Excess Atomic Volume and its Role in Fracture of Nickel Single Crystals. Russian Physics Journal, 2021, 64, 1198-1204.	0.2	0
5	Nucleation of Plasticity in Alpha-Iron Nanowires. Russian Physics Journal, 2020, 63, 947-953.	0.2	15
6	Formation of Point Defect Clusters in Metals with Grain Boundaries under Irradiation. Physical Mesomechanics, 2019, 22, 355-364.	1.0	30
7	Peculiarities of grain boundary migration in vanadium crystal under shear loading. Journal of Physics: Conference Series, 2019, 1147, 012032.	0.3	0
8	Dynamics of dislocation loops in radiation-damaged Fe-10Cr crystallites. Journal of Physics: Conference Series, 2019, 1147, 012084.	0.3	0
9	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
10	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
11	Nucleation of twins and dislocations in V-Ti alloys under various straining conditions. EPJ Web of Conferences, 2019, 221, 01023.	0.1	0
12	Particularities of changes in internal structure of nanocrystalline Ni under mechanical loading. EPJ Web of Conferences, 2019, 221, 01025.	0.1	0
13	Simulation of benzylpenicillin molecule distribution in slit-shaped Si nanopores. EPJ Web of Conferences, 2019, 221, 01024.	0.1	0
14	Features of defect nucleation in nanosized crystals with BCC lattice. AIP Conference Proceedings, 2019, , .	0.3	0
15	Structural Transformations in the Grain Boundary Region of Nanocrystalline Metals Under Mechanical Loading. Russian Physics Journal, 2019, 62, 1357-1362.	0.2	10
16	Atomic mechanisms of high-speed migration of symmetric tilt grain boundaries in nanocrystalline Ni. Letters on Materials, 2019, 9, 197-201.	0.2	27
17	Dynamics of the Formation and Propagation of Nanobands with Elastic Lattice Distortion in Nickel Crystallites. Physical Mesomechanics, 2018, 21, 492-497.	1.0	25
18	Atomic mechanisms of plasticity nucleation in nanocrystalline vanadium. AIP Conference Proceedings, 2018, , .	0.3	0

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19	Features of plasticity nucleation in deformed vanadium crystallite under irradiation. Journal of Physics: Conference Series, 2018, 1115, 032015.	0.3	0
20	Atomic mechanisms of grain structure restructuring in surface of aluminum during ion implantation. Journal of Physics: Conference Series, 2018, 946, 012023.	0.3	0
21	Peculiarities of plastic deformation nucleation in nanocrystalline vanadium under shear loading. AIP Conference Proceedings, 2018, , .	0.3	0
22	Simulation of interaction of edge dislocations with radiation defects in Fe-10Cr alloy. Journal of Physics: Conference Series, 2018, 1115, 052032.	0.3	2
23	Peculiarities of structural transformations in metal nanoparticles at high speed collisions. Journal of Physics: Conference Series, 2018, 946, 012049.	0.3	1
24	Features of primary radiation damage in Fe-Cr alloy near free surfaces. Journal of Physics: Conference Series, 2018, 946, 012015.	0.3	1
25	Primary Ion-Irradiation Damage of BCC-Iron Surfaces. Russian Physics Journal, 2017, 60, 170-174.	0.2	30
26	Atomistic simulation of structural damage during ion irradiation of iron single crystals. Journal of Physics: Conference Series, 2017, 830, 012067.	0.3	1
27	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
28	Computer simulation of metal wire explosion under high rate heating. Journal of Physics: Conference Series, 2017, 830, 012115.	0.3	0
29	Nanopowder synthesis based on electric explosion technology. AIP Conference Proceedings, 2017, , .	0.3	2
30	Fragmentation features of vanadium crystallite at deformation in constrained conditions. AIP Conference Proceedings, 2017, , .	0.3	0
31	Stability of localized nonequilibrium structural states in nickel under external loading. AIP Conference Proceedings, 2017, , .	0.3	0
32	Structure of bicomponent particles synthesized from colliding metal clusters. AIP Conference Proceedings, 2017, , .	0.3	0
33	Grain boundary effect on radiation damage in Fe-Cr alloy. AIP Conference Proceedings, 2017, , .	0.3	0
34	Atomic mechanisms for formation of localized nonequilibrium structural states in nickel under complex mechanical loading. AIP Conference Proceedings, 2017, , .	0.3	0
35	Features of plastic deformation nucleation in the elastically loaded aluminium crystallites during irradiation. Journal of Physics: Conference Series, 2017, 830, 012068.	0.3	0
36	Features of particle synthesis at metal wire dispersion. AIP Conference Proceedings, 2016, , .	0.3	0

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37	MD simulation of primary radiation damage in metals with internal structure. Inorganic Materials: Applied Research, 2016, 7, 648-657.	0.1	14
38	MD simulation of plastic deformation nucleation in stressed crystallites under irradiation. Physics of Atomic Nuclei, 2016, 79, 1193-1198.	0.1	28
39	Molecular dynamics simulation of primary radiation damage in Fe-Cr alloy. Journal of Physics: Conference Series, 2016, 774, 012130.	0.3	6
40	Peculiarities of molecular hydrogen behavior in palladium nanopores of different morphology. AIP Conference Proceedings, 2016, , .	0.3	0
41	Evolution of atomic displacement cascades in Fe-Cr alloy. AIP Conference Proceedings, 2016, , .	0.3	2
42	Mobility of edge dislocations in stressed iron crystals during irradiation. AIP Conference Proceedings, 2015, , .	0.3	1
43	Effect of the shape and size of carbon nanopores on kinetic properties of molecular hydrogen. AIP Conference Proceedings, 2015, , .	0.3	1
44	Dynamics of particle formation by electric synchronous explosion of wires. AIP Conference Proceedings, 2015, , .	0.3	0
45	Computer-aided simulation of gas adsorption processes in nanopores. , 2014, , .		2
46	Local structural transformations in copper crystallites under nanoindentation. Technical Physics Letters, 2012, 38, 634-637.	0.2	23
47	Local structural transformations in the fcc lattice in various contact interaction. Molecular dynamics study. Physical Mesomechanics, 2012, 15, 147-154.	1.0	24
48	Atomic mechanisms of local structural rearrangements in strained crystalline titanium grain. Technical Physics Letters, 2011, 37, 946-948.	0.2	20
49	Simulation of plastic deformation initiation in crystal materials under dynamic loading. Procedia Engineering, 2010, 2, 1579-1587.	1.2	0
50	Simulation of nanoparticles with block structure formation by electric dispersion of metal wire. Procedia Engineering, 2010, 2, 1589-1593.	1.2	6
51	Stage character of cluster formation in metal specimens in electrothermal pulse dispersion. Physical Mesomechanics, 2010, 13, 184-188.	1.0	24
52	Atomic collision cascades in vanadium crystallites with grain boundaries. Physical Mesomechanics, 2009, 12, 20-28.	1.0	28
53	Evolution of atomic collision cascades in vanadium crystal with internal structure. Crystallography Reports, 2009, 54, 1002-1010.	0.1	37
54	Calculation of diffusion properties of grain boundaries in nanocrystalline copper. Physical Mesomechanics, 2008, 11, 25-28.	1.0	1

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55	Structural features of two-component dusty plasma Coulomb balls. Technical Physics Letters, 2008, 34, 319-322.	0.2	3
56	Protodefekt as a Basis of Multilevel Nanoscale Plasticity of Crystal Materials. AIP Conference Proceedings, 2008, , .	0.3	0
57	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
58	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
59	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