Gao-Yi Han

List of Publications by Year
in descending order

75 papers	2,388 citations	186265 28 h-index	214800 47 g-index
75 all docs	75 docs citations	75 times ranked	3416 citing authors

#	Article	IF	Citations
1	Facile preparation of polypyrrole/graphene oxide nanocomposites with large areal capacitance using electrochemical codeposition forÂsupercapacitors. Journal of Power Sources, 2014, 263, 259-267.	7.8	235
2	The Applications of Polymers in Solar Cells: A Review. Polymers, 2019, 11, 143.	4.5	146
3	Mesoporous carbon nanofibers with large cage-like pores activated by tin dioxide and their use in supercapacitor and catalyst support. Carbon, 2014, 70, 295-307.	10.3	111
4	Using hydroxylamine as a reducer to prepare N-doped graphene hydrogels used in high-performance energy storage. Journal of Power Sources, 2013, 238, 492-500.	7.8	102
5	An Interconnected Ternary MIn₂S₄ (M=Fe, Co, Ni) Thiospinel Nanosheet Array: A Type of Efficient Platinumâ€Free Counter Electrode for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 9146-9150.	13.8	88
6	Superior performance of highly flexible solid-state supercapacitor based on the ternary composites of graphene oxide supported poly(3,4-ethylenedioxythiophene)-carbon nanotubes. Journal of Power Sources, 2016, 323, 125-133.	7.8	82
7	Electrospun lead-doped titanium dioxide nanofibers and the in situ preparation of perovskite-sensitized photoanodes for use in high performance perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 16856-16862.	10.3	81
8	High performance of Pt-free dye-sensitized solar cells based on two-step electropolymerized polyaniline counter electrodes. Journal of Materials Chemistry A, 2014, 2, 3452-3460.	10.3	80
9	Investigation of perovskite-sensitized nanoporous titanium dioxide photoanodes with different thicknesses in perovskite solar cells. Journal of Power Sources, 2015, 286, 118-123.	7.8	72
10	Polypyrrole/graphene oxide deposited on two metalized surfaces of porous polypropylene films as all-in-one flexible supercapacitors. Electrochimica Acta, 2018, 270, 490-500.	5.2	71
11	Preparation of high performance perovskite-sensitized nanoporous titanium dioxide photoanodes by in situ method for use in perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 16531-16537.	10.3	62
12	Highly stable multi-wall carbon nanotubes@poly(3,4-ethylenedioxythiophene)/poly(styrene sulfonate) coreâ€“shell composites with three-dimensional porous nano-network for electrochemical capacitors. Journal of Power Sources, 2015, 274, 229-236.	7.8	61
13	Efficient bifacial perovskite solar cell based on a highly transparent poly(3,4-ethylenedioxythiophene) as the p-type hole-transporting material. Journal of Power Sources, 2016, 306, 171-177.	7.8	61
14	Acetylcholinesterase biosensor based on electrochemically inducing 3D graphene oxide network/multi-walled carbon nanotube composites for detection of pesticides. RSC Advances, 2017, 7, 53570-53577.	3.6	54
15	Larger-scale fabrication of N-doped graphene-fiber mats used in high-performance energy storage. Journal of Power Sources, 2014, 252, 113-121.	7.8	49
16	An Interconnected Ternary MIn₂S₄ (M=Fe, Co, Ni) Thiospinel Nanosheet Array: A Type of Efficient Platinumâ€Free Counter Electrode for Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2017, 129, 9274-9278.	2.0	49
17	Serrated, flexible and ultrathin polyaniline nanoribbons: An efficient counter electrode for the dye-sensitized solar cell. Journal of Power Sources, 2016, 322, 155-162.	7.8	46
18	All-in-one flexible asymmetric supercapacitor based on composite of polypyrrole-graphene oxide and poly(3,4-ethylenedioxythiophene). Journal of Alloys and Compounds, 2020, 835, 155299.	5.5	46

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19	Three-dimensional hollow platinumâ€“nickel bimetallic nanoframes for use in dye-sensitized solar cells. Journal of Power Sources, 2015, 278, 149-155.	7.8	41
20	Honeycomb-like poly(3,4-ethylenedioxythiophene) as an effective and transparent counter electrode in bifacial dye-sensitized solar cells. Journal of Power Sources, 2017, 342, 709-716.	7.8	41
21	Integrated flexible supercapacitor based on poly (3, 4-ethylene dioxythiophene) deposited on Au/porous polypropylene film/Au. Journal of Power Sources, 2018, 395, 228-236.	7.8	38
22	Performance enhancement of perovskite solar cells using trimesic acid additive in the two-step solution method. Journal of Power Sources, 2019, 426, 11-15.	7.8	38
23	Polypyrrole doped with dodecyl benzene sulfonate electrodeposited on carbon fibers for flexible capacitors with high-performance. Electrochimica Acta, 2015, 176, 594-603.	5.2	36
24	Properties of Porous Carbon Derived from Cornstalk Core in Highâ€Performance Electrochemical Capacitors. ChemElectroChem, 2016, 3, 323-331.	3.4	35
25	High-performance supercapacitors based on the reduced graphene oxide hydrogels modified by trace amounts of benzenediols. Chemical Engineering Journal, 2017, 328, 25-34.	12.7	34
26	Nickel sulfide counter electrodes enhanced by hydrosulphuric acid hydrothermal treatments for use in Pt-free dye-sensitized solar cells. Electrochimica Acta, 2015, 155, 103-109.	5.2	33
27	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. Angewandte Chemie - International Edition, 2020, 59, 21409-21413.	13.8	33
28	Effects of methylammonium acetate on the perovskite film quality for the perovskite solar cell. Organic Electronics, 2019, 65, 201-206.	2.6	30
29	Preparing Ni3S2 composite with neural network-like structure for high-performance flexible asymmetric supercapacitors. Electrochimica Acta, 2019, 317, 322-332.	5.2	26
30	The dye-sensitized solar cells based on the interconnected ternary cobalt diindium sulfide nanosheet array counter electrode. Materials Research Bulletin, 2018, 107, 204-212.	5.2	25
31	Flexible and compressible electrochemical capacitors based on polypyrrole/carbon fibers integrated into sponge. Journal of Alloys and Compounds, 2017, 708, 1206-1215.	5.5	22
32	Purified nitrogen-doped reduced graphene oxide hydrogels for high-performance supercapacitors. Journal of Electroanalytical Chemistry, 2019, 834, 206-215.	3.8	22
33	Paper-like N-doped graphene films prepared by hydroxylamine diffusion induced assembly and their ultrahigh-rate capacitive properties. Electrochimica Acta, 2014, 115, 461-470.	5.2	21
34	A transparent honeycomb-like poly(3,4-ethylenedioxythiophene)/multi-wall carbon nanotube counter electrode for bifacial dye-sensitized solar cells. Organic Electronics, 2017, 50, 161-169.	2.6	21
35	Internal tandem flexible and compressible electrochemical capacitor based on polypyrrole/carbon fibers. Electrochimica Acta, 2017, 257, 335-344.	5.2	20
36	Synthesis of highly active cobalt molybdenum sulfide nanosheets by a one-step hydrothermal method for use in dye-sensitized solar cells. Journal of Materials Science, 2017, 52, 13541-13551.	3.7	20

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37	Enhanced stability and efficiency of perovskite solar cells via bifunctional group passivation with thiosalicylic acid. Organic Electronics, 2020, 81, 105681.	2.6	18
38	Performance of flexible capacitors based on polypyrrole/carbon fiber electrochemically prepared from various phosphate electrolytes. Applied Surface Science, 2016, 387, 902-911.	6.1	17
39	Enhanced stability and solar cell performance via Ï€-conjugated Lewis base passivation of organic inorganic lead halide perovskites. Organic Electronics, 2020, 77, 105519.	2.6	17
40	Titanium dioxide/zinc indium sulfide hetero-junction: An efficient photoanode for the dye-sensitized solar cell. Journal of Power Sources, 2016, 328, 578-585.	7.8	16
41	Monolithic porous carbon derived from polyvinyl alcohol for electrochemical double layer capacitors. Electrochimica Acta, 2016, 188, 175-183.	5.2	16
42	Interfacial chemical bridge constructed by l-cysteine for highly efficient perovskite solar cells. Materials Research Bulletin, 2022, 149, 111698.	5.2	16
43	Co-electrodeposition of MnO2/graphene oxide coating on carbon paper from phosphate buffer and the capacitive properties. Journal of Solid State Electrochemistry, 2014, 18, 553-559.	2.5	15
44	High-performance flexible wire-shaped electrochemical capacitors based on gold wire@reduced graphene oxide. New Carbon Materials, 2017, 32, 581-591.	6.1	15
45	Synthesis of ternary nickel cobalt phosphide nanowires through phosphorization for use in platinum-free dye-sensitized solar cells. Journal of Alloys and Compounds, 2019, 771, 117-123.	5.5	15
46	Boosting capacitive performance of nitrogen-doped carbon by atomically dispersed iron. Journal of Power Sources, 2022, 532, 231335.	7.8	15
47	Intercalation pseudo-capacitance behavior of few-layered molybdenum sulfide in various electrolytes. Journal of Colloid and Interface Science, 2020, 561, 117-126.	9.4	14
48	Dimethyl sulfoxide and bromide methylamine co-treatment inducing defect healing for effective and stable perovskite solar cells. Materials Research Bulletin, 2019, 112, 165-173.	5.2	13
49	One-step hydrothermal synthesis of feather duster-like NiS@MoS2 with hierarchical array structure for the Pt-free dye-sensitized solar cell. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	12
50	The properties of highly compressible electrochemical capacitors based on polypyrrole/melamine sponge-carbon fibers. Journal of Alloys and Compounds, 2019, 786, 668-676.	5.5	11
51	Capacitive Performances of Reduced Graphene Oxide Hydrogel Prepared by Using Sodium Hypophosphite as Reducer. Chinese Journal of Chemistry, 2016, 34, 89-97.	4.9	10
52	Reduced graphene oxide hydrogels prepared in the presence of phenol for high-performance electrochemical capacitors. New Carbon Materials, 2019, 34, 403-416.	6.1	10
53	Effective iron-molybdenum-disulfide counter electrodes for use in platinum-free dye-sensitized solar cells. Science China Materials, 2018, 61, 1278-1284.	6.3	9
54	N, S co-doped porous carbon with high capacitive performance derived from heteroatom doped phenolic resin. Journal of Electroanalytical Chemistry, 2022, 908, 116069.	3.8	9

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55	Enhanced efficiency and stability of perovskite solar cells by synergistic effect of magnesium acetate introducing into CH3NH3PbI3. Materials Science in Semiconductor Processing, 2019, 104, 104671.	4.0	8
56	Binder-free hydrogen storage composite Co9S8/rGO: A prospective anode for flexible energy storage device with high energy density. Electrochimica Acta, 2020, 354, 136734.	5.2	8
57	Topâ€Contactsâ€Interface Engineering for Highâ€Performance Perovskite Solar Cell With Reducing Lead Leakage. Solar Rrl, 2022, 6, .	5.8	8
58	Sulfonated Graphene Synthesized via a Green Route and Its Capacitive Properties. Chinese Journal of Chemistry, 2016, 34, 98-106.	4.9	7
59	Multifunctional stannum oxide compact bilayer modified by europium and erbium respectively doped ytterbium fluoride for high-performance dye-sensitized solar cell. Electrochimica Acta, 2017, 248, 333-341.	5.2	7
60	Stabilities of flexible electrochemical capacitors based on polypyrrole/carbon fibers in different gel electrolytes. Chinese Journal of Polymer Science (English Edition), 2017, 35, 961-973.	3.8	7
61	Dimethyl sulfoxide post-treatment inducing defect healing and crystal growth for effective perovskite solar cells. Materials Letters, 2018, 230, 170-172.	2.6	7
62	Preparing electrodes with highly reduced graphene oxide load for supercapacitors by dropping-electrochemical reduction. Diamond and Related Materials, 2020, 105, 107766.	3.9	7
63	Stable and near-infrared absorption enhanced dye-sensitized solar cell based on silver nanoplates@silica nanocrystals. Materials Research Bulletin, 2018, 104, 164-172.	5.2	6
64	Facile preparation of binderâ€“free electrode for electrochemical capacitors based on reduced graphene oxide composite film. Journal of Electroanalytical Chemistry, 2019, 847, 113133.	3.8	6
65	Single-atom Fe-N-G as an efficient electrocatalyst for oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2021, 892, 115271.	3.8	6
66	Capacitive Properties of the Binderâ€Free Electrode Prepared from Carbon Derived from Cotton and Reduced Graphene Oxide. Chinese Journal of Chemistry, 2017, 35, 1844-1852.	4.9	5
67	Fabricating reduced graphene oxide films with high volumetric capacitive performances via thermal and acid treatment. Journal of Materials Science, 2018, 53, 12295-12309.	3.7	5
68	Codoping triiodide anion in polypyrrole cathode: An effective route to increase the capacity of zinc-ion battery. Journal of Electroanalytical Chemistry, 2022, 912, 116232.	3.8	5
69	The electrochemical properties of reduced graphene oxide film with capsular pores prepared by using oxalic acid as template. International Journal of Energy Research, 2019, 43, 8177.	4.5	4
70	The effect of aminophenol isomers on the reduced graphene oxide hydrogelsâ€™ microstructure and capacitive performances. Organic Electronics, 2019, 74, 179-189.	2.6	3
71	Depositing reduced graphene oxide on electroless plating Ni/organic polymer fibrous membrane for flexible supercapacitors. Journal of Electroanalytical Chemistry, 2019, 851, 113466.	3.8	3
72	Flexible supercapacitor electrode with high performance prepared from graphene oxide films assembled in the presence of p-phenylenediamine and urea. Journal of Materials Science: Materials in Electronics, 2019, 30, 7216-7225.	2.2	3

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73	Synergistic effect of guanidine thiocyanate additive and dimethyl sulfoxide post-treatment towards efficient and stable perovskite solar cell. Thin Solid Films, 2019, 689, 137495.	1.8	1
74	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. Angewandte Chemie, 2020, 132, 21593-21597.	2.0	1
75	Using phosphorus-doped molybdenum sulfide with (1 0 0)-facet-exposed and enlarged interlayer spacing to enhance hydrogen evolution. Journal of Electroanalytical Chemistry, 2021, 897, 115545.	3.8	1