

Zhuo Sun

List of Publications by Year in descending order

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109
papers

5,427
citations

87888

38
h-index

82547

72
g-index

110
all docs

110
docs citations

110
times ranked

6893
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrosorption behavior of graphene in NaCl solutions. <i>Journal of Materials Chemistry</i> , 2009, 19, 6773.	6.7	352
2	Review on carbon-based composite materials for capacitive deionization. <i>RSC Advances</i> , 2015, 5, 15205-15225.	3.6	319
3	Electrospun carbon nanofibers as anode materials for sodium ion batteries with excellent cycle performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4117.	10.3	272
4	Reduced graphene oxide and activated carbon composites for capacitive deionization. <i>Journal of Materials Chemistry</i> , 2012, 22, 15556.	6.7	223
5	Microwave-assisted synthesis of ZnO-graphene composite for photocatalytic reduction of Cr(vi). <i>Catalysis Science and Technology</i> , 2011, 1, 1189.	4.1	204
6	Facile synthesis of novel graphene sponge for high performance capacitive deionization. <i>Scientific Reports</i> , 2015, 5, 8458.	3.3	174
7	Novel nitrogen doped graphene sponge with ultrahigh capacitive deionization performance. <i>Scientific Reports</i> , 2015, 5, 11225.	3.3	165
8	Microwave-assisted synthesis of TiO ₂ -reduced graphene oxide composites for the photocatalytic reduction of Cr(vi). <i>RSC Advances</i> , 2011, 1, 1245.	3.6	160
9	Electrophoretic deposition of reduced graphene-carbon nanotubes composite films as counter electrodes of dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 14869.	6.7	151
10	Enhanced photocatalytic degradation of methylene blue by ZnO-reduced graphene oxide-carbon nanotube composites synthesized via microwave-assisted reaction. <i>Catalysis Science and Technology</i> , 2012, 2, 2297.	4.1	141
11	Enhanced capacitive deionization performance of graphene by nitrogen doping. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 143-150.	9.4	139
12	Constructing Efficient and Stable Perovskite Solar Cells via Interconnecting Perovskite Grains. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35200-35208.	8.0	137
13	Fast synthesis of carbon microspheres via a microwave-assisted reaction for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1263-1267.	10.3	132
14	MoS ₂ -reduced graphene oxide composites synthesized via a microwave-assisted method for visible-light photocatalytic degradation of methylene blue. <i>RSC Advances</i> , 2014, 4, 9647.	3.6	126
15	Metal-organic framework derived porous CuO/Cu ₂ O composite hollow octahedrons as high performance anode materials for sodium ion batteries. <i>Chemical Communications</i> , 2015, 51, 16413-16416.	4.1	115
16	Efficient and ultraviolet durable planar perovskite solar cells via a ferrocenecarboxylic acid modified nickel oxide hole transport layer. <i>Nanoscale</i> , 2018, 10, 5617-5625.	5.6	109
17	Nanophotocatalysts via microwave-assisted solution-phase synthesis for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8299.	10.3	107
18	Ultra-thin carbon nanofiber networks derived from bacterial cellulose for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8693-8700.	10.3	97

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19	Rational design and fabrication of graphene/carbon nanotubes hybrid sponge for high-performance capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13418-13425.	10.3	90
20	Performance Analysis of OSTBC Transmission in Amplify-and-Forward Cooperative Relay Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2010, 59, 105-113.	6.3	84
21	Photoelectrocatalytic degradation of methylene blue using F doped TiO ₂ photoelectrode under visible light irradiation. <i>Chemosphere</i> , 2017, 185, 574-581.	8.2	82
22	Novel Bi ₂ MoO ₆ /TiO ₂ heterostructure microspheres for degradation of benzene series compound under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 145-153.	9.4	81
23	Large-scale and facile synthesis of silver nanoparticles via a microwave method for a conductive pen. <i>RSC Advances</i> , 2017, 7, 34041-34048.	3.6	78
24	One-step synthesis of CdS@TiO ₂ @chemically reduced graphene oxide composites via microwave-assisted reaction for visible-light photocatalytic degradation of methyl orange. <i>Catalysis Science and Technology</i> , 2012, 2, 754.	4.1	75
25	Nitrogen-doped carbon nanorods with excellent capacitive deionization ability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17304-17311.	10.3	73
26	Effective Improvement of the Photovoltaic Performance of Carbon-Based Perovskite Solar Cells by Additional Solvents. <i>Nano-Micro Letters</i> , 2016, 8, 347-357.	27.0	68
27	Visible light photocatalytic degradation of methylene blue by SnO ₂ quantum dots prepared via microwave-assisted method. <i>Catalysis Science and Technology</i> , 2013, 3, 1805.	4.1	63
28	One-step synthesis of SnO ₂ @reduced graphene oxide@carbon nanotube composites via microwave assistance for lithium ion batteries. <i>RSC Advances</i> , 2012, 2, 11719.	3.6	61
29	Nitrogen-doped electrospun reduced graphene oxide@carbon nanofiber composite for capacitive deionization. <i>RSC Advances</i> , 2015, 5, 34117-34124.	3.6	59
30	The application of an aqueous two-phase system combined with ultrasonic cell disruption extraction and HPLC in the simultaneous separation and analysis of solanine and Solanum nigrum polysaccharide from Solanum nigrum unripe fruit. <i>Food Chemistry</i> , 2020, 304, 125383.	8.2	56
31	Carbon aerogels electrode with reduced graphene oxide additive for capacitive deionization with enhanced performance. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 249.	6.0	55
32	Controllable synthesis of a hollow core-shell Co-Fe layered double hydroxide derived from Co-MOF and its application in capacitive deionization. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 85-94.	9.4	54
33	Long afterglow SrAl ₂ O ₄ :Eu,Dy phosphors for CdS quantum dot-sensitized solar cells with enhanced photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6388.	10.3	53
34	A facile, green synthesis of highly fluorescent carbon nanoparticles from oatmeal for cell imaging. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9514-9518.	5.5	52
35	Fabrication of porous graphene electrodes via CO ₂ activation for the enhancement of capacitive deionization. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 252-260.	9.4	50
36	Highly Efficient and Air Stable Inverted Polymer Solar Cells Using LiF-Modified ITO Cathode and MoO ₃ /AgAl Alloy Anode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3792-3799.	8.0	45

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37	Enhanced visible-light photocatalytic degradation of methyl orange by BiPO ₄ @CdS composites synthesized using a microwave-assisted method. RSC Advances, 2012, 2, 12706.	3.6	41
38	Microwave-assisted synthesis of ZnO@Y ₃ Al ₅ O ₁₂ :Ce ³⁺ composites with enhanced visible light photocatalysis. Journal of Materials Chemistry, 2012, 22, 16293.	6.7	39
39	Electrospun nest-shaped TiO ₂ structures as a scattering layer for dye sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 24326.	6.7	38
40	Simultaneous separation, concentration and determination of trace fluoroquinolone antibiotics in environmental samples using a polymer aqueous two-phase system coupled with HPLC. Journal of Chemical Technology and Biotechnology, 2019, 94, 2917-2927.	3.2	37
41	Performance of dye-sensitized solar cells with various carbon nanotube counter electrodes. Mikrochimica Acta, 2011, 174, 73-79.	5.0	35
42	Enhanced performance of cadmium selenide quantum dot-sensitized solar cells by incorporating long afterglow europium, dysprosium co-doped strontium aluminate phosphors. Journal of Colloid and Interface Science, 2014, 416, 81-85.	9.4	35
43	Long Afterglow SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ Phosphors as Luminescent Down-Shifting Layer for Crystalline Silicon Solar Cells. International Journal of Applied Ceramic Technology, 2015, 12, 722-727.	2.1	32
44	The Enhanced Low-Voltage Cathodoluminescent Properties of Spherical Y ₂ O ₃ :Eu ³⁺ Phosphors Coated with In ₂ O ₃ and its Application to Field-Emission Displays. International Journal of Applied Ceramic Technology, 2011, 8, 752-758.	2.1	31
45	Sol-gel synthesis of Au/N-TiO ₂ composite for photocatalytic reduction of Cr(vi). RSC Advances, 2012, 2, 3823.	3.6	31
46	Novel carbon sphere@Bi ₂ MoO ₆ core-shell structure for efficient visible light photocatalysis. RSC Advances, 2015, 5, 16592-16597.	3.6	29
47	Microwave synthesis of high luminescent aqueous CdSe/CdS/ZnS quantum dots for crystalline silicon solar cells with enhanced photovoltaic performance. RSC Advances, 2015, 5, 7673-7678.	3.6	27
48	Low Complexity Cyclic Feature Recovery Based on Compressed Sampling. International Journal of Distributed Sensor Networks, 2015, 2015, 1-7.	2.2	27
49	Effective large-area free-standing graphene field emitters by electrophoretic deposition. Applied Physics Letters, 2012, 101, .	3.3	26
50	A green and fast way for reduction of graphene oxide in acidic aqueous solution via microwave assistance. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2325-2327.	1.8	25
51	All carbon nanotube based flexible field emission devices prepared through a film transfer method. RSC Advances, 2015, 5, 21755-21761.	3.6	25
52	Carbon nanorods derived from natural based nanocrystalline cellulose for highly efficient capacitive deionization. Journal of Materials Chemistry A, 2014, 2, 20966-20972.	10.3	24
53	Novel yolk-shell structure bismuth-rich bismuth molybdate microspheres for enhanced visible light photocatalysis. Journal of Colloid and Interface Science, 2015, 452, 109-115.	9.4	24
54	Synthesis of TiO ₂ @graphene composites via visible-light photocatalytic reduction of graphene oxide. Journal of Materials Research, 2011, 26, 970-973.	2.6	23

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55	AgAl alloy electrode for efficient perovskite solar cells. RSC Advances, 2015, 5, 56037-56044.	3.6	23
56	Fractionation of mono- and divalent ions by capacitive deionization with nanofiltration membrane. Journal of Colloid and Interface Science, 2019, 544, 321-328.	9.4	23
57	High stability of sub-micro-sized silicon/carbon composites using recycling Silicon waste for lithium-ion battery anode. Journal of Alloys and Compounds, 2021, 869, 159124.	5.5	23
58	Electrosorption of different cations and anions with membrane capacitive deionization based on carbon nanotube/nanofiber electrodes and ion-exchange membranes. Desalination and Water Treatment, 2011, 30, 266-271.	1.0	22
59	Scalable synthesis and superior performance of TiO ₂ -reduced graphene oxide composite anode for sodium-ion batteries. Ionics, 2016, 22, 555-562.	2.4	22
60	Photoluminescence and photoabsorption blueshift of nanostructured ZnO: Skin-depth quantum trapping and electron-phonon coupling. Applied Physics Letters, 2009, 95, .	3.3	21
61	Growth of NiS/graphene nanocomposites for enhanced performance of dye sensitized solar cells. Journal of Solid State Electrochemistry, 2015, 19, 1045-1052.	2.5	20
62	Grid Evolution: Joint Dictionary Learning and Sparse Bayesian Recovery for Multiple Off-Grid Targets Localization. IEEE Communications Letters, 2018, 22, 2068-2071.	4.1	20
63	Carbon nanotube and carbon nanofiber composite films grown on different graphite substrate for capacitive deionization. Desalination and Water Treatment, 2013, 51, 3988-3994.	1.0	19
64	Fabrication and Evaluation of Low-cost Cu ₂ ZnSn(S,Se) ₄ Counter Electrodes for Dye-sensitized Solar Cells. Nano-Micro Letters, 2013, 5, 281-288.	27.0	18
65	Three-dimensional BiOI/TiO ₂ heterostructures with photocatalytic activity under visible light irradiation. Journal of Porous Materials, 2018, 25, 1805-1812.	2.6	18
66	The effects of polymer gel electrolyte composition on performance of quasi-solid-state dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2011, 15, 1271-1277.	2.5	17
67	Microwave-assisted synthesis of ZnO for photocatalytic reduction of Cr(VI) in aqueous solution. Desalination and Water Treatment, 2012, 42, 216-221.	1.0	17
68	Efficiency Enhancement of Inverted Polymer Solar Cells Using Ionic Liquid-functionalized Carbon Nanoparticles-modified ZnO as Electron Selective Layer. Nano-Micro Letters, 2014, 6, 24-29.	27.0	17
69	Carbon microspheres via microwave-assisted synthesis as counter electrodes of dye-sensitized solar cells. Journal of Colloid and Interface Science, 2015, 445, 326-329.	9.4	17
70	The study of membrane capacitive deionization from charge efficiency. Desalination and Water Treatment, 2012, 42, 210-215.	1.0	16
71	One-pot synthesis of high quality CdS nanocrystals by microwave irradiation in an organic phase: a green route for mass production. Journal of Materials Chemistry C, 2013, 1, 4550.	5.5	16
72	Enhanced visible light photocatalytic degradation of methyl orange by Bi ₂ O ₃ /TiO ₂ composites. RSC Advances, 2014, 4, 38594.	3.6	16

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73	Novel reduced graphene oxide wrapped Bi _{2.38} Mo _{0.81} O ₆ microspheres for highly efficient visible light photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2015, 458, 235-240.	9.4	15
74	Facile synthesis of mixed-phase cobalt sulfide counter electrodes for efficient dye sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 42-48.	2.2	15
75	A Facile Method for Preparing Transparent, Conductive, and Paper-Like Silver Nanowire Films. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-5.	2.7	14
76	Detecting Pilot Spoofing Attack in MISO Systems With Trusted User. <i>IEEE Communications Letters</i> , 2019, 23, 314-317.	4.1	14
77	Graphene Oxide-BiOCl Nanoparticle Composites as Catalysts for Oxidation of Volatile Organic Compounds in Nonthermal Plasmas. <i>ACS Applied Nano Materials</i> , 2020, 3, 9363-9374.	5.0	13
78	Investigation of Cooperation Technologies in Heterogeneous Wireless Networks. <i>Journal of Computer Systems, Networks, and Communications</i> , 2010, 2010, 1-12.	1.2	12
79	Measurement and correlation of phase equilibria in aqueous two-phase systems containing ionic liquid ([EOMiM]Br) and potassium citrate/ammonium citrate/potassium tartrate at different temperatures. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 332-340.	2.7	12
80	Eu ³⁺ DOPED SILICA FILM AS LUMINESCENT DOWN-SHIFTING LAYER FOR CRYSTALLINE Si SOLAR CELLS. <i>Surface Review and Letters</i> , 2009, 16, 669-673.	1.1	11
81	Capacitive Neutralization Dialysis for Direct Energy Generation. <i>Environmental Science & Technology</i> , 2017, 51, 9363-9370.	10.0	11
82	Effect of sputtered Cu film's diffusion barrier on the growth and field emission properties of carbon nanotubes by chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 90, 701-704.	2.3	10
83	Dye-sensitized Solar Cells with Higher J _{sc} by Using Polyvinylidene Fluoride Membrane Counter Electrodes. <i>Nano-Micro Letters</i> , 2011, 3, 195-199.	27.0	9
84	Effect of Boron Nitride (BN) on Luminescent Properties of Y ₃ Al ₅ O ₁₂ :Ce Phosphors and their White Light-Emitting Diode Characteristics. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 610-616.	2.1	8
85	TiO ₂ -Au composite for efficient UV photocatalytic reduction of Cr(VI). <i>Desalination and Water Treatment</i> , 2013, 51, 3889-3895.	1.0	8
86	Importance of cations and anions from control agents in the synthesis of silver nanowires by polyol method. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	8
87	Learning Time-Frequency Analysis in Wireless Sensor Networks. <i>IEEE Internet of Things Journal</i> , 2018, 5, 3388-3396.	8.7	8
88	Detect Pilot Spoofing Attack for Intelligent Reflecting Surface Assisted Systems. <i>IEEE Access</i> , 2021, 9, 19228-19237.	4.2	7
89	Defect-Engineered Graphene Films as Ozonation Catalysts for the Devastation of Sulfamethoxazole: Insights into the Active Sites and Oxidation Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52706-52716.	8.0	6
90	Kinetics and isotherm studies on electrosorption of NaCl by activated carbon fiber, carbon nanotube and carbon nanotube-carbon nanofiber composite film. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 55-58.	0.8	5

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91	Electrosorption of LiCl in different solvents by carbon nanotube film electrodes. RSC Advances, 2013, 3, 16932.	3.6	5
92	Plasma-modified SnO ₂ :F substrate for efficient cobalt selenide counter in dye sensitized solar cell. RSC Advances, 2014, 4, 44896-44901.	3.6	5
93	ELECTRIC DOUBLE LAYER CAPACITORS WITH CARBON NANOTUBES ELECTRODES AND GEL POLYMER/POLYACID ELECTROLYTES. Surface Review and Letters, 2008, 15, 245-248.	1.1	4
94	The mechanism of Pt films to suppress the electron emission of grid in TWTs. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 32-35.	0.8	4
95	Homogeneous Precipitation Synthesis and Low Voltage Cathodoluminescence of SnO ₂ :Eu ³⁺ Phosphors for Field Emission Displays. International Journal of Applied Ceramic Technology, 2013, 10, 625-630.	2.1	4
96	Citric acid-assisted growth of lanthanide ions co-doped one-dimensional upconversion microcrystals and their photovoltaic applications. Journal of Materials Science: Materials in Electronics, 2014, 25, 4066-4073.	2.2	4
97	The effects of curcumin on anthropometric and cardiometabolic parameters of patients with metabolic related diseases: a systematic review and dose-effect meta-analysis of randomized controlled trials. Critical Reviews in Food Science and Nutrition, 2023, 63, 9282-9298.	10.3	4
98	Cathodoluminescence Properties of Blue Emitting Eu ²⁺ -Doped AlN Polytypoids for Field Emission Displays. Journal of the American Ceramic Society, 2014, 97, 339-341.	3.8	3
99	Convolutional Neural Filtering for Intelligent Communications Signal Processing in Harsh Environments. IEEE Access, 2021, 9, 8212-8219.	4.2	3
100	Structure, magnetic properties and giant magnetostriction studies in [Tb/Fe/Dy] n nano-multilayer film. Science Bulletin, 2009, 54, 608-611.	1.7	2
101	Sparse Learning of Higher-Order Statistics for Communications and Sensing. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 13-22.	4.9	2
102	AG-LRTR: An Adaptive and Generic Low-Rank Tensor-Based Recovery for IIoT Network Traffic Factors Denoising. IEEE Access, 2022, 10, 69839-69850.	4.2	2
103	Controllable Synthesis of Special Reed-Leaf-Like Carbon Nanostructures Using Copper Containing Catalytic Pyrolysis for High-Performance Field Emission. Applied Sciences (Switzerland), 2019, 9, 440.	2.5	1
104	MORPHOLOGICALLY CONTROLLED SYNTHESIS OF Au NANOCRYSTALS. Surface Review and Letters, 2010, 17, 493-496.	1.1	0
105	Graphene-incorporated nanocrystalline TiO ₂ films for dye-sensitized solar cells. , 2010, , .		0
106	Influence of Mesophase Pitch on Thermal Conductivity OF CNTs-Based Nanocomposite. Advanced Composites Letters, 2014, 23, 096369351402300.	1.3	0
107	Enhanced visible light photocatalytic degradation of Rhodamine B by Bi/Bi ₂ MoO ₆ hollow microsphere composites. RSC Advances, 2014, , .	3.6	0
108	Efficient Compressive Signal Recovery Using Prior Statistical Information. , 2015, , .		0

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109	A framework for social media information flow analytics in cyberspace and physical space. Transactions in GIS, 0, , .	2.3	0