

Zan Gao

List of Publications by Year in descending order

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52
papers

5,638
citations

101496
36
h-index

182361
51
g-index

52
all docs

52
docs citations

52
times ranked

7656
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Nanosheet/Ni ²⁺ /Al ³⁺ Layered Double-Hydroxide Composite as a Novel Electrode for a Supercapacitor. <i>Chemistry of Materials</i> , 2011, 23, 3509-3516.	3.2	506
2	Biomass-derived renewable carbon materials for electrochemical energy storage. <i>Materials Research Letters</i> , 2017, 5, 69-88.	4.1	402
3	Flexible all-solid-state hierarchical NiCo ₂ O ₄ /porous graphene paper asymmetric supercapacitors with an exceptional combination of electrochemical properties. <i>Nano Energy</i> , 2015, 13, 306-317.	8.2	303
4	Cotton-textile-enabled flexible self-sustaining power packs via roll-to-roll fabrication. <i>Nature Communications</i> , 2016, 7, 11586.	5.8	282
5	Green synthesis of graphene nanosheets/ZnO composites and electrochemical properties. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1421-1427.	1.4	248
6	Solvothermal One-Step Synthesis of Ni-Al Layered Double Hydroxide/Carbon Nanotube/Reduced Graphene Oxide Sheet Ternary Nanocomposite with Ultrahigh Capacitance for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5443-5454.	4.0	246
7	Targeted production of reactive oxygen species in mitochondria to overcome cancer drug resistance. <i>Nature Communications</i> , 2018, 9, 562.	5.8	242
8	Cotton-Textile-Enabled, Flexible Lithium-Ion Batteries with Enhanced Capacity and Extended Lifespan. <i>Nano Letters</i> , 2015, 15, 8194-8203.	4.5	200
9	Hydrothermal synthesis of carbon nanotube/cubic Fe ₃ O ₄ nanocomposite for enhanced performance supercapacitor electrode material. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 736-743.	1.7	179
10	Microstructural design of hybrid CoO@NiO and graphene nano-architectures for flexible high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14833-14844.	5.2	177
11	Hierarchical NiCo ₂ O ₄ @NiO core-shell hetero-structured nanowire arrays on carbon cloth for a high-performance flexible all-solid-state electrochemical capacitor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1448-1457.	5.2	154
12	High-performance supercapacitors and batteries derived from activated banana-peel with porous structures. <i>Electrochimica Acta</i> , 2016, 222, 1257-1266.	2.6	147
13	Synthesis of reduced graphene nanosheet/urchin-like manganese dioxide composite and high performance as supercapacitor electrode. <i>Electrochimica Acta</i> , 2012, 69, 112-119.	2.6	142
14	Graphene and its derivatives in lithium-sulfur batteries. <i>Materials Today Energy</i> , 2018, 9, 319-335.	2.5	138
15	Electrochemical synthesis of layer-by-layer reduced graphene oxide sheets/polyaniline nanofibers composite and its electrochemical performance. <i>Electrochimica Acta</i> , 2013, 91, 185-194.	2.6	137
16	Towards flexible lithium-sulfur battery from natural cotton textile. <i>Electrochimica Acta</i> , 2017, 246, 507-516.	2.6	137
17	Two steps in situ structure fabrication of Ni-Al layered double hydroxide on Ni foam and its electrochemical performance for supercapacitors. <i>Journal of Power Sources</i> , 2014, 246, 747-753.	4.0	134
18	Trisodium citrate assisted synthesis of hierarchical NiO nanospheres with improved supercapacitor performance. <i>Journal of Power Sources</i> , 2013, 235, 45-53.	4.0	133

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19	A New Partially Reduced Graphene Oxide Nanosheet/Polyaniline Nanowafer Hybrid as Supercapacitor Electrode Material. <i>Energy & Fuels</i> , 2013, 27, 568-575.	2.5	132
20	Ferromagnetic Nanoparticle-Assisted Polysulfide Trapping for Enhanced Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1800563.	7.8	109
21	Effects of solvent on the morphology of nanostructured Co ₃ O ₄ and its application for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2013, 112, 378-385.	2.6	107
22	Cotton textile enabled, all-solid-state flexible supercapacitors. <i>RSC Advances</i> , 2015, 5, 15438-15447.	1.7	103
23	Graphene reinforced carbon fibers. <i>Science Advances</i> , 2020, 6, eaaz4191.	4.7	87
24	Synthesis of hollow polyaniline nano-capsules and their supercapacitor application. <i>Journal of Power Sources</i> , 2014, 272, 915-921.	4.0	85
25	B ₄ C nanoskeleton enabled, flexible lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 58, 30-39.	8.2	82
26	Capillarity Compositated Recycled Paper/Graphene Scaffold for Lithium-Sulfur Batteries with Enhanced Capacity and Extended Lifespan. <i>Small</i> , 2017, 13, 1701927.	5.2	78
27	All-solid state asymmetric supercapacitor based on NiCoAl layered double hydroxide nanopetals on robust 3D graphene and modified mesoporous carbon. <i>Chemical Engineering Journal</i> , 2017, 328, 873-883.	6.6	75
28	Hydrothermal synthesis of reduced graphene sheets/Fe ₂ O ₃ nanorods composites and their enhanced electrochemical performance for supercapacitors. <i>Solid State Sciences</i> , 2013, 20, 46-53.	1.5	68
29	Synthesis and Exfoliation of Layered $\text{Co}(\text{OH})_2$ Nanosheets and Their Electrochemical Performance for Supercapacitors. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4832-4838.	1.0	68
30	Construction of superhydrophobic and superoleophilic nickel foam for separation of water and oil mixture. <i>Applied Surface Science</i> , 2014, 289, 417-424.	3.1	68
31	Carbon Nanotubes Derived from Yeast-Fermented Wheat Flour and Their Energy Storage Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11386-11396.	3.2	67
32	Converting eggs to flexible, all-solid supercapacitors. <i>Nano Energy</i> , 2019, 65, 104045.	8.2	60
33	Low-temperature carbonization of polyacrylonitrile/graphene carbon fibers: A combined ReaxFF molecular dynamics and experimental study. <i>Carbon</i> , 2021, 174, 345-356.	5.4	55
34	Controlled synthesis of Co ₃ O ₄ and Co ₃ O ₄ @MnO ₂ nanoarchitectures and their electrochemical capacitor application. <i>Journal of Alloys and Compounds</i> , 2014, 611, 171-178.	2.8	44
35	Tailoring nanocomposite interfaces with graphene to achieve high strength and toughness. <i>Science Advances</i> , 2020, 6, .	4.7	40
36	Preparation of graphene nanosheets/SnO ₂ composites by pre-reduction followed by in-situ reduction and their electrochemical performances. <i>Materials Chemistry and Physics</i> , 2013, 141, 1-8.	2.0	39

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37	Unveiling Carbon Ring Structure Formation Mechanisms in Polyacrylonitrile-Derived Carbon Fibers. ACS Applied Materials & Interfaces, 2019, 11, 42288-42297.	4.0	36
38	Enhanced and hierarchical structure algorithm for data imbalance problem in semantic extraction under massive video dataset. Multimedia Tools and Applications, 2014, 68, 641-657.	2.6	35
39	Single-step synthesis of layered double hydroxides ultrathin nanosheets. Journal of Colloid and Interface Science, 2012, 371, 15-19.	5.0	33
40	Two-step electrodeposition construction of flower-on-sheet hierarchical cobalt hydroxide nano-forest for high-capacitance supercapacitors. Dalton Transactions, 2013, 42, 15706.	1.6	31
41	Manganese dioxide core-shell nanowires in situ grown on carbon spheres for supercapacitor application. CrystEngComm, 2014, 16, 4016.	1.3	31
42	Solvothermal synthesis of Li-Al layered double hydroxides and their electrochemical performance. Materials Chemistry and Physics, 2013, 139, 395-402.	2.0	30
43	Effects of surface modification on the properties of magnetic nanoparticles/PLA composite drug carriers and in vitro controlled release study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 431, 80-86.	2.3	30
44	Human action recognition on depth dataset. Neural Computing and Applications, 2016, 27, 2047-2054.	3.2	28
45	Converting PBO fibers into carbon fibers by ultrafast carbonization. Carbon, 2020, 159, 432-442.	5.4	25
46	L-Lysine assisted synthesis of $\text{Ni}(\text{OH})_2$ hierarchical hollow microspheres and their enhanced electrochemical capacitance performance. Electrochimica Acta, 2013, 87, 880-888.	2.6	21
47	Bioinspired, Multiscale Reinforced Composites with Exceptionally High Strength and Toughness. Nano Letters, 2018, 18, 5812-5820.	4.5	21
48	Yeast-Derived Carbon Nanotube-Coated Separator for High Performance Lithium-Sulfur Batteries. Jom, 2021, 73, 2516-2524.	0.9	17
49	Partwise bag-of-words-based multi-task learning for human action recognition. Electronics Letters, 2013, 49, 803-805.	0.5	11
50	Synthesis of self-assembled layered double hydroxides/carbon composites by in situ solvothermal method and their application in capacitors. Journal of Solid State Chemistry, 2012, 196, 175-181.	1.4	10
51	Hierarchically porous MgAl mixed metal oxide synthesized by sudden decomposition of MgAl layered double hydroxide gel. New Journal of Chemistry, 2013, 37, 2128.	1.4	4
52	Multi-view and multivariate gaussian descriptor for 3D object retrieval. Multimedia Tools and Applications, 2019, 78, 555-572.	2.6	1