

Jian Lu

List of Publications by Year in descending order

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576
papers

32,171
citations

6613

79
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589
docs citations

589
times ranked

19152
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Intelligent Manufacturing of Metal Halide Perovskites. <i>Advanced Materials Technologies</i> , 2023, 8, .	5.8	3
2	Combining gradient structure and supersaturated solid solution to achieve superior mechanical properties in WE43 magnesium alloy. <i>Journal of Materials Science and Technology</i> , 2022, 99, 223-238.	10.7	45
3	The physical origin of observed repulsive forces between general dislocations and twin boundaries in FCC metals: An atom-continuum coupling study. <i>Journal of Materials Science and Technology</i> , 2022, 109, 221-227.	10.7	3
4	Self-templated formation of twin-like metal-organic framework nanobricks as pre-catalysts for efficient water oxidation. <i>Nano Research</i> , 2022, 15, 2887-2894.	10.4	12
5	Tuning the strength-ductility synergy of nanograined Cu through nanotwin volume fraction. <i>Computational Materials Science</i> , 2022, 203, 111073.	3.0	2
6	Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2945-2954.	3.8	8
7	Light-controlled multifunctional reconfigurable structures. <i>Applied Materials Today</i> , 2022, 26, 101393.	4.3	2
8	Nacre-liked material with tough and post-tunable mechanical properties. <i>Journal of Materials Science and Technology</i> , 2022, 114, 172-179.	10.7	4
9	Low-temperature plasma nitriding of AISI 304 stainless steel with nano-structured surface layer. <i>International Journal of Materials Research</i> , 2022, 94, 1143-1147.	0.3	0
10	An anti-freezing biomineral hydrogel of high strain sensitivity for artificial skin applications. <i>Nano Research</i> , 2022, 15, 6655-6661.	10.4	14
11	Tunable ultrathin dual-phase P-doped Bi ₂ MoO ₆ nanosheets for advanced lithium and sodium storage. <i>Nano Research</i> , 2022, 15, 6128-6137.	10.4	8
12	Universality of quenching-partitioning-tempering local equilibrium model. <i>Journal of Materials Science and Technology</i> , 2022, 124, 116-120.	10.7	4
13	Massive interstitial solid solution alloys achieve near-theoretical strength. <i>Nature Communications</i> , 2022, 13, 1102.	12.8	29
14	Simulation on bone remodeling with stochastic nature of adult and elderly using topology optimization algorithm. <i>Journal of Biomechanics</i> , 2022, 136, 111078.	2.1	7
15	Encapsulating atomic molybdenum into hierarchical nitrogen-doped carbon nanoboxes for efficient oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 67-76.	9.4	7
16	Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-one Charge Storage, and Possible Implications in the Origin of Life. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	14
17	Enhanced mechanical properties of Ti6Al4V alloy fabricated by laser additive manufacturing under static magnetic field. <i>Materials Research Letters</i> , 2022, 10, 530-538.	8.7	31
18	Insertable, Scabbarded, and Nanoetched Silver Needle Sensor for Hazardous Element Depth Profiling by Laser-Induced Breakdown Spectroscopy. <i>ACS Sensors</i> , 2022, 7, 1381-1389.	7.8	14

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19	In situ surface-enhanced Raman spectroscopy monitoring of molecular reorientation in plasmon-mediated chemical reactions. <i>Journal of Catalysis</i> , 2022, 413, 527-533.	6.2	5
20	Continuous morphing trailing-edge wing concept based on multi-stable nanomaterial. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 219-231.	5.3	11
21	Comparison of modified injection molding and conventional machining in biodegradable behavior of perforated cannulated magnesium hip stents. <i>Journal of Materials Science and Technology</i> , 2021, 63, 145-160.	10.7	23
22	The effects and mechanisms of zero-valent iron on anaerobic digestion of solid waste: A mini-review. <i>Journal of Cleaner Production</i> , 2021, 278, 123567.	9.3	52
23	Biaxial fatigue crack growth in proton exchange membrane of fuel cells based on cyclic cohesive finite element method. <i>International Journal of Mechanical Sciences</i> , 2021, 189, 105946.	6.7	9
24	Recent advances and prospects of persistent luminescent materials as inner secondary self-luminous light source for photocatalytic applications. <i>Chemical Engineering Journal</i> , 2021, 403, 126099.	12.7	84
25	Strain Engineering of Metal Halide Perovskites on Coupling Anisotropic Behaviors. <i>Advanced Functional Materials</i> , 2021, 31, 2006243.	14.9	71
26	Anodic self-assembly method for synthesizing hierarchical FeS/FeOx hollow nanospheres. <i>Journal of Power Sources</i> , 2021, 484, 229268.	7.8	7
27	Simple Designed Micro-“Nano Si”-Graphite Hybrids for Lithium Storage. <i>Small</i> , 2021, 17, e2006373.	10.0	26
28	Constitutive modeling of size-dependent deformation behavior in nano-dual-phase glass-crystal alloys. <i>International Journal of Plasticity</i> , 2021, 137, 102918.	8.8	10
29	Plasmonic metal nanostructures: concepts, challenges and opportunities in photo-mediated chemical transformations. <i>IScience</i> , 2021, 24, 101982.	4.1	19
30	Low-carbon advanced nanostructured steels: Microstructure, mechanical properties, and applications. <i>Science China Materials</i> , 2021, 64, 1580-1597.	6.3	8
31	Additive manufacturing of structural materials. <i>Materials Science and Engineering Reports</i> , 2021, 145, 100596.	31.8	254
32	Enhanced mechanical properties and corrosion resistance of 316L stainless steel by pre-forming a gradient nanostructured surface layer and annealing. <i>Acta Materialia</i> , 2021, 208, 116773.	7.9	76
33	Structural engineering of sulfur-doped carbon encapsulated bismuth sulfide core-shell structure for enhanced potassium storage performance. <i>Nano Research</i> , 2021, 14, 3545-3551.	10.4	16
34	A Self-Supported High-Entropy Metallic Glass with a Nanosponge Architecture for Efficient Hydrogen Evolution under Alkaline and Acidic Conditions. <i>Advanced Functional Materials</i> , 2021, 31, 2101586.	14.9	89
35	The Twisting of Dome-Like Metamaterial from Brittle to Ductile. <i>Advanced Science</i> , 2021, 8, 2002701.	11.2	17
36	Supervariate ceramics: biomineralization mechanism. <i>Materials Today Advances</i> , 2021, 10, 100144.	5.2	8

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37	Facile Surfactant-free, Reductant-free, and Ag Salt-free Growth of Ag Nanoparticles with Controllable Size from 35 to 660 nm on Bulk Ag Materials. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2249-2252.	3.3	5
38	Microstructure Evolution and Mechanical Properties of Austenite Stainless Steel with Gradient Twinned Structure by Surface Mechanical Attrition Treatment. <i>Nanomaterials</i> , 2021, 11, 1624.	4.1	15
39	Dislocations across interphase enable plain steel with high strength-ductility. <i>Science Bulletin</i> , 2021, 66, 1058-1062.	9.0	25
40	Liquefaction-induced plasticity from entropy-boosted amorphous ceramics. <i>Applied Materials Today</i> , 2021, 23, 101011.	4.3	3
41	A novel L12-strengthened multicomponent Co-rich high-entropy alloy with both high T^{β} -solvus temperature and superior high-temperature strength. <i>Scripta Materialia</i> , 2021, 199, 113826.	5.2	53
42	Additive-free Energetic Film Based on Graphene Oxide and Nanoscale Energetic Coordination Polymer for Transient Microchip. <i>Advanced Functional Materials</i> , 2021, 31, 2103199.	14.9	22
43	Interfacial oxidation of hafnium modified NiAl alloys. <i>Corrosion Science</i> , 2021, 189, 109604.	6.6	8
44	Ferroic alternation in methylammonium lead triiodide perovskite. <i>EcoMat</i> , 2021, 3, e12131.	11.9	13
45	Soft, Bistable Actuators for Reconfigurable 3D Electronics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41968-41977.	8.0	11
46	Revealing carbide precipitation effects and their mechanisms during quenching-partitioning-tempering of a high carbon steel: Experiments and Modeling. <i>Acta Materialia</i> , 2021, 217, 117176.	7.9	21
47	A Self-supported High-Entropy Metallic Glass with a Nanosponge Architecture for Efficient Hydrogen Evolution under Alkaline and Acidic Conditions (<i>Adv. Funct. Mater.</i> 38/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170283.	14.9	0
48	Second phase effect on corrosion of nanostructured Mg-Zn-Ca dual-phase metallic glasses. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1546-1555.	11.9	15
49	Microscopic Volta potential difference on metallic surface promotes the osteogenic differentiation and proliferation of human mesenchymal stem cells. <i>Materials Science and Engineering C</i> , 2021, 128, 112325.	7.3	2
50	Amorphous High-Entropy Hydroxides of Tunable Wide Solar Absorption for Solar Water Evaporation. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100094.	2.3	3
51	Efficiently activate peroxymonosulfate by Fe ₃ O ₄ @MoS ₂ for rapid degradation of sulfonamides. <i>Chemical Engineering Journal</i> , 2021, 422, 130126.	12.7	177
52	Functionalized nanoporous gold membrane for pancreatic islet cells encapsulation. <i>Materials Letters</i> , 2021, 301, 130224.	2.6	3
53	A constitutive model incorporating grain refinement strengthening on metallic alloys. <i>Journal of Materials Science and Technology</i> , 2021, 88, 233-239.	10.7	6
54	Multicomponent Ni-rich high-entropy alloy toughened with irregular-shaped precipitates and serrated grain boundaries. <i>Scripta Materialia</i> , 2021, 204, 114066.	5.2	23

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55	Insertable and reusable SERS sensors for rapid on-site quality control of fish and meat products. <i>Chemical Engineering Journal</i> , 2021, 426, 130733.	12.7	26
56	Self-Assembled Stacking 2D Metal Phosphide Loop-In-Sheet Heterostructures by Edge-Topological Regulation for Highly Efficient Water Oxidation. <i>Small</i> , 2021, 17, e2006860.	10.0	16
57	Braking Force Model on Virus Transmission to Evaluate Interventions Including the Administration of COVID-19 Vaccines – Worldwide, 2019–2021. <i>China CDC Weekly</i> , 2021, 3, 869-877.	2.3	0
58	Influence of co-existing medium Mn and dual phase steel microstructures on ductility and Lüders band formation. <i>Acta Materialia</i> , 2021, 221, 117418.	7.9	20
59	Aerodynamic Performance of a Nanostructure-Induced Multistable Shell. <i>Aerospace</i> , 2021, 8, 350.	2.2	0
60	Controlling Plasmon-Aided Reduction of <i>p</i> -Nitrothiophenol by Tuning the Illumination Wavelength. <i>ACS Catalysis</i> , 2021, 11, 14898-14905.	11.2	14
61	Supervariate Ceramics: Gelatinous and Monolithic Ceramics Fabricated under Ambient Conditions. <i>Advanced Engineering Materials</i> , 2021, 23, .	3.5	2
62	Numerical and experimental comparison of two nano-structuring processing techniques on making stronger stainless steels. <i>Materials Today Communications</i> , 2020, 24, 100419.	1.9	0
63	Dramatic enhancement effects of L-cysteine on the degradation of sulfadiazine in Fe ³⁺ /CaO ₂ system. <i>Journal of Hazardous Materials</i> , 2020, 383, 121133.	12.4	76
64	Novel cyclodextrin-based adsorbents for removing pollutants from wastewater: A critical review. <i>Chemosphere</i> , 2020, 241, 125043.	8.2	190
65	A novel hollow-sphere cyclodextrin nanoreactor for the enhanced removal of bisphenol A under visible irradiation. <i>Journal of Hazardous Materials</i> , 2020, 384, 121267.	12.4	37
66	Superior adsorption capacity of functionalised straw adsorbent for dyes and heavy-metal ions. <i>Journal of Hazardous Materials</i> , 2020, 382, 121040.	12.4	254
67	Interface evolution of Si/Mullite/Yb ₂ SiO ₅ PS-PVD environmental barrier coatings under high temperature. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1478-1487.	5.7	70
68	Synergistic function of iron and cobalt in metallic glasses for highly improving persulfate activation in water treatment. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153574.	5.5	20
69	Dramatic improvement enabled by incorporating thermal conductive TiN into Si-based anodes for lithium ion batteries. <i>Energy Storage Materials</i> , 2020, 29, 367-376.	18.0	55
70	Polydopamine modified cyclodextrin polymer as efficient adsorbent for removing cationic dyes and Cu ²⁺ . <i>Journal of Hazardous Materials</i> , 2020, 389, 121897.	12.4	144
71	Full-Color Reflective Filters in a Large Area with a Wide-Band Tunable Absorber Deposited by One-Step Magnetron Sputtering. <i>Advanced Optical Materials</i> , 2020, 8, 1901626.	7.3	16
72	Improving bistable properties of metallic shells using a nanostructuring technique. <i>Thin-Walled Structures</i> , 2020, 146, 106444.	5.3	5

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73	Development of Bioimplants with 2D, 3D, and 4D Additive Manufacturing Materials. <i>Engineering</i> , 2020, 6, 1232-1243.	6.7	41
74	Medical Additive Manufacturing: From a Frontier Technology to the Research and Development of Products. <i>Engineering</i> , 2020, 6, 1217-1221.	6.7	11
75	Size-dependent formation and thermal stability of high-order twins in hierarchical nanotwinned metals. <i>International Journal of Plasticity</i> , 2020, 128, 102685.	8.8	21
76	Crystal-Glass High-Entropy Nanocomposites with Near Theoretical Compressive Strength and Large Deformability. <i>Advanced Materials</i> , 2020, 32, e2002619.	21.0	66
77	Near-ideal strength and large compressive deformability of a nano-dual-phase glass-crystal alloy in sub-micron. <i>Scripta Materialia</i> , 2020, 188, 290-295.	5.2	10
78	Effect of water vapor on high-temperature oxidation of NiAl alloy. <i>Corrosion Science</i> , 2020, 177, 108963.	6.6	19
79	A robust spring-like lamellar VO/C nanostructure for high-rate and long-life potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23939-23946.	10.3	15
80	Design of Fe,N co-doped multi-walled carbon nanotubes for efficient oxygen reduction. <i>Chemical Communications</i> , 2020, 56, 14467-14470.	4.1	24
81	Luminescence in external dopant-free scandium-phosphorus vanadate solid solution: a spectroscopic and theoretical investigation. <i>Materials Advances</i> , 2020, 1, 2467-2482.	5.4	2
82	Role of Boron in Enhancing Electron Delocalization to Improve Catalytic Activity of Fe-Based Metallic Glasses for Persulfate-Based Advanced Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44789-44797.	8.0	25
83	Perovskite Core-Shell Nanowire Transistors: Interfacial Transfer Doping and Surface Passivation. <i>ACS Nano</i> , 2020, 14, 12749-12760.	14.6	34
84	Nano-Dual-Phase Metallic Glass Film Enhances Strength and Ductility of a Gradient Nanograined Magnesium Alloy. <i>Advanced Science</i> , 2020, 7, 2001480.	11.2	18
85	Multistable shells with designable configurations based on localized nanocrystallization processes. <i>Materials and Design</i> , 2020, 195, 109047.	7.0	1
86	Fe,N Co-Doped Mesoporous Carbon Nanosheets for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020, 3, 5637-5644.	5.0	16
87	Cellular fate of deformable needle-shaped PLGA-PEG fibers. <i>Acta Biomaterialia</i> , 2020, 112, 182-189.	8.3	7
88	Ultrafine Nanoporous Gold <i>via</i> Thiol Compound-Mediated Chemical Dealloying. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10026-10031.	3.1	4
89	Solution-Based Comproportionation Reaction for Facile Synthesis of Black TiO ₂ Nanotubes and Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 6087-6092.	5.1	12
90	Microstructure-Property Relations in the Tensile Behavior of Bimodal Nanostructured Metals. <i>Advanced Engineering Materials</i> , 2020, 22, 2000097.	3.5	6

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91	Ductility of an ultrastrong glass-crystal nano-dual-phase alloy in sub-micron. Scripta Materialia, 2020, 183, 17-21.	5.2	13
92	Fe ₃ O ₄ /graphene aerogels: A stable and efficient persulfate activator for the rapid degradation of malachite green. Chemosphere, 2020, 251, 126402.	8.2	74
93	Accelerated photoelectron transmission by carboxymethyl β -cyclodextrin for organic contaminants removal: An alternative to noble metal catalyst. Journal of Hazardous Materials, 2020, 393, 122414.	12.4	30
94	Thermal and Nonthermal Effects in Plasmon-Mediated Electrochemistry at Nanostructured Ag Electrodes. Angewandte Chemie - International Edition, 2020, 59, 6790-6793.	13.8	49
95	Thermal and Nonthermal Effects in Plasmon-Mediated Electrochemistry at Nanostructured Ag Electrodes. Angewandte Chemie, 2020, 132, 6856-6859.	2.0	4
96	Mechanism of vertical crack formation in Yb ₂ SiO ₅ coatings deposited via plasma spray-physical vapor deposition. Journal of Materiomics, 2020, 6, 102-108.	5.7	22
97	Direct-Ink Written Shape-Morphing Film with Rapid and Programmable Multimotion. Advanced Materials Technologies, 2020, 5, 1900974.	5.8	22
98	Bioinspired Simultaneous Changes in Fluorescence Color, Brightness, and Shape of Hydrogels Enabled by AIEgens. Advanced Materials, 2020, 32, e1906493.	21.0	160
99	A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution. Advanced Materials, 2020, 32, e2000385.	21.0	169
100	Literature review on the mechanical properties of materials after surface mechanical attrition treatment (SMAT). Nano Materials Science, 2020, 2, 3-31.	8.8	94
101	Theory of designing the gradient microstructured metals for overcoming strength-ductility trade-off. Scripta Materialia, 2020, 184, 41-45.	5.2	47
102	Nanostructural metallic materials: Structures and mechanical properties. Materials Today, 2020, 38, 114-135.	14.2	150
103	Water Splitting: A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution (Adv. Mater. 21/2020). Advanced Materials, 2020, 32, 2070166.	21.0	6
104	Tuning the Bi ³⁺ -photoemission color over the entire visible region by manipulating secondary cations modulation in the ScV _x P _{1-x} O ₄ :Bi ³⁺ (0 ≤ x ≤ 1) solid solution. Journal of Materials Chemistry C, 2019, 7, 9865-9877.	5.5	48
105	Ductile Au ₄ Al intermetallic compound with crack resistance. Intermetallics, 2019, 112, 106555.	3.9	1
106	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
107	Mechanical properties and corrosion behaviors of AZ31 alloy with dual-phase glass-crystal coating. Materials Characterization, 2019, 154, 200-211.	4.4	8
108	Defective Black TiO ₂ Nanotube Arrays for Enhanced Photocatalytic and Photoelectrochemical Applications. ACS Applied Nano Materials, 2019, 2, 7372-7378.	5.0	43

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109	Hierarchical nanostructured aluminum alloy with ultrahigh strength and large plasticity. <i>Nature Communications</i> , 2019, 10, 5099.	12.8	97
110	Oxygen/Fluorine Dual-Doped Porous Carbon Nanopolyhedra Enabled Ultrafast and Highly Stable Potassium Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1906126.	14.9	123
111	Mechanical behaviour of AZ31 magnesium alloy with the laminate and gradient structure. <i>Philosophical Magazine</i> , 2019, 99, 3059-3077.	1.6	13
112	Lamellarly Stacking Porous N, P Co-Doped Mo ₂ C/C Nanosheets as High Performance Anode for Lithium-Ion Batteries. <i>Small</i> , 2019, 15, e1805022.	10.0	43
113	Rare earth-free composites of carbon dots/metal-organic frameworks as white light emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2207-2211.	5.5	68
114	Degradation of sulfanilamide by Fenton-like reaction and optimization using response surface methodology. <i>Ecotoxicology and Environmental Safety</i> , 2019, 172, 334-340.	6.0	65
115	Zirconium silicate growth induced by the thermochemical interaction of yttria-stabilized zirconia coatings with molten CMAS deposits. <i>Corrosion Science</i> , 2019, 149, 249-256.	6.6	26
116	Grain-size insensitive work-hardening behavior of Ag microwires. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 655-660.	5.6	1
117	A review of catalytic performance of metallic glasses in wastewater treatment: Recent progress and prospects. <i>Progress in Materials Science</i> , 2019, 105, 100576.	32.8	209
118	Pt nanoparticles decorated heterostructured g-C ₃ N ₄ /Bi ₂ MoO ₆ microplates with highly enhanced photocatalytic activities under visible light. <i>Scientific Reports</i> , 2019, 9, 7636.	3.3	60
119	Transitions of nanostructure-induced bistable disks actuated by line forces. <i>International Journal of Mechanical Sciences</i> , 2019, 157-158, 542-551.	6.7	2
120	Effects of Pd Surface Coating on the Strength and Fracture Behavior of Cu Micro Bonding Wires. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 3013-3018.	2.2	4
121	Recent advances for dyes removal using novel adsorbents: A review. <i>Environmental Pollution</i> , 2019, 252, 352-365.	7.5	791
122	Enhanced Passivation Layer by Cr Diffusion of 301 Stainless Steel Facilitated by SMAT. <i>Advanced Engineering Materials</i> , 2019, 21, 1900125.	3.5	34
123	Metallic Glass Catalysts: Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance (Adv. Funct.) <i>TJ ETQq1 1 0.784344rgBT /Overlock</i>		
124	Characterization of the Corrosion of Nanostructured 17-4%PH Stainless Steel by Surface Mechanical Attrition Treatment (SMAT). <i>Analytical Letters</i> , 2019, 52, 2454-2471.	1.8	26
125	Bottom-up synthesis of iron and nitrogen dual-doped porous carbon nanosheets for efficient oxygen reduction. <i>Chemical Communications</i> , 2019, 55, 5789-5792.	4.1	25
126	Fatigue strength improvement of selective laser melted Ti6Al4V using ultrasonic surface mechanical attrition. <i>Materials Research Letters</i> , 2019, 7, 327-333.	8.7	60

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127	Electrochemically Synthesized Porous Ag Double Layers for Surface-Enhanced Raman Spectroscopy Applications. <i>Langmuir</i> , 2019, 35, 6340-6345.	3.5	4
128	Enhanced Corrosion Properties of Nanostructured 316 Stainless Steel in 0.6M NaCl Solution. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	2.6	37
129	Influence of rolling temperature on microstructural evolution and mechanical behavior of AZ31 alloy with accumulative roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 112-120.	5.6	46
130	Predicting surface deformation during mechanical attrition of metallic alloys. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	23
131	A Facile Strategy to Construct Silver-Modified, ZnO-Incorporated and Carbon-Coated Silicon/Porous-Carbon Nanofibers with Enhanced Lithium Storage. <i>Small</i> , 2019, 15, e1900436.	10.0	47
132	Anodic Synthesis of Hierarchical SnS/SnO ₂ Hollow Nanospheres and Their Application for High-Performance Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1901000.	14.9	43
133	Gold Nanoparticle-Decorated Silver Needle for Surface-Enhanced Raman Spectroscopy Screening of Residual Malachite Green in Aquaculture Products. <i>ACS Applied Nano Materials</i> , 2019, 2, 2752-2757.	5.0	33
134	Scale law of complex deformation transitions of nanotwins in stainless steel. <i>Nature Communications</i> , 2019, 10, 1403.	12.8	29
135	Attractive In Situ Self-Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2019, 29, 1807857.	14.9	74
136	Deformation mechanism and dynamic precipitation in a Mg-7Al-2Sn alloy processed by surface mechanical attrition treatment. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1473-1478.	10.7	11
137	UiO-66-NO ₂ as an Oxygen Pump for Enhancing Oxygen Reduction Reaction Performance. <i>Chemistry of Materials</i> , 2019, 31, 1646-1654.	6.7	33
138	Surface mechanical attrition treatment of commercially pure titanium by electromagnetic vibration. <i>International Journal of Materials Research</i> , 2019, 110, 963-968.	0.3	0
139	Theoretical and experimental study of bistable symmetric shells built by locally nanostructuring an isotropic plate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 531, 012018.	0.6	0
140	Experimental and Theoretical Investigation on Bistable Symmetric Shells Built by Locally Nanostructuring Isotropic Rectangular Plates. <i>International Journal of Structural Stability and Dynamics</i> , 2019, 19, 1950141.	2.4	3
141	The combined effects of grain and sample sizes on the mechanical properties and fracture modes of gold microwires. <i>Journal of Materials Science and Technology</i> , 2019, 35, 76-83.	10.7	13
142	Facile Synthesis of Nitrogen-Rich Carbon Dots as Fertilizers for Mung Bean Sprouts. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800132.	5.3	40
143	Adsorptive removal of bisphenol A, chloroxylenol, and carbamazepine from water using a novel β -cyclodextrin polymer. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 278-285.	6.0	120
144	Brittle-to-ductile transition of Au ₂ Al and AuAl ₂ intermetallic compounds in wire bonding. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 862-866.	2.2	7

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145	Static and dynamic mechanical behaviors of gradient-nanotwinned stainless steel with a composite structure: Experiments and modeling. <i>International Journal of Plasticity</i> , 2019, 114, 272-288.	8.8	30
146	Chemically dealloyed Fe-based metallic glass with void channels-like architecture for highly enhanced peroxymonosulfate activation in catalysis. <i>Journal of Alloys and Compounds</i> , 2019, 785, 642-650.	5.5	35
147	A New Inner Surface Attrition Treatment for Strengthening Metallic Tubular Structures. <i>Advanced Engineering Materials</i> , 2019, 21, 1801125.	3.5	2
148	Various configurations and transition strategies of nanostructure induced bistable disks. <i>International Journal of Solids and Structures</i> , 2019, 160, 80-95.	2.7	9
149	Construction of FeP Hollow Nanoparticles Densely Encapsulated in Carbon Nanosheet Frameworks for Efficient and Durable Electrocatalytic Hydrogen Production. <i>Advanced Science</i> , 2019, 6, 1801490.	11.2	68
150	Ultralarge elastic deformation of nanoscale diamond. <i>Science</i> , 2018, 360, 300-302.	12.6	208
151	Surface-modified steel sheets and corrugated panels in three-point bending. <i>International Journal of Mechanical Sciences</i> , 2018, 142-143, 10-20.	6.7	9
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