Andriy A Ostapovets

List of Publications by Year
in descending order

37	644	567281 15	580821 25
papers	citations	h-index	g-index

37	37	37	495
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Faceting of twin interfaces in rolled pure magnesium. Philosophical Magazine, 2022, 102, 861-874.	1.6	2
2	Unravelling the nucleation and growth of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.svg"><mml:mrow><mml:mo>{</mml:mo><mml:mn>11</mml:mn><mml:mtext>-</mml:mtext><mml:mover accent="true"><mml:mn>2</mml:mn><mml:mo>Â¯</mml:mo></mml:mover><mml:mn>2</mml:mn><mml:mo>}</mml:mo></mml:mro twins. Scripta Materialia, 2022, 215, 114730.	3.2	8
3	Interaction of Migrating Twin Boundaries with Obstacles in Magnesium. Metals, 2021, 11, 154.	2.3	3
4	Thermoactivated Dislocation Motion in Rolled and Extruded Magnesium: Data of the Low-Temperature Acoustic Experiment. Metals, 2021, 11, 1647.	2.3	2
5	Review of Non-Classical Features of Deformation Twinning in hcp Metals and Their Description by Disconnection Mechanisms. Metals, 2020, 10, 1134.	2.3	26
6	Non-diffusional growth mechanism of I1 basal stacking-faults inside twins in hcp metals. Scripta Materialia, 2019, 172, 149-153.	5.2	16
7	On faceting of {101Â¯1} and {101Â¯2} twin boundaries in hcp metals. Materials Letters, 2019, 247, 99-101.	2.6	4
8	Investigation of twinâ€“twin interaction in deformed magnesium alloy. Philosophical Magazine, 2018, 98, 741-751.	1.6	24
9	Non-Schmid behavior of extended dislocations in computer simulations of magnesium. Computational Materials Science, 2018, 142, 261-267.	3.0	9
10	Secondary twinning in zinc. Philosophical Magazine Letters, 2018, 98, 437-445.	1.2	4
11	The matrixâ€“twin transition in a perfect Mg crystal: Ab initio study. International Journal of Plasticity, 2018, 108, 186-200.	8.8	4
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	Peierls barriers of a-type edge and screw dislocations moving on basal and prismatic planes in magnesium. Low Temperature Physics, 2017, 43, 421-427.	0.6	7
14	Slip dislocation and twin nucleation mechanisms in hcp metals. Journal of Materials Science, 2017, 52, 533-540.	3.7	43
15	Structure and stability of threading edge and screw dislocations in bulk GaN. Computational Materials Science, 2015, 99, 195-202.	3.0	19
16	Deformation due to migration of faceted {101Â¯2} twin boundaries in magnesium and cobalt. Philosophical Magazine, 2015, 95, 4106-4117.	1.6	29
17	Characterization of the matrixâ€“twin interface of a (101Ì„2) twin during growth. Philosophical Magazine, 2014, 94, 2827-2839.	1.6	66
18	Twinning disconnections and basalâ€“prismatic twin boundary in magnesium. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 025015.	2.0	79

#	Article	IF	Citations
19	Boundary plane distribution for Î£13 grain boundaries in magnesium. Materials Letters, 2014, 137, 102-105.	2.6	14
20	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
21	On basal-prismatic twinning interfaces in magnesium. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012134.	0.6	7
22	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
23	On the relationship between the â€œshuffling-dominatedâ€•and â€œshear-dominatedâ€•mechanisms for twinning in magnesium. Scripta Materialia, 2013, 69, 287-290.	5.2	61
24	The Effect of Pressure on Martensitic Phase Transformations. Advances in Science and Technology, 2012, 78, 13-18.	0.2	0
25	Texture evolution in oriented magnesium single crystals processed by equal channel angular pressing. Philosophical Magazine, 2012, 92, 1223-1237.	1.6	6
26	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
27	{ }-{ } Double twinning in magnesium. Philosophical Magazine Letters, 2011, 91, 537-544.	1.2	34
28	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
29	Evaluation of the Peierls stress for boundary dislocations. Physics of Metals and Metallography, 2011, 111, 229-235.	1.0	2
30	Atomistic model of type-II twin boundary. Computational Materials Science, 2010, 49, 882-887.	3.0	6
31	Effect of Cd content on the kinetics of low-temperature structural transformation in Inâ€“Cd alloy. Low Temperature Physics, 2010, 36, 272-278.	0.6	0
32	Austeniteâ€“martensite interfaces in strained foils of CuAlNi alloy. International Journal of Materials Research, 2009, 100, 342-344.	0.3	3
33	Planar Defects on (112) in BCC Crystals. Materials Science Forum, 2008, 567-568, 69-72.	0.3	8
34	Displacive Phase Transformations. Solid State Phenomena, 0, 150, 159-174.	0.3	2
35	Modeling of (121) Twin Boundaries in 2H Martensite. Key Engineering Materials, 0, 465, 65-68.	0.4	1
36	Non-Schmid Phenomena in HCP Materials. Solid State Phenomena, 0, 258, 29-32.	0.3	1

#	Article	IF	Citations
37	Variability of Twin Boundary Structure in Computer Simulations of Tensile Twins in Magnesium. Defect and Diffusion Forum, 0, 385, 241-244.	0.4	4