

# Xiaojun Pan

## List of Publications by Year in descending order

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43  
papers

2,032  
citations

218677

26  
h-index

254184

43  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction of all-carbon micro/nanoscale interconnected sulfur host for high-rate and ultra-stable lithium-sulfur batteries: Role of oxygen-containing functional groups. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 459-469.	9.4	13
2	Fast response and high sensitive photoelectrochemical ultraviolet detectors based on electrospinning SrTiO <sub>3</sub> nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	8
3	Surface strain-enhanced MoS <sub>2</sub> as a high-performance cathode catalyst for lithium-sulfur batteries. <i>EScience</i> , 2022, 2, 405-415.	41.6	70
4	Cobalt sulfide embedded carbon nanofibers as a self-supporting template to improve lithium ion battery performances. <i>Electrochimica Acta</i> , 2021, 366, 137351.	5.2	29
5	Dissymmetric interface design of SnO <sub>2</sub> /TiO <sub>2</sub> side-by-side bi-component nanofibers as photoanodes for dye sensitized solar cells: Facilitated electron transport and enhanced carrier separation. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 24-32.	9.4	21
6	Design of highly ordered hierarchical catalytic nanostructures as high-flexibility counter electrodes for fiber-shaped dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	7
7	Improved lithium-ion battery performance by introducing oxygen-containing functional groups by plasma treatment. <i>Nanotechnology</i> , 2021, 32, 275401.	2.6	5
8	Full near-ultraviolet response photoelectrochemical ultraviolet detector based on TiO <sub>2</sub> nanocrystalline coated stainless steel mesh photoanode. <i>Nanotechnology</i> , 2021, 32, 475503.	2.6	4
9	High-sensitivity photoelectrochemical visible-blind ultraviolet detector using SrTiO <sub>3</sub> nanocrystalline for weak irradiation. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 095104.	2.8	14
10	Role of nickel dopant on gas response and selectivity of electrospun indium oxide nanotubes. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 447-457.	9.4	37
11	Decoration of ultrathin porous zeolitic imidazolate frameworks on zinc-cobalt layered double hydroxide nanosheet arrays for ultrahigh-performance supercapacitors. <i>Journal of Power Sources</i> , 2020, 450, 227689.	7.8	19
12	Cooperative chemisorption of polysulfides via 2D hexagonal WS <sub>2</sub> -rimmed Co <sub>9</sub> S <sub>8</sub> heterostructures for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 392, 123734.	12.7	45
13	Highly enhanced electrochemical cycling stabilities of hierarchical partially-embedded MnO/carbon nanofiber composites as supercapacitor electrodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114684.	3.5	10
14	Ultrastable lithium-sulfur batteries with outstanding rate capability boosted by NiAs-type vanadium sulfides. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18358-18366.	10.3	26
15	Investigation into performance enhancements of Li-S batteries via oxygen-containing functional groups on activated multi-walled carbon nanotubes using Fourier transform infrared spectroscopy. <i>Current Applied Physics</i> , 2020, 20, 1049-1057.	2.4	5
16	Facile Fabrication of Flexible Graphene-Based Micro-Supercapacitors with Ultra-High Areal Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 8415-8422.	5.1	11
17	Impact of PSBpin Content on the Electrochemical Properties of PTMA-PSBpin Copolymer Cathodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 9296-9304.	5.1	5
18	Ni/Au bimetal decorated In <sub>2</sub> O <sub>3</sub> nanotubes for ultra-sensitive ethanol detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127938.	7.8	45

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19	W-doped NiO as a material for selective resistive ethanol sensors. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127668.	7.8	45
20	Versatile electrochemical activation strategy for high-performance supercapacitor in a model of MnO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 21290-21298.	10.3	52
21	Perylenetetracarboxylic diimide as a high-rate anode for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24454-24461.	10.3	55
22	One-pot sulfur-containing ion assisted microwave synthesis of reduced graphene oxide@nano-sulfur fibrous hybrids for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2019, 325, 134920.	5.2	24
23	Ammonia-assisted thermal activation of graphene-embellished biological fiber for flexible supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 785, 944-950.	5.5	10
24	Facile synthesis of interconnected carbon network decorated with Co <sub>3</sub> O <sub>4</sub> nanoparticles for potential supercapacitor applications. <i>Applied Surface Science</i> , 2019, 487, 442-451.	6.1	58
25	Two-dimensional hexagonal boron-carbon-nitrogen atomic layers. <i>Nanoscale</i> , 2019, 11, 10454-10462.	5.6	34
26	Design of NiCo <sub>2</sub> O <sub>4</sub> @SnO <sub>2</sub> heterostructure nanofiber and their low temperature ethanol sensing properties. <i>Journal of Alloys and Compounds</i> , 2019, 791, 1025-1032.	5.5	45
27	Nature of improved double-layer capacitance by KOH activation on carbon nanotube-carbon nanofiber hierarchical hybrids. <i>Carbon</i> , 2019, 146, 610-617.	10.3	45
28	Gas sensing enhancing mechanism via doping-induced oxygen vacancies for gas sensors based on indium tin oxide nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 273-284.	7.8	77
29	Interface/defect-tuneable macro and micro photoluminescence behaviours of trivalent europium ions in electrospun ZrO <sub>2</sub> /ZnO porous nanobelts. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9223-9231.	2.8	16
30	Carbon nanotube/hematite core/shell nanowires on carbon cloth for supercapacitor anode with ultrahigh specific capacitance and superb cycling stability. <i>Chemical Engineering Journal</i> , 2017, 325, 221-228.	12.7	48
31	Energy storage mechanism in aqueous fiber-shaped Li-ion capacitors based on aligned hydrogenated-Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanowires. <i>Nanoscale</i> , 2017, 9, 8192-8199.	5.6	26
32	Robust wire-based supercapacitors based on hierarchical $\text{H}_2\text{MoO}_4$ nanosheet arrays with well-aligned laminated structure. <i>Chemical Engineering Journal</i> , 2017, 320, 34-42.	12.7	41
33	In situ synthesis of CoS <sub>x</sub> @carbon core-shell nanospheres decorated in carbon nanofibers for capacitor electrodes with superior rate and cycling performances. <i>Carbon</i> , 2017, 114, 187-197.	10.3	120
34	Constructing optimized three-dimensional electrochemical interface in carbon nanofiber/carbon nanotube hierarchical composites for high-energy-density supercapacitors. <i>Carbon</i> , 2017, 111, 502-512.	10.3	47
35	Construction of Hierarchical CNT/rGO-Supported MnMoO <sub>4</sub> Nanosheets on Ni Foam for High-Performance Aqueous Hybrid Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35775-35784.	8.0	73
36	An overview on emerging photoelectrochemical self-powered ultraviolet photodetectors. <i>Nanoscale</i> , 2016, 8, 50-73.	5.6	179

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37	A photoelectrochemical type self-powered ultraviolet photodetector based on GaN porous films. <i>Materials Letters</i> , 2016, 162, 117-120.	2.6	32
38	Importance of polypyrrole in constructing 3D hierarchical carbon nanotube@MnO <sub>2</sub> perfect core-shell nanostructures for high-performance flexible supercapacitors. <i>Nanoscale</i> , 2015, 7, 14697-14706.	5.6	87
39	Highly Flexible Freestanding Porous Carbon Nanofibers for Electrodes Materials of High-Performance All-Carbon Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23515-23520.	8.0	240
40	Cooperative effect of hierarchical carbon nanotube arrays as facilitated transport channels for high-performance wire-based supercapacitors. <i>Carbon</i> , 2015, 95, 746-755.	10.3	26
41	Facilitated charge transport in ternary interconnected electrodes for flexible supercapacitors with excellent power characteristics. <i>Nanoscale</i> , 2013, 5, 11733.	5.6	62
42	Wire-in-tube structure fabricated by single capillary electrospinning via nanoscale Kirkendall effect: the case of nickel-zinc ferrite. <i>Nanoscale</i> , 2013, 5, 12551.	5.6	46
43	Nanocrystalline TiO <sub>2</sub> film based photoelectrochemical cell as self-powered UV-photodetector. <i>Nano Energy</i> , 2012, 1, 640-645.	16.0	170