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	Low-temperature carbonization of polyacrylonitrile/graphene carbon fibers: A combined ReaxFF molecular dynamics and experimental study. Carbon, 2021, 174, 345-356.	5.4	55
2	Yeast-Derived Carbon Nanotube-Coated Separator for High Performance Lithium-Sulfur Batteries. Jom, 2021, 73, 2516-2524.	0.9	17
3	Converting PBO fibers into carbon fibers by ultrafast carbonization. Carbon, 2020, 159, 432-442.	5.4	25
4	Tailoring nanocomposite interfaces with graphene to achieve high strength and toughness. Science Advances, 2020, 6, .	4.7	40
5	Graphene reinforced carbon fibers. Science Advances, 2020, 6, eaaz4191.	4.7	87
6	Converting eggs to flexible, all-solid supercapacitors. Nano Energy, 2019, 65, 104045.	8.2	60
7	Unveiling Carbon Ring Structure Formation Mechanisms in Polyacrylonitrile-Derived Carbon Fibers. ACS Applied Materials & Interfaces, 2019, 11, 42288-42297.	4.0	36
8	B4C nanoskeleton enabled, flexible lithium-sulfur batteries. Nano Energy, 2019, 58, 30-39.	8.2	82
9	Multi-view and multivariate gaussian descriptor for 3D object retrieval. Multimedia Tools and Applications, 2019, 78, 555-572.	2.6	1
10	Ferromagnetic Nanoparticleâ€“Assisted Polysulfide Trapping for Enhanced Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1800563.	7.8	109
11	Targeted production of reactive oxygen species in mitochondria to overcome cancer drug resistance. Nature Communications, 2018, 9, 562.	5.8	242
12	Graphene and its derivatives in lithiumâ€“sulfur batteries. Materials Today Energy, 2018, 9, 319-335.	2.5	138
13	Carbon Nanotubes Derived from Yeast-Fermented Wheat Flour and Their Energy Storage Application. ACS Sustainable Chemistry and Engineering, 2018, 6, 11386-11396.	3.2	67
14	Bioinspired, Multiscale Reinforced Composites with Exceptionally High Strength and Toughness. Nano Letters, 2018, 18, 5812-5820.	4.5	21
15	Towards flexible lithium-sulfur battery from natural cotton textile. Electrochimica Acta, 2017, 246, 507-516.	2.6	137
16	Capillarity Composited Recycled Paper/Graphene Scaffold for Lithiumâ€“Sulfur Batteries with Enhanced Capacity and Extended Lifespan. Small, 2017, 13, 1701927.	5.2	78
17	All-solid state asymmetric supercapacitor based on NiCoAl layered double hydroxide nanopetals on robust 3D graphene and modified mesoporous carbon. Chemical Engineering Journal, 2017, 328, 873-883.	6.6	75
18	Biomass-derived renewable carbon materials for electrochemical energy storage. Materials Research Letters, 2017, 5, 69-88.	4.1	402

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19	Human action recognition on depth dataset. Neural Computing and Applications, 2016, 27, 2047-2054.	3.2	28
20	High-performance supercapacitors and batteries derived from activated banana-peel with porous structures. Electrochimica Acta, 2016, 222, 1257-1266.	2.6	147
21	Cotton-textile-enabled flexible self-sustaining power packs via roll-to-roll fabrication. Nature Communications, 2016, 7, 11586.	5.8	282
22	Microstructural design of hybrid CoO@NiO and graphene nano-architectures for flexible high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 14833-14844.	5.2	177
23	Cotton textile enabled, all-solid-state flexible supercapacitors. RSC Advances, 2015, 5, 15438-15447.	1.7	103
24	Flexible all-solid-state hierarchical NiCo2O4/porous graphene paper asymmetric supercapacitors with an exceptional combination of electrochemical properties. Nano Energy, 2015, 13, 306-317.	8.2	303
25	Cotton-Textile-Enabled, Flexible Lithium-Ion Batteries with Enhanced Capacity and Extended Lifespan. Nano Letters, 2015, 15, 8194-8203.	4.5	200
26	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
27	Two steps in situ structure fabrication of Niâ€“Al layered double hydroxide on Ni foam and its electrochemical performance for supercapacitors. Journal of Power Sources, 2014, 246, 747-753.	4.0	134
28	Controlled synthesis of Co3O4 and Co3O4@MnO2 nanoarchitectures and their electrochemical capacitor application. Journal of Alloys and Compounds, 2014, 611, 171-178.	2.8	44
29	Hierarchical NiCo₂O₄@NiO coreâ€“shell hetero-structured nanowire arrays on carbon cloth for a high-performance flexible all-solid-state electrochemical capacitor. Journal of Materials Chemistry A, 2014, 2, 1448-1457.	5.2	154
30	Construction of superhydrophobic and superoleophilic nickel foam for separation of water and oil mixture. Applied Surface Science, 2014, 289, 417-424.	3.1	68
31	Manganese dioxide coreâ€“shell nanowires in situ grown on carbon spheres for supercapacitor application. CrystEngComm, 2014, 16, 4016.	1.3	31
32	Synthesis of hollow polyaniline nano-capsules and their supercapacitor application. Journal of Power Sources, 2014, 272, 915-921.	4.0	85
33	Solvothermal synthesis of Liâ€“Al layered double hydroxides and their electrochemical performance. Materials Chemistry and Physics, 2013, 139, 395-402.	2.0	30
34	Preparation of graphene nanosheets/SnO2 composites by pre-reduction followed by in-situ reduction and their electrochemical performances. Materials Chemistry and Physics, 2013, 141, 1-8.	2.0	39
35	Hydrothermal synthesis of reduced graphene sheets/Fe2O3 nanorods composites and their enhanced electrochemical performance for supercapacitors. Solid State Sciences, 2013, 20, 46-53.	1.5	68
36	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

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37	A New Partially Reduced Graphene Oxide Nanosheet/Polyaniline Nanowafer Hybrid as Supercapacitor Electrode Material. Energy & Fuels, 2013, 27, 568-575.	2.5	132
38	Electrochemical synthesis of layer-by-layer reduced graphene oxide sheets/polyaniline nanofibers composite and its electrochemical performance. Electrochimica Acta, 2013, 91, 185-194.	2.6	137
39	Trisodium citrate assisted synthesis of hierarchical NiO nanospheres with improved supercapacitor performance. Journal of Power Sources, 2013, 235, 45-53.	4.0	133
40	Effects of solvent on the morphology of nanostructured Co3O4 and its application for high-performance supercapacitors. Electrochimica Acta, 2013, 112, 378-385.	2.6	107
41	l-Lysine assisted synthesis of Î²-Ni(OH)2 hierarchical hollow microspheres and their enhanced electrochemical capacitance performance. Electrochimica Acta, 2013, 87, 880-888.	2.6	21
42	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
43	Hydrothermal synthesis of carbon nanotube/cubic Fe3O4 nanocomposite for enhanced performance supercapacitor electrode material. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 736-743.	1.7	179
44	Solvothermal One-Step Synthesis of Niâ€“Al Layered Double Hydroxide/Carbon Nanotube/Reduced Graphene Oxide Sheet Ternary Nanocomposite with Ultrahigh Capacitance for Supercapacitors. ACS Applied Materials & Interfaces, 2013, 5, 5443-5454.	4.0	246
45	Partwise bagâ€ofâ€wordsâ€based multiâ€task learning for human action recognition. Electronics Letters, 2013, 49, 803-805.	0.5	11
46	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
47	Synthesis and Exfoliation of Layered Î±â€Co(OH)₂ Nanosheets and Their Electrochemical Performance for Supercapacitors. European Journal of Inorganic Chemistry, 2013, 2013, 4832-4838.	1.0	68
48	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
49	Single-step synthesis of layered double hydroxides ultrathin nanosheets. Journal of Colloid and Interface Science, 2012, 371, 15-19.	5.0	33
50	Synthesis of reduced graphene nanosheet/urchin-like manganese dioxide composite and high performance as supercapacitor electrode. Electrochimica Acta, 2012, 69, 112-119.	2.6	142
51	Graphene Nanosheet/Ni²⁺/Al³⁺ Layered Double-Hydroxide Composite as a Novel Electrode for a Supercapacitor. Chemistry of Materials, 2011, 23, 3509-3516.	3.2	506
52	Green synthesis of graphene nanosheets/ZnO composites and electrochemical properties. Journal of Solid State Chemistry, 2011, 184, 1421-1427.	1.4	248