

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	Recent progress in layered transition metal carbides and/or nitrides (MXenes) and their composites: synthesis and applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3039-3068.	10.3	625
2	In-situ Formation of Hollow Hybrids Composed of Cobalt Sulfides Embedded within Porous Carbon Polyhedra/Carbon Nanotubes for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2015, 27, 3038-3044.	21.0	620
3	Zeolitic Imidazolate Framework-Derived High Symmetric Porous Co_3O_4 Hollow Dodecahedra with Highly Enhanced Lithium Storage Capability. <i>Small</i> , 2014, 10, 1932-1938.	10.0	442
4	Recent progress in synthesis, properties and potential applications of SiC nanomaterials. <i>Progress in Materials Science</i> , 2015, 72, 1-60.	32.8	415
5	Metal-Organic Framework-Based Catalysts for Photoreduction of CO_2 . <i>Advanced Materials</i> , 2018, 30, e1705512.	21.0	415
6	Porous Spinel ZnCo_3O_4 Hollow Polyhedra Templated for High-Rate Lithium-Ion Batteries. <i>ACS Nano</i> , 2014, 8, 6297-6303.	14.6	392
7	Recent Progress on Polymer Materials for Additive Manufacturing. <i>Advanced Functional Materials</i> , 2020, 30, 2003062.	14.9	364
8	MOF-templated formation of porous CuO hollow octahedra for lithium-ion battery anode materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11126.	10.3	361
9	Scalable synthesis of Ca-doped $\gamma\text{-Fe}_2\text{O}_3$ with abundant oxygen vacancies for enhanced degradation of organic pollutants through peroxymonosulfate activation. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118250.	20.2	343
10	Carbon nanomaterials in tribology. <i>Carbon</i> , 2017, 119, 150-171.	10.3	329
11	Polymeric composites for powder-based additive manufacturing: Materials and applications. <i>Progress in Polymer Science</i> , 2019, 91, 141-168.	24.7	328
12	Emerging 3D-Printed Electrochemical Energy Storage Devices: A Critical Review. <i>Advanced Energy Materials</i> , 2017, 7, 1700127.	19.5	300
13	Recent Advances on High-Entropy Alloys for 3D Printing. <i>Advanced Materials</i> , 2020, 32, e1903855.	21.0	269
14	Self-Adjusting Activity Induced by Intrinsic Reaction Intermediate in Fe-N-C Single-Atom Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 14115-14119.	13.7	261
15	Recent progress on graphene-analogous 2D nanomaterials: Properties, modeling and applications. <i>Progress in Materials Science</i> , 2019, 100, 99-169.	32.8	235
16	Dependence of elastic and optical properties on surface terminated groups in two-dimensional MXene monolayers: a first-principles study. <i>RSC Advances</i> , 2016, 6, 35731-35739.	3.6	224
17	Materials development and potential applications of transparent ceramics: A review. <i>Materials Science and Engineering Reports</i> , 2020, 139, 100518.	31.8	221
18	Metal-organic framework-derived nanocomposites for electrocatalytic hydrogen evolution reaction. <i>Progress in Materials Science</i> , 2020, 108, 100618.	32.8	220

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19	A review of recent works on inclusions. <i>Mechanics of Materials</i> , 2013, 60, 144-158.	3.2	211
20	Isogeometric analysis of large-deformation thin shells using RHT-splines for multiple-patch coupling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 316, 1157-1178.	6.6	210
21	Modeling temperature and residual stress fields in selective laser melting. <i>International Journal of Mechanical Sciences</i> , 2018, 136, 24-35.	6.7	208
22	Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable Zn-Air Batteries. , 2019, 1, 123-131.		199
23	Recent Progress on Wear-Resistant Materials: Designs, Properties, and Applications. <i>Advanced Science</i> , 2021, 8, e2003739.	11.2	199
24	3D-Printed Mechanical Metamaterials with High Energy Absorption. <i>Advanced Materials Technologies</i> , 2019, 4, 1800419.	5.8	188
25	Molten-salt-mediated synthesis of SiC nanowires for microwave absorption applications. <i>CrystEngComm</i> , 2013, 15, 570-576.	2.6	182
26	3D soft auxetic lattice structures fabricated by selective laser sintering: TPU powder evaluation and process optimization. <i>Materials and Design</i> , 2017, 120, 317-327.	7.0	177
27	Realizing small-flake graphene oxide membranes for ultrafast size-dependent organic solvent nanofiltration. <i>Science Advances</i> , 2020, 6, eaaz9184.	10.3	177
28	Nanomaterials in Superlubricity. <i>Advanced Functional Materials</i> , 2019, 29, 1806395.	14.9	170
29	Synthesis and application of iron-based nanomaterials as anodes of lithium-ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9332-9367.	10.3	159
30	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. <i>Science Advances</i> , 2020, 6, .	10.3	156
31	Comparative study on 3D printing of polyamide 12 by selective laser sintering and multi jet fusion. <i>Journal of Materials Processing Technology</i> , 2021, 288, 116882.	6.3	155
32	Structure stability of metal-organic framework MIL-53 (Al) in aqueous solutions. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16710-16715.	7.1	153
33	Simultaneous reduction of Cr(VI) and degradation of tetracycline hydrochloride by a novel iron-modified rectorite composite through heterogeneous photo-Fenton processes. <i>Chemical Engineering Journal</i> , 2020, 393, 124758.	12.7	150
34	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. <i>Chemical Communications</i> , 2015, 51, 3109-3112.	4.1	145
35	In-situ growth of SiC nanowire arrays on carbon fibers and their microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2016, 687, 833-838.	5.5	137
36	Tuning ZnSe/CoSe in MOF-derived N-doped porous carbon/CNTs for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15710-15717.	10.3	137

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37	Recent development in nanocarbon materials for gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 235-267.	7.8	129
38	Electrical and thermal conductivities of MWCNT/polymer composites fabricated by selective laser sintering. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 105, 203-213.	7.6	125
39	Efficient Nitrate Synthesis via Ambient Nitrogen Oxidation with Ru-Doped TiO ₂ /RuO ₂ Electrocatalysts. <i>Advanced Materials</i> , 2020, 32, e2002189.	21.0	125
40	Interfacial Thermal Conductance of a Silicene/Graphene Bilayer Heterostructure and the Effect of Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18180-18188.	8.0	123
41	Porous cobalt phosphide/graphitic carbon polyhedral hybrid composites for efficient oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13742-13745.	10.3	117
42	Interface thermal conductance and rectification in hybrid graphene/silicene monolayer. <i>Carbon</i> , 2014, 79, 236-244.	10.3	116
43	Ultrathin Two-Dimensional Nanostructured Materials for Highly Efficient Water Oxidation. <i>Small</i> , 2017, 13, 1700806.	10.0	116
44	Directly anchoring 2D NiCo metal-organic frameworks on few-layer black phosphorus for advanced lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 783-790.	10.3	115
45	Embedding Ultrafine Metal Oxide Nanoparticles in Monolayered Metal-Organic Framework Nanosheets Enables Efficient Electrocatalytic Oxygen Evolution. <i>ACS Nano</i> , 2020, 14, 1971-1981.	14.6	109
46	A review on the mechanical methods for evaluating coating adhesion. <i>Acta Mechanica</i> , 2014, 225, 431-452.	2.1	107
47	The role of H ₂ O and O ₂ molecules and phosphorus vacancies in the structure instability of phosphorene. <i>2D Materials</i> , 2017, 4, 015010.	4.4	101
48	Synthesis of multimodal porous ZnCo ₂ O ₄ and its electrochemical properties as an anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 294, 112-119.	7.8	99
49	Anti-inflammatory effects of <i>Rhodiola rosea</i> L.: A review. <i>Biomedicine and Pharmacotherapy</i> , 2020, 121, 109552.	5.6	99
50	Development of an Ultrastretchable Double-Network Hydrogel for Flexible Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12814-12823.	8.0	97
51	Advances and challenges of nanostructured electrodes for Li-Se batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10110-10126.	10.3	96
52	Highly dispersed Au nanoparticles immobilized on Zr-based metal-organic frameworks as heterostructured catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14294.	10.3	95
53	Material Evaluation and Process Optimization of CNT-Coated Polymer Powders for Selective Laser Sintering. <i>Polymers</i> , 2016, 8, 370.	4.5	93
54	3D-Printed Anisotropic Polymer Materials for Functional Applications. <i>Advanced Materials</i> , 2022, 34, e2102877.	21.0	92

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55	Semi-analytic solution for multiple interacting three-dimensional inhomogeneous inclusions of arbitrary shape in an infinite space. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 87, 617-638.	2.8	89
56	A thermo-metallurgical-mechanical model for selective laser melting of Ti6Al4V. <i>Materials and Design</i> , 2019, 168, 107642.	7.0	89
57	Molecular dynamics study of pressure-driven water transport through graphene bilayers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1886-1896.	2.8	86
58	Wear and friction between smooth or rough diamond-like carbon films and diamond tips. <i>Wear</i> , 2017, 372-373, 12-20.	3.1	86
59	Acoustic absorptions of multifunctional polymeric cellular structures based on triply periodic minimal surfaces fabricated by stereolithography. <i>Virtual and Physical Prototyping</i> , 2020, 15, 242-249.	10.4	85
60	A fast method for solving three-dimensional arbitrarily shaped inclusions in a half space. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 885-892.	6.6	84
61	Multiple 3D inhomogeneous inclusions in a half space under contact loading. <i>Mechanics of Materials</i> , 2011, 43, 444-457.	3.2	84
62	Improvement on mechanical properties and corrosion resistance of titanium-tantalum alloys in-situ fabricated via selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019, 804, 288-298.	5.5	84
63	Thermal transport in a graphene-MoS ₂ bilayer heterostructure: a molecular dynamics study. <i>RSC Advances</i> , 2015, 5, 29193-29200.	3.6	83
64	Strain engineering of antimonene by a first-principles study: Mechanical and electronic properties. <i>Physical Review B</i> , 2018, 98, .	3.2	82
65	Growth of Tapered SiC Nanowires on Flexible Carbon Fabric: Toward Field Emission Applications. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12940-12945.	3.1	78
66	Enhanced photocatalytic degradation of organic contaminants over CaFe ₂ O ₄ under visible LED light irradiation mediated by peroxymonosulfate. <i>Journal of Materials Science and Technology</i> , 2021, 62, 34-43.	10.7	78
67	Modeling elasto-plastic indentation on layered materials using the equivalent inclusion method. <i>International Journal of Solids and Structures</i> , 2010, 47, 2841-2854.	2.7	77
68	Exploring the charge localization and band gap opening of borophene: a first-principles study. <i>Nanoscale</i> , 2018, 10, 1403-1410.	5.6	77
69	Carbon-metal compound composite electrodes for capacitive deionization: synthesis, development and applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26693-26743.	10.3	77
70	Highly enhanced thermal conductivity of thermoplastic nanocomposites with a low mass fraction of MWCNTs by a facilitated latex approach. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 699-710.	7.6	76
71	3D Printing of Mixed Matrix Films Based on Metal-Organic Frameworks and Thermoplastic Polyamide 12 by Selective Laser Sintering for Water Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40564-40574.	8.0	75
72	Recent advances in lithium-based batteries using metal organic frameworks as electrode materials. <i>Electrochemistry Communications</i> , 2021, 122, 106881.	4.7	75

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73	Laser-Assisted Printing of Electrodes Using Metal-Organic Frameworks for Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2009057.	14.9	75
74	Thermal Influence of CNT on the Polyamide 12 Nanocomposite for Selective Laser Sintering. <i>Molecules</i> , 2015, 20, 19041-19050.	3.8	72
75	Modeling of Surface Nuclear Magnetic Resonance Based on Prepolarization and Its Application in Urban Shallow Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-10.	6.3	72
76	Fatigue damage evolution and lifetime prediction of welded joints with the consideration of residual stresses and porosity. <i>International Journal of Fatigue</i> , 2017, 103, 272-279.	5.7	71
77	A Cobalt-Based Metal-Organic Framework as Cocatalyst on BiVO ₄ Photoanode for Enhanced Photoelectrochemical Water Oxidation. <i>ChemSusChem</i> , 2018, 11, 2710-2716.	6.8	70
78	Progressive failure analysis of 2D woven composites at the meso-micro scale. <i>Composite Structures</i> , 2017, 178, 395-405.	5.8	69
79	Large Electronic Anisotropy and Enhanced Chemical Activity of Highly Rippled Phosphorene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6876-6884.	3.1	68
80	A first-principles study on the adsorption of small molecules on antimonene: oxidation tendency and stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4308-4317.	5.5	68
81	Discrete breather clusters in strained graphene. <i>Europhysics Letters</i> , 2012, 100, 36005.	2.0	67
82	Modeling cracks and inclusions near surfaces under contact loading. <i>International Journal of Mechanical Sciences</i> , 2014, 83, 163-171.	6.7	67
83	A new carbon phase with direct bandgap and high carrier mobility as electron transport material for perovskite solar cells. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	67
84	Heat transfer and phase transition in the selective laser melting process. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 2408-2416.	4.8	66
85	Effect of oxide growth on the stress development in double-ceramic-layer thermal barrier coatings. <i>Ceramics International</i> , 2017, 43, 14763-14774.	4.8	64
86	Unidirectional ripples in strained graphene nanoribbons with clamped edges at zero and finite temperatures. <i>Physical Review B</i> , 2012, 86, .	3.2	63
87	Strained single-layer C ₂ N membrane for efficient seawater desalination via forward osmosis: A molecular dynamics study. <i>Journal of Membrane Science</i> , 2018, 550, 554-562.	8.2	63
88	A review on qualification and certification for metal additive manufacturing. <i>Virtual and Physical Prototyping</i> , 2022, 17, 382-405.	10.4	62
89	Enhanced Oxygen Evolution Reaction Activity of a Co ₂ P@NC-Fe ₂ P Composite Boosted by Interfaces Between a N-Doped Carbon Matrix and Fe ₂ P Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25884-25894.	8.0	61
90	Interaction of multiple inhomogeneous inclusions beneath a surface. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 217-220, 25-33.	6.6	60

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91	Energy Absorption of Thermoplastic Polyurethane Lattice Structures via 3D Printing: Modeling and Prediction. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1640006.	2.2	60
92	Oxygen vacancy induced peroxy monosulfate activation by Mg-doped Fe ₂ O ₃ composites for advanced oxidation of organic pollutants. <i>Chemosphere</i> , 2021, 279, 130482.	8.2	60
93	Continuum and atomistic studies of a disclinated crack in a bicrystalline nanowire. <i>Physical Review B</i> , 2006, 73, .	3.2	59
94	Competing Relaxation Mechanisms in a Disclinated Nanowire: Temperature and Size Effects. <i>Physical Review Letters</i> , 2007, 98, 035501.	7.8	58
95	Morphology and in-plane thermal conductivity of hybrid graphene sheets. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	56
96	Discrete breathers in hydrogenated graphene. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 305302.	2.8	56
97	Effect of silicon addition on the microstructure, mechanical and thermal properties of Cf/SiC composite prepared via selective laser sintering. <i>Journal of Alloys and Compounds</i> , 2019, 792, 1045-1053.	5.5	56
98	Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates. <i>ACS Nano</i> , 2020, 14, 17640-17651.	14.6	56
99	3D printing of cellular materials for advanced electrochemical energy storage and conversion. <i>Nanoscale</i> , 2020, 12, 7416-7432.	5.6	56
100	Extended isogeometric analysis based on PHT-splines for crack propagation near inclusions. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 112, 1777-1800.	2.8	55
101	Oxygen-Rich Cobalt-Nitrogen-Carbon Porous Nanosheets for Bifunctional Oxygen Electrocatalysis. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	55
102	Relaxation of a disclinated tricrystalline nanowire. <i>Acta Materialia</i> , 2008, 56, 5828-5836.	7.9	54
103	Thermal conductivity of silicene nanosheets and the effect of isotopic doping. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 165301.	2.8	54
104	Transverse discrete breathers in unstrained graphene. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	54
105	Gap discrete breathers in strained boron nitride. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3553-3557.	2.1	54
106	Experimental and numerical investigation on mechanical behaviors of woven fabric composites under off-axial loading. <i>International Journal of Mechanical Sciences</i> , 2018, 141, 157-167.	6.7	54
107	Photo-induced selective gas detection based on reduced graphene oxide/Si Schottky diode. <i>Carbon</i> , 2015, 84, 138-145.	10.3	53
108	A general approach towards multi-faceted hollow oxide composites using zeolitic imidazolate frameworks. <i>Nanoscale</i> , 2015, 7, 965-974.	5.6	53

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109	Thermionic Energy Conversion Based on Graphene van der Waals Heterostructures. Scientific Reports, 2017, 7, 46211.	3.3	53
110	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
111	Phase-Controlled Synthesis of Monolayer Ternary Telluride with a Random Local Displacement of Tellurium Atoms. Advanced Materials, 2019, 31, e1900862.	21.0	51
112	Crack nucleation at disclinated triple junctions. Physical Review B, 2007, 76, .	3.2	50
113	Thermal Conductivity and Tensile Response of Phosphorene Nanosheets with Vacancy Defects. Journal of Physical Chemistry C, 2017, 121, 13876-13887.	3.1	50
114	Geometrically nonlinear analysis of thin-shell structures based on an isogeometric-meshfree coupling approach. Computer Methods in Applied Mechanics and Engineering, 2018, 336, 111-134.	6.6	50
115	Static, dynamic and buckling analyses of 3D FGM plates and shells via an isogeometric-meshfree coupling approach. Composite Structures, 2018, 198, 35-50.	5.8	50
116	Mechanical properties of bulk carbon nanostructures: effect of loading and temperature. Physical Chemistry Chemical Physics, 2014, 16, 19505.	2.8	49
117	Enhanced mechanical properties of Ti-6Al-2Zr-1Mo-1V with ultrafine crystallites and nano-scale twins fabricated by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 10-14.	5.6	49
118	Surface discrete breathers in Pt3Al intermetallic alloy. Surface Science, 2019, 679, 1-5.	1.9	49
119	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
120	Selective Laser Sintering-Based 4D Printing of Magnetism-Responsive Grippers. ACS Applied Materials & Interfaces, 2021, 13, 12679-12688.	8.0	49
121	Recent Advances in Stimuli-Responsive Shape-Morphing Hydrogels. Advanced Functional Materials, 2022, 32, .	14.9	49
122	Elastic field and effective moduli of periodic composites with arbitrary inhomogeneity distribution. Acta Mechanica, 2012, 223, 293-308.	2.1	48
123	Discrete breathers in alpha-uranium. European Physical Journal B, 2016, 89, 1.	1.5	48
124	Effect of grain boundary segregation on the deformation mechanisms and mechanical properties of nanocrystalline binary aluminum alloys. Computational Materials Science, 2016, 117, 445-454.	3.0	48
125	Thermo-elastic-viscoplastic-damage model for self-heating and mechanical behavior of thermoplastic polymers. International Journal of Plasticity, 2019, 121, 227-243.	8.8	48
126	Atomistic simulation study of GO/HKUST-1 MOF membranes for seawater desalination via pervaporation. Applied Surface Science, 2020, 503, 144198.	6.1	48

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127	Laser-Induced Annealing of Metal-Organic Frameworks on Conductive Substrates for Electrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2102648.	14.9	47
128	Machine Learning-Evolutionary Algorithm Enabled Design for 4D-Printed Active Composite Structures. <i>Advanced Functional Materials</i> , 2022, 32, 2109805.	14.9	47
129	Development of process efficiency maps for selective laser sintering of polymeric composite powders: Modeling and experimental testing. <i>Journal of Materials Processing Technology</i> , 2018, 254, 52-59.	6.3	46
130	Density Functional Theory Study of $Mn_{n+1}AX_n$ Phases: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 56-107.	12.3	46
131	Microstructure and mechanical properties of (TiB+TiC)/Ti composites fabricated in situ via selective laser melting of Ti and B4C powders. <i>Additive Manufacturing</i> , 2020, 36, 101466.	3.0	46
132	Strain-induced ripples in graphene nanoribbons with clamped edges. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1393-1398.	1.5	45
133	Mechanical properties of crumpled graphene under hydrostatic and uniaxial compression. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 095302.	2.8	45
134	Well-aligned SiC nanoneedle arrays for excellent field emitters. <i>Materials Letters</i> , 2013, 91, 220-223.	2.6	44
135	Adaptive higher-order phase-field modeling of anisotropic brittle fracture in 3D polycrystalline materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113434.	6.6	44
136	A novel crack-free Ti-modified Al-Cu-Mg alloy designed for selective laser melting. <i>Additive Manufacturing</i> , 2021, 38, 101829.	3.0	44
137	Functional map of biological and biomimetic materials with hierarchical surface structures. <i>RSC Advances</i> , 2015, 5, 66901-66926.	3.6	43
138	Atomic-scale mechanisms of defect- and light-induced oxidation and degradation of InSe. <i>Journal of Materials Chemistry C</i> , 2018, 6, 518-525.	5.5	43
139	3D printed hybrid-dimensional electrodes for flexible micro-supercapacitors with superior electrochemical behaviours. <i>Virtual and Physical Prototyping</i> , 2020, 15, 511-519.	10.4	43
140	Phase-field modeling of brittle fracture in a 3D polycrystalline material via an adaptive isogeometric-meshfree approach. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 5042-5065.	2.8	43
141	Core-shell SiC/SiO ₂ heterostructures in nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 553-558.	1.8	42
142	Toughening of polyamide 11 with carbon nanotubes for additive manufacturing. <i>Virtual and Physical Prototyping</i> , 2017, 12, 235-240.	10.4	41
143	A non-isothermal phase field study of the shape memory effect and pseudoelasticity of polycrystalline shape memory alloys. <i>Computational Materials Science</i> , 2019, 167, 65-76.	3.0	41
144	Synergetic effects of Bi ⁵⁺ and oxygen vacancies in Bismuth(V)-rich Bi ₄ O ₇ nanosheets for enhanced near-infrared light driven photocatalysis. <i>Journal of Materials Science and Technology</i> , 2021, 85, 1-10.	10.7	41

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145	Hierarchical MXene/transition metal chalcogenide heterostructures for electrochemical energy storage and conversion. <i>Nanoscale</i> , 2021, 13, 19740-19770.	5.6	41
146	Contact mechanics in tribological and contact damage-related problems: A review. <i>Tribology International</i> , 2022, 171, 107534.	5.9	41
147	A new numerical method for planar multibody system with mixed lubricated revolute joint. <i>International Journal of Mechanical Sciences</i> , 2016, 113, 105-119.	6.7	40
148	Graphene membranes with nanoslits for seawater desalination via forward osmosis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30551-30561.	2.8	40
149	Environmental stability of bismuthene: oxidation mechanism and structural stability of 2D pnictogens. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9195-9202.	5.5	40
150	Water Desalination by Flow-Electrode Capacitive Deionization in Overlimiting Current Regimes. <i>Environmental Science & Technology</i> , 2020, 54, 5853-5863.	10.0	40
151	In situ oxidation transformation of trimetallic selenide to amorphous FeCo-oxyhydroxide by self-sacrificing MoSe ₂ for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7925-7934.	10.3	40
152	3D Printing and Chemical Dealloying of a Hierarchically Micro- and Nanoporous Catalyst for Wastewater Purification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48709-48719.	8.0	40
153	Analysis of fluid pressure, interface stresses and stress intensity factors for layered materials with cracks and inhomogeneities under elasto-hydrodynamic lubrication contact. <i>International Journal of Mechanical Sciences</i> , 2015, 93, 48-58.	6.7	39
154	Molecular Insights into the Composition-Structure-Property Relationships of Polyamide Thin Films for Reverse Osmosis Desalination. <i>Environmental Science & Technology</i> , 2019, 53, 6374-6382.	10.0	39
155	In situ growth of a POMOF-derived nitride based composite on Cu foam to produce hydrogen with enhanced water dissociation kinetics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13559-13566.	10.3	39
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