Jian Lu

List of Publications by Year
in descending order

576 papers	32,171 citations	6613 79 h-index	6131 159 g-index
589 all docs	589 docs citations	589 times ranked	19152 citing authors

#	Article	IF	Citations
1	High-entropy alloy: challenges and prospects. Materials Today, 2016, 19, 349-362.	14.2	1,698
2	Effect of valence electron concentration on stability of fcc or bcc phase in high entropy alloys. Journal of Applied Physics, 2011, 109, .	2.5	1,623
3	Nanostructured surface layer on metallic materials induced by surface mechanical attrition treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 38-45.	5.6	913
4	An investigation of surface nanocrystallization mechanism in Fe induced by surface mechanical attrition treatment. Acta Materialia, 2002, 50, 4603-4616.	7.9	897
5	Recent advances for dyes removal using novel adsorbents: A review. Environmental Pollution, 2019, 252, 352-365.	7.5	791
6	Deformation behavior of the Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass over a wide range of strain-rates and temperatures. Acta Materialia, 2003, 51, 3429-3443.	7.9	679
7	Formation of nanostructured surface layer on AISI 304 stainless steel by means of surface mechanical attrition treatment. Acta Materialia, 2003, 51, 1871-1881.	7.9	619
8	Nitriding Iron at Lower Temperatures. Science, 2003, 299, 686-688.	12.6	563
9	Dual-phase nanostructuring as a route to high-strength magnesium alloys. Nature, 2017, 545, 80-83.	27.8	458
10	Plastic strain-induced grain refinement at the nanometer scale in copper. Acta Materialia, 2006, 54, 5281-5291.	7.9	451
11	Fatigue life improvement through surface nanostructuring of stainless steel by means of surface mechanical attrition treatment. Scripta Materialia, 2006, 54, 1949-1954.	5.2	440
12	Microstructure and evolution of mechanically-induced ultrafine grain in surface layer of AL-alloy subjected to USSP. Acta Materialia, 2002, 50, 2075-2084.	7.9	430
13	Ductile fracture: Experiments and computations. International Journal of Plasticity, 2011, 27, 147-180.	8.8	426
14	Nanostructure formation mechanism of Î±-titanium using SMAT. Acta Materialia, 2004, 52, 4101-4110.	7.9	417
15	Fatigue behaviors of AISI 316L stainless steel with a gradient nanostructured surface layer. Acta Materialia, 2015, 87, 150-160.	7.9	410
16	Surface nanocrystallization of 316L stainless steel induced by ultrasonic shot peening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 91-95.	5.6	406
17	Tensile properties of a nanocrystalline 316L austenitic stainless steel. Scripta Materialia, 2005, 52, 1039-1044.	5.2	406
18	Atomistic free-volume zones and inelastic deformation of metallic glasses. Nature Materials, 2010, 9, 619-623.	27.5	392

#	Article	IF	Citations
19	Surface nanocrystallization of iron induced by ultrasonic shot peening. Scripta Materialia, 1999, 11, 433-440.	0.5	370
20	Diffusion of chromium in nanocrystalline iron produced by means of surface mechanical attrition treatment. Acta Materialia, 2003, 51, 4319-4329.	7.9	284
21	Effect of surface nanocrystallization on friction and wear properties in low carbon steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 352, 144-149.	5.6	277
22	A new method to extract the plastic properties of metal materials from an instrumented spherical indentation loading curve. Acta Materialia, 2004, 52, 4023-4032.	7.9	266
23	Superior adsorption capacity of functionalised straw adsorbent for dyes and heavy-metal ions. Journal of Hazardous Materials, 2020, 382, 121040.	12.4	254
24	Additive manufacturing of structural materials. Materials Science and Engineering Reports, 2021, 145, 100596.	31.8	254
25	The influence of strain rate on the microstructure transition of 304 stainless steel. Acta Materialia, 2011, 59, 3697-3709.	7.9	252
26	Nanostructured Energetic Composites: Synthesis, Ignition/Combustion Modeling, and Applications. ACS Applied Materials & Interfaces, 2014, 6, 3058-3074.	8.0	249
27	Surface nanocrystallization by surface mechanical attrition treatment and its effect on structure and properties of plasma nitrided AISI 321 stainless steel. Acta Materialia, 2006, 54, 5599-5605.	7.9	234
28	Low carbon steel with nanostructured surface layer induced by high-energy shot peening. Scripta Materialia, 2001, 44, 1791-1795.	5.2	225
29	Strain-induced grain refinement of cobalt during surface mechanical attrition treatment. Acta Materialia, 2005, 53, 681-691.	7.9	218
30	Enhanced mechanical behavior of a nanocrystallised stainless steel and its thermal stability. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 445-446, 281-288.	5.6	209
31	Highâ€Strength and Highâ€Ductility Nanostructured and Amorphous Metallic Materials. Advanced Materials, 2014, 26, 5518-5524.	21.0	209
32	Design of high entropy alloys: A single-parameter thermodynamic rule. Scripta Materialia, 2015, 104, 53-55.	5.2	209
33	A review of catalytic performance of metallic glasses in wastewater treatment: Recent progress and prospects. Progress in Materials Science, 2019, 105, 100576.	32.8	209
34	Ultralarge elastic deformation of nanoscale diamond. Science, 2018, 360, 300-302.	12.6	208
35	Modeling grain size dependent optimal twin spacing for achieving ultimate high strength and related high ductility in nanotwinned metals. Acta Materialia, 2011, 59, 5544-5557.	7.9	193
36	Novel cyclodextrin-based adsorbents for removing pollutants from wastewater: A critical review. Chemosphere, 2020, 241, 125043.	8.2	190

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37	Efficiently activate peroxymonosulfate by Fe3O4@MoS2 for rapid degradation of sulfonamides. Chemical Engineering Journal, 2021, 422, 130126.	12.7	177
38	Electrochemical doping of anatase TiO₂in organic electrolytes for high-performance supercapacitors and photocatalysts. Journal of Materials Chemistry A, 2014, 2, 229-236.	10.3	172
39	Asymmetric flexural behavior from bambooâ€™s functionally graded hierarchical structure: Underlying mechanisms. Acta Biomaterialia, 2015, 16, 178-186.	8.3	171
40	A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution. Advanced Materials, 2020, 32, e2000385.	21.0	169
41	Bioinspired Simultaneous Changes in Fluorescence Color, Brightness, and Shape of Hydrogels Enabled by AIEgens. Advanced Materials, 2020, 32, e1906493.	21.0	160
42	Origami and 4D printing of elastomer-derived ceramic structures. Science Advances, 2018, 4, eaat0641.	10.3	159
43	Unusual fast secondary relaxation in metallic glass. Nature Communications, 2015, 6, 7876.	12.8	158
44	Metallic Liquids and Glasses: Atomic Order and Global Packing. Physical Review Letters, 2010, 105, 155501.	7.8	157
45	Chromizing behaviors of a low carbon steel processed by means of surface mechanical attrition treatment. Acta Materialia, 2005, 53, 2081-2089.	7.9	154
46	Modelling the plastic deformation of nanostructured metals with bimodal grain size distribution. International Journal of Plasticity, 2012, 30-31, 166-184.	8.8	154
47	Nanostructural metallic materials: Structures and mechanical properties. Materials Today, 2020, 38, 114-135.	14.2	150
48	Optimization of the strain rate to achieve exceptional mechanical properties of 304 stainless steel using high speed ultrasonic surface mechanical attrition treatment. Acta Materialia, 2010, 58, 5086-5096.	7.9	144
49	Polydopamine modified cyclodextrin polymer as efficient adsorbent for removing cationic dyes and Cu2+. Journal of Hazardous Materials, 2020, 389, 121897.	12.4	144
50	Modeling of grain size effect on micro deformation behavior in micro-forming of pure copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6638-6648.	5.6	143
51	Low-temperature nitriding of 38CrMoAl steel with a nanostructured surface layer induced by surface mechanical attrition treatment. Surface and Coatings Technology, 2008, 202, 4957-4963.	4.8	141
52	The size effect on micro deformation behaviour in micro-scale plastic deformation. Materials & Design, 2011, 32, 198-206.	5.1	134
53	Oxygen/Fluorine Dualâ€Doped Porous Carbon Nanopolyhedra Enabled Ultrafast and Highly Stable Potassium Storage. Advanced Functional Materials, 2019, 29, 1906126.	14.9	123
54	Adsorptive removal of bisphenol A, chloroxylenol, and carbamazepine from water using a novel Î²-cyclodextrin polymer. Ecotoxicology and Environmental Safety, 2019, 170, 278-285.	6.0	120

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55	Phase stability and tensile properties of Co-free Al0.5CrCuFeNi2 high-entropy alloys. Journal of Alloys and Compounds, 2014, 584, 530-537.	5.5	116
56	Dislocation evolution in titanium during surface severe plastic deformation. Applied Surface Science, 2009, 255, 6097-6102.	6.1	115
57	Compelling Rejuvenated Catalytic Performance in Metallic Glasses. Advanced Materials, 2018, 30, e1802764.	21.0	115
58	Universal secondary relaxation and unusual brittle-to-ductile transition in metallic glasses. Materials Today, 2017, 20, 293-300.	14.2	114
59	Grain refinement at the nanoscale via mechanical twinning and dislocation interaction in a nickel-based alloy. Journal of Materials Research, 2004, 19, 1623-1629.	2.6	109
60	Nanotwinned and hierarchical nanotwinned metals: a review of experimental, computational and theoretical efforts. Npj Computational Materials, 2018, 4, .	8.7	109
61	The generalized thermodynamic rule for phase selection in multicomponent alloys. Intermetallics, 2015, 59, 75-80.	3.9	108
62	Behavior of air plasma sprayed thermal barrier coatings, subject to intense thermal cycling. Surface and Coatings Technology, 2003, 166, 37-43.	4.8	105
63	A study of the process and kinetics of electrochemical deposition and the hydrothermal synthesis of hydroxyapatite coatings. Journal of Materials Science: Materials in Medicine, 2000, 11, 667-673.	3.6	104
64	Thermal cyclic behavior of air plasma sprayed thermal barrier coatings sprayed on stainless steel substrates. Surface and Coatings Technology, 2007, 201, 4653-4658.	4.8	99
65	Characterization and stability of hydroxyapatite coatings prepared by an electrodeposition and alkaline-treatment process. Journal of Biomedical Materials Research Part B, 2001, 54, 96-101.	3.1	97
66	Hierarchical nanostructured aluminum alloy with ultrahigh strength and large plasticity. Nature Communications, 2019, 10, 5099.	12.8	97
67	Fabrication of nickel oxide-embedded titania nanotube array for redox capacitance application. Electrochimica Acta, 2008, 53, 3643-3649.	5.2	95
68	Literature review on the mechanical properties of materials after surface mechanical attrition treatment (SMAT). Nano Materials Science, 2020, 2, 3-31.	8.8	94
69	Development of Nanostructures in Metallic Materials with Low Stacking Fault Energies During Surface Mechanical Attrition Treatment (SMAT). Materials Transactions, 2003, 44, 1919-1925.	1.2	93
70	Atomic-Scale Structural Evolution and Stability of Supercooled Liquid of a Zr-Based Bulk Metallic Glass. Physical Review Letters, 2011, 106, 215505.	7.8	93
71	Effect of residual stresses on air plasma sprayed thermal barrier coatings. Surface and Coatings Technology, 2003, 168, 291-299.	4.8	89
72	A Selfâ€Supported Highâ€Entropy Metallic Glass with a Nanosponge Architecture for Efficient Hydrogen Evolution under Alkaline and Acidic Conditions. Advanced Functional Materials, 2021, 31, 2101586.	14.9	89

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73	Determination of Residual Stress in Composite Laminates Using the Incremental Hole-drilling Method. Journal of Composite Materials, 2003, 37, 831-844.	2.4	87
74	Wear and corrosion properties of a low carbon steel processed by means of SMAT followed by lower temperature chromizing treatment. Surface and Coatings Technology, 2006, 201, 2796-2801.	4.8	87
75	Gradient twinned 304 stainless steels for high strength and high ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 179-188.	5.6	87
76	Microstructures-based constitutive analysis for mechanical properties of gradient-nanostructured 304 stainless steels. Acta Materialia, 2017, 128, 375-390.	7.9	86
77	High-order hierarchical nanotwins with superior strength and ductility. Acta Materialia, 2018, 149, 397-406.	7.9	85
78	Recent advances and prospects of persistent luminescent materials as inner secondary self-luminous light source for photocatalytic applications. Chemical Engineering Journal, 2021, 403, 126099.	12.7	84
79	Influence of size effect on the springback of sheet metal foils in micro-bending. Computational Materials Science, 2011, 50, 2604-2614.	3.0	83
80	Fe_{1â˜'x}S/C nanocomposites from sugarcane waste-derived microporous carbon for high-performance lithium ion batteries. Green Chemistry, 2016, 18, 3029-3039.	9.0	83
81	Mechanical properties and thermal stability of nanocrystallized pure aluminum produced by surface mechanical attrition treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 446-451.	5.6	82
82	Measurement of residual-stress distribution by the incremental hole-drilling method. Experimental Mechanics, 1985, 25, 175-185.	2.0	80
83	Nano-scratch and fretting wear study of DLC coatings for biomedical application. Diamond and Related Materials, 2001, 10, 1448-1456.	3.9	79
84	Fiber Bragg gratings with enhanced thermal stability by residual stress relaxation. Optics Express, 2009, 17, 19785.	3.4	78
85	Self-ordered Nanotubular TiO2 Multilayers for High-Performance Photocatalysts and Supercapacitors. Electrochimica Acta, 2016, 203, 257-264.	5.2	78
86	Dislocation activities at the martensite phase transformation interface in metastable austenitic stainless steel: An in-situ TEM study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 236-243.	5.6	78
87	Superior Tensile Ductility in Bulk Metallic Glass with Gradient Amorphous Structure. Scientific Reports, 2014, 4, 4757.	3.3	77
88	Highly Exothermic and Superhydrophobic Mg/Fluorocarbon Core/Shell Nanoenergetic Arrays. ACS Applied Materials & Interfaces, 2014, 6, 10497-10505.	8.0	76
89	Dramatic enhancement effects of l-cysteine on the degradation of sulfadiazine in Fe3+/CaO2 system. Journal of Hazardous Materials, 2020, 383, 121133.	12.4	76
90	Enhanced mechanical properties and corrosion resistance of 316L stainless steel by pre-forming a gradient nanostructured surface layer and annealing. Acta Materialia, 2021, 208, 116773.	7.9	76

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91	Î³â†'Îµ martensite transformation and twinning deformation in fcc cobalt during surface mechanical attrition treatment. Scripta Materialia, 2005, 52, 547-551.	5.2	75
92	Make nanostructured metal exceptionally tough by introducing non-localized fracture behaviors. Scripta Materialia, 2008, 59, 579-582.	5.2	75
93	Alumina grit blasting parameters for surface preparation in the plasma spraying operation. Journal of Thermal Spray Technology, 1997, 6, 217-227.	3.1	74
94	Analysis of the twin spacing and grain size effects on mechanical properties in hierarchically nanotwinned face-centered cubic metals based on a mechanism-based plasticity model. Journal of the Mechanics and Physics of Solids, 2015, 76, 162-179.	4.8	74
95	Attractive In Situ Selfâ€Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance. Advanced Functional Materials, 2019, 29, 1807857.	14.9	74
96	Fe3O4/graphene aerogels: A stable and efficient persulfate activator for the rapid degradation of malachite green. Chemosphere, 2020, 251, 126402.	8.2	74
97	Surface Nanocrystallization by Surface Mechanical Attrition Treatment. Materials Science Forum, 0, 579, 91-108.	0.3	71
98	One-dimensional CuO nanowire: synthesis, electrical, and optoelectronic devices application. Nanoscale Research Letters, 2014, 9, 637.	5.7	71
99	Low-temperature fabrication of brown TiO₂ with enhanced photocatalytic activities under visible light. Chemical Communications, 2016, 52, 2988-2991.	4.1	71
100	Strain Engineering of Metal Halide Perovskites on Coupling Anisotropic Behaviors. Advanced Functional Materials, 2021, 31, 2006243.	14.9	71
101	Effects of specimen geometry and base material on the mechanical behavior of focused-ion-beam-fabricated metallic-glass micropillars. Acta Materialia, 2009, 57, 1613-1623.	7.9	70
102	The atomic-scale mechanism for the enhanced glass-forming-ability of a Cu-Zr based bulk metallic glass with minor element additions. Scientific Reports, 2014, 4, 4648.	3.3	70
103	Interface evolution of Si/Mullite/Yb2SiO5 PS-PVD environmental barrier coatings under high temperature. Journal of the European Ceramic Society, 2020, 40, 1478-1487.	5.7	70
104	Viscoelastic creep and relaxation of dielectric elastomers characterized by a Kelvin-Voigt-Maxwell model. Applied Physics Letters, 2017, 110, .	3.3	68
105	Rare earth-free composites of carbon dots/metalâ€"organic frameworks as white light emitting phosphors. Journal of Materials Chemistry C, 2019, 7, 2207-2211.	5.5	68
106	Construction of FeP Hollow Nanoparticles Densely Encapsulated in Carbon Nanosheet Frameworks for Efficient and Durable Electrocatalytic Hydrogen Production. Advanced Science, 2019, 6, 1801490.	11.2	68
107	Ballistic performance of nanocrystalline and nanotwinned ultrafine crystal steel. Acta Materialia, 2012, 60, 1353-1367.	7.9	66
108	Crystalâ€"Glass Highâ€Entropy Nanocomposites with Near Theoretical Compressive Strength and Large Deformability. Advanced Materials, 2020, 32, e2002619.	21.0	66

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109	Morphology and composition of hydroxyapatite coatings prepared by hydrothermal treatment on electrodeposited brushite coatings. Journal of Materials Science: Materials in Medicine, 1999, 10, 243-248.	3.6	65
110	Nanomechanical properties of nanostructured titanium prepared by SMAT. Surface and Coatings Technology, 2006, 201, 208-213.	4.8	65
111	Degradation of sulfanilamide by Fenton-like reaction and optimization using response surface methodology. Ecotoxicology and Environmental Safety, 2019, 172, 334-340.	6.0	65
112	Wear behavior of nanocrystalline structured magnesium alloy induced by surface mechanical attrition treatment. Surface and Coatings Technology, 2015, 261, 219-226.	4.8	64
113	Measurement of residual-stress distribution by the incremental hole-drilling method. Journal of Mechanical Working Technology, 1985, 11, 167-188.	0.1	62
114	The formation of Îµ-Fe3â€“2N phase in a nanocrystalline Fe. Scripta Materialia, 2004, 50, 647-650.	5.2	62
115	Small punch testing for assessing the fracture properties of the reactor vessel steel with different thicknesses. Nuclear Engineering and Design, 2008, 238, 3186-3193.	1.7	62
116	Improving the intergranular corrosion resistance of austenitic stainless steel by high density twinned structure. Scripta Materialia, 2017, 130, 264-268.	5.2	61
117	The deformation behavior of AZ31 Mg alloy with surface mechanical attrition treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 636-646.	5.6	61
118	CuO/Mg/fluorocarbon sandwich-structure superhydrophobic nanoenergetic composite with anti-humidity property. Chemical Engineering Journal, 2015, 266, 163-170.	12.7	60
119	Pt nanoparticles decorated heterostructured g-C3N4/Bi2MoO6 microplates with highly enhanced photocatalytic activities under visible light. Scientific Reports, 2019, 9, 7636.	3.3	60
120	Fatigue strength improvement of selective laser melted Ti6Al4V using ultrasonic surface mechanical attrition. Materials Research Letters, 2019, 7, 327-333.	8.7	60
121	Influence of experimental parameters on determination of residual stress using the incremental hole-drilling method. Composites Science and Technology, 2004, 64, 171-180.	7.8	59
122	An energy-based method to extract plastic properties of metal materials from conical indentation tests. Journal of Materials Research, 2005, 20, 1194-1206.	2.6	59
123	The tensile properties of titanium processed by surface mechanical attrition treatment. Surface and Coatings Technology, 2008, 202, 4728-4733.	4.8	59
124	Study of Residual Stress Distribution by a Combined Method of MoireÂ´ Interferometry and Incremental Hole Drilling, Part I: Theory. Journal of Applied Mechanics, Transactions ASME, 1998, 65, 837-843.	2.2	58
125	Study of the performance of different subpixel image correlation methods in 3D digital image correlation. Applied Optics, 2010, 49, 4044.	2.1	58
126	Microstructure evolution and mechanical properties of an Mgâ€“Gd alloy subjected to surface mechanical attrition treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 146-154.	5.6	58

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127	An experimental study of residual stress induced by ultrasonic shot peening. Journal of Materials Processing Technology, 2004, 152, 56-61.	6.3	57
128	A statistical model for predicting the mechanical properties of nanostructured metals with bimodal grain size distribution. Acta Materialia, 2012, 60, 5762-5772.	7.9	57
129	Fracture Morphology and Quenched-in Precipitates Induced Embrittlement in a Zr-base Bulk Glass. Materials Transactions, 2001, 42, 356-364.	1.2	56
130	Strengthening and toughening by interface-mediated slip transfer reaction in nanotwinned copper. Scripta Materialia, 2009, 60, 508-511.	5.2	56
131	Error evaluation technique for three-dimensional digital image correlation. Applied Optics, 2011, 50, 6239.	2.1	56
132	An innovative Mg/Ti hybrid fixation system developed for fracture fixation and healing enhancement at load-bearing skeletal site. Biomaterials, 2018, 180, 173-183.	11.4	55
133	Dramatic improvement enabled by incorporating thermal conductive TiN into Si-based anodes for lithium ion batteries. Energy Storage Materials, 2020, 29, 367-376.	18.0	55
134	Simulation-enabled study of folding defect formation and avoidance in axisymmetrical flanged components. Journal of Materials Processing Technology, 2009, 209, 5077-5086.	6.3	53
135	Facile Green In Situ Synthesis of Mg/CuO Core/Shell Nanoenergetic Arrays with a Superior Heat-Release Property and Long-Term Storage Stability. ACS Applied Materials & Interfaces, 2013, 5, 7641-7646.	8.0	53
136	A novel L12-strengthened multicomponent Co-rich high-entropy alloy with both high Î³â€²-solvus temperature and superior high-temperature strength. Scripta Materialia, 2021, 199, 113826.	5.2	53
137	Microstructural evolution and formation of nanocrystalline intermetallic compound during surface mechanical attrition treatment of cobalt. Acta Materialia, 2007, 55, 5768-5779.	7.9	52
138	Corrosion behavior on orthopedic NiTi alloy with nanocrystalline/amorphous surface. Materials Chemistry and Physics, 2011, 126, 102-107.	4.0	52
139	Experimental and simulation study of deformation behavior in micro-compound extrusion process. Materials & Design, 2011, 32, 525-534.	5.1	52
140	The effects and mechanisms of zero-valent iron on anaerobic digestion of solid waste: A mini-review. Journal of Cleaner Production, 2021, 278, 123567.	9.3	52
141	Extraction of bulk metallic-glass yield strengths using tapered micropillars in micro-compression experiments. Intermetallics, 2010, 18, 385-393.	3.9	51
142	Facile fabrication of N/S-doped carbon nanotubes with Fe₃O₄ nanocrystals enchased for lasting synergy as efficient oxygen reduction catalysts. Journal of Materials Chemistry A, 2017, 5, 13189-13195.	10.3	50
143	Improved nitrogen transport in surface nanocrystallized low-carbon steels during gaseous nitridation. Materials Letters, 2002, 55, 340-343.	2.6	49
144	Thermal and Nonthermal Effects in Plasmonâ€Mediated Electrochemistry at Nanostructured Ag Electrodes. Angewandte Chemie - International Edition, 2020, 59, 6790-6793.	13.8	49

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145	Study of the intrinsic ductile to brittle transition mechanism of metallic glasses. Acta Materialia, 2009, 57, 6037-6046.	7.9	48
146	Tuning the Bi³⁺-photoemission color over the entire visible region by manipulating secondary cations modulation in the ScV_xP_{1â˜'x}O₄:Bi³⁺ (0 â‰ x â‰ 1) solid solution. Journal of Materials Chemistry C, 2019, 7, 9865-9877.	5.5	48
147	Residual stresses in laser welded aluminium plate by use of ultrasonic and optical methods. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 382, 257-264.	5.6	47
148	Nature-Inspired Hierarchical Steels. Scientific Reports, 2018, 8, 5088.	3.3	47
149	Multicolor Tuning and Temperature-Triggered Anomalous Eu³⁺-Related Photoemission Enhancement via Interplay of Accelerated Energy Transfer and Release of Defect-Trapped Electrons in the Tb³⁺,Eu³⁺-Doped Strontiumâ€"Aluminum Chlorites. ACS Applied Materials & Interfaces, 2018, 10, 36157-36170.	8.0	47
150	A Facile Strategy to Construct Silverâ€Modified, ZnOâ€Incorporated and Carbonâ€Coated Silicon/Porousâ€Carbon Nanofibers with Enhanced Lithium Storage. Small, 2019, 15, e1900436.	10.0	47
151	Theory of designing the gradient microstructured metals for overcoming strength-ductility trade-off. Scripta Materialia, 2020, 184, 41-45.	5.2	47
152	Electrical reliability aspects of HfO2 high-k gate dielectrics with TaN metal gate electrodes under constant voltage stress. Microelectronics Reliability, 2006, 46, 69-76.	1.7	46
153	Elemental segregation in solid-solution high-entropy alloys: Experiments and modeling. Journal of Alloys and Compounds, 2016, 681, 167-174.	5.5	46
154	Influence of rolling temperature on microstructural evolution and mechanical behavior of AZ31 alloy with accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 112-120.	5.6	46
155	Study of residual stress in surface nanostructured AISI 316L stainless steel using two mechanical methods. Surface and Coatings Technology, 2003, 168, 148-155.	4.8	45
156	Photoelectrochemical behavior of titania nanotube array grown on nanocrystalline titanium. Journal of Materials Science, 2009, 44, 2907-2915.	3.7	45
157	Micromechanical simulation of fracture behavior of bimodal nanostructured metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 479-489.	5.6	45
158	Combining gradient structure and supersaturated solid solution to achieve superior mechanical properties in WE43 magnesium alloy. Journal of Materials Science and Technology, 2022, 99, 223-238.	10.7	45
159	On the role of hierarchical twins for achieving maximum yield strength in nanotwinned metals. Applied Physics Letters, 2012, 101, 081906.	3.3	44
160	Sol-gel derived TiO2 coating on plasma nitrided 316L stainless steel. Vacuum, 2012, 86, 1402-1407.	3.5	44
161	Study of Residual Stress Distribution by a Combined Method of MoireÂ´ Interferometry and Incremental Hole Drilling, Part II: Implementation. Journal of Applied Mechanics, Transactions ASME, 1998, 65, 844-850.	2.2	43
162	Analysis of nano-scratch behavior of diamond-like carbon films. Surface and Coatings Technology, 2002, 154, 232-236.	4.8	43

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163	Fluidâ€“structure interaction of single flexible cylinder in axial flow. Computers and Fluids, 2012, 56, 143-151.	2.5	43
164	Effects of surface nanocrystallization on the corrosion behaviors of 316L and alloy 690. Surface and Coatings Technology, 2017, 309, 227-231.	4.8	43
165	Defective Black TiO₂ Nanotube Arrays for Enhanced Photocatalytic and Photoelectrochemical Applications. ACS Applied Nano Materials, 2019, 2, 7372-7378.	5.0	43
166	Lamellarly Stacking Porous N, P Coâ€Doped Mo₂C/C Nanosheets as High Performance Anode for Lithiumâ€Ion Batteries. Small, 2019, 15, e1805022.	10.0	43
167	Anodic Synthesis of Hierarchical SnS/SnO_x Hollow Nanospheres and Their Application for Highâ€Performance Naâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1901000.	14.9	43
168	A new method for evaluating the scratch resistance of diamond-like carbon films by the nano-scratch technique. Diamond and Related Materials, 2002, 11, 1454-1459.	3.9	41
169	Strain rate measurement by Electronic Speckle Pattern Interferometry: A new look at the strain localization onset. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 415, 234-241.	5.6	41
170	Development of Bioimplants with 2D, 3D, and 4D Additive Manufacturing Materials. Engineering, 2020, 6, 1232-1243.	6.7	41
171	Effect of surface mechanical attrition treatment on corrosion fatigue behavior of AZ31B magnesium alloy. International Journal of Fatigue, 2019, 127, 461-469.	5.7	40
172	Facile Synthesis of Nitrogenâ€Rich Carbon Dots as Fertilizers for Mung Bean Sprouts. Advanced Sustainable Systems, 2019, 3, 1800132.	5.3	40
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