Zhuo Sun

List of Publications by Year
in descending order

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	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
2	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
3	Controllable synthesis of a hollow core-shell Co-Fe layered double hydroxide derived from Co-MOF and its application in capacitive deionization. Journal of Colloid and Interface Science, 2021, 585, 85-94.	9.4	54
4	Detect Pilot Spoofing Attack for Intelligent Reflecting Surface Assisted Systems. IEEE Access, 2021, 9, 19228-19237.	4.2	7
5	Convolutional Neural Filtering for Intelligent Communications Signal Processing in Harsh Environments. IEEE Access, 2021, 9, 8212-8219.	4.2	3
6	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
7	Defect-Engineered Graphene Films as Ozonation Catalysts for the Devastation of Sulfamethoxazole: Insights into the Active Sites and Oxidation Mechanism. ACS Applied Materials & Interfaces, 2021, 13, 52706-52716.	8.0	6
8	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
9	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. Food Chemistry, 2020, 304, 125383.	8.2	56
10	Graphene Oxide-BiOCl Nanoparticle Composites as Catalysts for Oxidation of Volatile Organic Compounds in Nonthermal Plasmas. ACS Applied Nano Materials, 2020, 3, 9363-9374.	5.0	13
11	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. Korean Journal of Chemical Engineering, 2020, 37, 332-340.	2.7	12
12	Detecting Pilot Spoofing Attack in MISO Systems With Trusted User. IEEE Communications Letters, 2019, 23, 314-317.	4.1	14
13	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
14	Simultaneous separation, concentration and determination of trace fluoroquinolone antibiotics in environmental samples using a polymer aqueous twoâ€phase system coupled with HPLC. Journal of Chemical Technology and Biotechnology, 2019, 94, 2917-2927.	3.2	37
15	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
16	Fabrication of porous graphene electrodes via CO2 activation for the enhancement of capacitive deionization. Journal of Colloid and Interface Science, 2019, 536, 252-260.	9.4	50
17	Three-dimensional BiOI/TiO2 heterostructures with photocatalytic activity under visible light irradiation. Journal of Porous Materials, 2018, 25, 1805-1812.	2.6	18
18	Learning Time-Frequency Analysis in Wireless Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 3388-3396.	8.7	8

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19	Efficient and ultraviolet durable planar perovskite solar cells via a ferrocenecarboxylic acid modified nickel oxide hole transport layer. Nanoscale, 2018, 10, 5617-5625.	5.6	109
20	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
21	Constructing Efficient and Stable Perovskite Solar Cells via Interconnecting Perovskite Grains. ACS Applied Materials & Interfaces, 2017, 9, 35200-35208.	8.0	137
22	Photoelectrocatalytic degradation of methylene blue using F doped TiO2 photoelectrode under visible light irradiation. Chemosphere, 2017, 185, 574-581.	8.2	82
23	Capacitive Neutralization Dialysis for Direct Energy Generation. Environmental Science & Technology, 2017, 51, 9363-9370.	10.0	11
24	Large-scale and facile synthesis of silver nanoparticles via a microwave method for a conductive pen. RSC Advances, 2017, 7, 34041-34048.	3.6	78
25	Effective Improvement of the Photovoltaic Performance of Carbon-Based Perovskite Solar Cells by Additional Solvents. Nano-Micro Letters, 2016, 8, 347-357.	27.0	68
26	Importance of cations and anions from control agents in the synthesis of silver nanowires by polyol method. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	8
27	Scalable synthesis and superior performance of TiO2-reduced graphene oxide composite anode for sodium-ion batteries. Ionics, 2016, 22, 555-562.	2.4	22
28	Highly Efficient and Air Stable Inverted Polymer Solar Cells Using LiF-Modified ITO Cathode and MoO₃/AgAl Alloy Anode. ACS Applied Materials & Interfaces, 2016, 8, 3792-3799.	8.0	45
29	Novel Bi 2 MoO 6 /TiO 2 heterostructure microspheres for degradation of benzene series compound under visible light irradiation. Journal of Colloid and Interface Science, 2016, 463, 145-153.	9.4	81
30	Rational design and fabrication of graphene/carbon nanotubes hybrid sponge for high-performance capacitive deionization. Journal of Materials Chemistry A, 2015, 3, 13418-13425.	10.3	90
31	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
32	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
33	Facile synthesis of novel graphene sponge for high performance capacitive deionization. Scientific Reports, 2015, 5, 8458.	3.3	174
34	Novel carbon sphere@Bi₂MoO₆coreâ€“shell structure for efficient visible light photocatalysis. RSC Advances, 2015, 5, 16592-16597.	3.6	29
35	Review on carbon-based composite materials for capacitive deionization. RSC Advances, 2015, 5, 15205-15225.	3.6	319
36	Enhanced capacitive deionization performance of graphene by nitrogen doping. Journal of Colloid and Interface Science, 2015, 445, 143-150.	9.4	139

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37	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
38	AgAl alloy electrode for efficient perovskite solar cells. RSC Advances, 2015, 5, 56037-56044.	3.6	23
39	Novel nitrogen doped graphene sponge with ultrahigh capacitive deionization performance. Scientific Reports, 2015, 5, 11225.	3.3	165
40	Novel reduced graphene oxide wrapped Bi2.38Mo0.81O6 microspheres for highly efficient visible light photocatalysis. Journal of Colloid and Interface Science, 2015, 458, 235-240.	9.4	15
41	Nitrogen-doped carbon nanorods with excellent capacitive deionization ability. Journal of Materials Chemistry A, 2015, 3, 17304-17311.	10.3	73
42	Novel yolkâ€“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
43	Ultra-thin carbon nanofiber networks derived from bacterial cellulose for capacitive deionization. Journal of Materials Chemistry A, 2015, 3, 8693-8700.	10.3	97
44	All carbon nanotube based flexible field emission devices prepared through a film transfer method. RSC Advances, 2015, 5, 21755-21761.	3.6	25
45	Nitrogen-doped electrospun reduced graphene oxideâ€“carbon nanofiber composite for capacitive deionization. RSC Advances, 2015, 5, 34117-34124.	3.6	59
46	A facile, green synthesis of highly fluorescent carbon nanoparticles from oatmeal for cell imaging. Journal of Materials Chemistry C, 2015, 3, 9514-9518.	5.5	52
47	Metalâ€“organic framework derived porous CuO/Cu₂O composite hollow octahedrons as high performance anode materials for sodium ion batteries. Chemical Communications, 2015, 51, 16413-16416.	4.1	115
48	Long Afterglow SrAl₂O₄:Eu²⁺,Dy³⁺ Phosphors as Luminescent Downâ€Shifting Layer for Crystalline Silicon Solar Cells. International Journal of Applied Ceramic Technology, 2015, 12, 722-727.	2.1	32
49	Facile synthesis of mixed-phase cobalt sulfide counter electrodes for efficient dye sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2015, 26, 42-48.	2.2	15
50	Low Complexity Cyclic Feature Recovery Based on Compressed Sampling. International Journal of Distributed Sensor Networks, 2015, 2015, 1-7.	2.2	27
51	Efficient Compressive Signal Recovery Using Prior Statistical Information. , 2015, , .		0
52	Influence of Mesophase Pitch on Thermal Conductivity OF CNTs-Based Nanocomposite. Advanced Composites Letters, 2014, 23, 096369351402300.	1.3	0
53	Enhanced visible light photocatalytic degradation of Rhodamine B by Bi/Bi2MoO6 hollow microsphere composites. RSC Advances, 2014, , .	3.6	0
54	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

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55	MoS2â€“reduced graphene oxide composites synthesized via a microwave-assisted method for visible-light photocatalytic degradation of methylene blue. RSC Advances, 2014, 4, 9647.	3.6	126
56	Fast synthesis of carbon microspheres via a microwave-assisted reaction for sodium ion batteries. Journal of Materials Chemistry A, 2014, 2, 1263-1267.	10.3	132
57	Cathodoluminescence Properties of Blue Emitting <scp><scp>Eu</scp></scp>²⁺â€Doped <scp><scp>AlN</scp></scp>â€Polytypoids for Fieldâ€Emission Displays. Journal of the American Ceramic Society, 2014, 97, 339-341.	3.8	3
58	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
59	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
60	Enhanced visible light photocatalytic degradation of methyl orange by Bi₂O₃/Fâ€“TiO₂composites. RSC Advances, 2014, 4, 38594.	3.6	16
61	Electrospun carbon nanofibers as anode materials for sodium ion batteries with excellent cycle performance. Journal of Materials Chemistry A, 2014, 2, 4117.	10.3	272
62	Plasma-modified SnO₂:F substrate for efficient cobalt selenide counter in dye sensitized solar cell. RSC Advances, 2014, 4, 44896-44901.	3.6	5
63	Carbon aerogels electrode with reduced graphene oxide additive for capacitive deionization with enhanced performance. Inorganic Chemistry Frontiers, 2014, 1, 249.	6.0	55
64	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
65	Effect of Boron Nitride (BN) on Luminescent Properties of <scp><scp>Y₃Al₅O₁₂</scp></scp>:<scp><scp>Ce</scp></scp> Phosphors and their White Lightâ€Emitting Diode Characteristics. International Journal of Applied Ceramic Technology, 2013, 10, 610-616.	2.1	8
66	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
67	Electrosorption of LiCl in different solvents by carbon nanotube film electrodes. RSC Advances, 2013, 3, 16932.	3.6	5
68	Visible light photocatalytic degradation of methylene blue by SnO2 quantum dots prepared via microwave-assisted method. Catalysis Science and Technology, 2013, 3, 1805.	4.1	63
69	TiO₂â€“Au composite for efficient UV photocatalytic reduction of Cr(VI). Desalination and Water Treatment, 2013, 51, 3889-3895.	1.0	8
70	Long afterglow SrAl2O4:Eu,Dy phosphors for CdS quantum dot-sensitized solar cells with enhanced photovoltaic performance. Journal of Materials Chemistry A, 2013, 1, 6388.	10.3	53
71	Nanophotocatalysts via microwave-assisted solution-phase synthesis for efficient photocatalysis. Journal of Materials Chemistry A, 2013, 1, 8299.	10.3	107
72	Fabrication and Evaluation of Low-cost Cu2ZnSn(S,Se)4 Counter Electrodes for Dye-sensitized Solar Cells. Nano-Micro Letters, 2013, 5, 281-288.	27.0	18

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73	Homogeneous Precipitation Synthesis and Lowâ€Voltage Cathodoluminescence of <scp><scp>SnO₂:Eu³⁺</scp></scp> Phosphors for Field Emission Displays. International Journal of Applied Ceramic Technology, 2013, 10, 625-630.	2.1	4
74	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
75	One-step synthesis of CdSâ€“TiO2â€“chemically reduced graphene oxide composites via microwave-assisted reaction for visible-light photocatalytic degradation of methyl orange. Catalysis Science and Technology, 2012, 2, 754.	4.1	75
76	Microwave-assisted synthesis of ZnOâ€“Y3Al5O12:Ce3+ composites with enhanced visible light photocatalysis. Journal of Materials Chemistry, 2012, 22, 16293.	6.7	39
77	Electrospun nest-shaped TiO2 structures as a scattering layer for dye sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 24326.	6.7	38
78	The study of membrane capacitive deionization from charge efficiency. Desalination and Water Treatment, 2012, 42, 210-215.	1.0	16
79	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
80	Solâ€“gel synthesis of Au/Nâ€“TiO2 composite for photocatalytic reduction of Cr(vi). RSC Advances, 2012, 2, 3823.	3.6	31
81	Effective large-area free-standing graphene field emitters by electrophoretic deposition. Applied Physics Letters, 2012, 101, .	3.3	26
82	Enhanced visible-light photocatalytic degradation of methyl orange by BiPO4â€“CdS composites synthesized using a microwave-assisted method. RSC Advances, 2012, 2, 12706.	3.6	41
83	Reduced graphene oxide and activated carbon composites for capacitive deionization. Journal of Materials Chemistry, 2012, 22, 15556.	6.7	223
84	Enhanced photocatalytic degradation of methylene blue by ZnOâ€“reduced graphene oxideâ€“carbon nanotube composites synthesized via microwave-assisted reaction. Catalysis Science and Technology, 2012, 2, 2297.	4.1	141
85	One-step synthesis of SnO2â€“reduced graphene oxideâ€“carbon nanotube composites via microwave assistance for lithium ion batteries. RSC Advances, 2012, 2, 11719.	3.6	61
86	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
87	Kinetics and isotherm studies on electrosorption of NaCl by activated carbon fiber, carbon nanotube and carbon nanotubeâ€carbon nanofiber composite film. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 55-58.	0.8	5
88	Synthesis of TiO₂â€“graphene composites via visible-light photocatalytic reduction of graphene oxide. Journal of Materials Research, 2011, 26, 970-973.	2.6	23
89	Dye-sensitized Solar Cells with Higher Jsc by Using Polyvinylidene Fluoride Membrane Counter Electrodes. Nano-Micro Letters, 2011, 3, 195-199.	27.0	9
90	Microwave-assisted synthesis of ZnOâ€“graphene composite for photocatalytic reduction of Cr(vi). Catalysis Science and Technology, 2011, 1, 1189.	4.1	204

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91	Microwave-assisted synthesis of TiO2-reduced graphene oxide composites for the photocatalytic reduction of Cr(vi). RSC Advances, 2011, 1, 1245.	3.6	160
92	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
93	The Enhanced Low-Voltage Cathodoluminescent Properties of Spherical Y2O3:Eu3+ Phosphors Coated with In2O3 and its Application to Field-Emission Displays. International Journal of Applied Ceramic Technology, 2011, 8, 752-758.	2.1	31
94	Electrophoretic deposition of reduced graphene-carbon nanotubes composite films as counter electrodes of dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 14869.	6.7	151
95	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
96	Performance of dye-sensitized solar cells with various carbon nanotube counter electrodes. Mikrochimica Acta, 2011, 174, 73-79.	5.0	35
97	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
98	A Facile Method for Preparing Transparent, Conductive, and Paper-Like Silver Nanowire Films. Journal of Nanomaterials, 2011, 2011, 1-5.	2.7	14
99	Performance Analysis of OSTBC Transmission in Amplify-and-Forward Cooperative Relay Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 105-113.	6.3	84
100	Investigation of Cooperation Technologies in Heterogeneous Wireless Networks. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-12.	1.2	12
101	MORPHOLOGICALLY CONTROLLED SYNTHESIS OF Au NANOCRYSTALS. Surface Review and Letters, 2010, 17, 493-496.	1.1	0
102	Graphene-incorporated nanocrystalline TiO<inf>2</inf> films for dye-sensitized solar cells. , 2010, , .		0
103	Photoluminescence and photoabsorption blueshift of nanostructured ZnO: Skin-depth quantum trapping and electron-phonon coupling. Applied Physics Letters, 2009, 95, .	3.3	21
104	Structure, magnetic properties and giant magnetostriction studies in [Tb/Fe/Dy] n nano-multilayer film. Science Bulletin, 2009, 54, 608-611.	1.7	2
105	Eu3+ DOPED SILICA FILM AS LUMINESCENT DOWN-SHIFTING LAYER FOR CRYSTALLINE Si SOLAR CELLS. Surface Review and Letters, 2009, 16, 669-673.	1.1	11
106	Electrosorption behavior of graphene in NaCl solutions. Journal of Materials Chemistry, 2009, 19, 6773.	6.7	352
107	Effect of sputtered Cu filmâ€™s diffusion barrier on the growth and field emission properties of carbon nanotubes by chemical vapor deposition. Applied Physics A: Materials Science and Processing, 2008, 90, 701-704.	2.3	10
108	ELECTRIC DOUBLE LAYER CAPACITORS WITH CARBON NANOTUBES ELECTRODES AND GEL POLYMER/POLYACID ELECTROLYTES. Surface Review and Letters, 2008, 15, 245-248.	1.1	4

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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