Shaohui Xu

List of Publications by Citations

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

#	Paper	IF	Citations
52	Electrochemically-deposited nanostructured Co(OH)2 flakes on three-dimensional ordered nickel/silicon microchannel plates for miniature supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 532-540	13	68
51	Hierarchical 3-dimensional CoMoO4 nanoflakes on a macroporous electrically conductive network with superior electrochemical performance. *Journal of Materials Chemistry A*, **2015**, 3, 13776-13785	13	51
50	Obtaining a high area ratio free-standing silicon microchannel plate via a modified electrochemical procedure. *Journal of Micromechanics and Microengineering*, **2008**, 18, 037003	2	38
49	Hybrid MnO2/C nano-composites on a macroporous electrically conductive network for supercapacitor electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 16695-16707	13	35
48	Ni-coated Si microchannel plate electrodes in three-dimensional lithium-ion battery anodes. *Electrochimica Acta*, **2013**, 87, 250-255	6.7	35
47	Miniature supercapacitors composed of nickel/cobalt hydroxide on nickel-coated silicon microchannel plates. *Journal of Materials Chemistry*, **2011**, 21, 19093		35
46	1D partially oxidized porous silicon photonic crystal reflector for mid-infrared application. *Journal Physics D: Applied Physics*, **2007**, 40, 4482-4484	3	33
45	Heterostructured Ni(OH)2□o(OH)2 composites on 3D ordered Ni□o nanoparticles fabricated on microchannel plates for advanced miniature supercapacitor. *Journal of Alloys and Compounds*, **2014**, 589, 364-371	5.7	32
44	Three-dimensional tetsubo-like Co(OH)2 nanorods on a macroporous electrically conductive network as an efficient electroactive framework for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2017**, 5, 2629-2639	13	28
43	Asymmetrical Supercapacitor Composed of Thin Co(OH)2 Nanoflakes on Three-Dimensional Ni/Si Microchannel Plates with Superior Electrochemical Performance. *Electrochimica Acta*, **2014**, 149, 18-27	6.7	25
42	Three-dimensional homo-nanostructured MnO2/nanographene membranes on a macroporous electrically conductive network for high performance supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 11317-11329	13	22
41	Preparation of multi-layer graphene on nickel-coated silicon microchannel plates by a hydrothermal carbonization procedure and its improved field emission properties. *Journal of Materials Chemistry C*, **2016**, 4, 2079-2087	7.1	19
40	Thermoelectric-Generator-Based DC□DC Conversion Networks for Automotive Applications. *Journal of Electronic Materials*, **2011**, 40, 1136-1143	1.9	17
39	Hybrid Co(OH)2/nano-graphene/Ni nano-composites on silicon microchannel plates for miniature supercapacitors. *Materials Letters*, **2016**, 172, 40-43	3.3	15
38	Electrodeposition of nanostructured MnO2 electrode on three-dimensional nickel/silicon microchannel plates for miniature supercapacitors. *Materials Letters*, **2014**, 126, 116-118	3.3	15
37	Hierarchical binder-free MnO2/TiO2 composite nanostructure on flexible seed graphite felt for high-performance supercapacitors. *Vacuum*, **2020**, 181, 109648	3.7	13
36	Electrochemical analysis of nickel electrode deposited on silicon microchannel plate. *Electrochimica Acta*, **2013**, 90, 344-349	6.7	12

35	Co-doped Ni3S2 porous nanocones as high-performance bifunctional electrocatalysts in water splitting. *Chemical Engineering Journal*, **2021**, 425, 130455	14.7	12
34	Zinc Electrodeposition on Polycrystalline Copper: Electrochemical Study of Early-Stage Growth Mechanism. *Journal of Physical Chemistry C*, **2017**, 121, 3938-3946	3.8	11
33	Highly efficient field emission from indium-doped ZnO nanostructure on nanographene/macroporous electric conductive network. *Materials Letters*, **2018**, 222, 25-28	3.3	11
32	Three-dimensional nanoscale Co3O4 electrode on ordered Ni/Si microchannel plates for electrochemical supercapacitors. *Materials Letters*, **2014**, 132, 405-408	3.3	11
31	Fabrication and enhanced supercapacitance of hollow nanostructured MoS2 prepared by a CATB-assisted hydrothermal process. *Materials Letters*, **2016**, 184, 96-99	3.3	10
30	Highly efficient field emission from ZnO nanorods and nanographene hybrids on a macroporous electric conductive network. *Journal of Materials Chemistry C*, **2017**, 5, 9296-9305	7.1	10
29	Electrocatalytic hydrogen evolution of palladium nanoparticles electrodeposited on nanographene coated macroporous electrically conductive network. *International Journal of Hydrogen Energy*, **2018**, 43, 2171-2183	6.7	9
28	Anode properties and morphology evolution of three-dimensional lithium-ion battery electrodes comprising Ni-coated Si microchannel plates. *Journal of Alloys and Compounds*, **2013**, 563, 186-191	5.7	9
27	Nitrogen-doped multilayered nanographene derived from Ni3C with efficient electron field emission. *Journal of Materials Chemistry C*, **2016**, 4, 9251-9260	7.1	7
26	A novel self-branching MnCo2O4/ nanographene hybrid composites on macroporous electrically conductive network as bifunctional electrodes for boosting miniature supercapacitors and sodium ion batteries. *Journal of Alloys and Compounds*, **2020**, 846, 155720	5.7	7
25	NiS Nanocomposite Structures Doped with Zn and Co as Long-Lifetime, High-Energy-Density, and Binder-Free Cathodes in Flexible Aqueous Nickel-Zinc Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 34292-34300	9.5	7
24	Three-dimensional CoMoO4 nanorods/nanographene composites on a Ni coated macroporous electrically conductive network with excellent electrochemical performance. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2017**, 226, 177-187	3.1	6
23	Electrochemical investigation of the corrosion properties of three-dimensional nickel electrodes on silicon microchannel plates. *Corrosion Science*, **2015**, 100, 113-120	6.8	6
22	Novel thermoelectric materials based on boron-doped silicon microchannel plates. *Materials Letters* , **2011**, 65, 1618-1620	3.3	6
21	Impedance study of adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. *Electrochimica Acta*, **2014**, 132, 165-171	6.7	5
20	Plasma Engineering of Basal Sulfur Sites on MoS @Ni S Nanorods for the Alkaline Hydrogen Evolution Reaction.. *Advanced Science*, **2021**, e2104774	13.6	5
19	Electrochemical characteristics of nano-graphene on a macroporous electrically conductive network prepared by hydrothermal carbonization. *Electrochimica Acta*, **2016**, 215, 515-524	6.7	5
18	Electronic double layer supercapacitor based on three-dimensional silicon microchannel plates in organic electrolyte. *Materials Research Innovations*, **2015**, 19, 303-309	1.9	4

17	3D urchin-like NiCo2O4 coated with carbon nanospheres prepared on flexible graphite felt for efficient bifunctional electrocatalytic water splitting. *Journal of Materials Science*, **2021**, 56, 9961-9973	4.3	4
16	Preparation of SnO2 Nanoparticles Doped With Palladium and Graphene and Application for Ethanol Detection. *IEEE Sensors Journal*, **2017**, 17, 6240-6245	4	3
15	Passband and defective bands in photonic and quasi-crystals. *Journal of the Optical Society of America B: Optical Physics*, **2014**, 31, 664	1.7	3
14	Photonic quantum well composed of photonic crystal and quasicrystal. *Optics Communications*, **2014**, 313, 369-374	2	3
13	Manganese molybdate nanoflakes on silicon microchannel plates as novel nano energetic material. *Royal Society Open Science*, **2017**, 4, 171229	3.3	3
12	Silver-coated silicon nano-particles prepared by thermal decomposition. *Journal of Materials Processing Technology*, **2009**, 209, 4080-4083	5.3	3
11	Electrochemical analysis of interface adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. *Electrochimica Acta*, **2016**, 194, 253-262	6.7	3
10	Porous manganese dioxide nanosheets on modified graphite felt for cathodes in high-capacity flexible Zinc-MnO2 batteries. *Vacuum*, **2021**, 191, 110353	3.7	3
9	Highly active cobalt-doped nickel sulfide porous nanocones for high-performance quasi-solid-state zinc-ion batteries. *Journal of Energy Chemistry*, **2022**, 66, 237-249	12	3
8	Modeling and Optimization of Thermoelements by a Combined Analytical and Numerical Method. *Journal of Electronic Materials*, **2014**, 43, 404-413	1.9	1
7	Fabrication and Characterization of Silicon Microchannel Plates as Temperature-Sensing Materials. *Journal of Electronic Materials*, **2011**, 40, 2363-2367	1.9	1
6	The improvement of electrochemical etching process for silicon microchannel plates **2009**,		1
5	Investigation of the formation of undercut during the fabrication of silicon microchannels by electrochemical etching **2008**,		1
4	Analysis of defect states in optical microcavities based on the photonic quantum well structure. *Optics Communications*, **2020**, 458, 124880	2	1
3	Stable static zinc-iodine redox battery constructed with graphene quantum dots coated graphite felt. *Journal of Power Sources*, **2022**, 520, 230861	8.9	0
2	Study on the strain in a silicon microchannel plate by micro-Raman analysis. *Semiconductor Science and Technology*, **2016**, 31, 055010	1.8	
1	Peltier effect in doped silicon microchannel plates. *Journal of Semiconductors*, **2011**, 32, 122003	2.3	