

Shaohui Xu

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.

52 papers	671 citations	15 h-index	24 g-index
66 ext. papers	799 ext. citations	5.9 avg, IF	3.64 L-index

#	Paper	IF	Citations
52	Stable static zinc-iodine redox battery constructed with graphene quantum dots coated graphite felt. <i>Journal of Power Sources</i> , 2022 , 520, 230861	8.9	0
51	Highly active cobalt-doped nickel sulfide porous nanocones for high-performance quasi-solid-state zinc-ion batteries. <i>Journal of Energy Chemistry</i> , 2022 , 66, 237-249	12	3
50	Plasma Engineering of Basal Sulfur Sites on MoS ₂ @Ni S Nanorods for the Alkaline Hydrogen Evolution Reaction.. <i>Advanced Science</i> , 2021 , e2104774	13.6	5
49	NiS Nanocomposite Structures Doped with Zn and Co as Long-Lifetime, High-Energy-Density, and Binder-Free Cathodes in Flexible Aqueous Nickel-Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34292-34300	9.5	7
48	3D urchin-like NiCo ₂ O ₄ coated with carbon nanospheres prepared on flexible graphite felt for efficient bifunctional electrocatalytic water splitting. <i>Journal of Materials Science</i> , 2021 , 56, 9961-9973	4.3	4
47	Porous manganese dioxide nanosheets on modified graphite felt for cathodes in high-capacity flexible Zinc-MnO ₂ batteries. <i>Vacuum</i> , 2021 , 191, 110353	3.7	3
46	Co-doped Ni ₃ S ₂ porous nanocones as high-performance bifunctional electrocatalysts in water splitting. <i>Chemical Engineering Journal</i> , 2021 , 425, 130455	14.7	12
45	A novel self-branching MnCo ₂ O ₄ / nanographene hybrid composites on macroporous electrically conductive network as bifunctional electrodes for boosting miniature supercapacitors and sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 846, 155720	5.7	7
44	Analysis of defect states in optical microcavities based on the photonic quantum well structure. <i>Optics Communications</i> , 2020 , 458, 124880	2	1
43	Hierarchical binder-free MnO ₂ /TiO ₂ composite nanostructure on flexible seed graphite felt for high-performance supercapacitors. <i>Vacuum</i> , 2020 , 181, 109648	3.7	13
42	Electrocatalytic hydrogen evolution of palladium nanoparticles electrodeposited on nanographene coated macroporous electrically conductive network. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2171-2183	6.7	9
41	Highly efficient field emission from indium-doped ZnO nanostructure on nanographene/macroporous electric conductive network. <i>Materials Letters</i> , 2018 , 222, 25-28	3.3	11
40	Zinc Electrodeposition on Polycrystalline Copper: Electrochemical Study of Early-Stage Growth Mechanism. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3938-3946	3.8	11
39	Three-dimensional tetra-subo-like Co(OH) ₂ nanorods on a macroporous electrically conductive network as an efficient electroactive framework for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2629-2639	13	28
38	Three-dimensional CoMoO ₄ nanorods/nanographene composites on a Ni coated macroporous electrically conductive network with excellent electrochemical performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017 , 226, 177-187	3.1	6
37	Preparation of SnO ₂ Nanoparticles Doped With Palladium and Graphene and Application for Ethanol Detection. <i>IEEE Sensors Journal</i> , 2017 , 17, 6240-6245	4	3
36	Highly efficient field emission from ZnO nanorods and nanographene hybrids on a macroporous electric conductive network. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9296-9305	7.1	10

35	Manganese molybdate nanoflakes on silicon microchannel plates as novel nano energetic material. <i>Royal Society Open Science</i> , 2017 , 4, 171229	3.3	3
34	Fabrication and enhanced supercapitance of hollow nanostructured MoS ₂ prepared by a CATB-assisted hydrothermal process. <i>Materials Letters</i> , 2016 , 184, 96-99	3.3	10
33	Nitrogen-doped multilayered nanographene derived from Ni ₃ C with efficient electron field emission. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9251-9260	7.1	7
32	Study on the strain in a silicon microchannel plate by micro-Raman analysis. <i>Semiconductor Science and Technology</i> , 2016 , 31, 055010	1.8	
31	Three-dimensional homo-nanostructured MnO ₂ /nanographene membranes on a macroporous electrically conductive network for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11317-11329	13	22
30	Preparation of multi-layer graphene on nickel-coated silicon microchannel plates by a hydrothermal carbonization procedure and its improved field emission properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2079-2087	7.1	19
29	Hybrid Co(OH) ₂ /nano-graphene/Ni nano-composites on silicon microchannel plates for miniature supercapacitors. <i>Materials Letters</i> , 2016 , 172, 40-43	3.3	15
28	Electrochemical analysis of interface adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , 2016 , 194, 253-262	6.7	3
27	Electrochemical characteristics of nano-graphene on a macroporous electrically conductive network prepared by hydrothermal carbonization. <i>Electrochimica Acta</i> , 2016 , 215, 515-524	6.7	5
26	Hybrid MnO ₂ /C nano-composites on a macroporous electrically conductive network for supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16695-16707	13	35
25	Hierarchical 3-dimensional CoMoO ₄ nanoflakes on a macroporous electrically conductive network with superior electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13776-13785	13	51
24	Electrochemical investigation of the corrosion properties of three-dimensional nickel electrodes on silicon microchannel plates. <i>Corrosion Science</i> , 2015 , 100, 113-120	6.8	6
23	Electronic double layer supercapacitor based on three-dimensional silicon microchannel plates in organic electrolyte. <i>Materials Research Innovations</i> , 2015 , 19, 303-309	1.9	4
22	Heterostructured Ni(OH) ₂ /Co(OH) ₂ composites on 3D ordered Ni ₃ Co nanoparticles fabricated on microchannel plates for advanced miniature supercapacitor. <i>Journal of Alloys and Compounds</i> , 2014 , 589, 364-371	5.7	32
21	Passband and defective bands in photonic and quasi-crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 664	1.7	3
20	Photonic quantum well composed of photonic crystal and quasicrystal. <i>Optics Communications</i> , 2014 , 313, 369-374	2	3
19	Asymmetrical Supercapacitor Composed of Thin Co(OH) ₂ Nanoflakes on Three-Dimensional Ni/Si Microchannel Plates with Superior Electrochemical Performance. <i>Electrochimica Acta</i> , 2014 , 149, 18-27	6.7	25
18	Modeling and Optimization of Thermoelements by a Combined Analytical and Numerical Method. <i>Journal of Electronic Materials</i> , 2014 , 43, 404-413	1.9	1

17	Impedance study of adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , 2014 , 132, 165-171	6.7	5
16	Electrodeposition of nanostructured MnO ₂ electrode on three-dimensional nickel/silicon microchannel plates for miniature supercapacitors. <i>Materials Letters</i> , 2014 , 126, 116-118	3.3	15
15	Three-dimensional nanoscale Co ₃ O ₄ electrode on ordered Ni/Si microchannel plates for electrochemical supercapacitors. <i>Materials Letters</i> , 2014 , 132, 405-408	3.3	11
14	Anode properties and morphology evolution of three-dimensional lithium-ion battery electrodes comprising Ni-coated Si microchannel plates. <i>Journal of Alloys and Compounds</i> , 2013 , 563, 186-191	5.7	9
13	Electrochemical analysis of nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , 2013 , 90, 344-349	6.7	12
12	Ni-coated Si microchannel plate electrodes in three-dimensional lithium-ion battery anodes. <i>Electrochimica Acta</i> , 2013 , 87, 250-255	6.7	35
11	Electrochemically-deposited nanostructured Co(OH) ₂ flakes on three-dimensional ordered nickel/silicon microchannel plates for miniature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 532-540	13	68
10	Novel thermoelectric materials based on boron-doped silicon microchannel plates. <i>Materials Letters</i> , 2011 , 65, 1618-1620	3.3	6
9	Thermoelectric-Generator-Based DCDC Conversion Networks for Automotive Applications. <i>Journal of Electronic Materials</i> , 2011 , 40, 1136-1143	1.9	17
8	Fabrication and Characterization of Silicon Microchannel Plates as Temperature-Sensing Materials. <i>Journal of Electronic Materials</i> , 2011 , 40, 2363-2367	1.9	1
7	Miniature supercapacitors composed of nickel/cobalt hydroxide on nickel-coated silicon microchannel plates. <i>Journal of Materials Chemistry</i> , 2011 , 21, 19093		35
6	Peltier effect in doped silicon microchannel plates. <i>Journal of Semiconductors</i> , 2011 , 32, 122003	2.3	
5	The improvement of electrochemical etching process for silicon microchannel plates 2009 ,		1
4	Silver-coated silicon nano-particles prepared by thermal decomposition. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 4080-4083	5.3	3
3	Investigation of the formation of undercut during the fabrication of silicon microchannels by electrochemical etching 2008 ,		1
2	Obtaining a high area ratio free-standing silicon microchannel plate via a modified electrochemical procedure. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 037003	2	38
1	1D partially oxidized porous silicon photonic crystal reflector for mid-infrared application. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 4482-4484	3	33