

# Hongtao Guan

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,512  
citations

159525

30  
h-index

206029

48  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ru-functionalized Ni-doped dual phases of $\hat{1}\pm/\hat{1}^3$ -Fe <sub>2</sub> O <sub>3</sub> nanosheets for an optimized acetone detection. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 577-589.	5.3	4
2	Enhanced microwave absorption of biomass carbon/nickel/polypyrrole (C/Ni/PPy) ternary composites through the synergistic effects. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161887.	2.8	42
3	Magnetic FeOX/biomass carbon composites with broadband microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163894.	2.8	31
4	MOF-on-MOF nanoarchitecturing of Fe <sub>2</sub> O <sub>3</sub> @ZnFe <sub>2</sub> O <sub>4</sub> radial-heterospindles towards multifaceted superiorities for acetone detection. <i>Chemical Engineering Journal</i> , 2022, 442, 136094.	6.6	31
5	Ternary MXene/MnO <sub>2</sub> /Ni composites for excellent electromagnetic absorption with tunable effective absorption bandwidth. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165122.	2.8	12
6	Effective fabrication of flexible nickel chains/acrylate composite pressure-sensitive adhesives with layered structure for tunable electromagnetic interference shielding. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2906-2920.	9.9	61
7	Ni Doping in MnO <sub>2</sub> /MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) Composites to Modulate the Oxygen Vacancies for Boosting Microwave Absorption. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3694-3706.	2.0	13
8	Biomass derived porous carbon (BPC) and their composites as lightweight and efficient microwave absorption materials. <i>Composites Part B: Engineering</i> , 2021, 207, 108562.	5.9	177
9	Absorption-dominant radio-wave attenuation loss of metals and graphite. <i>Journal of Materials Science</i> , 2021, 56, 8037-8047.	1.7	16
10	1D Zn <sub>2</sub> GeO <sub>4</sub> rods supported on Ni foam for high performance non-enzymatic hydrogen peroxide sensor. <i>Surfaces and Interfaces</i> , 2021, 25, 101295.	1.5	3
11	Radio-wave electrical conductivity and absorption-dominant interaction with radio wave of exfoliated-graphite-based flexible graphite, with relevance to electromagnetic shielding and antennas. <i>Carbon</i> , 2020, 157, 549-562.	5.4	48
12	Construction of natural fiber/polyaniline core-shell heterostructures with tunable and excellent electromagnetic shielding capability via a facile secondary doping strategy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 105994.	3.8	69
13	NiO nanosheets on pine pollen-derived porous carbon: construction of interface to enhance microwave absorption. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, , 1.	1.1	6
14	ZnO-Decorated In/Ga Oxide Nanotubes Derived from Bimetallic In/Ga MOFs for Fast Acetone Detection with High Sensitivity and Selectivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26161-26169.	4.0	54
15	Tuning the microwave absorption capacity of TiP <sub>2</sub> O <sub>7</sub> by composited with biomass carbon. <i>Applied Surface Science</i> , 2020, 515, 145974.	3.1	59
16	A nickel foam modified with electrodeposited cobalt and phosphor for amperometric determination of dopamine. <i>Mikrochimica Acta</i> , 2019, 186, 602.	2.5	6
17	MOFs-Derived Porous NiFe <sub>2</sub> O <sub>4</sub> Nano-Octahedrons with Hollow Interiors for an Excellent Toluene Gas Sensor. <i>Nanomaterials</i> , 2019, 9, 1059.	1.9	25
18	Effect of the planar coil and linear arrangements of continuous carbon fiber tow on the electromagnetic interference shielding effectiveness, with comparison of carbon fibers with and without nickel coating. <i>Carbon</i> , 2019, 152, 898-908.	5.4	43

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19	Jute-based porous biomass carbon composited by Fe <sub>3</sub> O <sub>4</sub> nanoparticles as an excellent microwave absorber. <i>Journal of Alloys and Compounds</i> , 2019, 803, 1119-1126.	2.8	51
20	Highly Sensitive and Selective Toluene Sensor of Bimetallic Ni/Fe-MOFs Derived Porous NiFe <sub>2</sub> O <sub>4</sub> Nanorods. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 9450-9457.	1.8	27
21	In situ fabrication of Ni(OH) <sub>2</sub> nanoflakes/K-Ti-O nanowires on NiTi foil for high performance non-enzymatic hydrogen peroxide sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 107-114.	1.9	5
22	Biomass carbon derived from pine nut shells decorated with NiO nanoflakes for enhanced microwave absorption properties. <i>RSC Advances</i> , 2019, 9, 9126-9135.	1.7	73
23	Preparation and electromagnetic shielding effectiveness of cobalt ferrite nanoparticles/carbon nanotubes composites. <i>Nanomaterials and Nanotechnology</i> , 2019, 9, 184798041983782.	1.2	26
24	In situ fabrication of Co(OH) <sub>2</sub> by hydrothermal treating Co foil in MOH (M <sup>+</sup> =H, Li, Na, K) for non-enzymatic glucose detection. <i>Journal of Alloys and Compounds</i> , 2019, 781, 1033-1039.	2.8	11
25	MOFs-derived NiFe <sub>2</sub> O <sub>4</sub> fusiformis with highly selective response to xylene. <i>Journal of Alloys and Compounds</i> , 2019, 784, 102-110.	2.8	40
26	Fe <sub>3</sub> O <sub>4</sub> /Fe/C composites prepared by a facile thermal decomposition method and their application as microwave absorbers. <i>Journal of Alloys and Compounds</i> , 2019, 784, 1123-1129.	2.8	30
27	Microwave absorption performance of Ni(OH) <sub>2</sub> decorating biomass carbon composites from Jackfruit peel. <i>Applied Surface Science</i> , 2018, 447, 261-268.	3.1	89
28	Synthesis of core-shell carbon sphere@nickel oxide composites and their application for supercapacitors. <i>Ionics</i> , 2018, 24, 513-521.	1.2	19
29	Highly sensitive nonenzymatic H <sub>2</sub> O <sub>2</sub> sensor based on NiFe-layered double hydroxides nanosheets grown on Ni foam. <i>Surfaces and Interfaces</i> , 2018, 12, 102-107.	1.5	32
30	Direct growth of MnCO <sub>3</sub> on Ni foil for a highly sensitive nonenzymatic glucose sensor. <i>Journal of Alloys and Compounds</i> , 2018, 762, 216-221.	2.8	14
31	Cu <sub>2</sub> O templating strategy for the synthesis of octahedral Cu <sub>2</sub> O@Mn(OH) <sub>2</sub> core-shell hierarchical structures with a superior performance supercapacitor. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13668-13675.	5.2	56
32	Î <sup>2</sup> -MnO <sub>2</sub> microrods for the degradation of methyl orange under acid condition from aqueous solutions. <i>Research on Chemical Intermediates</i> , 2017, 43, 3975-3987.	1.3	8
33	Carbon spheres@MnO <sub>2</sub> core-shell nanocomposites with enhanced dielectric properties for electromagnetic shielding. <i>Scientific Reports</i> , 2017, 7, 15841.	1.6	38
34	Combustion synthesized hierarchically porous Mn <sub>3</sub> O <sub>4</sub> for catalytic degradation of methyl orange. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 643-647.	0.9	6
35	Enhanced microwave absorption properties of MnO <sub>2</sub> hollow microspheres consisted of MnO <sub>2</sub> nanoribbons synthesized by a facile hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2016, 676, 224-230.	2.8	52
36	Facile synthesis of core-shell carbon nanotubes@MnOOH nanocomposites with remarkable dielectric loss and electromagnetic shielding properties. <i>RSC Advances</i> , 2016, 6, 90002-90009.	1.7	20

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37	Combustion synthesized hierarchically porous WO <sub>3</sub> for selective acetone sensing. <i>Materials Chemistry and Physics</i> , 2016, 184, 155-161.	2.0	25
38	Self-grown MnO <sub>2</sub> nanosheets on carbon fiber paper as high-performance supercapacitors electrodes. <i>Electrochimica Acta</i> , 2016, 217, 16-23.	2.6	43
39	Effect of calcination temperatures on the electrochemical performances of nickel oxide/reduction graphene oxide (NiO/RGO) composites synthesized by hydrothermal method. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 98, 209-219.	1.9	37
40	RGO/KMnO <sub>4</sub> composite as supercapacitor electrode with high specific capacitance. <i>Ceramics International</i> , 2016, 42, 5195-5202.	2.3	19
41	Binder-free NiO@MnO <sub>2</sub> core-shell electrode: Rod-like NiO core prepared through corrosion by oxalic acid and enhanced pseudocapacitance with sphere-like MnO <sub>2</sub> shell. <i>Electrochimica Acta</i> , 2016, 189, 83-92.	2.6	47
42	Reduced graphene oxide (RGO)/Mn <sub>3</sub> O <sub>4</sub> nanocomposites for dielectric loss properties and electromagnetic interference shielding effectiveness at high frequency. <i>Ceramics International</i> , 2016, 42, 936-942.	2.3	70
43	Morphology control of porous CuO by surfactant using combustion method. <i>Applied Surface Science</i> , 2015, 349, 844-848.	3.1	47
44	A novel microwave absorption material of Ni doped cryptomelane type manganese oxides. <i>Ceramics International</i> , 2015, 41, 5688-5695.	2.3	16
45	Synthesis and photocatalytic degradation of methylene blue over p-n junction Co <sub>3</sub> O <sub>4</sub> /ZnO core/shell nanorods. <i>Materials Chemistry and Physics</i> , 2015, 155, 1-8.	2.0	68
46	A facile hydrothermal synthesis of MnO <sub>2</sub> nanorod/reduced graphene oxide nanocomposites possessing excellent microwave absorption properties. <i>RSC Advances</i> , 2015, 5, 88979-88988.	1.7	113
47	Porous NiO nanosheets self-grown on alumina tube using a novel flash synthesis and their gas sensing properties. <i>RSC Advances</i> , 2015, 5, 4880-4885.	1.7	52
48	Hydrothermal synthesis of Co <sub>3</sub> O <sub>4</sub> nanorods on nickel foil. <i>Materials Letters</i> , 2014, 123, 187-190.	1.3	22
49	Facile synthesis of MnO <sub>2</sub> nanorods at low temperature and their microwave absorption properties. <i>Materials Chemistry and Physics</i> , 2014, 143, 1061-1068.	2.0	62
50	FACILE SYNTHESIS AND MICROWAVE ABSORPTION PROPERTIES OF MnO <sub>2</sub> NANORODS. <i>Functional Materials Letters</i> , 2012, 05, 1250043.	0.7	7
51	Frequency and temperature effects on dielectric and electrical characteristics of MnO <sub>2</sub> nanorods. <i>Powder Technology</i> , 2012, 224, 356-359.	2.1	28
52	IN-SITU PREPARATION AND MAGNETIC PROPERTIES OF Fe <sub>3</sub> O <sub>4</sub> /WOOD COMPOSITE. , 2011, , .		1
53	Microwave absorption characteristics of manganese dioxide with different crystalline phase and nanostructures. <i>Materials Chemistry and Physics</i> , 2010, 124, 639-645.	2.0	53
54	Temperature dependent dielectric characterization of manganese dioxide nanostructures with different morphologies at low frequency. <i>Journal of Alloys and Compounds</i> , 2010, 507, 126-132.	2.8	20

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55	Effect of doping MnO <sub>2</sub> on magnetic properties for M-type barium ferrite. Journal of Magnetism and Magnetic Materials, 2007, 311, 507-511.	1.0	36
56	Expanded Polystyrene as an Admixture in Cement-Based Composites for Electromagnetic Absorbing. Journal of Materials Engineering and Performance, 2007, 16, 68-72.	1.2	21
57	Investigation of the electromagnetic characteristics of cement based composites filled with EPS. Cement and Concrete Composites, 2007, 29, 49-54.	4.6	84
58	Cement based electromagnetic shielding and absorbing building materials. Cement and Concrete Composites, 2006, 28, 468-474.	4.6	231
59	Electromagnetic characteristics of nanometer manganese dioxide composite materials. Journal of Electronic Materials, 2006, 35, 892-896.	1.0	42
60	Effect of a coupling agent on the electromagnetic and mechanical properties of carbon black/acrylonitrile-butadiene-styrene composites. Journal of Applied Polymer Science, 2006, 102, 1839-1843.	1.3	9
61	A Discrete Slab Absorber: Absorption Efficiency and Theory Analysis. Journal of Composite Materials, 2006, 40, 1841-1851.	1.2	37