Kun Zhou

List of Publications by Year
in descending order

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460 papers	21,987 citations	11651 70 h-index	16650 123 g-index
463 all docs	463 docs citations	463 times ranked	20634 citing authors

#	Article	IF	Citations
1	Two-dimensional metallic tantalum ditelluride with an intrinsic basal-plane activity for oxygen reduction: A microkinetic modeling study. Green Energy and Environment, 2022, 7, 525-532.	8.7	5
2	Prediction of stratum deformation during the excavation of a foundation pit in composite formation based on the artificial bee colonyâ€“back-propagation model. Engineering Optimization, 2022, 54, 1217-1235.	2.6	9
3	2D Pentagonal Pdâ€Based Janus Transition Metal Dichalcogenides for Photocatalytic Water Splitting. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100344.	2.4	17
4	Partial Auxeticity of Laterally Compressed Carbon Nanotube Bundles. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100189.	2.4	9
5	Interface formation and deformation behaviors of an additively manufactured nickel-aluminum-bronze/15-5ÂPH multimaterial via laser-powder directed energy deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142101.	5.6	49
6	Engineering nano-structures with controllable dimensional features on micro-topographical titanium surfaces to modulate the activation degree of M1 macrophages and their osteogenic potential. Journal of Materials Science and Technology, 2022, 96, 167-178.	10.7	12
7	3Dâ€Printed Anisotropic Polymer Materials for Functional Applications. Advanced Materials, 2022, 34, e2102877.	21.0	92
8	Selective laser sintering of carbon nanotubeâ€“coated thermoplastic polyurethane: Mechanical, electrical, and piezoresistive properties. Composites Part C: Open Access, 2022, 7, 100212.	3.2	14
9	Machine Learningâ€Evolutionary Algorithm Enabled Design for 4Dâ€Printed Active Composite Structures. Advanced Functional Materials, 2022, 32, 2109805.	14.9	47
10	Static, free vibration, and buckling analyses of laminated composite plates via an isogeometric meshfree collocation approach. Composite Structures, 2022, 285, 115011.	5.8	23
11	Hydrogen-passivation modulation on the friction behavior of graphene with vacancy defects under strain engineering. Applied Surface Science, 2022, 579, 152055.	6.1	9
12	Strong Edge Stress in Molecularly Thin Organicâ€“Inorganic Hybrid Ruddlesdenâ€“Popper Perovskites and Modulations of Their Edge Electronic Properties. ACS Nano, 2022, 16, 261-270.	14.6	7
13	Highly stable electronic properties of rippled antimonene under compressive deformation. Physical Review B, 2022, 105, .	3.2	5
14	Improvement in the mechanical performance of Multi Jet Fusionâ€“printed aramid fiber/polyamide 12 composites by fiber surface modification. Additive Manufacturing, 2022, 51, 102576.	3.0	11
15	Application of molecular dynamics simulation in thermal problems. , 2022, , 183-235.		0
16	Application of molecular dynamics simulation in mass transport problems. , 2022, , 237-314.		0
17	Application of molecular dynamics simulation in mechanical problems. , 2022, , 129-181.		2
18	Molecular dynamics study on the strengthening mechanisms of Crâ€“Feâ€“Coâ€“Ni high-entropy alloys based on the generalized stacking fault energy. Journal of Alloys and Compounds, 2022, 905, 164137.	5.5	37

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19	A review on qualification and certification for metal additive manufacturing. Virtual and Physical Prototyping, 2022, 17, 382-405.	10.4	62
20	High-strength light-weight aramid fibre/polyamide 12 composites printed by Multi Jet Fusion. Virtual and Physical Prototyping, 2022, 17, 295-307.	10.4	11
21	Effects of build positions on the thermal history, crystallization, and mechanical properties of polyamide 12 parts printed by Multi Jet Fusion. Virtual and Physical Prototyping, 2022, 17, 631-648.	10.4	14
22	Oxygenâ€Rich Cobaltâ€“Nitrogenâ€“Carbon Porous Nanosheets for Bifunctional Oxygen Electrocatalysis. Advanced Functional Materials, 2022, 32, .	14.9	55
23	Modelling of Lowâ€dimensional Functional Nanomaterials. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	2
24	Multi phase-field modeling of anisotropic crack propagation in 3D fiber-reinforced composites based on an adaptive isogeometric meshfree collocation method. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114794.	6.6	31
25	Recent Advances on Highâ€Performance Polyaryletherketone Materials for Additive Manufacturing. Advanced Materials, 2022, 34, e2200750.	21.0	21
26	Effect of the fibre length on the mechanical anisotropy of glass fibreâ€“reinforced polymer composites printed by Multi Jet Fusion. Virtual and Physical Prototyping, 2022, 17, 734-748.	10.4	15
27	Contact mechanics in tribological and contact damage-related problems: A review. Tribology International, 2022, 171, 107534.	5.9	41
28	Chemical Synthesis of Antibodyâ€“Hapten Conjugates Capable of Recruiting the Endogenous Antibody to Magnify the Fc Effector Immunity of Antibody for Cancer Immunotherapy. Journal of Medicinal Chemistry, 2022, 65, 323-332.	6.4	8
29	Unexpected Intrinsic Catalytic Function of Porous Boron Nitride Nanorods for Highly Efficient Peroxymonosulfate Activation in Water Treatment. ACS Applied Materials & Interfaces, 2022, 14, 18409-18419.	8.0	14
30	Three-dimensional phase-field modeling of temperature-dependent thermal shock-induced fracture in ceramic materials. Engineering Fracture Mechanics, 2022, 268, 108444.	4.3	15
31	Rapid access to 9-arylfluorene and spirobifluorene through Pd-catalysed Câ€“H arylation/deaminative annulation. Chemical Communications, 2022, 58, 6280-6283.	4.1	5
32	Sequential activation of M1Âand M2 phenotypes in macrophages by Mg degradation from Ti-Mg alloy for enhanced osteogenesis. Biomaterials Research, 2022, 26, 17.	6.9	19
33	Phase-field modeling of interfacial debonding in multi-phase materials via an adaptive isogeometric-meshfree approach. Engineering Fracture Mechanics, 2022, 269, 108481.	4.3	13
34	Highâ€Throughput Methodâ€“Accelerated Design of Niâ€Based Superalloys. Advanced Functional Materials, 2022, 32, .	14.9	17
35	Modeling of Surface Nuclear Magnetic Resonance Based on Prepolarization and Its Application in Urban Shallow Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	72
36	A Molecular Dynamics Study into Zeolitic Imidazolate Frameworks-Based Capacitive Deionization Electrodes for Mg²⁺ Removal and Seawater Desalination. , 2022, , .		0

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37	Simultaneous Fractionation, Desalination, and Dye Removal of Dye/Salt Mixtures by Carbon Cloth-Modified Flow-electrode Capacitive Deionization. Environmental Science & Technology, 2022, 56, 8885-8896.	10.0	15
38	Effect of the stiffness of interparticle bonds on properties of delocalized nonlinear vibrational modes in an fcc lattice. Physical Review E, 2022, 105, .	2.1	6
39	Highâ€Precision and Highâ€Flux Separation by Rationally Designing the Nanochannels and Surface Nanostructure of Polyamide Nanofiltration Membranes. Small Science, 2022, 2, .	9.9	6
40	Refined microstructure and ultrahigh mechanical strength of (TiNÂ+ÂTiB)/Ti composites in situ synthesized via laser powder bed fusion. Additive Manufacturing Letters, 2022, 3, 100082.	2.1	6
41	Recent Advances in Stimuliâ€Responsive Shapeâ€Morphing Hydrogels. Advanced Functional Materials, 2022, 32, .	14.9	49
42	2D CuBDC and IRMOF-1 as reverse osmosis membranes for seawater desalination: A molecular dynamics study. Applied Surface Science, 2022, 601, 154088.	6.1	5
43	Enhanced photocatalytic degradation of organic contaminants over CaFe2O4 under visible LED light irradiation mediated by peroxymonosulfate. Journal of Materials Science and Technology, 2021, 62, 34-43.	10.7	78
44	Stimulation of in vitro and in vivo osteogenesis by Ti-Mg alloys with the sustained-release function of magnesium ions. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111360.	5.0	37
45	Using MgO nanoparticles as a potential platform to precisely load and steadily release Ag ions for enhanced osteogenesis and bacterial killing. Materials Science and Engineering C, 2021, 119, 111399.	7.3	13
46	Comparative study on 3D printing of polyamide 12 by selective laser sintering and multi jet fusion. Journal of Materials Processing Technology, 2021, 288, 116882.	6.3	155
47	Submerged and non-submerged 3D bioprinting approaches for the fabrication of complex structures with the hydrogel pair GelMA and alginate/methylcellulose. Additive Manufacturing, 2021, 37, 101640.	3.0	21
48	Comparative study on the selective laser sintering of polypropylene homopolymer and copolymer: processability, crystallization kinetics, crystal phases and mechanical properties. Additive Manufacturing, 2021, 37, 101610.	3.0	14
49	Recent advances in lithium-based batteries using metal organic frameworks as electrode materials. Electrochemistry Communications, 2021, 122, 106881.	4.7	75
50	Vacancies and dopants in two-dimensional tin monoxide: An ab initio study. Applied Surface Science, 2021, 538, 147988.	6.1	11
51	A debris layer evolution-based model for predicting both fretting wear and fretting fatigue lifetime. International Journal of Fatigue, 2021, 142, 105928.	5.7	17
52	Regioselective C(sp³)â€“H fluorination of ketones: from methyl to the monofluoromethyl group. Chemical Communications, 2021, 57, 765-768.	4.1	9
53	Combustion synthesis of mesoporous CoAl2O4 for peroxymonosulfate activation to degrade organic pollutants. Chinese Chemical Letters, 2021, 32, 2828-2832.	9.0	24
54	Laserâ€Assisted Printing of Electrodes Using Metalâ€“Organic Frameworks for Microâ€Supercapacitors. Advanced Functional Materials, 2021, 31, 2009057.	14.9	75

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55	An Improved Air-Core Coil Sensor With a Fast Switch and Differential Structure for Prepolarization Surface Nuclear Magnetic Resonance. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	1
56	Rationally constructing a hierarchical two-dimensional NiCo metalâ€“organic framework/graphene hybrid for highly efficient Li⁺ ion storage. Materials Chemistry Frontiers, 2021, 5, 4589-4595.	5.9	16
57	A novel crack-free Ti-modified Al-Cu-Mg alloy designed for selective laser melting. Additive Manufacturing, 2021, 38, 101829.	3.0	44
58	Pentadiamond: A Highly Efficient Electron Transport Layer for Perovskite Solar Cells. Journal of Physical Chemistry C, 2021, 125, 5372-5379.	3.1	18
59	Nanotwins-containing microstructure and superior mechanical strength of a Cuâ€'9Alâ€'5Feâ€'5Ni alloy additively manufactured by laser metal deposition. Additive Manufacturing, 2021, 39, 101825.	3.0	25
60	Partial slip contact of materials with vertically aligned cracks near surface. Engineering Fracture Mechanics, 2021, 245, 107557.	4.3	9
61	Progress in fabrication and characterization of mullite whiskers. Journal of Micromechanics and Molecular Physics, 2021, 06, 2150003.	1.2	2
62	Recent Progress on Wearâ€Resistant Materials: Designs, Properties, and Applications. Advanced Science, 2021, 8, e2003739.	11.2	199
63	Solvent-less Dehydrogenative Câ€“H Etherification with Alcohols Using Mechanochemistry. ACS Sustainable Chemistry and Engineering, 2021, 9, 4433-4439.	6.7	10
64	Effects of sub-atmospheric pressure on keyhole dynamics and porosity in products fabricated by selective laser melting. Journal of Manufacturing Processes, 2021, 64, 816-827.	5.9	31
65	Zeolitic imidazolate frameworks as capacitive deionization electrodes for water desalination and Cr(VI) adsorption: A molecular simulation study. Applied Surface Science, 2021, 546, 149080.	6.1	27
66	Exendin 4-Hapten Conjugate Capable of Binding with Endogenous Antibodies for Peptide Half-life Extension and Exerting Long-Acting Hypoglycemic Activity. Journal of Medicinal Chemistry, 2021, 64, 4947-4959.	6.4	8
67	Capillaryâ€Forceâ€Driven Selfâ€Assembly of 4Dâ€Printed Microstructures. Advanced Materials, 2021, 33, e2100332.	21.0	32
68	Discrete breathers in a triangular <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -Fermi-Pasta-Ulam-Tsingou lattice. Physical Review E, 2021, 103, 052202.	2.1	24
69	A numerical study on the packing quality of fibre/polymer composite powder for powder bed fusion additive manufacturing. Virtual and Physical Prototyping, 2021, 16, S1-S18.	10.4	35
70	Facile Synthesis of AgFeO₂â€Decorated CaCO₃ with Enhanced Catalytic Activity in Activation of Peroxymonosulfate for Efficient Degradation of Organic Pollutants. Advanced Energy and Sustainability Research, 2021, 2, 2100038.	5.8	16
71	Fretting contact of layered materials with vertical cracks near surfaces. International Journal of Mechanical Sciences, 2021, 198, 106361.	6.7	17
72	Laserâ€Induced Annealing of Metalâ€“Organic Frameworks on Conductive Substrates for Electrochemical Water Splitting. Advanced Functional Materials, 2021, 31, 2102648.	14.9	47

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73	A real-time TEM study of the deformation mechanisms in Î²-Ti reinforced bulk metallic glass composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 818, 141427.	5.6	12
74	A Comprehensive Investigation on 3D Printing of Polyamide 11 and Thermoplastic Polyurethane via Multi Jet Fusion. Polymers, 2021, 13, 2139.	4.5	22
75	Influence of Substitutional Defects in ZIF-8 Membranes on Reverse Osmosis Desalination: A Molecular Dynamics Study. Molecules, 2021, 26, 3392.	3.8	8
76	High carrier mobility and remarkable photovoltaic performance of two-dimensional Ruddlesdenâ€“Popper organicâ€“inorganic metal halides (PA)2(MA)2M3I10 for perovskite solar cell applications. Materials Today, 2021, 47, 45-52.	14.2	12
77	Dinitrophenolâ€Hyaluronan Conjugates as Multivalent Antibodyâ€Recruiting Glycopolymers for Targeted Cancer Immunotherapy. ChemMedChem, 2021, 16, 2960-2968.	3.2	7
78	Modeling the temperature, crystallization, and residual stress for selective laser sintering of polymeric powder. Acta Mechanica, 2021, 232, 3635-3653.	2.1	21
79	Buckling analysis of cracked orthotropic 3D plates and shells via an isogeometric-reproducing kernel particle method. Theoretical and Applied Fracture Mechanics, 2021, 114, 102993.	4.7	20
80	Experimental and modeling investigation on the viscoelastic-viscoplastic deformation of polyamide 12 printed by Multi Jet Fusion. International Journal of Plasticity, 2021, 143, 103029.	8.8	14
81	Oxygen vacancy induced peroxymonosulfate activation by Mg-doped Fe2O3 composites for advanced oxidation of organic pollutants. Chemosphere, 2021, 279, 130482.	8.2	60
82	Synergetic effects of Bi5+ and oxygen vacancies in Bismuth(V)-rich Bi4O7 nanosheets for enhanced near-infrared light driven photocatalysis. Journal of Materials Science and Technology, 2021, 85, 1-10.	10.7	41
83	The tripartite role of 2D covalent organic frameworks in graphene-based organic solvent nanofiltration membranes. Matter, 2021, 4, 2953-2969.	10.0	24
84	Phase-field modeling of hydro-thermally induced fracture in thermo-poroelastic media. Engineering Fracture Mechanics, 2021, 254, 107887.	4.3	23
85	Enhancing the mechanical strength of Multi Jet Fusionâ€“printed polyamide 12 and its glass fiber-reinforced composite via high-temperature annealing. Additive Manufacturing, 2021, 46, 102205.	3.0	16
86	Design for the reduction of volume shrinkage-induced distortion in digital light processing 3D printing. Extreme Mechanics Letters, 2021, 48, 101403.	4.1	25
87	Laser powder bed fusion of Mo2C/Ti-6Al-4V composites with alternately laminated Î±â€²/Î² phases for enhanced mechanical properties. Additive Manufacturing, 2021, 46, 102134.	3.0	13
88	3D printing of a titanium-tantalum Gyroid scaffold with superb elastic admissible strain, bioactivity and in-situ bone regeneration capability. Additive Manufacturing, 2021, 47, 102223.	3.0	30
89	Two Birds with One Stone: Surface Functionalization and Delamination of Multilayered Ti₃C₂T_x MXene by Grafting a Ruthenium(II) Complex to Achieve Conductivity-Enhanced Electrochemiluminescence. Analytical Chemistry, 2021, 93, 1834-1841.	6.5	39
90	Pd-Catalysed direct C(sp²)â€“H fluorination of aromatic ketones: concise access to anacetrapib. Chemical Communications, 2021, 57, 4544-4547.	4.1	14

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91	Development of an Ultrastretchable Double-Network Hydrogel for Flexible Strain Sensors. ACS Applied Materials & Interfaces, 2021, 13, 12814-12823.	8.0	97
92	Selective Laser Sintering-Based 4D Printing of Magnetism-Responsive Grippers. ACS Applied Materials & Interfaces, 2021, 13, 12679-12688.	8.0	49
93	Origin of the N-coordinated single-atom Ni sites in heterogeneous electrocatalysts for CO₂ reduction reaction. Chemical Science, 2021, 12, 14065-14073.	7.4	35
94	3D Printing and Chemical Dealloying of a Hierarchically Micro- and Nanoporous Catalyst for Wastewater Purification. ACS Applied Materials & Interfaces, 2021, 13, 48709-48719.	8.0	40
95	Non-isothermal crystallization behaviour of polyamide 12 analogous to multi-jet fusion additive manufacturing process. Polymer, 2021, 235, 124256.	3.8	8
96	A Finite Element Model for Non-Newtonian Starved Thermal-Elastohydrodynamic Lubrication of 3D Line Contact. International Journal of Applied Mechanics, 2021, 13, .	2.2	7
97	Scalable and Sustainable Synthesis of Carbon Dots from Biomass as Efficient Friction Modifiers for Polyethylene Glycol Synthetic Oil. ACS Sustainable Chemistry and Engineering, 2021, 9, 14997-15007.	6.7	27
98	Hierarchical MXene/transition metal chalcogenide heterostructures for electrochemical energy storage and conversion. Nanoscale, 2021, 13, 19740-19770.	5.6	41
99	A new method for the dynamic deformation characterization of thin-film stacked structures. MRS Communications, 2021, 11, 917-923.	1.8	0
100	Modelling of Non-Newtonian Starved Thermal-elastohydrodynamic Lubrication of Heterogeneous Materials in Impact Motion. Acta Mechanica Solida Sinica, 2021, 34, 954-976.	1.9	8
101	Adaptive analysis of crack propagation in thin-shell structures via an isogeometric-meshfree moving least-squares approach. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112613.	6.6	33
102	Materials development and potential applications of transparent ceramics: A review. Materials Science and Engineering Reports, 2020, 139, 100518.	31.8	221
103	Scalable synthesis of Ca-doped Î±-Fe2O3 with abundant oxygen vacancies for enhanced degradation of organic pollutants through peroxymonosulfate activation. Applied Catalysis B: Environmental, 2020, 262, 118250.	20.2	343
104	Atomistic simulation study of GO/HKUST-1 MOF membranes for seawater desalination via pervaporation. Applied Surface Science, 2020, 503, 144198.	6.1	48
105	Metal-organic framework-derived nanocomposites for electrocatalytic hydrogen evolution reaction. Progress in Materials Science, 2020, 108, 100618.	32.8	220
106	Molecular dynamics simulations on nanocrystalline super-elastic NiTi shape memory alloy by addressing transformation ratchetting and its atomic mechanism. International Journal of Plasticity, 2020, 125, 374-394.	8.8	53
107	Anti-inflammatory effects of Rhodiola rosea L.: A review. Biomedicine and Pharmacotherapy, 2020, 121, 109552.	5.6	99
108	Water dissociation and hydrogen evolution on the surface of Fe-based bulk metallic glasses. Physical Chemistry Chemical Physics, 2020, 22, 700-708.	2.8	8

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109	An adaptive isogeometric-meshfree coupling approach for the limit analysis of cracked structures. Theoretical and Applied Fracture Mechanics, 2020, 106, 102426.	4.7	10
110	An isogeometric-meshfree collocation approach for two-dimensional elastic fracture problems with contact loading. Engineering Fracture Mechanics, 2020, 223, 106779.	4.3	21
111	Ionised graphene oxide membranes for seawater desalination. Desalination, 2020, 496, 114637.	8.2	26
112	Embedding Ultrafine Metal Oxide Nanoparticles in Monolayered Metalâ€“Organic Framework Nanosheets Enables Efficient Electrocatalytic Oxygen Evolution. ACS Nano, 2020, 14, 1971-1981.	14.6	109
113	Microstructure and mechanical properties of (TiB+TiC)/Ti composites fabricated in situ via selective laser melting of Ti and B4C powders. Additive Manufacturing, 2020, 36, 101466.	3.0	46
114	Incorporation of Coreâ€“Shell-Structured Zwitterionic Carbon Dots in Thin-Film Nanocomposite Membranes for Simultaneously Improved Perm-Selectivity and Antifouling Properties. ACS Applied Materials & Interfaces, 2020, 12, 53215-53229.	8.0	34
115	3D printed hybrid-dimensional electrodes for flexible micro-supercapacitors with superior electrochemical behaviours. Virtual and Physical Prototyping, 2020, 15, 511-519.	10.4	43
116	Recent Progress on Polymer Materials for Additive Manufacturing. Advanced Functional Materials, 2020, 30, 2003062.	14.9	364
117	Phaseâ€field modeling of brittle fracture in a <scp>3D</scp> polycrystalline material via an adaptive isogeometricâ€meshfreeapproach. International Journal for Numerical Methods in Engineering, 2020, 121, 5042-5065.	2.8	43
118	Adaptive higher-order phase-field modeling of anisotropic brittle fracture in 3D polycrystalline materials. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113434.	6.6	44
119	Excavation influence of triangular-distribution tunnels for wind pavilion group of a metro station. Journal of Central South University, 2020, 27, 3852-3874.	3.0	4
120	Synthesis and Properties of MXenes. Engineering Materials, 2020, , 5-93.	0.6	1
121	Other Applications. Engineering Materials, 2020, , 303-404.	0.6	1
122	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. Science Advances, 2020, 6, .	10.3	156
123	The photocatalytic mechanism of organic dithienophosphole derivatives as highly efficient photo-redox catalysts. Physical Chemistry Chemical Physics, 2020, 22, 20721-20731.	2.8	5
124	Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates. ACS Nano, 2020, 14, 17640-17651.	14.6	56
125	MXenes and MXenes-based Composites. Engineering Materials, 2020, , .	0.6	8
126	Development of organically modified montmorillonite/polypropylene composite powders for selective laser sintering. Powder Technology, 2020, 369, 25-37.	4.2	27

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127	Recent Advances on Highâ€Entropy Alloys for 3D Printing. Advanced Materials, 2020, 32, e1903855.	21.0	269
128	Enhanced Oxygen Evolution Reaction Activity of a Co₂P@NCâ€“Fe₂P Composite Boosted by Interfaces Between a N-Doped Carbon Matrix and Fe₂P Microspheres. ACS Applied Materials & Interfaces, 2020, 12, 25884-25894.	8.0	61
129	Fine-grain-embedded dislocation-cell structures for high strength and ductility in additively manufactured steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139736.	5.6	27
130	Emissive Nature and Molecular Behavior of Zero-Dimensional Organicâ€“Inorganic Metal Halides Bmpip₂MX₄. Journal of Physical Chemistry Letters, 2020, 11, 5234-5240.	4.6	33
131	A closed-form solution for the 3D steady-state thermoporoelastic field in an infinite transversely isotropic rock weakened by an elliptical crack. International Journal of Rock Mechanics and Minings Sciences, 2020, 129, 104292.	5.8	10
132	Characterization of two carbon allotropes, cyclicgraphene and graphenylene, as semi-permeable materials for membranes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 259, 114569.	3.5	29
133	3D printing of cellular materials for advanced electrochemical energy storage and conversion. Nanoscale, 2020, 12, 7416-7432.	5.6	56
134	Acoustic absorptions of multifunctional polymeric cellular structures based on triply periodic minimal surfaces fabricated by stereolithography. Virtual and Physical Prototyping, 2020, 15, 242-249.	10.4	85
135	Simultaneous reduction of Cr(VI) and degradation of tetracycline hydrochloride by a novel iron-modified rectorite composite through heterogeneous photo-Fenton processes. Chemical Engineering Journal, 2020, 393, 124758.	12.7	150
136	Evaporation Kinetics of Nano Water Droplets using Coarse-Grained Molecular Dynamic Simulations. International Journal of Heat and Mass Transfer, 2020, 156, 119884.	4.8	8
137	3D Printing of Polymeric Multi-Layer Micro-Perforated Panels for Tunable Wideband Sound Absorption. Polymers, 2020, 12, 360.	4.5	32
138	Analysis of Chemical Activity of Bismuthene in the Presence of Environment Gas Molecules by Means of Ab Initio Calculations. Minerals, Metals and Materials Series, 2020, , 983-991.	0.4	0
139	Water Desalination by Flow-Electrode Capacitive Deionization in Overlimiting Current Regimes. Environmental Science & Technology, 2020, 54, 5853-5863.	10.0	40
140	Mechanical Response of Carbon Nanotube Bundle to Lateral Compression. Computation, 2020, 8, 27.	2.0	18
141	Realizing small-flake graphene oxide membranes for ultrafast size-dependent organic solvent nanofiltration. Science Advances, 2020, 6, eaaz9184.	10.3	177
142	Two-Dimensional Black Phosphorus Carbide: Rippling and Formation of Nanotubes. Journal of Physical Chemistry C, 2020, 124, 10235-10243.	3.1	32
143	MgO Nanoparticles Protect against Titanium Particle-Induced Osteolysis in a Mouse Model Because of Their Positive Immunomodulatory Effect. ACS Biomaterials Science and Engineering, 2020, 6, 3005-3014.	5.2	13
144	Efficient Nitrate Synthesis via Ambient Nitrogen Oxidation with Ruâ€Doped TiO₂/RuO₂ Electrocatalysts. Advanced Materials, 2020, 32, e2002189.	21.0	125

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145	In situ oxidation transformation of trimetallic selenide to amorphous FeCo-oxyhydroxide by self-sacrificing MoSe₂ for efficient water oxidation. Journal of Materials Chemistry A, 2020, 8, 7925-7934.	10.3	40
146	Unraveling atomic-scale crystallization and microstructural evolution of a selective laser melted FeCrNi medium-entropy alloy. CrystEngComm, 2020, 22, 4136-4146.	2.6	19
147	Energy Related Applications. Engineering Materials, 2020, , 207-302.	0.6	0
148	MXenes Based Composites and Hybrids. Engineering Materials, 2020, , 95-206.	0.6	0
149	An elasto-plastic-damage model for initiation and propagation of spalling in rolling bearings. International Journal of Mechanical Sciences, 2019, 161-162, 105058.	6.7	16
150	Improvement on mechanical properties and corrosion resistance of titanium-tantalum alloys in-situ fabricated via selective laser melting. Journal of Alloys and Compounds, 2019, 804, 288-298.	5.5	84
151	Environmental stability of bismuthene: oxidation mechanism and structural stability of 2D pnictogens. Journal of Materials Chemistry C, 2019, 7, 9195-9202.	5.5	40
152	Firstâ€Principles Study of Interaction of Bismuthene with Small Gas Molecules. ChemistrySelect, 2019, 4, 10928-10933.	1.5	12
153	Site-specific C-terminal dinitrophenylation to reconstitute the antibody Fc functions for nanobodies. Chemical Science, 2019, 10, 9331-9338.	7.4	25
154	Self-Adjusting Activity Induced by Intrinsic Reaction Intermediate in Feâ€“Nâ€“C Single-Atom Catalysts. Journal of the American Chemical Society, 2019, 141, 14115-14119.	13.7	261
155	Mechanical Properties of Two-Dimensional sp2-Carbon Nanomaterials. Journal of Experimental and Theoretical Physics, 2019, 129, 66-71.	0.9	14
156	Effects of tensile strain rate and grain size on the mechanical properties of nanocrystalline T-carbon. Computational Materials Science, 2019, 170, 109188.	3.0	14
157	Plastic deformation of a film-substrate with inhomogeneous inclusions under contact loading. Acta Mechanica, 2019, 230, 4463-4479.	2.1	2
158	3D Printing of Mixed Matrix Films Based on Metalâ€“Organic Frameworks and Thermoplastic Polyamide 12 by Selective Laser Sintering for Water Applications. ACS Applied Materials & Interfaces, 2019, 11, 40564-40574.	8.0	75
159	Boosting capacitive charge storage of 3D-printed micro-pseudocapacitors via rational holey graphene engineering. Carbon, 2019, 155, 562-569.	10.3	36
160	Directly anchoring 2D NiCo metalâ€“organic frameworks on few-layer black phosphorus for advanced lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 783-790.	10.3	115
161	Ultrafast diffusive cross-sheet motion of lithium through antimonene with 2 + 1 dimensional kinetics. Journal of Materials Chemistry A, 2019, 7, 2901-2907.	10.3	19
162	Simultaneously enhanced strength and ductility of FGH4097 nickel-based alloy via a novel hot isostatic pressing strategy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 19-25.	5.6	23

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