

# Alex A Volinsky

## List of Publications by Year in descending order

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408  
papers

10,112  
citations

43973

48  
h-index

71532

76  
g-index

411  
all docs

411  
docs citations

411  
times ranked

9770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial toughness measurements for thin films on substrates. <i>Acta Materialia</i> , 2002, 50, 441-466.	3.8	572
2	Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles synthesis from tailings by ultrasonic chemical co-precipitation. <i>Materials Letters</i> , 2011, 65, 1882-1884.	1.3	329
3	Crosslinking effect on polydimethylsiloxane elastic modulus measured by custom-built compression instrument. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	328
4	Fracture toughness, adhesion and mechanical properties of low-K dielectric thin films measured by nanoindentation. <i>Thin Solid Films</i> , 2003, 429, 201-210.	0.8	264
5	Heat treatment effects on microstructure and magnetic properties of Mn-Zn ferrite powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 173-177.	1.0	203
6	Immobilization mechanism of Pb in fly ash-based geopolymer. <i>Construction and Building Materials</i> , 2017, 134, 123-130.	3.2	102
7	Microstructure, residual stress, and fracture of sputtered TiN films. <i>Surface and Coatings Technology</i> , 2013, 224, 120-125.	2.2	100
8	Initial formation of corrosion products on pure zinc in saline solution. <i>Bioactive Materials</i> , 2019, 4, 87-96.	8.6	98
9	Annealing effects on magnetic properties of silicone-coated iron-based soft magnetic composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 818-822.	1.0	97
10	Nanomechanical Properties of TiO <sub>2</sub> Granular Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2629-2636.	4.0	96
11	Iron-based soft magnetic composites with Mn-Zn ferrite nanoparticles coating obtained by sol-gel method. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3899-3905.	1.0	94
12	Aging behavior and precipitates analysis of the Cu-Cr-Zr-Ce alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 650, 248-253.	2.6	92
13	Cu-Doped ZnO Electronic Structure and Optical Properties Studied by First-Principles Calculations and Experiments. <i>Materials</i> , 2019, 12, 196.	1.3	90
14	Nanoindentation-induced defect-interface interactions: phenomena, methods and limitations. <i>Acta Materialia</i> , 1999, 47, 4115-4123.	3.8	86
15	Nanostructured ion beam-modified Ge films for high capacity Li ion battery anodes. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	82
16	One pot solution combustion synthesis of highly mesoporous hematite for photocatalysis. <i>Ceramics International</i> , 2015, 41, 2806-2812.	2.3	82
17	Long-term in vivo study of biodegradable Zn-Cu stent: A 2-year implantation evaluation in porcine coronary artery. <i>Acta Biomaterialia</i> , 2019, 97, 657-670.	4.1	82
18	Nanoindentation of Au and Pt/Cu thin films at elevated temperatures. <i>Journal of Materials Research</i> , 2004, 19, 2650-2657.	1.2	81

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19	Brittle film-induced cracking of ductile substrates. <i>Acta Materialia</i> , 2015, 99, 273-280.	3.8	81
20	Initial formation of corrosion products on pure zinc in simulated body fluid. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2271-2282.	5.6	79
21	Giant magnetoelectric effect in Ni <sup>2+</sup> lead zirconium titanate cylindrical structure. <i>Applied Physics Letters</i> , 2008, 92, 052904.	1.5	78
22	Recent advances and perspective in metal coordination materials-based electrode materials for potassium-ion batteries. <i>Rare Metals</i> , 2021, 40, 448-470.	3.6	77
23	Temperature effects on magnetic properties of Fe <sub>3</sub> O <sub>4</sub> nanoparticles synthesized by the sol-gel explosion-assisted method. <i>Journal of Alloys and Compounds</i> , 2019, 773, 605-611.	2.8	73
24	Annealing effects on microstructure and mechanical properties of chromium oxide coatings. <i>Thin Solid Films</i> , 2008, 516, 4685-4689.	0.8	72
25	Heat treatment effects on Fe <sub>3</sub> O <sub>4</sub> nanoparticles structure and magnetic properties prepared by carbothermal reduction. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2316-2319.	2.8	72
26	Duplex stainless steel passive film electrical properties studied by in situ current sensing atomic force microscopy. <i>Corrosion Science</i> , 2014, 78, 55-62.	3.0	72
27	Arc erosion behavior of the Al <sub>2</sub> O <sub>3</sub> -Cu/(W, Cr) electrical contacts. <i>Composites Part B: Engineering</i> , 2019, 160, 110-118.	5.9	72
28	Nanoindentation techniques for assessing mechanical reliability at the nanoscale. <i>Microelectronic Engineering</i> , 2003, 69, 519-527.	1.1	70
29	Co effects on Cu-Ni-Si alloys microstructure and physical properties. <i>Journal of Alloys and Compounds</i> , 2019, 797, 1327-1337.	2.8	70
30	Influences of albumin on in vitro corrosion of pure Zn in artificial plasma. <i>Corrosion Science</i> , 2019, 153, 341-356.	3.0	70
31	Film thickness effect on texture and residual stress sign transition in sputtered TiN thin films. <i>Ceramics International</i> , 2017, 43, 11992-11997.	2.3	69
32	Processing maps for the Cu-Cr-Zr-Y alloy hot deformation behavior. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 662, 320-329.	2.6	68
33	MgH <sub>2</sub> dehydrogenation properties improved by MnFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Power Sources</i> , 2013, 239, 201-206.	4.0	66
34	Dehydrogenation Improvement of LiAlH <sub>4</sub> Catalyzed by Fe <sub>2</sub> O <sub>3</sub> and Co <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18343-18352.	1.5	64
35	Challenges in legislation, recycling system and technical system of waste electrical and electronic equipment in China. <i>Waste Management</i> , 2015, 45, 361-373.	3.7	64
36	Rare earth elements recycling from waste phosphor by dual hydrochloric acid dissolution. <i>Journal of Hazardous Materials</i> , 2014, 272, 96-101.	6.5	63

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37	Stainless steel pitting and early-stage stress corrosion cracking under ultra-low elastic load. <i>Corrosion Science</i> , 2013, 77, 360-368.	3.0	62
38	La <sub>2</sub> O <sub>3</sub> effects on TZM alloy recovery, recrystallization and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 636, 415-420.	2.6	62
39	Review of nano-phase effects in high strength and conductivity copper alloys. <i>Nanotechnology Reviews</i> , 2019, 8, 383-395.	2.6	62
40	High-performance hot-warm rolled Zn-0.8Li alloy with nano-sized metastable precipitates and sub-micron grains for biodegradable stents. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2618-2624.	5.6	59
41	Interfacial Microstructure of Chromium Oxide Coatings. <i>Advanced Engineering Materials</i> , 2007, 9, 594-599.	1.6	56
42	A review of microstructure and texture evolution with nanoscale precipitates for copper alloys. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11918-11934.	2.6	56
43	Microstructure and mechanical properties of chromium oxide coatings. <i>Journal of Materials Research</i> , 2007, 22, 3531-3537.	1.2	54
44	Aluminum powder size and microstructure effects on properties of boron nitride reinforced aluminum matrix composites fabricated by semi-solid powder metallurgy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 646, 306-314.	2.6	53
45	Microstructure effect on hydrogen-induced cracking in TM210 maraging steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 586, 142-148.	2.6	52
46	NiFe <sub>2</sub> O <sub>4</sub> Nanoparticles Catalytic Effects of Improving LiAlH <sub>4</sub> Dehydrogenation Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25917-25925.	1.5	50
47	Effect of glycine on one-step solution combustion synthesis of magnetite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 719, 288-295.	2.8	50
48	Significantly improved dehydrogenation of ball-milled MgH <sub>2</sub> doped with CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Power Sources</i> , 2014, 268, 778-786.	4.0	49
49	Application of the standard porosimetry method for nanomaterials. <i>International Journal of Nanotechnology</i> , 2005, 2, 292.	0.1	48
50	Facile route for synthesis of mesoporous Cr <sub>2</sub> O <sub>3</sub> sheet as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2014, 139, 76-81.	2.6	47
51	Thermoporometry study of coagulation bath temperature effect on polyacrylonitrile fibers morphology. <i>Thermochimica Acta</i> , 2011, 518, 101-106.	1.2	46
52	Ferrite and austenite phase identification in duplex stainless steel using SPM techniques. <i>Applied Surface Science</i> , 2013, 287, 499-501.	3.1	46
53	Antibacterial activity and inflammation inhibition of ZnO nanoparticles embedded TiO <sub>2</sub> nanotubes. <i>Nanotechnology</i> , 2018, 29, 244003.	1.3	45
54	Residual stress and microstructure effects on mechanical, tribological and electrical properties of TiN coatings on 304 stainless steel. <i>Ceramics International</i> , 2018, 44, 15851-15858.	2.3	45

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55	Effects of Cr addition on the constitutive equation and precipitated phases of copper alloy during hot deformation. <i>Materials and Design</i> , 2020, 191, 108613.	3.3	45
56	Investigation of microstructure and mechanical properties of multi-layer Cr/Cr <sub>2</sub> O <sub>3</sub> coatings. <i>Thin Solid Films</i> , 2009, 517, 1922-1927.	0.8	44
57	La doping effect on TZM alloy oxidation behavior. <i>Journal of Alloys and Compounds</i> , 2014, 593, 196-201.	2.8	44
58	CoCrMo alloy for orthopedic implant application enhanced corrosion and tribocorrosion properties by nitrogen ion implantation. <i>Applied Surface Science</i> , 2015, 347, 23-34.	3.1	44
59	Microstructure evolution of Al-12Si-CuNiMg alloy under high temperature low cycle fatigue. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 574, 186-190.	2.6	43
60	Ion beam-mixed Ge electrodes for high capacity Li rechargeable batteries. <i>Journal of Power Sources</i> , 2013, 223, 336-340.	4.0	41
61	Temperature, moisture and mode-mixity effects on copper leadframe/EMC interfacial fracture toughness. <i>International Journal of Fracture</i> , 2014, 185, 115-127.	1.1	41
62	Facile preparation of hexagonal WO <sub>3</sub> ·0.33H <sub>2</sub> O/C nanostructures and its electrochemical properties for lithium-ion batteries. <i>Applied Surface Science</i> , 2017, 394, 70-77.	3.1	41
63	Mn-Zn soft magnetic ferrite nanoparticles synthesized from spent alkaline Zn-Mn batteries. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3991-3994.	2.8	40
64	Enhanced hydrogen storage properties of LiAlH <sub>4</sub> catalyzed by CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>RSC Advances</i> , 2014, 4, 18989-18997.	1.7	40
65	Hot workability and constitutive model of the Cu-Zr-Nd alloy. <i>Vacuum</i> , 2017, 146, 35-43.	1.6	40
66	Brittle coating effects on fatigue cracks behavior in Ti alloys. <i>International Journal of Fatigue</i> , 2019, 125, 432-439.	2.8	40
67	Stress and Moisture Effects on Thin Film Buckling Delamination. <i>Experimental Mechanics</i> , 2007, 47, 163-170.	1.1	39
68	Residual Stress and Surface Energy of Sputtered TiN Films. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1185-1191.	1.2	39
69	Nanoindentation study of polydimethylsiloxane elastic modulus using Berkovich and flat punch tips. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	39
70	Electrochemical performance of Mg-air batteries based on AZ series magnesium alloys. <i>Ionics</i> , 2019, 25, 2201-2209.	1.2	39
71	Effect of Ti addition on microstructure evolution and precipitation in Cu-Co-Si alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153518.	2.8	39
72	Hydrogen effects on stainless steel passive film fracture studied by nanoindentation. <i>Corrosion Science</i> , 2011, 53, 2679-2683.	3.0	38

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73	Effects of Ce and Y addition on microstructure evolution and precipitation of Cu-Mg alloy hot deformation. <i>Journal of Alloys and Compounds</i> , 2019, 781, 118-130.	2.8	38
74	Geometry effects on magnetoelectric performance of layered Ni/PZT composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 163, 114-119.	1.7	37
75	Preparation and ductile-to-brittle transition temperature of the La-TZM alloy plates. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 52, 131-136.	1.7	37
76	Carbothermal reduction method for Fe <sub>3</sub> O <sub>4</sub> powder synthesis. <i>Journal of Alloys and Compounds</i> , 2010, 502, 338-340.	2.8	36
77	Fuel additives and heat treatment effects on nanocrystalline zinc ferrite phase composition. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 569-573.	1.0	36
78	Structure and composition effects on electrical and optical properties of sputtered PbSe thin films. <i>Thin Solid Films</i> , 2015, 592, 59-68.	0.8	36
79	Microstructure and Precipitate's Characterization of the Cu-Ni-Si-P Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1336-1341.	1.2	36
80	3D printing of NdFeB bonded magnets with SrFe <sub>12</sub> O <sub>19</sub> addition. <i>Journal of Alloys and Compounds</i> , 2019, 779, 900-907.	2.8	36
81	Discontinuous surface cracks during stress corrosion cracking of stainless steel single crystal. <i>Corrosion Science</i> , 2011, 53, 3509-3514.	3.0	35
82	Cyanide-free silver electroplating process in thiosulfate bath and microstructure analysis of Ag coatings. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 3822-3828.	1.7	35
83	Cryorolling effect on microstructure and mechanical properties of Fe-25Cr-20Ni austenitic stainless steel. <i>Materials and Design</i> , 2015, 88, 398-405.	3.3	35
84	Resonant modes and magnetoelectric performance of PZT/Ni cylindrical layered composites. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 449-454.	1.1	34
85	Humidity effects on (001) BaTiO <sub>3</sub> single crystal surface water adsorption. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	34
86	Mechanical properties and fracture characteristics of high carbon steel after equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 563, 163-167.	2.6	34
87	EBSD analysis of hot deformation behavior of Cu-Ni-Co-Si-Cr alloy. <i>Materials Characterization</i> , 2020, 169, 110656.	1.9	34
88	XPS and AFM Investigations of Ti-Al-N Coatings Fabricated Using DC Magnetron Sputtering at Various Nitrogen Flow Rates and Deposition Temperatures. <i>Metals</i> , 2017, 7, 52.	1.0	33
89	Effects of Ce addition on the Cu-Mg-Fe alloy hot deformation behavior. <i>Vacuum</i> , 2018, 155, 594-603.	1.6	33
90	Effects of strain rates on dynamic deformation behavior of Cu-20Ag alloy. <i>Journal of Materials Science and Technology</i> , 2021, 79, 75-87.	5.6	33

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91	Preparation of Cu-Al <sub>2</sub> O <sub>3</sub> bulk nano-composites by combining Cu-Al alloy sheets internal oxidation with hot extrusion. <i>Journal of Alloys and Compounds</i> , 2015, 633, 323-328.	2.8	32
92	One step synthesis of vanadium pentoxide sheets as cathodes for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 206, 301-306.	2.6	32
93	Effects of quenching and tempering on the microstructure and bake hardening behavior of ferrite and dual phase steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 613, 178-183.	2.6	31
94	Characterization of the Hot Deformation Behavior of Cu-Cr-Zr Alloy by Processing Maps. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 422-430.	1.5	31
95	Multiscale recycling rare earth elements from real waste trichromatic phosphors containing glass. <i>Journal of Cleaner Production</i> , 2019, 238, 117998.	4.6	31
96	Mechanical and Electrical Properties and Phase Analysis of Aged Cu-Mg-Ce Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1-9.	1.2	31
97	Water pre-adsorption effect on room temperature SnO <sub>2</sub> nanobelt ethanol sensitivity in oxygen-deficient conditions. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 340-344.	4.0	30
98	Study on the growth mechanism and optical properties of sputtered lead selenide thin films. <i>Applied Surface Science</i> , 2015, 356, 978-985.	3.1	30
99	Effect of molybdenum particles on thermal and mechanical properties of graphite flake/copper composites. <i>Carbon</i> , 2020, 161, 169-180.	5.4	30
100	Improved Hydrogen Storage Performance of MgH <sub>2</sub> -LiAlH <sub>4</sub> Composite by Addition of MnFe <sub>2</sub> O <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 26940-26947.	1.5	29
101	Blended powder semisolid forming of Al7075/Al <sub>2</sub> O <sub>3</sub> composites: Investigation of microstructure and mechanical properties. <i>Materials and Design</i> , 2016, 109, 57-67.	3.3	29
102	High temperature brittle film adhesion measured from annealing-induced circular blisters. <i>Acta Materialia</i> , 2017, 138, 1-9.	3.8	29
103	Pitting Initiation and Propagation of X70 Pipeline Steel Exposed to Chloride-Containing Environments. <i>Materials</i> , 2017, 10, 1076.	1.3	28
104	3D gel-printing of Sr ferrite parts. <i>Ceramics International</i> , 2018, 44, 22370-22377.	2.3	28
105	Epoxy resin effect on anisotropic Nd-Fe-B rubber-bonded magnets performance. <i>Journal of Alloys and Compounds</i> , 2011, 509, 687-690.	2.8	27
106	Microstructure of ultra-fine-grained high carbon steel prepared by equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 535, 306-310.	2.6	27
107	NaAlH <sub>4</sub> dehydrogenation properties enhanced by MnFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Power Sources</i> , 2014, 248, 388-395.	4.0	27
108	Passive film-induced stress and mechanical properties of Ti in methanol solution. <i>Corrosion Science</i> , 2014, 78, 287-292.	3.0	27

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109	Comparison of the macroscale and microscale tests for measuring elastic properties of polydimethylsiloxane. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	27
110	Treatment method of hazardous pickling sludge by reusing as glass-ceramics nucleation agent. <i>Rare Metals</i> , 2016, 35, 269-274.	3.6	27
111	High Temperature Oxidation Behavior of Flake and Spheroidal Graphite Cast Irons. <i>Oxidation of Metals</i> , 2011, 76, 161-168.	1.0	26
112	Participant behavior and content of the online foreign languages learning and teaching platform. <i>Computers in Human Behavior</i> , 2015, 50, 476-488.	5.1	26
113	Solution combustion synthesis of nanostructured iron oxides with controllable morphology, composition and electrochemical performance. <i>Ceramics International</i> , 2018, 44, 4237-4247.	2.3	26
114	Suppressed voltage decay and improved electrochemical performance by coating LiAl <sub>5</sub> O <sub>8</sub> on the surface of Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , 2019, 805, 1034-1043.	2.8	26
115	3C-SiC Films on Si for MEMS Applications: Mechanical Properties. <i>Materials Science Forum</i> , 0, 615-617, 633-636.	0.3	25
116	Superior destabilization effects of LiBH <sub>4</sub> with the addition of nano-sized nickel ferrite NiFe <sub>2</sub> O <sub>4</sub> . <i>RSC Advances</i> , 2015, 5, 81212-81219.	1.7	25
117	Hydrostatic pressure effects on the kinetic parameters of hydrogen evolution and permeation in Armco iron. <i>Electrochimica Acta</i> , 2017, 255, 230-238.	2.6	25
118	Hot deformation behavior and processing map of Cu-Ni-Si-P alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 2341-2347.	1.7	24
119	Effects of laser shock processing on surface microstructure and mechanical properties of ultrafine-grained high carbon steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 570, 82-86.	2.6	24
120	Corrosion resistance and friction of sintered NdFeB coated with Ti/TiN multilayers. <i>Thin Solid Films</i> , 2014, 550, 428-434.	0.8	24
121	Glass-ceramics one-step crystallization accomplished by building Ca <sup>2+</sup> and Mg <sup>2+</sup> fast diffusion layer around diopside crystal. <i>Journal of Alloys and Compounds</i> , 2016, 688, 709-714.	2.8	24
122	A Statistical Study on the Effect of Hydrostatic Pressure on Metastable Pitting Corrosion of X70 Pipeline Steel. <i>Materials</i> , 2017, 10, 1307.	1.3	24
123	Electric field and surface charge effects on ferroelectric domain dynamics in BaTiO <sub>3</sub> single crystal. <i>Physical Review B</i> , 2011, 84, .	1.1	23
124	Stress corrosion cracking under low stress: Continuous or discontinuous cracks?. <i>Corrosion Science</i> , 2014, 80, 350-358.	3.0	23
125	Dynamic recrystallization model of the Cu-Cr-Zr-Ag alloy under hot deformation. <i>Journal of Materials Research</i> , 2016, 31, 1275-1285.	1.2	23
126	Annealing effects on microstructure and mechanical properties of cryorolled Fe-25Cr-20Ni steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 703, 68-75.	2.6	23



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127	Passivation of hydrogen damage using graphene coating on $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> films. Carbon, 2018, 130, 19-24.	5.4	23
128	Graphene oxide effects on the properties of Al <sub>2</sub> O <sub>3</sub> -Cu/35W5Cr composite. Journal of Materials Science and Technology, 2020, 37, 185-199.	5.6	23
129	Graphene induced growth of Sb <sub>2</sub> WO <sub>6</sub> nanosheets for high-performance pseudocapacitive lithium-ion storage. Journal of Alloys and Compounds, 2020, 839, 155614.	2.8	23
130	Theoretical explanation of Ag/Cu and Cu/Ni nanoscale multilayers softening. Materials Letters, 2011, 65, 119-121.	1.3	22
131	AlN powder synthesis by sodium fluoride-assisted carbothermal combustion. Ceramics International, 2014, 40, 14447-14452.	2.3	22
132	Stress corrosion cracking at low loads: Surface slip and crystallographic analysis. Corrosion Science, 2015, 100, 619-626.	3.0	22
133	Hydrogen redistribution under stress-induced diffusion and corresponding fracture behaviour of a structural steel. Materials Science and Technology, 2017, 33, 1539-1547.	0.8	22
134	Vacuum Pressureless Sintering of Ti-6Al-4V Alloy with Full Densification and Forged-Like Mechanical Properties. Journal of Materials Engineering and Performance, 2018, 27, 282-292.	1.2	22
135	Growth Rate Effect on 3C-SiC Film Residual Stress on (100) Si Substrates. Materials Science Forum, 0, 645-648, 143-146.	0.3	21
136	Deformation Behavior and Microstructure Evolution of the Cu-2Ni-0.5Si-0.15Ag Alloy During Hot Compression. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5871-5876.	1.1	21
137	Sputtering Power Effects on Growth and Mechanical Properties of Cr <sub>2</sub> AlC MAX Phase Coatings. Metals, 2016, 6, 265.	1.0	21
138	Defects evolution in nanoporous Au(Pt) during dealloying. Scripta Materialia, 2016, 113, 68-70.	2.6	21
139	Crack initiation mechanism in lanthanum-doped titanium-zirconium-molybdenum alloy during sintering and rolling. Journal of Alloys and Compounds, 2018, 745, 532-537.	2.8	21
140	Tribological and mechanical properties of copper matrix composites reinforced with carbon nanotube and alumina nanoparticles. Materials Research Express, 2019, 6, 116524.	0.8	21
141	Thermal deformation behavior of the Al <sub>2</sub> O <sub>3</sub> -Cu/(W, Cr) electrical contacts. Vacuum, 2019, 164, 361-366.	1.6	21
142	A generic approach of polishing metals via isotropic electrochemical etching. International Journal of Machine Tools and Manufacture, 2020, 150, 103517.	6.2	21
143	Structural, electrochemical and optical properties of Ni doped ZnO: Experimental and theoretical investigation. Optik, 2020, 219, 165204.	1.4	21
144	Mechanical properties and phases evolution in T91 steel during long-term high-temperature exposure. Engineering Failure Analysis, 2020, 111, 104451.	1.8	21

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145	Length scales for the fracture of nanostructures. International Journal of Fracture, 2003, 119/120, 387-405.	1.1	20
146	Fracture of colloidal single-crystal films fabricated by controlled vertical drying deposition. Physical Review E, 2010, 82, 031602.	0.8	20
147	The role of trivalent arsenic in removal of antimony and bismuth impurities from copper electrolytes. Hydrometallurgy, 2012, 125-126, 76-80.	1.8	20
148	Changes of Work Function in Different Deformation Stage for 2205 Duplex Stainless Steel by SKPFM. , 2014, 3, 1736-1741.		20
149	Effects of Ce Addition on High Temperature Deformation Behavior of Cu-Cr-Zr Alloys. Journal of Materials Engineering and Performance, 2015, 24, 3783-3788.	1.2	20
150	A multiaxial high-cycle fatigue life evaluation model for notched structural components. International Journal of Fatigue, 2015, 80, 443-448.	2.8	20
151	Facile fabrication of organic/inorganic nanotube heterojunction arrays for enhanced photoelectrochemical water splitting. Nanoscale, 2016, 8, 13228-13235.	2.8	20
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