

Andriy A Ostapovets

List of Publications by Year in descending order

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papers

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all docs

37
docs citations

37
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	Twinning disconnections and basal prismatic twin boundary in magnesium. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 025015.	2.0	79
2	Characterization of the matrix-twin interface of a (101̄,2) twin during growth. Philosophical Magazine, 2014, 94, 2827-2839.	1.6	66
3	On the relationship between the shuffling-dominated and shear-dominated mechanisms for twinning in magnesium. Scripta Materialia, 2013, 69, 287-290.	5.2	61
4	Characteristics of coincident site lattice grain boundaries developed during equal channel angular pressing of magnesium single crystals. Scripta Materialia, 2011, 64, 470-473.	5.2	52
5	Slip dislocation and twin nucleation mechanisms in hcp metals. Journal of Materials Science, 2017, 52, 533-540.	3.7	43
6	{ }-{} Double twinning in magnesium. Philosophical Magazine Letters, 2011, 91, 537-544.	1.2	34
7	New misorientation scheme for a visco-plastic self-consistent model: Equal channel angular pressing of magnesium single crystals. International Journal of Plasticity, 2012, 29, 1-12.	8.8	30
8	Deformation due to migration of faceted {101̄ ² } twin boundaries in magnesium and cobalt. Philosophical Magazine, 2015, 95, 4106-4117.	1.6	29
9	Reversible motion of twin boundaries in AZ31 alloy and new design of magnesium alloys as smart materials. Materials & Design, 2014, 56, 509-516.	5.1	27
10	Review of Non-Classical Features of Deformation Twinning in hcp Metals and Their Description by Disconnection Mechanisms. Metals, 2020, 10, 1134.	2.3	26
11	Investigation of twin-twin interaction in deformed magnesium alloy. Philosophical Magazine, 2018, 98, 741-751.	1.6	24
12	On the relationship between and conjugate twins and double extension twins in rolled pure Mg. Philosophical Magazine, 2017, 97, 1088-1101.	1.6	22
13	Visco-plastic self-consistent modelling of a grain boundary misorientation distribution after equal-channel angular pressing in an AZ31 magnesium alloy. Journal of Materials Science, 2013, 48, 2123-2134.	3.7	19
14	Structure and stability of threading edge and screw dislocations in bulk GaN. Computational Materials Science, 2015, 99, 195-202.	3.0	19
15	Non-diffusional growth mechanism of I1 basal stacking-faults inside twins in hcp metals. Scripta Materialia, 2019, 172, 149-153.	5.2	16
16	Boundary plane distribution for Σ 13 grain boundaries in magnesium. Materials Letters, 2014, 137, 102-105.	2.6	14
17	Non-Schmid behavior of extended dislocations in computer simulations of magnesium. Computational Materials Science, 2018, 142, 261-267.	3.0	9
18	Planar Defects on (112) in BCC Crystals. Materials Science Forum, 2008, 567-568, 69-72.	0.3	8

#	ARTICLE	IF	CITATIONS
19	Unravelling the nucleation and growth of $\langle 11\bar{2}0 \rangle$ twins. <i>Scripta Materialia</i> , 2022, 215, 114730.	5.2	8
20	On basal-prismatic twinning interfaces in magnesium. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 63, 012134.	0.6	7
21	Peierls barriers of $\langle 11\bar{2}0 \rangle$ -type edge and screw dislocations moving on basal and prismatic planes in magnesium. <i>Low Temperature Physics</i> , 2017, 43, 421-427.	0.6	7
22	Atomistic model of type-II twin boundary. <i>Computational Materials Science</i> , 2010, 49, 882-887.	3.0	6
23	Texture evolution in oriented magnesium single crystals processed by equal channel angular pressing. <i>Philosophical Magazine</i> , 2012, 92, 1223-1237.	1.6	6
24	Secondary twinning in zinc. <i>Philosophical Magazine Letters</i> , 2018, 98, 437-445.	1.2	4
25	The matrix-twin transition in a perfect Mg crystal: Ab initio study. <i>International Journal of Plasticity</i> , 2018, 108, 186-200.	8.8	4
26	Variability of Twin Boundary Structure in Computer Simulations of Tensile Twins in Magnesium. <i>Defect and Diffusion Forum</i> , 0, 385, 241-244.	0.4	4
27	On faceting of $\{101\bar{1}\}$ and $\{101\bar{2}\}$ twin boundaries in hcp metals. <i>Materials Letters</i> , 2019, 247, 99-101.	2.6	4
28	Interaction of Migrating Twin Boundaries with Obstacles in Magnesium. <i>Metals</i> , 2021, 11, 154.	2.3	3
29	Austenite-martensite interfaces in strained foils of CuAlNi alloy. <i>International Journal of Materials Research</i> , 2009, 100, 342-344.	0.3	3
30	Displacive Phase Transformations. <i>Solid State Phenomena</i> , 0, 150, 159-174.	0.3	2
31	Evaluation of the Peierls stress for boundary dislocations. <i>Physics of Metals and Metallography</i> , 2011, 111, 229-235.	1.0	2
32	Thermoactivated Dislocation Motion in Rolled and Extruded Magnesium: Data of the Low-Temperature Acoustic Experiment. <i>Metals</i> , 2021, 11, 1647.	2.3	2
33	Faceting of twin interfaces in rolled pure magnesium. <i>Philosophical Magazine</i> , 2022, 102, 861-874.	1.6	2
34	Modeling of (121) Twin Boundaries in 2H Martensite. <i>Key Engineering Materials</i> , 0, 465, 65-68.	0.4	1
35	Non-Schmid Phenomena in HCP Materials. <i>Solid State Phenomena</i> , 0, 258, 29-32.	0.3	1
36	Effect of Cd content on the kinetics of low-temperature structural transformation in In-Cd alloy. <i>Low Temperature Physics</i> , 2010, 36, 272-278.	0.6	0

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37	The Effect of Pressure on Martensitic Phase Transformations. Advances in Science and Technology, 2012, 78, 13-18.	0.2	0