

Hossein Alimadadi

List of Publications by Year in descending order

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28
papers

695
citations

567281

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28
all docs

28
docs citations

28
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic martensitic phase transformation in single-crystal silver microcubes. <i>Acta Materialia</i> , 2020, 182, 131-143.	7.9	24
2	Fabrication of hollow coaxial Al ₂ O ₃ /ZnAl ₂ O ₄ high aspect ratio freestanding nanotubes based on the Kirkendall effect. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	2.1	11
3	Improving the imaging capability of an on-axis transmission Kikuchi detector. <i>Ultramicroscopy</i> , 2019, 206, 112812.	1.9	4
4	On the microstructural-textural characterization and deformation analysis of a nano/ultrafine grained Fe-20Cr-8Mn-0.3N duplex alloy with superior mechanical properties. <i>Materials Characterization</i> , 2019, 156, 109878.	4.4	13
5	Binder-free reduced graphene oxide 3D structures based on ultra large graphene oxide sheets: High performance green micro-supercapacitor using NaCl electrolyte. <i>Journal of Energy Storage</i> , 2019, 21, 310-320.	8.1	16
6	Optimal microstructural design for high thermal stability of pure FCC metals based on studying effect of twin boundaries character and network of grain boundaries. <i>Materials and Design</i> , 2018, 151, 60-73.	7.0	2
7	Elevated temperature transmission Kikuchi diffraction in the SEM. <i>Materials Characterization</i> , 2018, 139, 452-462.	4.4	12
8	Silicon as a ubiquitous contaminant in graphene derivatives with significant impact on device performance. <i>Nature Communications</i> , 2018, 9, 5070.	12.8	42
9	Residual Stress in Expanded Austenite on Stainless Steel; Origin, Measurement, and Prediction. <i>Materials Performance and Characterization</i> , 2018, 7, 20170145.	0.3	11
10	Nickel-aluminum diffusion: A study of evolution of microstructure and phase. <i>Materials Characterization</i> , 2017, 130, 105-112.	4.4	29
11	Comprehensive Deformation Analysis of a Newly Designed Ni-Free Duplex Stainless Steel with Enhanced Plasticity by Optimizing Austenite Stability. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3675-3691.	2.2	19
12	Multiscale characterization of White Etching Cracks (WEC) in a 100Cr6 bearing from a thrust bearing test rig. <i>Wear</i> , 2017, 370-371, 73-82.	3.1	44
13	Modeling of Ni Diffusion Induced Austenite Formation in Ferritic Stainless Steel Interconnects. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1005-F1010.	2.9	15
14	Polycaprolactone-templated reduced-graphene oxide liquid crystal nanofibers towards biomedical applications. <i>RSC Advances</i> , 2017, 7, 39628-39634.	3.6	27
15	Electrodeposition mechanism and corrosion behavior of multilayer nanocrystalline nickel-tungsten alloy. <i>Electrochimica Acta</i> , 2017, 258, 883-899.	5.2	46
16	Mechanical properties of multilayer Ni-Fe and Ni-Fe-Al ₂ O ₃ nanocomposite coating. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 448-456.	5.6	36
17	Texture and microstructure evolution in nickel electrodeposited from an additive-free Watts electrolyte. <i>Surface and Coatings Technology</i> , 2016, 299, 1-6.	4.8	18
18	Long-lived magnetism from solidification-driven convection on the pallasite parent body. <i>Nature</i> , 2015, 517, 472-475.	27.8	68

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19	Electrical Resistance Measurements and Microstructural Characterization of the Anode/Interconnect Contact in Simulated Anode-Side SOFC Conditions. <i>Journal of the Electrochemical Society</i> , 2015, 162, F387-F396.	2.9	5
20	Crystallographic orientations and twinning of electrodeposited nickel—a study with complementary characterization methods. <i>Surface and Coatings Technology</i> , 2014, 254, 207-216.	4.8	11
21	Characterization of aluminum and nickel thermochemical diffusion for synthesis of alkaline water electrolysis electrodes. <i>Microscopy and Microanalysis</i> , 2014, 20, 510-511.	0.4	0
22	The complementary use of electron backscatter diffraction and ion channelling imaging for the characterization of nanotwins. <i>Journal of Microscopy</i> , 2013, 249, 111-118.	1.8	6
23	Columns formed by multiple twinning in nickel layers—An approach of grain boundary engineering by electrodeposition. <i>Applied Physics Letters</i> , 2013, 103, 031918.	3.3	5
24	Application of Complementary Techniques for Advanced Characterization of White Etching Cracks. <i>Praktische Metallographie/Practical Metallography</i> , 2013, 50, 410-431.	0.3	28
25	Dislocation density and Burgers vector population in fiber-textured Ni thin films determined by high-resolution X-ray line profile analysis. <i>Journal of Applied Crystallography</i> , 2012, 45, 61-70.	4.5	24
26	Effect of plasma nitriding on electrodeposited Ni–Al composite coating. <i>Materials & Design</i> , 2011, 32, 971-975.	5.1	24
27	Corrosion properties of electrodeposited nanocrystalline and amorphous patterned Ni–W alloy. <i>Materials & Design</i> , 2009, 30, 1356-1361.	5.1	116
28	Kinetic mechanisms of cementation of cadmium ions by zinc powder from sulphate solutions. <i>Hydrometallurgy</i> , 2006, 84, 155-164.	4.3	39