

Guan Cao

List of Publications by Citations

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Version: 2024-04-26

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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.

50
papers

5,661
citations

33
h-index

53
g-index

53
ext. papers

6,603
ext. citations

11.3
avg, IF

6.12
L-index

#	Paper	IF	Citations
50	Rational Design of Metal-Organic Framework Derived Hollow NiCo ₂ O ₄ Arrays for Flexible Supercapacitor and Electrocatalysis. <i>Advanced Energy Materials</i> , 2017 , 7, 1602391	21.8	650
49	Iron oxide-decorated carbon for supercapacitor anodes with ultrahigh energy density and outstanding cycling stability. <i>ACS Nano</i> , 2015 , 9, 5198-207	16.7	375
48	Ultrathin MoS ₂ Nanosheets@Metal Organic Framework-Derived N-Doped Carbon Nanowall Arrays as Sodium Ion Battery Anode with Superior Cycling Life and Rate Capability. <i>Advanced Functional Materials</i> , 2017 , 27, 1702116	15.6	373
47	A Flexible Quasi-Solid-State Nickel-Zinc Battery with High Energy and Power Densities Based on 3D Electrode Design. <i>Advanced Materials</i> , 2016 , 28, 8732-8739	24	367
46	Hollow Co O Nanosphere Embedded in Carbon Arrays for Stable and Flexible Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1704117	24	325
45	Single Co Atoms Anchored in Porous N-Doped Carbon for Efficient Zinc-Air Battery Cathodes. <i>ACS Catalysis</i> , 2018 , 8, 8961-8969	13.1	250
44	High-Performance Flexible Solid-State Ni/Fe Battery Consisting of Metal Oxides Coated Carbon Cloth/Carbon Nanofiber Electrodes. <i>Advanced Energy Materials</i> , 2016 , 6, 1601034	21.8	213
43	Cactus-Like NiCoP/NiCo-OH 3D Architecture with Tunable Composition for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1800036	15.6	206
42	Metal Phosphides and Phosphates-based Electrodes for Electrochemical Supercapacitors. <i>Small</i> , 2017 , 13, 1701530	11	197
41	Metal-organic framework derived hollow CoS nanotube arrays: an efficient bifunctional electrocatalyst for overall water splitting. <i>Nanoscale Horizons</i> , 2017 , 2, 342-348	10.8	189
40	Cobalt oxide and N-doped carbon nanosheets derived from a single two-dimensional metal-organic framework precursor and their application in flexible asymmetric supercapacitors. <i>Nanoscale Horizons</i> , 2017 , 2, 99-105	10.8	183
39	Rational Design of Self-Supported NiS Nanosheets Array for Advanced Asymmetric Supercapacitor with a Superior Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 496-504	9.5	176
38	Surface-Charge-Mediated Formation of H-TiO @Ni(OH) Heterostructures for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1604164	24	169
37	Controllable MnCo ₂ S ₄ nanostructures for high performance hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7494-7506	13	157
36	3D-Printed MOF-Derived Hierarchically Porous Frameworks for Practical High-Energy Density LiO ₂ Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806658	15.6	138
35	Flexible Asymmetric Supercapacitor Based on Structure-Optimized Mn ₃ O ₄ /Reduced Graphene Oxide Nanohybrid Paper with High Energy and Power Density. <i>Advanced Functional Materials</i> , 2015 , 25, 7291-7299	15.6	137
34	Rational Construction of Hollow Core-Branch CoSe Nanoarrays for High-Performance Asymmetric Supercapacitor and Efficient Oxygen Evolution. <i>Small</i> , 2018 , 14, 1700979	11	130

33	Ni-Doped Cobalt/Cobalt Nitride Heterostructure Arrays for High-Power Supercapacitors. <i>ACS Energy Letters</i> , 2018 , 3, 2462-2469	20.1	129
32	Integrated Hierarchical Carbon Flake Arrays with Hollow P-Doped CoSe ₂ Nanoclusters as an Advanced Bifunctional Catalyst for Zn/Air Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1804846	15.6	126
31	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23283-23288	13	82
30	Energy-Saving Synthesis of MOF-Derived Hierarchical and Hollow Co(VO)-Co(OH) Composite Leaf Arrays for Supercapacitor Electrode Materials. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18440-18444	9.5	78
29	Hybrid Fe ₂ O ₃ Nanoparticle Clusters/rGO Paper as an Effective Negative Electrode for Flexible Supercapacitors. <i>Chemistry of Materials</i> , 2016 , 28, 7296-7303	9.6	77
28	Ultrafine Molybdenum Carbide Nanocrystals Confined in Carbon Foams via a Colloid-Confinement Route for Efficient Hydrogen Production. <i>Small Methods</i> , 2018 , 2, 1700396	12.8	69
27	Atomic layer deposition of Co ₃ O ₄ on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. <i>Nanotechnology</i> , 2015 , 26, 094001	3.4	66
26	2D Metal-Organic Frameworks Derived Nanocarbon Arrays for Substrate Enhancement in Flexible Supercapacitors. <i>Small</i> , 2018 , 14, e1702641	11	63
25	3D TiO ₂ @Ni(OH) ₂ Core-shell Arrays with Tunable Nanostructure for Hybrid Supercapacitor Application. <i>Scientific Reports</i> , 2015 , 5, 13940	4.9	62
24	Metal-organic framework-derived integrated nanoarrays for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9009-9018	13	54
23	Nanoflakes of Ni-Co LDH and BiO Assembled in 3D Carbon Fiber Network for High-Performance Aqueous Rechargeable Ni/Bi Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26008-26015	9.5	54
22	Mitochondrial support of persistent presynaptic vesicle mobilization with age-dependent synaptic growth after LTP. <i>ELife</i> , 2016 , 5,	8.9	53
21	(Ni,Co)Se /NiCo-LDH Core/Shell Structural Electrode with the Cactus-Like (Ni,Co)Se Core for Asymmetric Supercapacitors. <i>Small</i> , 2019 , 15, e1803895	11	50
20	A novel hollowed CoO-in-CoSnO ₂ nanostructure with enhanced lithium storage capabilities. <i>Nanoscale</i> , 2014 , 6, 13824-30	7.7	43
19	Pt decorated 3D vertical graphene nanosheet arrays for efficient methanol oxidation and hydrogen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22004-22011	13	42
18	MOF-Derived Vertically Aligned Mesoporous Co ₃ O ₄ Nanowires for Ultrahigh Capacity Lithium-Ion Batteries Anodes. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800222	4.6	42
17	Microwave Assisted hydrothermal synthesis of nanocrystal Ni(OH) ₂ for supercapacitor applications. <i>CrystEngComm</i> , 2016 , 18, 3256-3264	3.3	33
16	LTP enhances synaptogenesis in the developing hippocampus. <i>Hippocampus</i> , 2016 , 26, 560-76	3.5	33

15	3D hierarchical SnO ₂ @Ni(OH) ₂ core-shell nanowire arrays on carbon cloth for energy storage application. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9538-9542	13	30
14	Confined Fe ₂ O ₃ Nanoparticles on Graphite Foam as High-Rate and Stable Lithium-Ion Battery Anode. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 487-492	3.1	29
13	Developmental regulation of the late phase of long-term potentiation (L-LTP) and metaplasticity in hippocampal area CA1 of the rat. <i>Journal of Neurophysiology</i> , 2012 , 107, 902-12	3.2	29
12	Open hollow CoPt clusters embedded in carbon nanoflake arrays for highly efficient alkaline water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20214-20223	13	29
11	The Atomic Circus: Small Electron Beams Spotlight Advanced Materials Down to the Atomic Scale. <i>Advanced Materials</i> , 2018 , 30, e1802402	24	26
10	Space-confinement and chemisorption co-involved in encapsulation of sulfur for lithium-sulfur batteries with exceptional cycling stability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24602-24611	13	23
9	Augmenting saturated LTP by broadly spaced episodes of theta-burst stimulation in hippocampal area CA1 of adult rats and mice. <i>Journal of Neurophysiology</i> , 2014 , 112, 1916-24	3.2	20
8	Atomic-layer-deposition alumina induced carbon on porous Ni(x)Co(1-x)O nanonets for enhanced pseudocapacitive and Li-ion storage performance. <i>Nanotechnology</i> , 2015 , 26, 014001	3.4	20
7	Shifting patterns of polyribosome accumulation at synapses over the course of hippocampal long-term potentiation. <i>Hippocampus</i> , 2018 , 28, 416-430	3.5	19
6	Structural plasticity of dendritic secretory compartments during LTP-induced synaptogenesis. <i>ELife</i> , 2019 , 8,	8.9	19
5	Phospho-oxynitride Layer Protected Cobalt Phosphonitride Nanowire Arrays for High-Rate and Stable Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 616-626	6.1	10
4	Ultrastructure of light-activated axons following optogenetic stimulation to produce late-phase long-term potentiation. <i>PLoS ONE</i> , 2020 , 15, e0226797	3.7	4
3	Author response: Mitochondrial support of persistent presynaptic vesicle mobilization with age-dependent synaptic growth after LTP 2016 ,		4
2	Developmental onset of enduring long-term potentiation in mouse hippocampus. <i>Hippocampus</i> , 2020 , 30, 1298-1312	3.5	3
1	Cover Image, Volume 28, Issue 6. <i>Hippocampus</i> , 2018 , 28, C1-C1	3.5	