

Zhijiang Wang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64

papers

2,925

citations

29

h-index

53

g-index

67

ext. papers

3,640

ext. citations

8

avg, IF

5.88

L-index

#	Paper	IF	Citations
64	Microwave absorption enhancement of porous C@CoFe ₂ O ₄ nanocomposites derived from eggshell membrane. <i>Carbon</i> , 2019 , 143, 507-516	10.4	206
63	Electrochemical reduction of aqueous nitrogen (N ₂) at a low overpotential on (110)-oriented Mo nanofilm. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18967-18971	13	187
62	SiC@Fe ₃ O ₄ dielectric-magnetic hybrid nanowires: controllable fabrication, characterization and electromagnetic wave absorption. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16397-16402	13	175
61	Magnetite Nanocrystals on Multiwalled Carbon Nanotubes as a Synergistic Microwave Absorber. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5446-5452	3.8	168
60	Chemoselectivity-induced multiple interfaces in MWCNT/Fe ₃ O ₄ @ZnO heterotrimers for whole X-band microwave absorption. <i>Nanoscale</i> , 2014 , 6, 12298-302	7.7	164
59	Ultrahigh Mass Activity for Carbon Dioxide Reduction Enabled by Gold-Iron Core-Shell Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15608-15611	16.4	151
58	Covalent interaction enhanced electromagnetic wave absorption in SiC/Co hybrid nanowires. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6517-6525	13	127
57	Stacking fault and unoccupied densities of state dependence of electromagnetic wave absorption in SiC nanowires. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4416-4423	7.1	112
56	Enhanced microwave absorption of Fe ₃ O ₄ nanocrystals after heterogeneously growing with ZnO nanoshell. <i>RSC Advances</i> , 2013 , 3, 3309	3.7	98
55	Light and Strong Hierarchical Porous SiC Foam for Efficient Electromagnetic Interference Shielding and Thermal Insulation at Elevated Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29950-29957	9.5	97
54	Controllable Fabricating Dielectric-Dielectric SiC@C Core-Shell Nanowires for High-Performance Electromagnetic Wave Attenuation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40690-40696	9.5	93
53	Current technology development for CO ₂ utilization into solar fuels and chemicals: A review. <i>Journal of Energy Chemistry</i> , 2020 , 49, 96-123	12	86
52	Eggplant-derived SiC aerogels with high-performance electromagnetic wave absorption and thermal insulation properties. <i>Chemical Engineering Journal</i> , 2019 , 373, 598-605	14.7	85
51	Lightweight and flexible graphene/SiC-nanowires/ poly(vinylidene fluoride) composites for electromagnetic interference shielding and thermal management. <i>Carbon</i> , 2020 , 156, 58-66	10.4	84
50	Flexible, conductive, porous, fibrillar polymer-gold nanocomposites with enhanced electromagnetic interference shielding and mechanical properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1095-1105	7.1	83
49	Fabrication of core-multishell MWCNT/Fe ₃ O ₄ /PANI/Au hybrid nanotubes with high-performance electromagnetic absorption. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10566-10572	13	82
48	Black reduced porous SnO ₂ nanosheets for CO ₂ electroreduction with high formate selectivity and low overpotential. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118134	21.8	67

47	Electric field-induced synthesis of dendritic nanostructured Fe for electromagnetic absorption application. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4571	13	60
46	Enhanced electrochemical reduction of CO ₂ to CO on Ag electrocatalysts with increased unoccupied density of states. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12616-12623	13	58
45	Effects of fluoride on the structure and properties of microarc oxidation coating on aluminium alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 188-193	5.7	53
44	Fabrication of hydrophobic alumina aerogel monoliths by surface modification and ambient pressure drying. <i>Applied Surface Science</i> , 2010 , 256, 5973-5977	6.7	50
43	Blue luminescence emitted from monodisperse thiolate-capped Au ₁₁ clusters. <i>ChemPhysChem</i> , 2009 , 10, 2012-5	3.2	47
42	Surface Ligand Promotion of Carbon Dioxide Reduction through Stabilizing Chemisorbed Reactive Intermediates. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3057-3061	6.4	44
41	Preparation and Characterization of Highly Flexible Al ₂ O ₃ /Al/Al ₂ O ₃ Hybrid Composite. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-8	3.2	35
40	High-temperature electromagnetic wave absorption, mechanical and thermal insulation properties of in-situ grown SiC on porous SiC skeleton. <i>Chemical Engineering Journal</i> , 2020 , 397, 125250	14.7	33
39	MWCNT/NiO-Fe ₃ O ₄ hybrid nanotubes for efficient electromagnetic wave absorption. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 111-116	5.7	32
38	Large-scale gold nanoparticle superlattice and its SERS properties for the quantitative detection of toxic carbaryl. <i>Nanoscale</i> , 2013 , 5, 5274-8	7.7	32
37	Nature of Electromagnetic-Transparent SiO ₂ Shell in Hybrid Nanostructure Enhancing Electromagnetic Attenuation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12967-12973	3.8	31
36	Highly sensitive and selective cartap nanosensor based on luminescence resonance energy transfer between NaYF ₄ :Yb,Ho nanocrystals and gold nanoparticles. <i>Talanta</i> , 2013 , 114, 124-30	6.2	29
35	Facile Synthesis of Highly Defected Silicon Carbide Sheets for Efficient Absorption of Electromagnetic Waves. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18537-18544	3.8	29
34	Efficient high-temperature electromagnetic wave absorption enabled by structuring binary porous SiC with multiple interfaces. <i>Carbon</i> , 2020 , 170, 517-526	10.4	25
33	Cobalt doping-induced strong electromagnetic wave absorption in SiC nanowires. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 93-100	5.7	24
32	Dependence of reduction degree on electromagnetic absorption of graphene nanoribbon unzipped from carbon nanotube. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 196-203	9.3	23
31	Size-tunable synthesis of monodisperse water-soluble gold nanoparticles with high X-ray attenuation. <i>Chemistry - A European Journal</i> , 2010 , 16, 1459-63	4.8	21
30	In situ fabrication of blue ceramic coatings on wrought Al Alloy 2024 by plasma electrolytic oxidation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 021302	2.9	20

29	Highly Selective Electrocatalytic Reduction of CO into Methane on Cu-Bi Nanoalloys. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7261-7266	6.4	20
28	Durian-like multi-functional Fe ₃ O ₄ @Au nanoparticles: synthesis, characterization and selective detection of benzidine. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9746	13	19
27	Synergistic Chemisorbing and Electronic Effects for Efficient CO ₂ Reduction Using Cysteamine-Functionalized Gold Nanoparticles. <i>ACS Applied Energy Materials</i> , 2019 , 2, 192-195	6.1	18
26	A High-Performance Zinc-Organic Framework with Accessible Open Metal Sites Catalyzes CO ₂ and Styrene Oxide into Styrene Carbonate under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2795-2803	8.3	17
25	Controllable synthesis of bifunctional NaYF ₄ :Yb ³⁺ /Ho ³⁺ @SiO ₂ /Au nanoparticles with upconversion luminescence and high X-ray attenuation. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9144-9149	5.7	16
24	Luminescent Au ₁₁ nanocluster superlattices with high thermal stability. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3632		14
23	Synergies between electronic and geometric effects of Mo-doped Au nanoparticles for effective CO ₂ electrochemical reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12291-12295	13	11
22	In situ formation of Al ₂ O ₃ /Bi ₂ O ₃ /SnO ₂ composite ceramic coating by microarc oxidation on Al-0%Sn alloy. <i>Applied Surface Science</i> , 2010 , 256, 3443-3447	6.7	9
21	A facile fabrication of a multi-functional and hierarchical Zn-based MOF as an efficient catalyst for CO ₂ fixation at room-temperature. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3085-3095	6.8	9
20	Composition regulation and defects introduction via amorphous CuEu alloy shell for efficient CO ₂ electroreduction toward methane. <i>Journal of CO₂ Utilization</i> , 2020 , 41, 101285	7.6	8
19	Growing dendritic SiC on 1D SiC nanowire: Enhancement of electromagnetic wave absorption performance. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 136, 109124	3.9	8
18	Theoretical insights into the factors affecting the electrochemical reduction of CO ₂ . <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4352-4369	5.8	7
17	Graphene-layer-coated boron carbide nanosheets with efficient electromagnetic wave absorption. <i>Applied Surface Science</i> , 2021 , 560, 150027	6.7	6
16	Progress and perspective of electrochemical CO ₂ reduction on Pd-based nanomaterials. <i>Chemical Engineering Science</i> , 2021 , 245, 116869	4.4	6
15	Catalysis of solar hydrogen production by iron atoms on the surface of Fe-doped silicon carbide. <i>Catalysis Science and Technology</i> , 2016 , 6, 7038-7041	5.5	5
14	Effective CO ₂ electroreduction toward C ₂ H ₄ boosted by Ce-doped Cu nanoparticles. <i>Chemical Engineering Journal</i> , 2021 , 133769	14.7	5
13	Designed fabrication of lightweight SiC/Si ₃ N ₄ aerogels for enhanced electromagnetic wave absorption and thermal insulation. <i>Journal of Alloys and Compounds</i> , 2022 , 901, 163651	5.7	5
12	Exceptional size-dependent activity enhancement in the catalytic electroreduction of N ₂ over Mo nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 31841-31848	6.7	5

11	Dicationic Ionic Liquid @MIL-101 for the Cycloaddition of CO ₂ and Epoxides under Cocatalyst-free Conditions. <i>Crystal Growth and Design</i> , 2021 , 21, 3689-3698	3.5	5
10	Direct CO ₂ electroreduction from NH ₄ HCO ₃ electrolyte to syngas on bromine-modified Ag catalyst. <i>Energy</i> , 2021 , 216, 119250	7.9	5
9	Self-Assembly of Amphiphilic Linear-Dendritic Carbosilane Block Surfactant for Waterborne Polyurethane Coating. <i>Polymers</i> , 2020 , 12,	4.5	2
8	Determination and Relaxation of Residual Stress in 2024 Al-30 vol.% Magnesium Borate Whisker Composites. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 3126-3133	1.6	2
7	Recent progresses in the mechanism, performance, and fabrication methods of metal-derived nanomaterials for efficient electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4558-4588	13	2
6	Effect of halogen-modification on Ag catalyst for CO ₂ electrochemical reduction to syngas from NH ₄ HCO ₃ electrolyte. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106415	6.8	2
5	Study of the Effect of PGDA Solvent on Film Formation and Curing Process of Two-Component Waterborne Polyurethane Coatings by FTIR Tracking. <i>Coatings</i> , 2020 , 10, 461	2.9	1
4	Efficient CO Electroreduction via Au-Complex Derived Carbon Nanotube Supported Au Nanoclusters. <i>ChemSusChem</i> , 2021 , 14, 4929-4935	8.3	1
3	Ultralight, compressible, and high-temperature-resistant dual-phase SiC/Si ₃ N ₄ felt for efficient electromagnetic wave attenuation. <i>Chemical Engineering Journal</i> , 2021 , 425, 130727	14.7	1
2	Morphology characteristics and mechanical properties of hot-pressed micron/sub-micron boron carbide ceramics. <i>Materials Today Communications</i> , 2021 , 29, 102751	2.5	1
1	Solidification of Discontinuous Magnesium Boratewhisker Reinforced AA2024 Matrix Composite 2013 , 2687-2694		