

Ali Gholinia

List of Publications by Year in descending order

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78
papers

7,949
citations

147801

31
h-index

79698

73
g-index

80
all docs

80
docs citations

80
times ranked

11292
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical field-effect transistor based on grapheneâ€“WS ₂ heterostructures for flexible and transparent electronics. <i>Nature Nanotechnology</i> , 2013, 8, 100-103.	31.5	1,543
2	Light-emitting diodes by band-structure engineering in van der Waals heterostructures. <i>Nature Materials</i> , 2015, 14, 301-306.	27.5	1,397
3	Cross-sectional imaging of individual layers and buried interfaces of graphene-based heterostructures and superlattices. <i>Nature Materials</i> , 2012, 11, 764-767.	27.5	796
4	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , 2014, 14, 3270-3276.	9.1	433
5	The effect of strain path on the development of deformation structures in severely deformed aluminium alloys processed by ECAE. <i>Acta Materialia</i> , 2000, 48, 1115-1130.	7.9	384
6	Developing stable fineâ€“grain microstructures by large strain deformation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999, 357, 1663-1681.	3.4	337
7	Antibacterial effects of nanopillar surfaces are mediated by cell impedance, penetration and induction of oxidative stress. <i>Nature Communications</i> , 2020, 11, 1626.	12.8	235
8	WSe ₂ Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. <i>Nano Letters</i> , 2015, 15, 8223-8228.	9.1	231
9	Large volume serial section tomography by Xe Plasma FIB dual beam microscopy. <i>Ultramicroscopy</i> , 2016, 161, 119-129.	1.9	231
10	Analysis of the billet deformation behaviour in equal channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 287, 87-99.	5.6	217
11	Production of ultra-fine grain microstructures in Alâ€“Mg alloys by conventional rolling. <i>Acta Materialia</i> , 2002, 50, 4461-4476.	7.9	205
12	Graphene bubbles with controllable curvature. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	176
13	Modelling texture development during equal channel angular extrusion of aluminium. <i>Acta Materialia</i> , 2002, 50, 2121-2136.	7.9	147
14	Correlative Tomography. <i>Scientific Reports</i> , 2014, 4, 4711.	3.3	124
15	The microstructure and microtexture of zirconium oxide films studied by transmission electron backscatter diffraction and automated crystal orientation mapping with transmission electron microscopy. <i>Acta Materialia</i> , 2014, 80, 159-171.	7.9	121
16	HAZ development and accelerated post-weld natural ageing in ultrasonic spot welding aluminium 6111-T4 automotive sheet. <i>Acta Materialia</i> , 2012, 60, 2816-2828.	7.9	104
17	Comparison of tool wear mechanisms and surface integrity for dry and wet micro-drilling of nickel-base superalloys. <i>International Journal of Machine Tools and Manufacture</i> , 2014, 76, 49-60.	13.4	101
18	Electron backscatter diffraction and electron channeling contrast imaging of tilt and dislocations in nitride thin films. <i>Physical Review B</i> , 2007, 75, .	3.2	69

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19	Interface structure and bonding in abrasion circle friction stir spot welding: A novel approach for rapid welding aluminium alloy to steel automotive sheet. <i>Materials Chemistry and Physics</i> , 2012, 134, 459-463.	4.0	64
20	Evaluation of surface integrity in micro drilling process for nickel-based superalloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 55, 465-476.	3.0	63
21	Identifying suboxide grains at the metal-oxide interface of a corroded Zr-1.0%Nb alloy using (S)TEM, transmission-EBSD and EELS. <i>Micron</i> , 2015, 69, 35-42.	2.2	62
22	Multi-scale 3D characterisation of porosity and organic matter in shales with variable TOC content and thermal maturity: Examples from the Lublin and Baltic Basins, Poland and Lithuania. <i>International Journal of Coal Geology</i> , 2017, 180, 100-112.	5.0	58
23	Self-Nanostructuring in SrTiO ₃ : A Novel Strategy for Enhancement of Thermoelectric Response in Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32833-32843.	8.0	56
24	Protective Film Formation on AA2024-T3 Aluminum Alloy by Leaching of Lithium Carbonate from an Organic Coating. <i>Journal of the Electrochemical Society</i> , 2016, 163, C45-C53.	2.9	52
25	Broad ion beam serial section tomography. <i>Ultramicroscopy</i> , 2017, 172, 52-64.	1.9	46
26	Anomalous twin boundaries in two dimensional materials. <i>Nature Communications</i> , 2018, 9, 3597.	12.8	46
27	Incorporation of halloysite nanotubes into forsterite surface layer during plasma electrolytic oxidation of AM50 Mg alloy. <i>Electrochimica Acta</i> , 2019, 299, 772-788.	5.2	45
28	Assessment of surface integrity of Ni superalloy after electrical-discharge, laser and mechanical micro-drilling processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1303-1311.	3.0	44
29	On the three-dimensional structure of WC grains in cemented carbides. <i>Acta Materialia</i> , 2013, 61, 4726-4733.	7.9	42
30	Using transmission Kikuchi diffraction to study intergranular stress corrosion cracking in type 316 stainless steels. <i>Micron</i> , 2015, 75, 1-10.	2.2	39
31	Enhancing the thermoelectric power factor of Sr _{0.9} Nd _{0.1} TiO ₃ through control of the nanostructure and microstructure. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24928-24939.	10.3	34
32	An organic coating pigmented with strontium aluminium polyphosphate for corrosion protection of zinc alloy coated steel. <i>Progress in Organic Coatings</i> , 2017, 102, 29-36.	3.9	32
33	Processing to ultrafine grain structures by conventional routes. <i>Materials Science and Technology</i> , 2000, 16, 1251-1255.	1.6	28
34	Submicron-scale depth profiling of residual stress in amorphous materials by incremental focused ion beam slotting. <i>Acta Materialia</i> , 2012, 60, 2337-2349.	7.9	27
35	Structure and mechanical behaviour of an Al-Mg alloy after equal channel angular extrusion. <i>Scripta Materialia</i> , 1999, 12, 839-842.	0.5	24
36	An investigation of the corrosion inhibitive layers generated from lithium oxalate-containing organic coating on AA2024-T3 aluminium alloy. <i>Surface and Interface Analysis</i> , 2016, 48, 798-803.	1.8	23

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37	Coupled Broad Ion Beam Scanning Electron Microscopy (BIB-SEM) for polishing and three dimensional (3D) serial section tomography (SST). Ultramicroscopy, 2020, 214, 112989.	1.9	20
38	Growth of nanotubes on zirconium in glycerol/fluoride electrolytes. Electrochimica Acta, 2011, 56, 10500-10506.	5.2	19
39	An investigation of dynamic recrystallisation on Cu-Sn bronze using 3D EBSD. Materials Science and Technology, 2010, 26, 685-690.	1.6	18
40	Time-lapse lab-based x-ray nano-CT study of corrosion damage. Journal of Microscopy, 2017, 267, 98-106.	1.8	18
41	CH ₃ NH ₃ Pb ₃ films prepared by combining 1- and 2-step deposition: how crystal growth conditions affect properties. Physical Chemistry Chemical Physics, 2017, 19, 7204-7214.	2.8	16
42	On the capability of revealing the pseudosymmetry of the chalcopyrite-type crystal structure. Crystal Research and Technology, 2008, 43, 234-239.	1.3	15
43	Correction of artefacts associated with large area EBSD. Ultramicroscopy, 2021, 226, 113315.	1.9	15
44	Comparison of nanotube formation on zirconium in fluoride/glycerol electrolytes at different anodizing potentials. Electrochimica Acta, 2011, 58, 389-398.	5.2	14
45	Quaternion-based disorientation coloring of orientation maps. Ultramicroscopy, 2017, 182, 62-67.	1.9	14
46	Effects of reagent purity on plasma electrolytic oxidation of titanium in an aluminate-phosphate electrolyte. Transactions of the Institute of Metal Finishing, 2016, 94, 32-42.	1.3	12
47	Thermoanalytical studies of the processing of bulk and thin film BSCCO high T _c superconductors by the Edita-Gel route. Journal of Thermal Analysis, 1994, 42, 733-743.	0.6	11
48	Quantitative microstructure characterization of self-annealed copper films with electron backscatter diffraction. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 275-281.	1.8	11
49	Cast microstructure and dispersoid formation in spray deposited Al-Li alloys. Materials Science and Technology, 1999, 15, 328-336.	1.6	9
50	Thermal Stability of Electrodeposited Ni and Ni-Co Layers; an EBSD-Study. Materials Science Forum, 2004, 467-470, 1345-1352.	0.3	9
51	Three-Dimensional Crystallographic Analysis Beyond EBSD Mapping: The Next Dimension. Microscopy Today, 2006, 14, 34-37.	0.3	8
52	Electronically tunable aperiodic distributed feedback terahertz lasers. Journal of Applied Physics, 2013, 113, .	2.5	8
53	In-situ EBSD Phase Transformation and Recrystallisation. Journal of Physics: Conference Series, 2014, 522, 012011.	0.4	8
54	Industrial Gear Oils: Tribological Performance and Subsurface Changes. Tribology Letters, 2018, 66, 65.	2.6	8

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55	Resolving physical interactions between bacteria and nanotopographies with focused ion beam scanning electron microscopy. <i>IScience</i> , 2021, 24, 102818.	4.1	8
56	The decomposition of edta-gel precursors in the production of BSCCO superconductors. <i>Journal of Thermal Analysis</i> , 1993, 40, 349-356.	0.6	7
57	Cathodoluminescence microscopy of impurity phases in ZrO ₂ /Ni nano-composites. <i>Journal of Materials Science</i> , 1997, 32, 6625-6628.	3.7	6
58	Ultrafine grain structures formed by thermomechanical processing of spray cast Al-Li alloys. <i>Materials Science and Technology</i> , 1999, 15, 605-615.	1.6	6
59	Measuring and Modelling the Microstructures of Two-Phase Aluminium Alloys after Deformation. <i>Materials Science Forum</i> , 0, 715-716, 23-32.	0.3	6
60	Exploring domain continuity across BaTiO ₃ grain boundaries: Theory meets experiment. <i>Acta Materialia</i> , 2022, 235, 118096.	7.9	6
61	The Texture of Ultra-Fine Grained Al-Mg Alloys. <i>Materials Science Forum</i> , 2002, 408-412, 1519-1524.	0.3	5
62	A 3D EBSD Investigation of Dynamic Recrystallisation in a Cu-Sn Bronze. <i>Microscopy and Microanalysis</i> , 2009, 15, 406-407.	0.4	5
63	Surface terracing on ferritic stainless-steel fibres and potential relevance to <i>in vitro</i> cell growth. <i>Philosophical Magazine</i> , 2009, 89, 2285-2303.	1.6	5
64	Characterisation of nitride thin films by electron backscatter diffraction and electron channelling contrast imaging. <i>Materials Science and Technology</i> , 2006, 22, 1352-1358.	1.6	4
65	High-Resolution EBSD Analysis of Severely Deformed Submicron Grained Aluminum Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1999, 601, 323.	0.1	3
66	Porous Anodic Film Growth on a Zr-W Alloy. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, C8.	2.2	3
67	Plasmon-induced nanoscale quantised conductance filaments. <i>Scientific Reports</i> , 2017, 7, 2878.	3.3	3
68	Characterization of Materials Properties by EBSD, EDS and AFM. <i>Microscopy and Microanalysis</i> , 2018, 24, 594-595.	0.4	3
69	X-ray computed tomographic and focused ion beam/electron microscopic investigation of coating defects in niobium-coated copper superconducting radio-frequency cavities. <i>Materials Chemistry and Physics</i> , 2021, 273, 125062.	4.0	3
70	A 3D FIB Investigation of Dynamic Recrystallization in a Cu-Sn Bronze. <i>Materials Science Forum</i> , 2012, 715-716, 498-501.	0.3	2
71	Nanoscale orientation mapping made easy: a new sample preparation workflow for rapid, large-area TKD analysis. <i>Microscopy and Microanalysis</i> , 2021, 27, 1596-1598.	0.4	2
72	New method to characterise grain boundary plane orientations based on EBSD orientation microscopy for serial sectioned surfaces. <i>Materials Science and Technology</i> , 2010, 26, 650-660.	1.6	1

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73	Cross sectional STEM imaging and analysis of multilayered two dimensional crystal heterostructure devices. <i>Microscopy and Microanalysis</i> , 2015, 21, 107-108.	0.4	1
74	Advances in Serial-Section Broad-Ion-Beam Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 16-17.	0.4	1
75	Elementary Facet Method for Grain Boundary Plane Determination by 3D EBSD. <i>Solid State Phenomena</i> , 2010, 160, 217-222.	0.3	0
76	Ultrahigh Resolution EDX Spectrum Imaging: Nuclear Materials Applications. <i>Microscopy and Microanalysis</i> , 2013, 19, 1138-1139.	0.4	0
77	On the Three-Dimensional Microstructure of Martensite in Carbon Steels. , 0, , 19-24.		0
78	Co-precipitation on the Basal and Prismatic Planes in Mg-Gd-Ag-Zr Alloy Subjected to Over-Ageing. <i>Minerals, Metals and Materials Series</i> , 2018, , 379-383.	0.4	0