Xiaofang Liu

List of Publications by Year
in descending order

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Version: 2024-02-01

72	7,224	76326	79698
papers	citations	40 h-index	73 g-index

74	74	74	6174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Feâ€“Nâ€“C electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells. Nature Catalysis, 2019, 2, 259-268.	34.4	958
2	Multifunctional Organicâ€“Inorganic Hybrid Aerogel for Selfâ€Cleaning, Heatâ€Insulating, and Highly Efficient Microwave Absorbing Material. Advanced Functional Materials, 2019, 29, 1807624.	14.9	458
3	Porous CNTs/Co Composite Derived from Zeolitic Imidazolate Framework: A Lightweight, Ultrathin, and Highly Efficient Electromagnetic Wave Absorber. ACS Applied Materials & Interfaces, 2016, 8, 34686-34698.	8.0	427
4	Singleâ€Atom to Singleâ€Atom Grafting of Pt₁ onto Feï£¿N₄ Center: Pt₁@Feï£¿Nï£¿C Multifunctional Electrocatalyst with Significantly Enhanced Properties. Advanced Energy Materials, 2018, 8, 1701345.	19.5	371
5	The Solidâ€Phase Synthesis of an Feâ€Nâ€C Electrocatalyst for Highâ€Power Protonâ€Exchange Membrane Fuel Cells. Angewandte Chemie - International Edition, 2018, 57, 1204-1208.	13.8	293
6	Metal organic framework-derived Fe/carbon porous composite with low Fe content for lightweight and highly efficient electromagnetic wave absorber. Chemical Engineering Journal, 2017, 314, 320-327.	12.7	292
7	Magnetically Aligned Coâ€“C/MWCNTs Composite Derived from MWCNT-Interconnected Zeolitic Imidazolate Frameworks for a Lightweight and Highly Efficient Electromagnetic Wave Absorber. ACS Applied Materials & Interfaces, 2017, 9, 30850-30861.	8.0	282
8	Zigzag carbon as efficient and stable oxygen reduction electrocatalyst for proton exchange membrane fuel cells. Nature Communications, 2018, 9, 3819.	12.8	202
9	Rare Earth Single-Atom Catalysts for Nitrogen and Carbon Dioxide Reduction. ACS Nano, 2020, 14, 1093-1101.	14.6	198
10	Modulation of electromagnetic wave absorption by carbon shell thickness in carbon encapsulated magnetite nanospindlesâ€“poly(vinylidene fluoride) composites. Carbon, 2015, 95, 870-878.	10.3	195
11	Preparation of Feâ€“Nâ€“C catalysts with FeN_x (x = 1, 3, 4) active sites and comparison of their activities for the oxygen reduction reaction and performances in proton exchange membrane fuel cells. Journal of Materials Chemistry A, 2019, 7, 26147-26153.	10.3	172
12	Flexible nanocomposites with enhanced microwave absorption properties based on Fe₃O₄/SiO₂ nanorods and polyvinylidene fluoride. Journal of Materials Chemistry A, 2015, 3, 12197-12204.	10.3	165
13	Hierarchical NiCo₂O₄/Co₃O₄/NiO porous composite: a lightweight electromagnetic wave absorber with tunable absorbing performance. Journal of Materials Chemistry C, 2017, 5, 3770-3778.	5.5	161
14	Alginate-templated synthesis of CoFe/carbon fiber composite and theÂeffect of hierarchically porous structure on electromagnetic waveÂabsorption performance. Carbon, 2019, 151, 36-45.	10.3	161
15	Iron atomâ€“cluster interactions increase activity and improve durability in Feâ€“Nâ€“C fuel cells. Nature Communications, 2022, 13, .	12.8	159
16	Hydrogen storage in incompletely etched multilayer Ti2CTx at room temperature. Nature Nanotechnology, 2021, 16, 331-336.	31.5	145
17	Yolkâ€“shell structured Co-C/Void/Co9S8 composites with a tunable cavity for ultrabroadband and efficient low-frequency microwave absorption. Nano Research, 2018, 11, 4169-4182.	10.4	139
18	Structure and Room-Temperature Ferromagnetism of Zn-Doped SnO₂ Nanorods Prepared by Solvothermal Method. Journal of Physical Chemistry C, 2010, 114, 4790-4796.	3.1	125

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19	Off/on switchable smart electromagnetic interference shielding aerogel. Matter, 2021, 4, 1735-1747.	10.0	114
20	Design of dual-frequency electromagnetic wave absorption by interface modulation strategy. Chemical Engineering Journal, 2018, 334, 153-161.	12.7	112
21	Effects of local structure of Ce3+ ions on luminescent properties of Y3Al5O12:Ce nanoparticles. Scientific Reports, 2016, 6, 22238.	3.3	109
22	Anisotropic magnetic liquid metal film for wearable wireless electromagnetic sensing and smart electromagnetic interference shielding. Nano Energy, 2022, 92, 106700.	16.0	108
23	Iridium Oxide Nanoparticles and Iridium/Iridium Oxide Nanocomposites: Photochemical Fabrication and Application in Catalytic Reduction of 4-Nitrophenol. ACS Applied Materials & Interfaces, 2015, 7, 16738-16749.	8.0	106
24	Insights into the role of active site density in the fuel cell performance of Co-N-C catalysts. Applied Catalysis B: Environmental, 2019, 256, 117849.	20.2	104
25	Sequential Synthesis and Activeâ€Site Coordination Principle of Precious Metal Singleâ€Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. Advanced Energy Materials, 2020, 10, 2000689.	19.5	92
26	Environmentally Tough and Stretchable MXene Organohydrogel with Exceptionally Enhanced Electromagnetic Interference Shielding Performances. Nano-Micro Letters, 2022, 14, 77.	27.0	91
27	Graphene-enhanced microwave absorption properties of Fe3O4/SiO2 nanorods. Composites Part A: Applied Science and Manufacturing, 2016, 89, 40-46.	7.6	81
28	Hydrogen Passivation of Mâ€“Nâ€“C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements. Advanced Materials, 2021, 33, e2103600.	21.0	81
29	Boosting electrocatalytic water splitting via metal-metalloid combined modulation in quaternary Ni-Fe-P-B amorphous compound. Nano Research, 2020, 13, 447-454.	10.4	77
30	Enhanced microwave absorption properties of flake-shaped FePCB metallic glass/graphene composites. Composites Part A: Applied Science and Manufacturing, 2016, 89, 33-39.	7.6	72
31	Trapping of Ce electrons in band gap and room temperature ferromagnetism of Ce4+ doped ZnO nanowires. Journal of Applied Physics, 2009, 106, .	2.5	71
32	Synthesis and Active Site Identification of Feâ^'Nâ^'C Singleâ€Atom Catalysts for the Oxygen Reduction Reaction. ChemElectroChem, 2019, 6, 304-315.	3.4	65
33	Synergy between metallic components of MoNi alloy for catalyzing highly efficient hydrogen storage of MgH2. Nano Research, 2020, 13, 2063-2071.	10.4	64
34	0D-1D-2D multidimensionally assembled Co9S8/CNTs/MoS2 composites for ultralight and broadband electromagnetic wave absorption. Chemical Engineering Journal, 2021, 423, 130132.	12.7	64
35	Hierarchical Cobalt Selenides as Highly Efficient Microwave Absorbers with Tunable Frequency Response. ACS Applied Materials & Interfaces, 2020, 12, 1222-1231.	8.0	62
36	The Solidâ€Phase Synthesis of an Feâ€Nâ€C Electrocatalyst for Highâ€Power Protonâ€Exchange Membrane Fuel Cells. Angewandte Chemie, 2018, 130, 1218-1222.	2.0	57

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37	Flaky FeSiAl alloy-carbon nanotube composite with tunable electromagnetic properties for microwave absorption. Scientific Reports, 2016, 6, 35377.	3.3	56
38	Enhanced microwave absorption properties of rod-shaped Fe 2 O 3 /Fe 3 O 4 /MWCNTs composites. Progress in Natural Science: Materials International, 2018, 28, 288-295.	4.4	50
39	Activating microwave absorption performance by reduced graphene oxide-borophene heterostructure. Composites Part A: Applied Science and Manufacturing, 2020, 138, 106033.	7.6	48
40	An Efficient Co/C Microwave Absorber with Tunable Co Nanoparticles Derived from a ZnCo Bimetallic Zeolitic Imidazolate Framework. Particle and Particle Systems Characterization, 2018, 35, 1800107.	2.3	47
41	A layered double hydroxide-derived exchange spring magnet array grown on graphene and its application as an ultrathin electromagnetic wave absorbing material. Journal of Materials Chemistry C, 2019, 7, 12270-12277.	5.5	42
42	The microstructures and electrochemical performances of La 0.6 Gd 0.2 Mg 0.2 Ni 3.0 Co 0.5â^'x Al x (x) Tj ETQq0 0 0 rgBT /Overlock 10 Journal of Power Sources, 2014, 270, 21-27.	7.8	41
43	Stability of PGM-free fuel cell catalysts: Degradation mechanisms and mitigation strategies. Progress in Natural Science: Materials International, 2020, 30, 721-731.	4.4	34
44	Iodine cation bridged graphene sheets with strengthened interface combination for electromagnetic wave absorption. Carbon, 2021, 183, 100-107.	10.3	34
45	Cold-Sprayed Al Coating for Corrosion Protection of Sintered NdFeB. Journal of Thermal Spray Technology, 2014, 23, 456-462.	3.1	32
46	Temperature Impacts on Oxygen Reduction Reaction Measured by the Rotating Disk Electrode Technique. Journal of Physical Chemistry C, 2020, 124, 3069-3079.	3.1	32
47	Hollow double-shell structured Void@SiO2@Co-C composite for broadband electromagnetic wave absorption. Chemical Engineering Journal, 2021, 417, 128093.	12.7	31
48	Catalysis stability enhancement of Fe/Co dual-atom site via phosphorus coordination for proton exchange membrane fuel cell. Nano Research, 2022, 15, 3082-3089.	10.4	31
49	Stabilization of ultrafine metal nanocatalysts on thin carbon sheets. Nanoscale, 2015, 7, 18320-18326.	5.6	28
50	Carbon black-supported FMâ€“Nâ€“C (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. Journal of Materials Chemistry A, 2020, 8, 13166-13172.	10.3	27
51	Carbon Fibers Embedded with Aligned Magnetic Particles for Efficient Electromagnetic Energy Absorption and Conversion. ACS Applied Materials & Interfaces, 2021, 13, 5266-5274.	8.0	21
52	Clarifying the preferential occupation of Ga³⁺ ions in YAG:Ce,Ga nanocrystals with various Ga³⁺-doping concentrations by nuclear magnetic resonance spectroscopy. Journal of Materials Chemistry C, 2016, 4, 10691-10700.	5.5	20
53	The Calculated Dielectric Function and Optical Properties of Bimetallic Alloy Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 2721-2727.	3.1	20
54	A rationally assembled graphene nanoribbon/graphene framework for high volumetric energy and power density Li-ion batteries. Nanoscale, 2018, 10, 7676-7684.	5.6	18

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55	Hydrogen Passivation of Mâ€“Nâ€“C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements (Adv. Mater. 38/2021). Advanced Materials, 2021, 33, 2170300.	21.0	17
56	Study on the phase structures and electrochemical performances of La0.6Gd0.2Mg0.2Ni3.15-xCo0.25Al0.1Mnx (x=0-0.3) alloys as negative electrode material for nickel/metal hydride batteries. Electrochimica Acta, 2015, 158, 89-95.	5.2	16
57	Non-classical hydrogen storage mechanisms other than chemisorption and physisorption. Applied Physics Reviews, 2022, 9, .	11.3	16
58	Recent Advances in Phosphorusâ€Coordinated Transition Metal Singleâ€Atom Catalysts for Oxygen Reduction Reaction. ChemNanoMat, 2020, 6, 1601-1610.	2.8	14
59	Synthesis and Physical Properties of Mn Doped ZnO Dilute Magnetic Semiconductor Nanostructures. Journal of Superconductivity and Novel Magnetism, 2011, 24, 699-704.	1.8	12
60	Spatial porosity design of Feâ€“Nâ€“C catalysts for high power density PEM fuel cells and detection of water saturation of the catalyst layer by a microwave method. Journal of Materials Chemistry A, 2022, 10, 7764-7772.	10.3	11
61	Parallelâ€Orientationâ€Induced Strong Resonances Enable Ni Submicronâ€Wire Array: an Ultrathin and Ultralight Electromagnetic Wave Absorbing Material. Advanced Electronic Materials, 2021, 7, 2000970.	5.1	10
62	Corrosion Behavior of Detonation Gun Sprayed Al Coating on Sintered NFeB. Journal of Thermal Spray Technology, 2015, 24, 394-400.	3.1	9
63	Cathode Local Curvature Affects Lithium Peroxide Growth in Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 35264-35269.	8.0	9
64	Sodiumphosphinate-assisted synthesis of P-doped FeCo microcubes and their electromagnetic scattering characteristics. Journal of Alloys and Compounds, 2020, 820, 153280.	5.5	9
65	Effects of hydroxyls on the structural and room temperature ferromagnetic properties of Co doped SnO2 nanoparticles. Applied Physics A: Materials Science and Processing, 2009, 97, 211-215.	2.3	7
66	Necklaceâ€Like Sn@C Fiber Selfâ€Supporting Electrode for Highâ€Performance Sodiumâ€Ion Battery. Energy Technology, 2022, 10, .	3.8	7
67	Room-Temperature Ferromagnetism in Cobalt and Aluminum Co-Doping Tin Dioxide Diluted Magnetic Semiconductors. Materials Transactions, 2010, 51, 557-560.	1.2	6
68	Magnetic and Microwave Absorption Properties of Core/Shell FeCo-Based Nanocomposites Synthesized by a Simple Wet Chemical Method. IEEE Transactions on Magnetics, 2011, 47, 3456-3459.	2.1	6
69	Improved interfacial performance of carbon fiber/polyetherimide composites by polyetherimide and modified graphene oxide complex emulsion type sizing agent. High Performance Polymers, 2022, 34, 292-309.	1.8	5
70	Size Influence to the High-Frequency Properties of Granular Magnetite Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
71	The structure and multifunctional behaviors of Mnâ€“ZnO/Mnâ€“ZnS nanocomposites. Ceramics International, 2014, 40, 13847-13854.	4.8	4
72	Room-temperature spin glass and near band edge properties of highly disorder (FeCo)0.03Zn0.97O and (FeCoNi)0.03Zn0.97O nanorods. Journal of Applied Physics, 2010, 107, 043902.	2.5	2