

# shuiliang Chen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

4,155  
citations

39  
h-index

63  
g-index

92  
ext. papers

4,623  
ext. citations

6.9  
avg, IF

5.54  
L-index

#	Paper	IF	Citations
89	Impact of anodophilic biofilm bioelectroactivity on the denitrification behavior of air-cathode microbial fuel cells. <i>Biotechnology and Bioengineering</i> , <b>2022</b> , 119, 268-276	4.9	0
88	Enhancing microbial electrocatalysis of metal-based bioanode by thermal oxidation of carbon black filler. <i>Electrochimica Acta</i> , <b>2022</b> , 412, 140149	6.7	0
87	Covalent Organic Frameworks for Efficient Energy Electrocatalysis: Rational Design and Progress. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000090	1.6	11
86	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> , <b>2021</b> , 491, 229595	8.9	4
85	The use of reactive binder for carbon-based oxygen reduction reaction catalyst in neutral medium. <i>Electrochimica Acta</i> , <b>2021</b> , 380, 138155	6.7	
84	Optimization Strategies of Preparation of Biomass-Derived Carbon Electrocatalyst for Boosting Oxygen Reduction Reaction: A Minireview. <i>Catalysts</i> , <b>2020</b> , 10, 1472	4	8
83	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> , <b>2020</b> , 822, 153664	5.7	12
82	Automatic microbial electro-Fenton system driven by transpiration for degradation of acid orange 7. <i>Science of the Total Environment</i> , <b>2020</b> , 725, 138508	10.2	6
81	A mechanical rechargeable small-size microbial fuel cell with long-term and stable power output. <i>Applied Energy</i> , <b>2020</b> , 260, 114336	10.7	9
80	Carbonization: A feasible route for reutilization of plastic wastes. <i>Science of the Total Environment</i> , <b>2020</b> , 710, 136250	10.2	53
79	Three-dimensional carbon-based anodes promoted the accumulation of exoelectrogens in bioelectrochemical systems. <i>Water Environment Research</i> , <b>2020</b> , 92, 997-1005	2.8	1
78	High-capacitance bioanode circumvents bioelectrochemical reaction transition in the voltage-reversed serially-stacked air-cathode microbial fuel cell. <i>Journal of Power Sources</i> , <b>2020</b> , 468, 228402	8.9	2
77	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> , <b>2020</b> , 15, 2050128	1.1	3
76	Interfacial Synthesis of Cellulose-Derived Solvent-Responsive Nanoparticles via Schiff Base Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16595-16603	8.3	15
75	Investigating the draw ratio and velocity of an electrically charged liquid jet during electrospinning. <i>RSC Advances</i> , <b>2019</b> , 9, 13608-13613	3.7	23
74	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> , <b>2019</b> , 5, 60-69	4.2	7
73	Strategies for optimizing the power output of microbial fuel cells: Transitioning from fundamental studies to practical implementation. <i>Applied Energy</i> , <b>2019</b> , 233-234, 15-28	10.7	78

72	Porous carbon nanofiber mats from electrospun polyacrylonitrile/polymethylmethacrylate composite nanofibers for supercapacitor electrode materials. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 9721-9730 <sup>39</sup>	4.3	39
71	Nanofibers with diameter below one nanometer from electrospinning.. <i>RSC Advances</i> , <b>2018</b> , 8, 4794-4802	3.7	87
70	A high-performance rotating graphite fiber brush air-cathode for microbial fuel cells. <i>Applied Energy</i> , <b>2018</b> , 211, 1089-1094	10.7	50
69	Nitrogen and phosphorus co-doped carbon modified activated carbon as an efficient oxygen reduction catalyst for microbial fuel cells.. <i>RSC Advances</i> , <b>2018</b> , 8, 848-855	3.7	23
68	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> , <b>2018</b> , 6, 4610-4617	7.3	29
67	Critical parameters selection in polarization behavior analysis of microbial fuel cells. <i>Bioresource Technology Reports</i> , <b>2018</b> , 3, 185-190	4.1	7
66	Crucial role for oxygen functional groups in the oxygen reduction reaction electrocatalytic activity of nitrogen-doped carbons. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 942-950	6.7	33
65	Substrate Crossover Effect and Performance Regeneration of the Biofouled Rotating Air-Cathode in Microbial Fuel Cell. <i>Frontiers in Energy Research</i> , <b>2018</b> , 6,	3.8	5
64	Auto-feeding microbial fuel cell inspired by transpiration of plants. <i>Applied Energy</i> , <b>2018</b> , 225, 934-939	10.7	7
63	Flexible and conductive titanium carbide-carbon nanofibers for high-performance glucose biosensing. <i>Electrochimica Acta</i> , <b>2018</b> , 281, 517-524	6.7	15
62	Preparation of Ni(OH) <sub>2</sub> nanoplatelet/electrospun carbon nanofiber hybrids for highly sensitive nonenzymatic glucose sensors. <i>RSC Advances</i> , <b>2017</b> , 7, 19345-19352	3.7	20
61	Three-dimensional N-doped carbon nanotube-carbon foam hybrid: an effective carrier of enzymes for glucose biosensors. <i>RSC Advances</i> , <b>2017</b> , 7, 26574-26582	3.7	12
60	Binder Free Hierarchical Mesoporous Carbon Foam for High Performance Lithium Ion Battery. <i>Scientific Reports</i> , <b>2017</b> , 7, 1440	4.9	47
59	Nitrogen-doped carbon paper with 3D porous structure as a flexible free-standing anode for lithium-ion batteries. <i>Scientific Reports</i> , <b>2017</b> , 7, 7769	4.9	26
58	Microperoxidase-11@PCN-333 (Al)/three-dimensional macroporous carbon electrode for sensing hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 239, 890-897	8.5	57
57	Polyimide complexes with high dielectric performance: toward polymer film capacitor applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 6452-6456	7.1	32
56	Nitrogen-Doped Carbon Nanotubes Supported by Macroporous Carbon as an Efficient Enzymatic Biosensing Platform for Glucose. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1371-7	7.8	70
55	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> , <b>2016</b> , 4, 1531-1537	8.3	104

54	Modified stainless steel for high performance and stable anode in microbial fuel cells. <i>Electrochimica Acta</i> , <b>2016</b> , 194, 246-252	6.7	34
53	Supramolecular green phosphorescent polymer iridium complexes for solution-processed nondoped organic light-emitting diodes. <i>Journal of Organometallic Chemistry</i> , <b>2016</b> , 804, 1-5	2.3	3
52	Macroporous Carbon/Nitrogen-doped Carbon Nanotubes/Polyaniline Nanocomposites and Their Application in Supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 189, 158-165	6.7	60
51	Stainless Steel Mesh Supported Carbon Nanofibers for Electrode in Bioelectrochemical System. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-5	3.2	0
50	Immobilization of Anodophilic Biofilms for Use in Aerotolerant Bioanodes of Microbial Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 34985-34990	9.5	9
49	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> , <b>2016</b> , 219, 356-362	6.7	24
48	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> , <b>2016</b> , 213, 132-139	6.7	4
47	Development of high dielectric polyimides containing bipyridine units for polymer film capacitor. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 106, 93-98	4.6	26
46	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> , <b>2015</b> , 5, 49466-49470	3.7	9
45	Carbonized textile with free-standing threads as an efficient anode material for bioelectrochemical systems. <i>Journal of Power Sources</i> , <b>2015</b> , 287, 269-275	8.9	18
44	Binder-free carbon black/stainless steel mesh composite electrode for high-performance anode in microbial fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 284, 252-257	8.9	80
43	Encapsulation of a living bioelectrode by a hydrogel for bioelectrochemical systems in alkaline media. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 4641-4646	7.3	8
42	Conversion of straw to nitrogen doped carbon for efficient oxygen reduction catalysts in microbial fuel cells. <i>RSC Advances</i> , <b>2015</b> , 5, 89771-89776	3.7	26
41	Porous nitrogen doped carbon foam with excellent resilience for self-supported oxygen reduction catalyst. <i>Carbon</i> , <b>2015</b> , 95, 388-395	10.4	65
40	Solution-processable supramolecular phosphorescent polymer iridium complexes for red organic light-emitting diodes. <i>Materials Letters</i> , <b>2015</b> , 161, 572-575	3.3	4
39	Cellulose-derived nitrogen and phosphorus dual-doped carbon as high performance oxygen reduction catalyst in microbial fuel cell. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 1189-1193	8.9	94
38	Natural source derived carbon paper supported conducting polymer nanowire arrays for high performance supercapacitors. <i>RSC Advances</i> , <b>2015</b> , 5, 14441-14447	3.7	29
37	High performance polyimide-Yb complex with high dielectric constant and low dielectric loss. <i>Materials Letters</i> , <b>2014</b> , 133, 240-242	3.3	30

36	Template-free synthesis of hierarchical porous carbon derived from low-cost biomass for high-performance supercapacitors. <i>RSC Advances</i> , <b>2014</b> , 4, 51072-51079	3.7	49
35	Modification of precursor polymer using co-polymerization: A good way to high performance electrospun carbon nanofiber bundles. <i>Materials Letters</i> , <b>2014</b> , 122, 178-181	3.3	29
34	Free-standing nitrogen-doped carbon nanotubes at electrospun carbon nanofibers composite as an efficient electrocatalyst for oxygen reduction. <i>Electrochimica Acta</i> , <b>2014</b> , 138, 318-324	6.7	53
33	Phosphorus-doped carbon derived from cellulose phosphate as efficient catalyst for air-cathode in microbial fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 261, 245-248	8.9	48
32	High dielectric constant polyimide derived from 5,5'-bis[(4-amino) phenoxy]-2,2'-bipyrimidine. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	17
31	Abiotic Oxygen Reduction Reaction Catalysts Used in Microbial Fuel Cells. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1813-1821	4.3	96
30	Electrocatalytic activity of carbon nanoparticles from diffusion flame towards oxygen reduction. <i>Electrochimica Acta</i> , <b>2014</b> , 136, 176-181	6.7	8
29	Three-dimensional cross-linked carbon network wrapped with ordered polyaniline nanowires for high-performance pseudo-supercapacitors. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 451-458	8.9	55
28	Electrochemical sensing and biosensing platform based on biomass-derived macroporous carbon materials. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1414-21	7.8	172
27	Three-Dimensional Kenaf Stem-Derived Porous Carbon/MnO <sub>2</sub> for High-Performance Supercapacitors. <i>Electrochimica Acta</i> , <b>2014</b> , 135, 380-387	6.7	61
26	Carbon nanofibers modified graphite felt for high performance anode in high substrate concentration microbial fuel cells. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 130185	2.2	10
25	Binder-free activated carbon papers for high-performance electric double-layer capacitors. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 2797-2802	2.6	6
24	Highly strong and highly tough electrospun polyimide/polyimide composite nanofibers from binary blend of polyamic acids. <i>RSC Advances</i> , <b>2014</b> , 4, 59936-59942	3.7	39
23	Electrospun Fibrous Membranes as Separators of Lithium-Ion Batteries. <i>Nanostructure Science and Technology</i> , <b>2014</b> , 91-110	0.9	3
22	Elastic carbon foam via direct carbonization of polymer foam for flexible electrodes and organic chemical absorption. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2435	35.4	229
21	Supercapacitors based on 3D network of activated carbon nanowhiskers wrapped-on graphitized electrospun nanofibers. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 880-886	8.9	47
20	Electrospinning Technology for Applications in Supercapacitors. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 1402-1410	1.7	16
19	Stainless steel mesh supported nitrogen-doped carbon nanofibers for binder-free cathode in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 34, 282-5	11.8	51

18	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> , <b>2012</b> , 22, 18609		90
17	Layered corrugated electrode macrostructures boost microbial bioelectrocatalysis. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9769	35.4	158
16	Needle-like polyaniline nanowires on graphite nanofibers: hierarchical micro/nano-architecture for high performance supercapacitors. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5114		158
15	A three-dimensionally ordered macroporous carbon derived from a natural resource as anode for microbial bioelectrochemical systems. <i>ChemSusChem</i> , <b>2012</b> , 5, 1059-63	8.3	114
14	Fabrication and evaluation of polyamide 6 composites with electrospun polyimide nanofibers as skeletal framework. <i>Composites Part B: Engineering</i> , <b>2012</b> , 43, 2382-2388	10	40
13	Electrospun carbon fiber mat with layered architecture for anode in microbial fuel cells. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 1026-1029	5.1	69
12	Effect of fiber diameter on the behavior of biofilm and anodic performance of fiber electrodes in microbial fuel cells. <i>Bioresource Technology</i> , <b>2011</b> , 102, 10763-6	11	57
11	Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1417	35.4	268
10	High strength electrospun fibers. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 295-303	3.2	23
9	Heat and Solvent Resistant Electrospun Polybenzoxazole Nanofibers from Methoxy-Containing Polyamide. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-5	3.2	12
8	Polymeric Nanosprings by Bicomponent Electrospinning. <i>Macromolecular Materials and Engineering</i> , <b>2009</b> , 294, 265-271	3.9	57
7	Effect of Different Bicomponent Electrospinning Techniques on the Formation of Polymeric Nanosprings. <i>Macromolecular Materials and Engineering</i> , <b>2009</b> , 294, 781-786	3.9	40
6	Supercapacitors based on hybrid carbon nanofibers containing multiwalled carbon nanotubes. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2810		164
5	Mechanical characterization of single high-strength electrospun polyimide nanofibres. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 025308	3	53
4	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , <b>2008</b> , 19, 015604	3.4	46
3	High-Strength Mats from Electrospun Poly(p-Phenylene Biphenyltetracarboximide) Nanofibers. <i>Advanced Materials</i> , <b>2006</b> , 18, 668-671	24	139
2	High strength electrospun polymer nanofibers made from BPDABDA polyimide. <i>European Polymer Journal</i> , <b>2006</b> , 42, 1099-1104	5.2	48
1	Electrospun polymer nanofibres with small diameters. <i>Nanotechnology</i> , <b>2006</b> , 17, 1558-63	3.4	212

