

Jan Fikar

List of Publications by Year in descending order

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papers

491
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949033

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29
all docs

29
docs citations

29
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	Deformation mechanisms of Al thin films: In-situ TEM and molecular dynamics study. Scripta Materialia, 2022, 215, 114688.	2.6	4
2	In-situ TEM deformation of free-standing thin films and molecular dynamics simulations. AIP Conference Proceedings, 2021, , .	0.3	1
3	Tensile Deformation of Al Thin Films Studied by In-situ TEM and Molecular Dynamics Simulations. Microscopy and Microanalysis, 2021, 27, 71-72.	0.2	0
4	Stability of small vacancy clusters in tungsten by molecular dynamics. Nuclear Instruments & Methods in Physics Research B, 2020, 464, 56-59.	0.6	4
5	Elasticity of Phases in Fe-Al-Ti Superalloys: Impact of Atomic Order and Anti-Phase Boundaries. Crystals, 2019, 9, 299.	1.0	11
6	Nano-sized prismatic vacancy dislocation loops and vacancy clusters in tungsten. Nuclear Materials and Energy, 2018, 16, 60-65.	0.6	20
7	Effect of orientation of prismatic dislocation loops on interaction with free surfaces in BCC iron. Journal of Nuclear Materials, 2017, 497, 161-165.	1.3	9
8	Interaction of irradiation-induced prismatic dislocation loops with free surfaces in tungsten. Nuclear Instruments & Methods in Physics Research B, 2017, 393, 186-189.	0.6	18
9	Interactions of prismatic dislocation loops with free surfaces in thin foils of body-centered cubic iron. Acta Materialia, 2015, 99, 392-401.	3.8	15
10	Review on the EFDA programme on tungsten materials technology and science. Journal of Nuclear Materials, 2011, 417, 463-467.	1.3	157
11	Atomistic simulations of nanometric dislocation loops in bcc tungsten. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 3218-3222.	0.6	21
12	Molecular dynamics simulation of radiation damage in bcc tungsten. Journal of Nuclear Materials, 2009, 386-388, 97-101.	1.3	58
13	Dislocation-void interaction in Fe: A comparison between molecular dynamics and dislocation dynamics. Journal of Nuclear Materials, 2009, 386-388, 102-105.	1.3	40
14	Effect of interatomic potential on the behavior of dislocation-defect interaction simulation in $\hat{\alpha}$ -Fe. Journal of Nuclear Materials, 2008, 382, 147-153.	1.3	44
15	Molecular dynamics simulation of radiation damage in bcc tungsten. Nuclear Instruments & Methods in Physics Research B, 2007, 255, 27-31.	0.6	42
16	Spectroscopic Ellipsometry as a Tool for On-Line Monitoring and Control of Surface Treatment Processes. Materials Science Forum, 2006, 518, 423-430.	0.3	5
17	Dislocation multiplication rate in the early stage of germanium plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 400-401, 431-434.	2.6	3
18	Anisotropy of Absorption and Luminescence of Multilayer InAs/GaAs Quantum Dots. AIP Conference Proceedings, 2005, , .	0.3	0

#	ARTICLE	IF	CITATIONS
19	Experimental study of Ni ₃ Al slip traces by atomic force microscopy: an evidence of mobile dislocation exhaustion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 387-389, 926-930.	2.6	8
20	Mechanical spectroscopy of Al-Cu-Fe quasicrystalline coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 370, 524-530.	2.6	2
21	Mechanical spectroscopy of decagonal Al-Cu-Fe-Cr quasicrystalline coatings. <i>Philosophical Magazine</i> , 2004, 84, 3571-3684.	0.7	2
22	Searching for the proper law of dislocation multiplication in covalent crystals. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12887-12895.	0.7	5
23	Mechanical Spectroscopy of Icosahedral Al-Cu-Fe Quasicrystals Metal-Based Composites. <i>Defect and Diffusion Forum</i> , 2002, 203-205, 289-0.	0.4	3
24	Mechanical behaviour versus structure of Al 63.6 Cu 24.0 Fe 12.4. <i>Philosophical Magazine Letters</i> , 2002, 82, 183-189.	0.5	11
25	Low Temperature Plastic Behaviour of Icosahedral AlCuFe Quasicrystals. <i>Materials Research Society Symposia Proceedings</i> , 2000, 643, 741.	0.1	1
26	Generating conjecture and Einstein-Maxwell field of plane symmetry. <i>European Physical Journal D</i> , 1999, 49, 1423-1432.	0.4	1
27	Atomistic Simulation of $\frac{1}{2}\langle 111 \rangle$ Screw Dislocations in BCC Tungsten. <i>Advanced Materials Research</i> , 0, 59, 247-252.	0.3	2
28	Shape of Small Prismatic Dislocation Loops in Tungsten and Iron. <i>Solid State Phenomena</i> , 0, 258, 97-101.	0.3	4