

Guizhen Wang

List of Publications by Year in descending order

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105
papers

5,991
citations

66234

42
h-index

74018

75
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112
all docs

112
docs citations

112
times ranked

6029
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave Absorption Properties of Carbon Nanocoils Coated with Highly Controlled Magnetic Materials by Atomic Layer Deposition. <i>ACS Nano</i> , 2012, 6, 11009-11017.	7.3	727
2	Reduced graphene oxides: the thinnest and most lightweight materials with highly efficient microwave attenuation performances of the carbon world. <i>Nanoscale</i> , 2014, 6, 5754-5761.	2.8	347
3	High densities of magnetic nanoparticles supported on graphene fabricated by atomic layer deposition and their use as efficient synergistic microwave absorbers. <i>Nano Research</i> , 2014, 7, 704-716.	5.8	316
4	Ultralow-Threshold and Lightweight Biodegradable Porous PLA/MWCNT with Segregated Conductive Networks for High-Performance Thermal Insulation and Electromagnetic Interference Shielding Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1195-1203.	4.0	241
5	Growth of NiAl ₂ O ₄ Layered Double Hydroxide on Graphene toward Excellent Anticorrosive Microwave Absorption Application. <i>Advanced Science</i> , 2021, 8, 2002658.	5.6	227
6	Enhanced microwave absorption of ZnO coated with Ni nanoparticles produced by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2734-2740.	5.2	192
7	Magnetic Ni/graphene connected with conductive carbon nano-onions or nanotubes by atomic layer deposition for lightweight and low-frequency microwave absorption. <i>Chemical Engineering Journal</i> , 2020, 382, 122980.	6.6	181
8	Ultra-tough and super thermal-insulation nanocellular PMMA/TPU. <i>Chemical Engineering Journal</i> , 2017, 325, 632-646.	6.6	165
9	Oxygen vacancy modulated Ti ₂ Nb ₁₀₀ O _{29-x} embedded onto porous bacterial cellulose carbon for highly efficient lithium ion storage. <i>Nano Energy</i> , 2019, 58, 355-364.	8.2	137
10	Low-density and structure-tunable microcellular PMMA foams with improved thermal-insulation and compressive mechanical properties. <i>European Polymer Journal</i> , 2017, 95, 382-393.	2.6	136
11	Modelling of thermal transport through a nanocellular polymer foam: toward the generation of a new superinsulating material. <i>Nanoscale</i> , 2017, 9, 5996-6009.	2.8	124
12	Lightweight, super-elastic, and thermal-sound insulation bio-based PEBA foams fabricated by high-pressure foam injection molding with mold-opening. <i>European Polymer Journal</i> , 2018, 103, 68-79.	2.6	120
13	Alternate nonmagnetic and magnetic multilayer nanofilms deposited on carbon nanocoils by atomic layer deposition to tune microwave absorption property. <i>Carbon</i> , 2016, 98, 196-203.	5.4	114
14	The construction of carbon-coated Fe ₃ O ₄ yolk-shell nanocomposites based on volume shrinkage from the release of oxygen anions for wide-band electromagnetic wave absorption. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 307-317.	5.0	111
15	TiNb ₆ O ₁₇ : a new electrode material for lithium-ion batteries. <i>Chemical Communications</i> , 2015, 51, 8970-8973.	2.2	110
16	Strong and super thermally insulating in-situ nanofibrillar PLA/PET composite foam fabricated by high-pressure microcellular injection molding. <i>Chemical Engineering Journal</i> , 2020, 390, 124520.	6.6	103
17	Multiply Confined Nickel Nanocatalysts Produced by Atomic Layer Deposition for Hydrogenation Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9006-9010.	7.2	96
18	Boosting fast energy storage by synergistic engineering of carbon and deficiency. <i>Nature Communications</i> , 2020, 11, 132.	5.8	92

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19	Role of elastic strain energy in cell nucleation of polymer foaming and its application for fabricating sub-microcellular TPU microfilms. <i>Polymer</i> , 2017, 119, 28-39.	1.8	91
20	Acute myeloid leukemia cells harboring MLL fusion genes or with the acute promyelocytic leukemia phenotype are sensitive to the Bcl-2-selective inhibitor ABT-199. <i>Leukemia</i> , 2014, 28, 1557-1560.	3.3	87
21	Defective Ti ₂ Nb ₁₀ O ₂₇ .1: an advanced anode material for lithium-ion batteries. <i>Scientific Reports</i> , 2015, 5, 17836.	1.6	81
22	NiO/SiC Nanocomposite Prepared by Atomic Layer Deposition Used as a Novel Electrocatalyst for Nonenzymatic Glucose Sensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4772-4777.	4.0	78
23	Highly effective synthesis of NiO/CNT nanohybrids by atomic layer deposition for high-rate and long-life supercapacitors. <i>Dalton Transactions</i> , 2016, 45, 13779-13786.	1.6	78
24	Nanoporous Nitrogen-Doped Titanium Dioxide with Excellent Photocatalytic Activity under Visible Light Irradiation Produced by Molecular Layer Deposition. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9196-9200.	7.2	72
25	Hierarchical NiAl LDH nanotubes constructed via atomic layer deposition assisted method for high performance supercapacitors. <i>Electrochimica Acta</i> , 2017, 255, 15-22.	2.6	71
26	High-performance and flexible all-solid-state hybrid supercapacitor constructed by NiCoP/CNT and N-doped carbon coated CNT nanoarrays. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 151-159.	5.0	68
27	BCN nanosheets derived from coconut shells with outstanding microwave absorption and thermal conductive properties. <i>Chemical Engineering Journal</i> , 2022, 437, 135285.	6.6	67
28	Interface optimization of ZnO nanorod/CdS quantum dots heterostructure by a facile two-step low-temperature thermal treatment for improved photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2017, 325, 151-159.	6.6	65
29	Size-Selective Catalytic Growth of Nearly 100% Pure Carbon Nanocoils with Copper Nanoparticles Produced by Atomic Layer Deposition. <i>ACS Nano</i> , 2014, 8, 5330-5338.	7.3	61
30	Peroxidase-like activity of Au@TiO ₂ yolk-shell nanostructure and its application for colorimetric detection of H ₂ O ₂ and glucose. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 166-177.	4.0	61
31	CNT@NiO/natural rubber with excellent impedance matching and low interfacial thermal resistance toward flexible and heat-conducting microwave absorption applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 869-880.	2.7	59
32	Uniform Fe ₃ O ₄ coating on flower-like ZnO nanostructures by atomic layer deposition for electromagnetic wave absorption. <i>Dalton Transactions</i> , 2015, 44, 18804-18809.	1.6	58
33	Highly efficient and stable p-type ZnO nanowires with piezotronic effect for photoelectrochemical water splitting. <i>Nano Energy</i> , 2019, 61, 550-558.	8.2	57
34	PAK4 kinase-mediated SCG10 phosphorylation involved in gastric cancer metastasis. <i>Oncogene</i> , 2014, 33, 3277-3287.	2.6	56
35	Efficient adsorptive removal of dibenzothiophene by graphene oxide-based surface molecularly imprinted polymer. <i>RSC Advances</i> , 2014, 4, 1469-1475.	1.7	55
36	Oncogenic PAK4 regulates Smad2/3 axis involving gastric tumorigenesis. <i>Oncogene</i> , 2014, 33, 3473-3484.	2.6	49

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37	Ultrathin manganese oxide nanosheets uniformly coating on carbon nanocoils as high-performance asymmetric supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 142-150.	5.0	49
38	Lightweight and broadband 2D MoS ₂ nanosheets/3D carbon nanofibers hybrid aerogel for high-efficiency microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 33-42.	5.0	48
39	PAK1 regulates RUFY3-mediated gastric cancer cell migration and invasion. <i>Cell Death and Disease</i> , 2015, 6, e1682-e1682.	2.7	46
40	Preparation and microwave absorption properties of uniform TiO ₂ @C core-shell nanocrystals. <i>RSC Advances</i> , 2015, 5, 77443-77448.	1.7	45
41	Ni/CNTs and carbon coating engineering to synergistically optimize the interfacial behaviors of TiO ₂ for thermal conductive microwave absorbers. <i>Chemical Engineering Journal</i> , 2022, 448, 137600.	6.6	45
42	Enhanced photoelectrochemical performance of quantum dot-sensitized TiO ₂ nanotube arrays with Al ₂ O ₃ overcoating by atomic layer deposition. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17404-17413.	1.3	44
43	Synthesis of Porous CoFe ₂ O ₄ and Its Application as a Peroxidase Mimetic for Colorimetric Detection of H ₂ O ₂ and Organic Pollutant Degradation. <i>Nanomaterials</i> , 2018, 8, 451.	1.9	40
44	Uniformly coating MnO _x nanoflakes onto carbon nanofibers as lightweight and wideband microwave absorbers with frequency-selective absorption. <i>Materials and Design</i> , 2019, 183, 108167.	3.3	40
45	Fabrication of carbon-coated NiO supported on graphene for high performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 14199-14204.	1.7	37
46	Ti ₂ Nb ₁₀ O ₂₉ microspheres coated with ultrathin N-doped carbon layers by atomic layer deposition for enhanced lithium storage. <i>Chemical Communications</i> , 2019, 55, 517-520.	2.2	36
47	Linker Defects Triggering Boosted Oxygen Reduction Activity of Co/Zn-ZIF Nanosheet Arrays for Rechargeable Zn-Air batteries. <i>Small</i> , 2021, 17, e2007085.	5.2	36
48	Rationally tailoring interface characteristics of ZnO/amorphous carbon/graphene for heat-conduction microwave absorbers. <i>Nano Research</i> , 2022, 15, 8677-8687.	5.8	34
49	The Preparation of Au@TiO ₂ Yolk-Shell Nanostructure and its Applications for Degradation and Detection of Methylene Blue. <i>Nanoscale Research Letters</i> , 2017, 12, 535.	3.1	33
50	Ultrafast and durable lithium ion storage enabled by intertwined carbon nanofiber/Ti ₂ Nb ₁₀ O ₂₉ core-shell arrays. <i>Electrochimica Acta</i> , 2020, 332, 135433.	2.6	30
51	Atomic layer deposition-assisted growth of CuAl LDH on carbon fiber as a peroxidase mimic for colorimetric determination of H ₂ O ₂ and glucose. <i>New Journal of Chemistry</i> , 2019, 43, 5826-5832.	1.4	28
52	Multiple reinforcement effect induced by gradient carbon coating to comprehensively promote lithium storage performance of Ti ₂ Nb ₁₀ O ₂₉ . <i>Nano Energy</i> , 2022, 96, 107132.	8.2	28
53	Titanium niobate (Ti ₂ Nb ₁₀ O ₂₉) anchored on nitrogen-doped carbon foams as flexible and self-supported anode for high-performance lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 622-632.	5.0	26
54	Electrochemical properties of carbon nanocoils and hollow graphite fibers as anodes for rechargeable lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 199, 204-209.	2.6	25

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55	Uniform and Conformal Carbon Nanofilms Produced Based on Molecular Layer Deposition. <i>Materials</i> , 2013, 6, 5602-5612.	1.3	24
56	TiO ₂ â€“graphene hybrid nanostructures by atomic layer deposition with enhanced electrochemical performance for Pb(II) and Cd(II) detection. <i>RSC Advances</i> , 2015, 5, 4343-4349.	1.7	24
57	Rheological properties and application of wormlike micelles formed by sodium oleate/benzyltrimethyl ammonium bromide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 500, 222-229.	2.3	24
58	Preparation of floral-patterned ZnO/MWCNT heterogeneity structure using microwave irradiation heating method. <i>Materials Letters</i> , 2008, 62, 30-32.	1.3	23
59	The Direct Liquefaction of Sawdust in Tetralin. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2007, 29, 1221-1231.	1.2	22
60	Li ₅ Cr ₉ Ti ₄ O ₂₄ : A new anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 650, 616-621.	2.8	22
61	Atomic layer deposition assisted fabrication of high-purity carbon nanocoil for electrochemical energy storage. <i>Electrochimica Acta</i> , 2018, 268, 283-294.	2.6	22
62	Long Blood Residence and Large Tumor Uptake of Ruthenium Sulfide Nanoclusters for Highly Efficient Cancer Photothermal Therapy. <i>Scientific Reports</i> , 2017, 7, 41571.	1.6	20
63	Hollandite-type $\hat{2}$ -FeOOH(Cl) as a new cathode material for chloride ion batteries. <i>Chemical Communications</i> , 2020, 56, 12435-12438.	2.2	20
64	Improving photoelectrochemical performance on quantum dots co-sensitized TiO ₂ nanotube arrays using ZnO energy barrier by atomic layer deposition. <i>Applied Surface Science</i> , 2016, 388, 352-358.	3.1	19
65	The Fabrication and High-Efficiency Electromagnetic Wave Absorption Performance of CoFe/C Coreâ€“Shell Structured Nanocomposites. <i>Nanoscale Research Letters</i> , 2018, 13, 68.	3.1	18
66	Carbon-coated Ni(OH) ₂ -NiAl LDH hierarchical nanostructures on Ni foam as a high areal capacitance electrode for supercapacitor application. <i>Materials Letters</i> , 2018, 228, 179-182.	1.3	18
67	Microwave-assisted synthesis and characterization of luminescent lead tungstate microcrystals. <i>Materials Letters</i> , 2008, 62, 3163-3166.	1.3	17
68	Structures and luminescence properties of PbWO ₄ microcrystals prepared by the microwave irradiation method. <i>Journal of Alloys and Compounds</i> , 2009, 484, 505-509.	2.8	16
69	Inhibition of suilysin activity and inflammation by myricetin attenuates <i>Streptococcus suis</i> virulence. <i>Life Sciences</i> , 2019, 223, 62-68.	2.0	15
70	Novel ceramic-based microwave absorbents derived from gangue. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14238-14245.	2.7	15
71	Homogeneous time-resolved fluoroimmunoassay of bensulfuron-methyl by using terbium fluorescence energy transfer. <i>Talanta</i> , 2001, 55, 1119-1125.	2.9	14
72	Gravity anomaly in the southern South China Sea: a connection of Moho depth to the nature of the sedimentary basins' crust. <i>Geological Journal</i> , 2016, 51, 244-262.	0.6	14

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73	Photoelectrochemical Performance of Quantum dot-Sensitized TiO ₂ Nanotube Arrays: a Study of Surface Modification by Atomic Layer Deposition Coating. <i>Nanoscale Research Letters</i> , 2017, 12, 261.	3.1	14
74	Fast synthesis and morphology control of lead tungstate microcrystals via a microwave-assisted method. <i>Materials Research Bulletin</i> , 2009, 44, 418-421.	2.7	13
75	Novel hierarchical CuNiAl LDH nanotubes with excellent peroxidase-like activity for wide-range detection of glucose. <i>Dalton Transactions</i> , 2021, 50, 95-102.	1.6	13
76	Morin inhibits <i>Listeria monocytogenes</i> virulence in vivo and in vitro by targeting listeriolysin O and inflammation. <i>BMC Microbiology</i> , 2020, 20, 112.	1.3	12
77	Facile synthesis and photoelectrochemical properties of novel TiN/C ₃ N ₄ /CdS nanotube core/shell arrays. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1645-1653.	6.9	11
78	Improved cycling performance of a silicon anode for lithium ion batteries using carbon nanocoils. <i>RSC Advances</i> , 2014, 4, 40812-40815.	1.7	10
79	NiFe ₂ O ₄ /CNTs fabricated by atomic layer deposition as highly stable peroxidase mimics for sensitive colorimetric detection of hydrogen peroxide and glucose. <i>Materials Research Bulletin</i> , 2022, 147, 111637.	2.7	10
80	STRUCTURE AND MAGNETIC PROPERTIES OF CARBON-ENCAPSULATED Fe NANOPARTICLES OBTAINED BY A MODIFIED ARC PLASMA METHOD. <i>Modern Physics Letters B</i> , 2009, 23, 2149-2153.	1.0	7
81	Ultrasonic synthesis, formation mechanism and optical properties of single-crystalline Pb(OH)Br microrings. <i>Materials Chemistry and Physics</i> , 2012, 132, 923-928.	2.0	7
82	Organic Phosphorous and Calcium Source Induce the Synthesis of Yolk-Shell Structured Microspheres of Calcium Phosphate with High-Specific Surface Area: Application in HEL Adsorption. <i>Nanoscale Research Letters</i> , 2020, 15, 69.	3.1	7
83	Synthesis and optical properties of elliptic Pb(OH)Br microdiskettes. <i>Materials Research Bulletin</i> , 2011, 46, 487-491.	2.7	6
84	Magnetic alignment of nickel-coated carbon fibers. <i>Materials Research Bulletin</i> , 2011, 46, 2090-2093.	2.7	6
85	Biomolecules induce the synthesis of hollow hierarchical mesoporous structured hydroxyapatite microflowers: application in macromolecule drug delivery. <i>Journal of Materials Science</i> , 2021, 56, 7034-7049.	1.7	6
86	CoP/C hollow hybrids inducing abundant active interfaces and fast electron transfers to activate peroxymonosulfates for bisphenol A degradation. <i>Materials Today Nano</i> , 2021, 14, 100116.	2.3	6
87	Growth Process and Optical Properties of SrWO ₄ Microcrystal Prepared by a Microwave-Assisted Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 888-891.	0.6	5
88	Colistin-resistance mcr genes in <i>Klebsiella pneumoniae</i> from companion animals. <i>Journal of Global Antimicrobial Resistance</i> , 2021, 25, 35-36.	0.9	5
89	Determination of the Mode of Occurrence of As, Cr, and Hg in Three Chinese Coal Samples by Sequential Acid Leaching. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2007, 29, 1327-1336.	1.2	4
90	PREPARATION OF LUMINESCENT PbWO ₄ MICROCRYSTALS WITH HIERARCHICAL STRUCTURES BY USING MICROWAVE IRRADIATION HEATING METHOD. <i>Modern Physics Letters B</i> , 2010, 24, 3081-3087.	1.0	4

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91	Preparation and Characterization of FeCo Alloy Nanoparticles. <i>Integrated Ferroelectrics</i> , 2011, 128, 177-182.	0.3	4
92	Ozone-activated CNTs to induce uniform coating of MnO ₂ as high-performance supercapacitor electrodes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 1163-1169.	1.0	4
93	SYNTHESIS OF Bi ₂ WO ₆ MICROSPHERES WITH VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC PROPERTIES. <i>International Journal of Nanoscience</i> , 2013, 12, 1350035.	0.4	3
94	Facile synthesis and wide-band electromagnetic wave absorption properties of carbon-coated ZnO nanorods. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 398-403.	1.0	3
95	A novel emitting polymer with bipolar carrier transporting abilities. <i>Journal of Applied Polymer Science</i> , 2003, 88, 50-53.	1.3	2
96	Analysis of on-chip copper-single-walled carbon nanotube composite interconnects using transmission line model. , 2016, , .		2
97	Highly dispersed Ag nanoparticles embedded in alumina nanobelts as excellent surface-enhanced Raman scattering substrates. <i>RSC Advances</i> , 2016, 6, 8580-8583.	1.7	2
98	A Lamellar MoNb ₁₂ O ₃₃ as the High-Rate Anode Material for Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2022, 51, 4125-4132.	1.0	2
99	Microstructural Characteristics by EBSD and ECC in ECAE Processed Pure Cu Samples. <i>Advanced Engineering Materials</i> , 2003, 5, 593-597.	1.6	1
100	Some theoretical and computational aspects in grain boundaries and triple lines. <i>Journal of Materials Science</i> , 2005, 40, 841-845.	1.7	1
101	Fabrication and characterisation of multiwalled carbon nanotubes decorated by magnetic Ni nanoparticles. <i>Materials Science and Technology</i> , 2011, 27, 180-183.	0.8	1
102	SYNTHESIS OF CROSS Bi ₂ WO ₆ MICROWAFERS WITH ENHANCED PHOTOCATALYTIC ACTIVITY UNDER VISIBLE LIGHT IRRADIATION. <i>Surface Review and Letters</i> , 2012, 19, 1250005.	0.5	1
103	Synergistic effect of nanosheet structure and carbon coating engineering to enhance lithium storage performance of molybdenum niobium oxides. <i>Materials Today Sustainability</i> , 2022, 19, 100176.	1.9	1
104	Long-Term Effect of Thinning and Creating Gaps on Tree Regeneration and Understory Vegetation in Larch Plantation. , 2011, , .		0
105	Trapped Waves Over the Hyperbolic-Cosine Ocean Ridge. , 2017, , .		0