

Di Zhang

List of Publications by Year in descending order

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612
papers

31,019
citations

3933

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11052

137
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621
docs citations

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times ranked

25711
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional quantum-sheet films with sub-1.2 μm channels for ultrahigh-rate electrochemical capacitance. <i>Nature Nanotechnology</i> , 2022, 17, 153-158.	31.5	55
2	Effect of reinforcement volume fraction and T6 heat treatment on microstructure, thermal and mechanical properties of mesophase pitch-based carbon fiber reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 834, 142469.	5.6	9
3	MXenes as emerging nanomaterials in water purification and environmental remediation. <i>Science of the Total Environment</i> , 2022, 811, 152280.	8.0	255
4	Construction of Z-scheme heterojunction by coupling Bi ₂ Sn ₂ O ₇ and BiOBr with abundant oxygen vacancies: Enhanced photodegradation performance and mechanism insight. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 550-561.	9.4	33
5	Constructing High-Performance Lithium-Ion Hybrid Capacitors Based on the Electrode Framework Matching Strategy. <i>ACS Applied Energy Materials</i> , 2022, 5, 1963-1971.	5.1	7
6	High-Efficiency g-C ₃ N ₄ Based Photocatalysts for CO ₂ Reduction: Modification Methods. <i>Advanced Fiber Materials</i> , 2022, 4, 342-360.	16.1	64
7	First-Principles Investigation of the Interfacial Stability, Precipitate Formation, and Mechanical Behavior of Al ₃ Li/Al ₃ Zr/Al Interfaces. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1308-1321.	2.2	3
8	Effect of thermomechanical treatment and length-scales on spatial distribution of CNTs in Al matrix. <i>Carbon</i> , 2022, 190, 384-394.	10.3	19
9	Bioinspired Porous Anodic Alumina/Aluminum Flake Powder for Multiband Compatible Low Detectability. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8464-8472.	8.0	7
10	All alginate-derived high-performance T-Nb ₂ O ₅ /C/seaweed carbon Li-ion capacitors. <i>RSC Advances</i> , 2022, 12, 5743-5748.	3.6	0
11	Fabrication, mechanical and thermal properties of tungsten-copper coated graphite flakes reinforced copper matrix composites. <i>Materials and Design</i> , 2022, 216, 110526.	7.0	10
12	Synthesis of hydrous RuO ₂ anchored on seaweed-derived porous carbon for high-performance electrochemical capacitors. <i>Materials Letters</i> , 2022, 318, 132182.	2.6	0
13	Synergistic effects of tungsten coating on the microstructure, thermophysical and mechanical properties of graphite flakes reinforced copper matrix composites. <i>Journal of Alloys and Compounds</i> , 2022, 916, 165318.	5.5	11
14	Room and high-temperature mechanical behavior of reduced graphene oxide α -aluminum (RGO-Al) composite wire conductors α — A micro-mechanical investigation. <i>Materials Characterization</i> , 2022, 189, 111951.	4.4	2
15	Bioinspired hierarchical 3D flower-in-ridge hybrid structure for the photodegradation of persistent organic pollutants. <i>Nanoscale</i> , 2022, 14, 8130-8144.	5.6	7
16	Mechanical behavior and interfacial micro-zones of SiCp(CNT) hybrid reinforced aluminum matrix composites. <i>Materials Characterization</i> , 2022, 189, 111982.	4.4	14
17	Simultaneously improving the strength and ductility of the as-sintered (TiB+La ₂ O ₃)/Ti composites by in-situ planting ultra-fine networks into the composite powder. <i>Scripta Materialia</i> , 2022, 218, 114835.	5.2	14
18	Optical Optimization with Microstructure Evolution Inspired from Lepidopteran Scales. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	2

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19	The near-isotropic elastic properties of interpenetrating composites reinforced by regular fibre-networks. <i>Materials and Design</i> , 2022, 221, 110923.	7.0	4
20	Butterfly wing architectures inspire sensor and energy applications. <i>National Science Review</i> , 2021, 8, nwa107.	9.5	32
21	Hierarchical few-layer fluorine-free Ti_3C_2X ($T = O$) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Chemistry A, 2021, 9, 922-927.	10.3	29
22	A bioinspired solar evaporator for continuous and efficient desalination by salt dilution and secretion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17985-17993.	10.3	11
23	Structural modelling and mechanical behaviors of graphene/carbon nanotubes reinforced metal matrix composites via atomic-scale simulations: A review. <i>Composites Part C: Open Access</i> , 2021, 4, 100120.	3.2	11
24	Heterostructured bulk aluminum with controllable gradient structure: Fabrication strategy and deformation mechanisms. <i>Scripta Materialia</i> , 2021, 196, 113762.	5.2	15
25	Preparation of Sn/Fe nanoparticles for Cr (III) detection in presence of leucine, photocatalytic and antibacterial activities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119592.	3.9	25
26	Effects of graphite flake size on the properties of aligned graphene nanoplatelets covered graphite flakes/aluminum composites. <i>Diamond and Related Materials</i> , 2021, 116, 108381.	3.9	8
27	Process optimization, microstructure characterization and thermal properties of mesophase pitch-based carbon fiber reinforced aluminum matrix composites fabricated by vacuum hot pressing. <i>Composites Part B: Engineering</i> , 2021, 215, 108746.	12.0	36
28	High Reliable Nanofiller Reinforced Composite Based Flexible Heat Sink for Wearable Devices with Micromachining Technology. , 2021, , .		0
29	Enhanced mechanical behavior and fabrication of graphite flakes covered by aligned graphene nanoplatelets reinforced 2A12 aluminum composites. <i>Vacuum</i> , 2021, 188, 110150.	3.5	8
30	Enhanced strengthening and hardening via self-stabilized dislocation network in additively manufactured metals. <i>Materials Today</i> , 2021, 50, 79-88.	14.2	82
31	Mechanical Robustness of Metal Nanocomposites Rendered by Graphene Functionalization. <i>Nano Letters</i> , 2021, 21, 5706-5713.	9.1	15
32	Reinforcement with intragranular dispersion of carbon nanotubes in aluminum matrix composites. <i>Composites Part B: Engineering</i> , 2021, 217, 108915.	12.0	54
33	Boosted charge transfer in dual Z-scheme $BiVO_4@ZnIn_2S_4/Bi_2Sn_2O_7$ heterojunctions: Towards superior photocatalytic properties for organic pollutant degradation. <i>Chemosphere</i> , 2021, 276, 130226.	8.2	49
34	Remarkable anisotropic wear resistance with 100-fold discrepancy in a copper matrix laminated composite with only 0.2 vol% graphene. <i>Acta Materialia</i> , 2021, 215, 117092.	7.9	36
35	Microstructural characteristics and mechanical behavior of SiC(CNT)/Al multiphase interfacial micro-zones via molecular dynamics simulations. <i>Composites Part B: Engineering</i> , 2021, 220, 108996.	12.0	18
36	Fabrication, mechanical and thermal properties of copper coated graphite films reinforced copper matrix laminated composites via ultrasonic-assisted electroless plating and vacuum hot-pressing sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141768.	5.6	23

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37	Biomimetic Photonic Multifunctional Composite for High-Performance Radiative Cooling. <i>Advanced Optical Materials</i> , 2021, 9, 2101151.	7.3	37
38	Fabrication, mechanical and thermal behaviors of antiperovskite manganese nitride Mn _{3.1} Zn _{0.5} Sn _{0.4} N reinforced aluminum matrix composites. <i>Composites Part B: Engineering</i> , 2021, 223, 109080.	12.0	11
39	Co-doping silver and iron on graphitic carbon nitride-carageenan nanocomposite for the photocatalytic process, rapidly colorimetric detection and antibacterial properties. <i>Surfaces and Interfaces</i> , 2021, 26, 101279.	3.0	26
40	Strength-conductivity synergy in cold-drawn reduced graphene oxide (RGO)-aluminum composite wires for electrical applications. <i>Materials and Design</i> , 2021, 209, 109951.	7.0	12
41	Gyroid-structured Au-Ag periodic bimetal materials for ultrasensitive SERS detection. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9137-9141.	5.5	3
42	Reaction-free interface promoting strength-ductility balance in graphene nanosheet/Al composites. <i>Carbon</i> , 2020, 158, 449-455.	10.3	65
43	Nucleation and growth mechanisms of interfacial carbide in graphene nanosheet/Al composites. <i>Carbon</i> , 2020, 161, 17-24.	10.3	59
44	Microstructural characterization, mechanical properties and thermal expansion of antiperovskite manganese nitride Mn _{3.1} Zn _{0.5} Sn _{0.4} N fabricated by combining vacuum sintering and spark-plasma sintering. <i>Materials Characterization</i> , 2020, 160, 110100.	4.4	8
45	3D-Structured Carbonized Sunflower Heads for Improved Energy Efficiency in Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2171-2179.	8.0	178
46	Impact of alumina content and morphology on the mechanical properties of bulk nanolaminated Al ₂ O ₃ -Al composites. <i>Composites Communications</i> , 2020, 22, 100462.	6.3	19
47	Conjugated Acetylenic Polymers Grafted Cuprous Oxide as an Efficient Z-scheme Heterojunction for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2020, 32, e2002486.	21.0	34
48	Auxetic interpenetrating composites: A new approach to non-porous materials with a negative or zero Poisson's ratio. <i>Composite Structures</i> , 2020, 243, 112195.	5.8	9
49	Effect of overlapping region on double-sided friction stir welded joint of 120 mm ultra-thick SiCp/Al composite plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 782, 139238.	5.6	21
50	Bulk nanolaminated graphene (reduced graphene oxide)-aluminum composite tolerant of radiation damage. <i>Acta Materialia</i> , 2020, 196, 17-29.	7.9	42
51	A Scalable Nickel-Cellulose Hybrid Metamaterial with Broadband Light Absorption for Efficient Solar Distillation. <i>Advanced Materials</i> , 2020, 32, e1907975.	21.0	73
52	The mechanisms and environmental implications of engineered nanoparticles dispersion. <i>Science of the Total Environment</i> , 2020, 722, 137781.	8.0	14
53	First-principles investigation of interfacial stability, mechanical behavior and failure mechanism of β -SiC(111)/Al(111) interfaces. <i>Computational Materials Science</i> , 2020, 175, 109608.	3.0	17
54	Effect of Al ₂ O ₃ coating thickness on microstructural characterization and mechanical properties of continuous carbon fiber reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 793, 139839.	5.6	45

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55	3D Interconnected Gyroid Au@CuS Materials for Efficient Solar Steam Generation. ACS Applied Materials & Interfaces, 2020, 12, 34837-34847.	8.0	52
56	Ultralight, flexible carbon hybrid aerogels from bacterial cellulose for strong microwave absorption. Carbon, 2020, 162, 283-291.	10.3	71
57	Governing the Inclination Angle of Graphite Flakes in the Graphite Flake/Al Composites by Controlling the Al Particle Size via Flake Powder Metallurgy. Acta Metallurgica Sinica (English Letters), 2020, 33, 649-658.	2.9	7
58	Metal-graphene interfaces in epitaxial and bulk systems: A review. Progress in Materials Science, 2020, 110, 100652.	32.8	114
59	Achieving Rich and Active Alkaline Hydrogen Evolution Heterostructures via Interface Engineering on 2D 1Tâ€MoS ₂ Quantum Sheets. Advanced Functional Materials, 2020, 30, 2000551.	14.9	83
60	Interface-dominated mechanical behavior in advanced metal matrix composites. Nano Materials Science, 2020, 2, 66-71.	8.8	18
61	Superior photothermal black TiO ₂ with random size distribution as flexible film for efficient solar steam generation. Applied Materials Today, 2020, 20, 100669.	4.3	27
62	Enhanced through-plane thermal conductivity and mechanical properties of vertically aligned graphene nanoplatelet@graphite flakes reinforced aluminum composites. Diamond and Related Materials, 2020, 108, 107929.	3.9	15
63	Hierarchical anti-reflective laser-induced periodic surface structures (LIPSSs) on amorphous Si films for sensing applications. Nanoscale, 2020, 12, 13431-13441.	5.6	67
64	Simultaneous enhancement of strength and ductility with nano dispersoids in nano and ultrafine grain metals: a brief review. Reviews on Advanced Materials Science, 2020, 59, 352-360.	3.3	17
65	Mapping thermal radiation in plasmonic structures. Chemical Physics, 2019, 526, 110423.	1.9	3
66	Electrochemical determination of urinary dopamine from neuroblastoma patients based on Cu nanoplates encapsulated by alginate-derived carbon. Journal of Electroanalytical Chemistry, 2019, 853, 113560.	3.8	10
67	Naturally safe: Cellular noise for document security. Journal of Biophotonics, 2019, 12, e201900218.	2.3	4
68	Interface-induced strain hardening of graphene nanosheet/aluminum composites. Carbon, 2019, 146, 17-27.	10.3	113
69	Enhanced load transfer by designing mechanical interfacial bonding in carbon nanotube reinforced aluminum composites. Carbon, 2019, 146, 155-161.	10.3	69
70	Strengthening and deformation mechanisms in nanolaminated graphene-Al composite micro-pillars affected by graphene in-plane sizes. International Journal of Plasticity, 2019, 116, 265-279.	8.8	68
71	Artificial ceramic diatoms with multiscale photonic architectures via nanoimprint lithography for CO ₂ photoreduction. Journal of the American Ceramic Society, 2019, 102, 4678-4687.	3.8	9
72	Nanoprobe-based force spectroscopy as a versatile platform for probing the mechanical adhesion of bacteria. Nanoscale, 2019, 11, 7648-7655.	5.6	7

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73	Strain Rate Sensitivity and Deformation Mechanism of Carbon Nanotubes Reinforced Aluminum Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 3544-3554.	2.2	17
74	Microstructure-based modeling on structure-mechanical property relationships in carbon nanotube/aluminum composites. <i>International Journal of Plasticity</i> , 2019, 120, 278-295.	8.8	46
75	Fluorine-free Ti ₃ C ₂ T _x (T = O, OH) nanosheets (~450 nm) for nitrogen fixation under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14462-14465.	10.3	76
76	Heat treatment behavior and strengthening mechanisms of CNT/6061Al composites fabricated by flake powder metallurgy. <i>Materials Characterization</i> , 2019, 153, 261-270.	4.4	31
77	<i>In situ</i> synthesis of BiOCl nanosheets on three-dimensional hierarchical structures for efficient photocatalysis under visible light. <i>Nanoscale</i> , 2019, 11, 10203-10208.	5.6	32
78	Densely integrated Co, N-Codoped Graphene@Carbon nanotube porous hybrids for high-performance lithium-sulfur batteries. <i>Carbon</i> , 2019, 149, 750-759.	10.3	43
79	A NiCo ₂ S ₄ /hierarchical porous carbon for high performance asymmetrical supercapacitor. <i>Journal of Power Sources</i> , 2019, 427, 138-144.	7.8	83
80	Simultaneously achieving thermal insulation and rapid water transport in sugarcane stems for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9034-9039.	10.3	151
81	Biomimetic Superstructures Assembled from Au Nanostars and Nanospheres for Efficient Solar Evaporation. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900003.	5.3	37
82	Discharge and densification in the spark plasma sintering of quasicrystal particles. <i>Journal of Materials Science</i> , 2019, 54, 8727-8742.	3.7	8
83	Large Area 3D Hierarchical Superstructures Assembled from Colloidal Nanoparticles. <i>Small</i> , 2019, 15, 1805308.	10.0	12
84	Ultrahigh Electrical Conductivity of Graphene Embedded in Metals. <i>Advanced Functional Materials</i> , 2019, 29, 1806792.	14.9	126
85	Decorating Ag ₃ PO ₄ nanodots on mesoporous silica-functionalized NaYF ₄ :Yb,Tm@NaLuF ₄ for efficient sunlight-driven photocatalysis: synergy of broad spectrum absorption and pollutant adsorption-enrichment. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3529-3538.	6.0	16
86	Synthesis and Applications of Porous Glass. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2019, 24, 681-698.	0.9	9
87	Thermal properties of in situ grown graphene reinforced copper matrix laminated composites. <i>Journal of Alloys and Compounds</i> , 2019, 771, 228-237.	5.5	69
88	Uniform Spherical Graphene/Monocrystal-Copper Powder Fabricated by the Low Wettability of Liquid/Solid Interface. <i>KONA Powder and Particle Journal</i> , 2019, 36, 224-231.	1.7	0
89	Facile green synthesis of 3D nano-pyramids Cu/Carbon hybrid sensor electrode materials for simultaneous monitoring of phenolic compounds. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 617-625.	7.8	25
90	Interfacial Effect on the Deformation Mechanism of Bulk Nanolaminated Graphene-Al Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1113-1118.	2.2	27

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91	Enhanced corrosion resistance in metal matrix composites assembled from graphene encapsulated copper nanoflakes. <i>Carbon</i> , 2019, 142, 482-490.	10.3	58
92	Synergetic pore structure optimization and nitrogen doping of 3D porous graphene for high performance lithium sulfur battery. <i>Carbon</i> , 2019, 143, 869-877.	10.3	50
93	Effect of thermal cycling on the mechanical properties of carbon nanotubes reinforced copper matrix nanolaminated composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 739, 132-139.	5.6	14
94	Micron-sized encapsulated-type MoS ₂ /C hybrid particulates with an effective confinement effect for improving the cycling performance of LIB anodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6289-6298.	10.3	21
95	Local Bi-O bonds correlated with infrared emission properties in triply doped Gd _{2.95} Yb _{0.02} Bi _{0.02} Er _{0.01} Ga ₅ O ₁₂ via temperature-dependent Raman spectra and x-ray absorption fine structure analysis. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 125901.	1.8	1
96	AgBr/diatomite for the efficient visible-light-driven photocatalytic degradation of Rhodamine B. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	6
97	Generalized 3D Printing of Graphene-Based Mixed-Dimensional Hybrid Aerogels. <i>ACS Nano</i> , 2018, 12, 3502-3511.	14.6	214
98	Fluorine-Free Synthesis of High-Purity Ti ₃ C ₂ T _x (T=OH, O) via Alkali Treatment. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6115-6119.	13.8	809
99	Strain-rate dependent deformation mechanism of graphene-Al nanolaminated composites studied using micro-pillar compression. <i>International Journal of Plasticity</i> , 2018, 105, 128-140.	8.8	95
100	Effect of interfacial reaction on Young's modulus in CNT/Al nanocomposite: A quantitative analysis. <i>Materials Characterization</i> , 2018, 137, 84-90.	4.4	25
101	Effect of alumina coating and extrusion deformation on microstructures and thermal properties of short carbon fibre-Al composites. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	12
102	Enhanced thermal conductivity of diamond/aluminum composites through tuning diamond particle dispersion. <i>Journal of Materials Science</i> , 2018, 53, 6602-6612.	3.7	16
103	Design of an efficient flake powder metallurgy route to fabricate CNT/6061Al composites. <i>Materials and Design</i> , 2018, 142, 288-296.	7.0	81
104	Extreme rejuvenation and softening in a bulk metallic glass. <i>Nature Communications</i> , 2018, 9, 560.	12.8	186
105	Highly sensitive, reproducible and uniform SERS substrates with a high density of three-dimensionally distributed hotspots: gyroid-structured Au periodic metallic materials. <i>NPG Asia Materials</i> , 2018, 10, e462-e462.	7.9	65
106	3D Printing of Artificial Leaf with Tunable Hierarchical Porosity for CO ₂ Photoreduction. <i>Chemistry of Materials</i> , 2018, 30, 799-806.	6.7	66
107	Correlating micro-pillar compression behavior with bulk mechanical properties: Nanolaminated graphene-Al composite as a case study. <i>Scripta Materialia</i> , 2018, 146, 236-240.	5.2	24
108	Enhanced interfacial bonding and mechanical properties in CNT/Al composites fabricated by flake powder metallurgy. <i>Carbon</i> , 2018, 130, 333-339.	10.3	129

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109	Young's Modulus Enhancement and Measurement in CNT/Al Nanocomposites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 1121-1129.	2.9	10
110	Indentation-Enabled In Situ Mechanical Characterization of Micro/Nanopillars in Electron Microscopes. <i>Jom</i> , 2018, 70, 487-493.	1.9	2
111	Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. <i>ChemCatChem</i> , 2018, 10, 62-123.	3.7	39
112	Highly sensitive and rapidly responding room-temperature NO ₂ gas sensors based on WO ₃ nanorods/sulfonated graphene nanocomposites. <i>Nano Research</i> , 2018, 11, 791-803.	10.4	98
113	Grain boundary-assisted deformation in graphene-Al nanolaminated composite micro-pillars. <i>Materials Research Letters</i> , 2018, 6, 41-48.	8.7	27
114	Microstructure evolution and superelasticity of layer-like NiTiNb porous metal prepared by eutectic reaction. <i>Acta Materialia</i> , 2018, 143, 214-226.	7.9	73
115	Enhanced photocatalytic hydrogen production on three-dimensional gold butterfly wing scales/CdS nanoparticles. <i>Applied Surface Science</i> , 2018, 427, 807-812.	6.1	13
116	Particle size effect on the interfacial properties of SiC particle-reinforced Al-Cu-Mg composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 643-649.	5.6	89
117	Bio-Inspired Photonic Materials: Prototypes and Structural Effect Designs for Applications in Solar Energy Manipulation. <i>Advanced Functional Materials</i> , 2018, 28, 1705309.	14.9	117
118	Quantum Dots of 1T Phase Transitional Metal Dichalcogenides Generated via Electrochemical Li Intercalation. <i>ACS Nano</i> , 2018, 12, 308-316.	14.6	110
119	Composite structural modeling and tensile mechanical behavior of graphene reinforced metal matrix composites. <i>Science China Materials</i> , 2018, 61, 112-124.	6.3	41
120	Back stress in strain hardening of carbon nanotube/aluminum composites. <i>Materials Research Letters</i> , 2018, 6, 113-120.	8.7	74
121	Reversible thermochromic response based on photonic crystal structure in butterfly wing. <i>Nanophotonics</i> , 2018, 7, 217-227.	6.0	16
122	Influences of Interfaces on Dynamic Recrystallization and Texture Evolution During Hot Rolling of Graphene Nanoribbon/Cu Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 6401-6415.	2.2	4
123	Architected Leaf-Inspired Ni _{0.33} Co _{0.66} S ₂ /Graphene Aerogels via 3D Printing for High-Performance Energy Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1805057.	14.9	56
124	Hierarchical Porous Carbonized Lotus Seedpods for Highly Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2018, 30, 6217-6221.	6.7	204
125	Regain Strain-Hardening in High-Strength Metals by Nanofiller Incorporation at Grain Boundaries. <i>Nano Letters</i> , 2018, 18, 6255-6264.	9.1	74
126	Enhanced mechanical properties and high electrical conductivity in multiwalled carbon nanotubes reinforced copper matrix nanolaminated composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 729, 452-457.	5.6	43

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127	High-strength CNT/Al-Zn-Mg-Cu composites with improved ductility achieved by flake powder metallurgy via elemental alloying. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 111, 1-11.	7.6	58
128	Three-Dimensional CdS/Au Butterfly Wing Scales with Hierarchical Rib Structures for Plasmon-Enhanced Photocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19649-19655.	8.0	54
129	Photonic-structured fibers assembled from cellulose nanocrystals with tunable polarized selective reflection. <i>Nanotechnology</i> , 2018, 29, 325604.	2.6	14
130	Patterned Carbon Nitride-Based Hybrid Aerogel Membranes via 3D Printing for Broadband Solar Wastewater Remediation. <i>Advanced Functional Materials</i> , 2018, 28, 1801121.	14.9	101
131	Tailoring the structure and mechanical properties of graphene nanosheet/aluminum composites by flake powder metallurgy via shift-speed ball milling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 111, 73-82.	7.6	128
132	Graphene quality dominated interface deformation behavior of graphene-metal composite: The defective is better. <i>International Journal of Plasticity</i> , 2018, 111, 253-265.	8.8	50
133	Ordering of Hollow Ag-Au Nanospheres with Butterfly Wings as a Bio-template. <i>Scientific Reports</i> , 2018, 8, 9261.	3.3	13
134	Hot Deformation Behavior and Processing Maps of Diamond/Cu Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2202-2212.	2.2	6
135	Germanium-dioxide periodic nanostructure from inverse replication of butterfly wings. <i>Materials Letters</i> , 2018, 227, 55-57.	2.6	3
136	TEM characterization on microstructure of Ti-6Al-4V/Ag nanocomposite formed by friction stir processing. <i>Materialia</i> , 2018, 3, 139-144.	2.7	29
137	Two-Dimensional Nanosheets by Rapid and Efficient Microwave Exfoliation of Layered Materials. <i>Chemistry of Materials</i> , 2018, 30, 5932-5940.	6.7	76
138	Orientation-Dependent Tensile Behavior of Nanolaminated Graphene-Al Composites: An In Situ Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5229-5234.	2.2	12
139	Optical Performance Study of Gyroid-Structured TiO ₂ Photonic Crystals Replicated from Natural Templates Using a Sol-Gel Method. <i>Advanced Optical Materials</i> , 2018, 6, 1800064.	7.3	11
140	N-doped catalytic graphitized hard carbon for high-performance lithium/sodium-ion batteries. <i>Scientific Reports</i> , 2018, 8, 9934.	3.3	51
141	Superexchange interaction contribution to the Zeeman splitting of the intra-4f-shell luminescence band in Gd ₃ Ga ₄ FeO ₁₂ : Yb ³⁺ , Er ³⁺ . <i>Optical Materials Express</i> , 2018, 8, 3338.	3.0	4
142	Effects of extrusion ratio on microstructural evolution and mechanical behavior of in situ synthesized Ti-6Al-4V composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 155-163.	5.6	35
143	A chiral smectic structure assembled from nanosheets and nanorods. <i>Chemical Communications</i> , 2017, 53, 1868-1871.	4.1	27
144	Tumor marker detection using surface enhanced Raman spectroscopy on 3D Au butterfly wings. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1594-1600.	5.8	40

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601	An in situ method to evaluate the interfacial reaction during multiple remelting. <i>Journal of Materials Science Letters</i> , 2001, 20, 1001-1003.	0.5	6
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603	HREM study of TiB/Ti interfaces in a TiB-TiC in situ composite. <i>Scripta Materialia</i> , 2001, 44, 1069-1075.	5.2	118
604	Creep rupture life of in situ synthesized (TiB+TiC)/Ti matrix composites. <i>Scripta Materialia</i> , 2001, 44, 2449-2455.	5.2	74
605	Microstructure and Compressive Properties of <i>In Situ</i> Synthesized (TiB + TiC)/Ti Composites. <i>Materials Transactions, JIM</i> , 2000, 41, 1555-1561.	0.9	6
606	Title is missing!. <i>Journal of Materials Science</i> , 1999, 34, 5175-5180.	3.7	22
607	In situ technique for synthesizing (TiB+TiC)/Ti composites. <i>Scripta Materialia</i> , 1999, 41, 39-46.	5.2	211
608	Study on the making of metal-matrix interpenetrating phase composites. <i>Scripta Materialia</i> , 1998, 39, 1743-1748.	5.2	23
609	The interfacial reaction characteristics in SiC/Al composite above liquidus during remelting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998, 257, 281-286.	5.6	38
610	Wettability and its Improvement at Al/SiC Interfaces. <i>Key Engineering Materials</i> , 0, 351, 52-57.	0.4	3
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