

# shuiliang Chen

## List of Publications by Year in descending order

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91  
papers

5,054  
citations

71102

41  
h-index

88630

70  
g-index

92  
all docs

92  
docs citations

92  
times ranked

6373  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of anodophilic biofilm bioelectroactivity on the denitrification behavior of air-cathode microbial fuel cells. <i>Biotechnology and Bioengineering</i> , 2022, 119, 268-276.	3.3	7
2	Bioinspired self-cleaning surface with microflower-like structures constructed by electrochemically corrosion mediated self-assembly. <i>CrystEngComm</i> , 2022, 24, 1085-1093.	2.6	2
3	Enhancing microbial electrocatalysis of metal-based bioanode by thermal oxidation of carbon black filler. <i>Electrochimica Acta</i> , 2022, 412, 140149.	5.2	3
4	Construction and Teaching Practice of Chemistry General Education Course "Chemical Mysteries in Movie and Animation" under the Concept of "Student-Centered". <i>Journal of Chemical Education</i> , 2022, 99, 2597-2603.	2.3	2
5	Covalent Organic Frameworks for Efficient Energy Electrocatalysis: Rational Design and Progress. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000090.	5.8	29
6	Reactive coating modification of metal material with strong bonding strength and enhanced corrosion resistance for high-performance bioelectrode of microbial electrochemical technologies. <i>Journal of Power Sources</i> , 2021, 491, 229595.	7.8	7
7	The use of reactive binder for carbon-based oxygen reduction reaction catalyst in neutral medium. <i>Electrochimica Acta</i> , 2021, 380, 138155.	5.2	2
8	A mechanical rechargeable small-size microbial fuel cell with long-term and stable power output. <i>Applied Energy</i> , 2020, 260, 114336.	10.1	11
9	Carbonization: A feasible route for reutilization of plastic wastes. <i>Science of the Total Environment</i> , 2020, 710, 136250.	8.0	110
10	Three-dimensional carbon-based anodes promoted the accumulation of exoelectrogens in bioelectrochemical systems. <i>Water Environment Research</i> , 2020, 92, 997-1005.	2.7	2
11	High-capacitance bioanode circumvents bioelectrochemical reaction transition in the voltage-reversed serially-stacked air-cathode microbial fuel cell. <i>Journal of Power Sources</i> , 2020, 468, 228402.	7.8	5
12	High-Performance Anode Materials with Superior Structure of Fe <sub>3</sub> O <sub>4</sub> /FeS/rGO Composite for Lithium Ion Batteries. <i>Nano</i> , 2020, 15, 2050128.	1.0	12
13	Optimization Strategies of Preparation of Biomass-Derived Carbon Electrocatalyst for Boosting Oxygen Reduction Reaction: A Minireview. <i>Catalysts</i> , 2020, 10, 1472.	3.5	24
14	Improving rate capacity and cycling stability of Si-anode lithium ion battery by using copper nanowire as conductive additive. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153664.	5.5	26
15	Automatic microbial electro-Fenton system driven by transpiration for degradation of acid orange 7. <i>Science of the Total Environment</i> , 2020, 725, 138508.	8.0	14
16	Aerobic microbial electrochemical technology based on the coexistence and interactions of aerobes and exoelectrogens for synergistic pollutant removal from wastewater. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 60-69.	2.4	8
17	Interfacial Synthesis of Cellulose-Derived Solvent-Responsive Nanoparticles via Schiff Base Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16595-16603.	6.7	24
18	Investigating the draw ratio and velocity of an electrically charged liquid jet during electrospinning. <i>RSC Advances</i> , 2019, 9, 13608-13613.	3.6	24

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19	Strategies for optimizing the power output of microbial fuel cells: Transitioning from fundamental studies to practical implementation. <i>Applied Energy</i> , 2019, 233-234, 15-28.	10.1	122
20	Porous carbon nanofiber mats from electrospun polyacrylonitrile/polymethylmethacrylate composite nanofibers for supercapacitor electrode materials. <i>Journal of Materials Science</i> , 2018, 53, 9721-9730.	3.7	64
21	Nanofibers with diameter below one nanometer from electrospinning. <i>RSC Advances</i> , 2018, 8, 4794-4802.	3.6	117
22	A high-performance rotating graphite fiber brush air-cathode for microbial fuel cells. <i>Applied Energy</i> , 2018, 211, 1089-1094.	10.1	62
23	Nitrogen and phosphorus co-doped carbon modified activated carbon as an efficient oxygen reduction catalyst for microbial fuel cells. <i>RSC Advances</i> , 2018, 8, 848-855.	3.6	29
24	Crucial role for oxygen functional groups in the oxygen reduction reaction electrocatalytic activity of nitrogen-doped carbons. <i>Electrochimica Acta</i> , 2018, 292, 942-950.	5.2	46
25	Substrate Crossover Effect and Performance Regeneration of the Biofouled Rotating Air-Cathode in Microbial Fuel Cell. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	7
26	Auto-feeding microbial fuel cell inspired by transpiration of plants. <i>Applied Energy</i> , 2018, 225, 934-939.	10.1	9
27	Flexible and conductive titanium carbide@carbon nanofibers for high-performance glucose biosensing. <i>Electrochimica Acta</i> , 2018, 281, 517-524.	5.2	25
28	Flexible and conductive titanium carbide@carbon nanofibers for the simultaneous determination of ascorbic acid, dopamine and uric acid. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4610-4617.	5.8	41
29	Critical parameters selection in polarization behavior analysis of microbial fuel cells. <i>Bioresource Technology Reports</i> , 2018, 3, 185-190.	2.7	10
30	Preparation of Ni(OH) <sub>2</sub> nanoplatelet/electrospun carbon nanofiber hybrids for highly sensitive nonenzymatic glucose sensors. <i>RSC Advances</i> , 2017, 7, 19345-19352.	3.6	31
31	Three-dimensional N-doped carbon nanotube@carbon foam hybrid: an effective carrier of enzymes for glucose biosensors. <i>RSC Advances</i> , 2017, 7, 26574-26582.	3.6	15
32	Binder Free Hierarchical Mesoporous Carbon Foam for High Performance Lithium Ion Battery. <i>Scientific Reports</i> , 2017, 7, 1440.	3.3	56
33	Nitrogen-doped carbon paper with 3D porous structure as a flexible free-standing anode for lithium-ion batteries. <i>Scientific Reports</i> , 2017, 7, 7769.	3.3	35
34	Microperoxidase-11@PCN-333 (Al)/three-dimensional macroporous carbon electrode for sensing hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 890-897.	7.8	67
35	Stainless Steel Mesh Supported Carbon Nanofibers for Electrode in Bioelectrochemical System. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-5.	2.7	1
36	Immobilization of Anodophilic Biofilms for Use in Aerotolerant Bioanodes of Microbial Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34985-34990.	8.0	12

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37	Hollow carbon nanosphere embedded with ultrafine Fe <sub>3</sub> O <sub>4</sub> nanoparticles as high performance Li-ion battery anode. <i>Electrochimica Acta</i> , 2016, 219, 356-362.	5.2	27
38	Enhanced capacity and stability of K <sub>2</sub> FeO <sub>4</sub> cathode with poly(3-hexylthiophene) coating for alkaline super-iron battery. <i>Electrochimica Acta</i> , 2016, 213, 132-139.	5.2	6
39	Development of high dielectric polyimides containing bipyridine units for polymer film capacitor. <i>Reactive and Functional Polymers</i> , 2016, 106, 93-98.	4.1	47
40	Polyimide complexes with high dielectric performance: toward polymer film capacitor applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6452-6456.	5.5	43
41	Nitrogen-Doped Carbon Nanotubes Supported by Macroporous Carbon as an Efficient Enzymatic Biosensing Platform for Glucose. <i>Analytical Chemistry</i> , 2016, 88, 1371-1377.	6.5	80
42	Three-Dimensional Macroporous Carbon/Fe <sub>3</sub> O <sub>4</sub> -Doped Porous Carbon Nanorods for High-Performance Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1531-1537.	6.7	118
43	Modified stainless steel for high performance and stable anode in microbial fuel cells. <i>Electrochimica Acta</i> , 2016, 194, 246-252.	5.2	42
44	Supramolecular green phosphorescent polymer iridium complexes for solution-processed nondoped organic light-emitting diodes. <i>Journal of Organometallic Chemistry</i> , 2016, 804, 1-5.	1.8	4
45	Macroporous Carbon/Nitrogen-doped Carbon Nanotubes/Polyaniline Nanocomposites and Their Application in Supercapacitors. <i>Electrochimica Acta</i> , 2016, 189, 158-165.	5.2	73
46	Natural source derived carbon paper supported conducting polymer nanowire arrays for high performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 14441-14447.	3.6	32
47	A novel cyclometalated Iridium(III) complex containing dibenzo-24-crown-8: synthesis, luminescence and application in highly efficient green phosphorescent OLEDs. <i>RSC Advances</i> , 2015, 5, 49466-49470.	3.6	10
48	Carbonized textile with free-standing threads as an efficient anode material for bioelectrochemical systems. <i>Journal of Power Sources</i> , 2015, 287, 269-275.	7.8	22
49	Binder-free carbon black/stainless steel mesh composite electrode for high-performance anode in microbial fuel cells. <i>Journal of Power Sources</i> , 2015, 284, 252-257.	7.8	102
50	Encapsulation of a living bioelectrode by a hydrogel for bioelectrochemical systems in alkaline media. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4641-4646.	5.8	10
51	Conversion of straw to nitrogen doped carbon for efficient oxygen reduction catalysts in microbial fuel cells. <i>RSC Advances</i> , 2015, 5, 89771-89776.	3.6	29
52	Porous nitrogen doped carbon foam with excellent resilience for self-supported oxygen reduction catalyst. <i>Carbon</i> , 2015, 95, 388-395.	10.3	77
53	Solution-processable supramolecular phosphorescent polymer iridium complexes for red organic light-emitting diodes. <i>Materials Letters</i> , 2015, 161, 572-575.	2.6	4
54	Cellulose-derived nitrogen and phosphorus dual-doped carbon as high performance oxygen reduction catalyst in microbial fuel cell. <i>Journal of Power Sources</i> , 2015, 273, 1189-1193.	7.8	106

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55	Carbon Nanofibers Modified Graphite Felt for High Performance Anode in High Substrate Concentration Microbial Fuel Cells. <i>Scientific World Journal</i> , The, 2014, 2014, 1-5.	2.1	11
56	Binder-free activated carbon papers for high-performance electric double-layer capacitors. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2797-2802.	2.5	7
57	Highly strong and highly tough electrospun polyimide/polyimide composite nanofibers from binary blend of polyamic acids. <i>RSC Advances</i> , 2014, 4, 59936-59942.	3.6	41
58	Electrospun Fibrous Membranes as Separators of Lithium-Ion Batteries. <i>Nanostructure Science and Technology</i> , 2014, , 91-110.	0.1	3
59	High performance polyimide-Yb complex with high dielectric constant and low dielectric loss. <i>Materials Letters</i> , 2014, 133, 240-242.	2.6	36
60	Template-free synthesis of hierarchical porous carbon derived from low-cost biomass for high-performance supercapacitors. <i>RSC Advances</i> , 2014, 4, 51072-51079.	3.6	54
61	Modification of precursor polymer using co-polymerization: A good way to high performance electrospun carbon nanofiber bundles. <i>Materials Letters</i> , 2014, 122, 178-181.	2.6	35
62	Free-standing nitrogen-doped carbon nanotubes at electrospun carbon nanofibers composite as an efficient electrocatalyst for oxygen reduction. <i>Electrochimica Acta</i> , 2014, 138, 318-324.	5.2	61
63	Phosphorus-doped carbon derived from cellulose phosphate as efficient catalyst for air-cathode in microbial fuel cells. <i>Journal of Power Sources</i> , 2014, 261, 245-248.	7.8	52
64	High dielectric constant polyimide derived from 5,5-bis[(4-amino) phenoxy]2,2-bipyrimidine. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	33
65	Abiotic Oxygen Reduction Reaction Catalysts Used in Microbial Fuel Cells. <i>ChemElectroChem</i> , 2014, 1, 1813-1821.	3.4	108
66	Electrocatalytic activity of carbon nanoparticles from diffusion flame towards oxygen reduction. <i>Electrochimica Acta</i> , 2014, 136, 176-181.	5.2	9
67	Three-dimensional cross-linked carbon network wrapped with ordered polyaniline nanowires for high-performance pseudo-supercapacitors. <i>Journal of Power Sources</i> , 2014, 268, 451-458.	7.8	56
68	Electrochemical Sensing and Biosensing Platform Based on Biomass-Derived Macroporous Carbon Materials. <i>Analytical Chemistry</i> , 2014, 86, 1414-1421.	6.5	202
69	Three-Dimensional Kenaf Stem-Derived Porous Carbon/MnO <sub>2</sub> for High-Performance Supercapacitors. <i>Electrochimica Acta</i> , 2014, 135, 380-387.	5.2	71
70	Elastic carbon foam via direct carbonization of polymer foam for flexible electrodes and organic chemical absorption. <i>Energy and Environmental Science</i> , 2013, 6, 2435.	30.8	275
71	Supercapacitors based on 3D network of activated carbon nanowhiskers wrapped-on graphitized electrospun nanofibers. <i>Journal of Power Sources</i> , 2013, 243, 880-886.	7.8	50
72	Electrospinning Technology for Applications in Supercapacitors. <i>Current Organic Chemistry</i> , 2013, 17, 1402-1410.	1.6	18

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73	Reticulated carbon foam derived from a sponge-like natural product as a high-performance anode in microbial fuel cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18609.	6.7	108
74	Layered corrugated electrode macrostructures boost microbial bioelectrocatalysis. <i>Energy and Environmental Science</i> , 2012, 5, 9769.	30.8	187
75	Needle-like polyaniline nanowires on graphite nanofibers: hierarchical micro/nano-architecture for high performance supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 5114.	6.7	178
76	A Three-dimensionally Ordered Macroporous Carbon Derived From a Natural Resource as Anode for Microbial Bioelectrochemical Systems. <i>ChemSusChem</i> , 2012, 5, 1059-1063.	6.8	133
77	Fabrication and evaluation of polyamide 6 composites with electrospun polyimide nanofibers as skeletal framework. <i>Composites Part B: Engineering</i> , 2012, 43, 2382-2388.	12.0	44
78	Stainless steel mesh supported nitrogen-doped carbon nanofibers for binder-free cathode in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2012, 34, 282-285.	10.1	53
79	Electrospun carbon fiber mat with layered architecture for anode in microbial fuel cells. <i>Electrochemistry Communications</i> , 2011, 13, 1026-1029.	4.7	81
80	Effect of fiber diameter on the behavior of biofilm and anodic performance of fiber electrodes in microbial fuel cells. <i>Bioresource Technology</i> , 2011, 102, 10763-10766.	9.6	64
81	Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells. <i>Energy and Environmental Science</i> , 2011, 4, 1417.	30.8	289
82	High strength electrospun fibers. <i>Polymers for Advanced Technologies</i> , 2011, 22, 295-303.	3.2	26
83	Heat and Solvent Resistant Electrospun Polybenzoxazole Nanofibers from Methoxy-Containing Polyaramide. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-5.	2.7	17
84	Polymeric Nanosprings by Bicomponent Electrospinning. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 265-271.	3.6	65
85	Effect of Different Bicomponent Electrospinning Techniques on the Formation of Polymeric Nanosprings. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 781-786.	3.6	47
86	Supercapacitors based on hybrid carbon nanofibers containing multiwalled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2009, 19, 2810.	6.7	182
87	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008, 19, 015604.	2.6	50
88	Mechanical characterization of single high-strength electrospun polyimide nanofibres. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 025308.	2.8	58
89	High strength electrospun polymer nanofibers made from BPDA-PDA polyimide. <i>European Polymer Journal</i> , 2006, 42, 1099-1104.	5.4	56
90	Electrospun polymer nanofibres with small diameters. <i>Nanotechnology</i> , 2006, 17, 1558-1563.	2.6	249

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91	High-Strength Mats from Electrospun Poly(p-Phenylene Biphenyltetracarboximide) Nanofibers. <i>Advanced Materials</i> , 2006, 18, 668-671.	21.0	152