

Nantao Hu

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116
papers

4,956
citations

43
h-index

67
g-index

120
ext. papers

6,060
ext. citations

7.3
avg, IF

5.8
L-index

#	Paper	IF	Citations
116	A Review on Graphene-Based Gas/Vapor Sensors with Unique Properties and Potential Applications. <i>Nano-Micro Letters</i> , 2016 , 8, 95-119	19.5	383
115	Reduced graphene oxide/polyaniline hybrid: Preparation, characterization and its applications for ammonia gas sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22488		272
114	Ultrafast and sensitive room temperature NH ₃ gas sensors based on chemically reduced graphene oxide. <i>Nanotechnology</i> , 2014 , 25, 025502	3.4	204
113	Gas sensor based on p-phenylenediamine reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2012 , 163, 107-114	8.5	201
112	Reduced graphene oxide/polypyrrole nanotube papers for flexible all-solid-state supercapacitors with excellent rate capability and high energy density. <i>Journal of Power Sources</i> , 2016 , 302, 39-45	8.9	152
111	Synthesis of Polymer-Mesoporous Silica Nanocomposites. <i>Materials</i> , 2010 , 3, 4066-4079	3.5	141
110	Single-walled carbon nanotube/cobalt phthalocyanine derivative hybrid material: preparation, characterization and its gas sensing properties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3779		137
109	Three-dimensional structures of graphene/polyaniline hybrid films constructed by steamed water for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2017 , 342, 1-8	8.9	123
108	Design of Hetero-Nanostructures on MoS Nanosheets To Boost NO Room-Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22640-22649	9.5	121
107	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications. <i>Nano-Micro Letters</i> , 2012 , 4, 1-9	19.5	113
106	Three-dimensional skeleton networks of graphene wrapped polyaniline nanofibers: an excellent structure for high-performance flexible solid-state supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 19777	4.9	106
105	Three-dimensional conductive networks based on stacked SiO@graphene frameworks for enhanced gas sensing. <i>Nanoscale</i> , 2017 , 9, 109-118	7.7	102
104	Rational design of sandwiched polyaniline nanotube/layered graphene/polyaniline nanotube papers for high-volumetric supercapacitors. <i>Chemical Engineering Journal</i> , 2017 , 309, 89-97	14.7	86
103	A new strategy to prepare N-doped holey graphene for high-volumetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9739-9743	13	84
102	Ammonia gas sensors based on chemically reduced graphene oxide sheets self-assembled on Au electrodes. <i>Nanoscale Research Letters</i> , 2014 , 9, 251	5	83
101	Studies on NH ₃ gas sensing by zinc oxide nanowire-reduced graphene oxide nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 284-294	8.5	82
100	Morphology Control and Photocatalysis Enhancement by in Situ Hybridization of Cuprous Oxide with Nitrogen-Doped Carbon Quantum Dots. <i>Langmuir</i> , 2016 , 32, 9418-27	4	76

99	Nanofoaming to Boost the Electrochemical Performance of Ni@Ni(OH) Nanowires for Ultrahigh Volumetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27868-27876	9.5	72
98	One-step electrodeposition of nickel cobalt sulfide nanosheets on Ni nanowire film for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2018 , 259, 617-625	6.7	70
97	Enhanced NO ₂ sensing performance of reduced graphene oxide by in situ anchoring carbon dots. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6862-6871	7.1	66
96	ZnO Nanowire-Reduced Graphene Oxide Hybrid Based Portable NH ₃ Gas Sensing Electron Device. <i>IEEE Electron Device Letters</i> , 2015 , 36, 1376-1379	4.4	66
95	Enhanced formaldehyde detection based on Ni doping of SnO ₂ nanoparticles by one-step synthesis. <i>Sensors and Actuators B: Chemical</i> , 2018 , 263, 120-128	8.5	66
94	Paper-like graphene-Ag composite films with enhanced mechanical and electrical properties. <i>Nanoscale Research Letters</i> , 2013 , 8, 32	5	66
93	Two-dimensional NiO nanosheets with enhanced room temperature NO sensing performance via Al doping. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19043-19049	3.6	59
92	Construction of MoS ₂ /SnO ₂ heterostructures for sensitive NO ₂ detection at room temperature. <i>Applied Surface Science</i> , 2019 , 493, 613-619	6.7	58
91	Interface engineered WS ₂ /ZnS heterostructures for sensitive and reversible NO ₂ room temperature sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126666	8.5	55
90	Cobalt Doping To Boost the Electrochemical Properties of Ni@Ni S Nanowire Films for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2017 , 10, 4056-4065	8.3	51
89	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. <i>Nano-Micro Letters</i> , 2011 , 3, 215-222	19.5	51
88	Efficient dispersion of multi-walled carbon nanotubes by in situ polymerization. <i>Polymer International</i> , 2007 , 56, 655-659	3.3	51
87	All-organic covalent organic framework/polyaniline composites as stable electrode for high-performance supercapacitors. <i>Materials Letters</i> , 2019 , 236, 354-357	3.3	51
86	Direct Inkjet Printing of Aqueous Inks to Flexible All-Solid-State Graphene Hybrid Micro-Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46044-46053	9.5	50
85	The NH ₃ sensing properties of gas sensors based on aniline reduced graphene oxide. <i>Synthetic Metals</i> , 2013 , 185-186, 25-30	3.6	49
84	Two-dimensional Cd-doped porous Co ₃ O ₄ nanosheets for enhanced room-temperature NO ₂ sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127393	8.5	49
83	Ultrasensitive room temperature NO ₂ sensors based on liquid phase exfoliated WSe ₂ nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2019 , 300, 127013	8.5	48
82	Three-dimensional chemically reduced graphene oxide templated by silica spheres for ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 956-964	8.5	48

81	Sonochemical synthesis of hierarchical WO ₃ flower-like spheres for highly efficient triethylamine detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 306, 127536	8.5	46
80	Controllable synthesis of crescent-shaped porous NiO nanoplates for conductometric ethanol gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126642	8.5	45
79	Steamed water engineering mechanically robust graphene films for high-performance electrochemical capacitive energy storage. <i>Nano Energy</i> , 2016 , 26, 668-676	17.1	45
78	Densely-packed graphene/conducting polymer nanoparticle papers for high-volumetric-performance flexible all-solid-state supercapacitors. <i>Applied Surface Science</i> , 2016 , 379, 206-212	6.7	45
77	Glucose-assisted synthesis of hierarchical flower-like Co ₃ O ₄ nanostructures assembled by porous nanosheets for enhanced acetone sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 699-706	8.5	44
76	A dual CoNi MOF nanosheet/nanotube assembled on carbon cloth for high performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2020 , 342, 136124	6.7	44
75	A Z-scheme photocatalyst for enhanced photocatalytic H ₂ evolution, constructed by growth of 2D plasmonic MoO ₃ nanoplates onto 2D g-CN nanosheets. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 213-223	9.3	44
74	Controllable synthesis of heterostructured CuO/NiO nanotubes and their synergistic effect for glycol gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127347	8.5	43
73	Bi-metal organic framework nanosheets assembled on nickel wire films for volumetric-energy-dense supercapacitors. <i>Journal of Power Sources</i> , 2019 , 423, 80-89	8.9	40
72	Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 234, 26-36	21.8	36
71	In situ preparation of cubic Cu ₂ O-RGO nanocomposites for enhanced visible-light degradation of methyl orange. <i>Nanotechnology</i> , 2016 , 27, 265703	3.4	36
70	High-performance flexible all-solid-state supercapacitors based on densely-packed graphene/polypyrrole nanoparticle papers. <i>Applied Surface Science</i> , 2016 , 387, 666-673	6.7	34
69	Hierarchical CoNi ₂ S ₄ nanosheet/nanotube array structure on carbon fiber cloth for high-performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2019 , 305, 81-89	6.7	33
68	Two-dimensional MoSe ₂ nanosheets via liquid-phase exfoliation for high-performance room temperature NO gas sensors. <i>Nanotechnology</i> , 2019 , 30, 445503	3.4	33
67	Scalable synthesis of Fe ₂ O ₃ /CNT composite as high-performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 116-124	5.7	32
66	Graphene Oxide-Modified Polyacrylonitrile Nanofibrous Membranes for Efficient Air Filtration. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3916-3924	5.6	30
65	Non-woven fabric electrodes based on graphene-based fibers for areal-energy-dense flexible solid-state supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 392, 123692	14.7	30
64	Highly repeatable and sensitive three-dimensional Fe ₂ O ₃ @reduced graphene oxide gas sensors by magnetic-field assisted assembly process. <i>Sensors and Actuators B: Chemical</i> , 2020 , 306, 127546	8.5	29

63	A novel Ni@Ni(OH) ₂ coaxial core-sheath nanowire membrane for electrochemical energy storage electrodes with high volumetric capacity and excellent rate capability. <i>Electrochimica Acta</i> , 2015 , 182, 464-473	6.7	27
62	Surface-crumpled graphene hydrogels with macro- and microporous structures for ultrahigh-volumetric energy storage. <i>Journal of Power Sources</i> , 2018 , 399, 115-124	8.9	26
61	Laser-induced MnO/Mn ₃ O ₄ /N-doped-graphene hybrid as binder-free anodes for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 385, 123720	14.7	26
60	MoS ₂ quantum dots decorated reduced graphene oxide as a sulfur host for advanced lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2019 , 327, 134994	6.7	25
59	Facile synthesis of soluble functional graphene by reduction of graphene oxide via acetylacetone and its adsorption of heavy metal ions. <i>Nanotechnology</i> , 2014 , 25, 395602	3.4	24
58	Surfactant-free synthesis of Cu ₂ O hollow spheres and their wavelength-dependent visible photocatalytic activities using LED lamps as cold light sources. <i>Nanoscale Research Letters</i> , 2014 , 9, 624	5	23
57	Three-dimensional skeleton networks of reduced graphene oxide/nanosheets/vanadium pentoxide nanobelts hybrid for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019 , 295, 14-21	6.7	23
56	Inkjet-Printed Ultrathin MoS-Based Electrodes for Flexible In-Plane Microsupercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39444-39454	9.5	22
55	The microwave-assisted solvothermal synthesis of a novel ketoenamine-linked conjugated microporous polymer for supercapacitors. <i>RSC Advances</i> , 2016 , 6, 49425-49428	3.7	22
54	Glucose-assisted synthesis of hierarchical NiO-ZnO heterostructure with enhanced glycol gas sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129167	8.5	22
53	Laser-induced bi-metal sulfide/graphene nanoribbon hybrid frameworks for high-performance all-in-one fiber supercapacitors. <i>Journal of Power Sources</i> , 2019 , 438, 227044	8.9	21
52	Metal oxide nanoprism-arrays assembled in N-doped carbon foamy nanoplates that have efficient polysulfide-retention for ultralong-cycle-life lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11260-11269	13	21
51	In situ preparation of magnetic Ni-Au/graphene nanocomposites with electron-enhanced catalytic performance. <i>Journal of Alloys and Compounds</i> , 2017 , 706, 377-386	5.7	20
50	Graphene oxide reinforced polyimide nanocomposites via in situ polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 173-8	1.3	20
49	High-voltage aqueous asymmetric pseudocapacitors based on methyl blue-doped polyaniline hydrogels and the derived N/S-codoped carbon aerogels. <i>Chemical Engineering Journal</i> , 2020 , 383, 123153	14.7	20
48	Three-Dimensional Fe ₃ O ₄ @Reduced Graphene Oxide Heterojunctions for High-Performance Room-Temperature NO ₂ Sensors. <i>Frontiers in Materials</i> , 2019 , 6,	4	19
47	Semiconducting single-walled carbon nanotube/graphene van der Waals junctions for highly sensitive all-carbon hybrid humidity sensors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3386-3394	7.1	19
46	Engineering sulfonated polyaniline molecules on reduced graphene oxide nanosheets for high-performance corrosion protective coatings. <i>Applied Surface Science</i> , 2019 , 484, 663-675	6.7	18

45	Graphene/GaAs heterojunction for highly sensitive, self-powered Visible/NIR photodetectors. <i>Materials Science in Semiconductor Processing</i> , 2020 , 111, 104989	4.3	18
44	Review of recent progress on graphene-based composite gas sensors. <i>Ceramics International</i> , 2021 , 47, 16367-16384	5.1	18
43	Gas Sensors Based on Chemically Reduced Holey Graphene Oxide Thin Films. <i>Nanoscale Research Letters</i> , 2019 , 14, 218	5	17
42	Hexafluorobisphenol A covalently functionalized single-walled carbon nanotubes for detection of dimethyl methylphosphonate vapor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4874-81	1.3	17
41	The preparation and characterization of non-covalently functionalized graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 99-104	1.3	16
40	Linear humidity response of carbon dot-modified molybdenum disulfide. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4083-4091	3.6	15
39	Highly sensitive NO gas sensors based on hexagonal SnS nanoplates operating at room temperature. <i>Nanotechnology</i> , 2020 , 31, 075501	3.4	15
38	Flexible graphene/carbon nanotube hybrid papers chemical-reduction-tailored by gallic acid for high-performance electrochemical capacitive energy storages. <i>Applied Surface Science</i> , 2018 , 435, 699-707	6.7	14
37	Interface covalent bonding endowing high-sulfur-loading paper cathode with robustness for energy-dense, compact and foldable lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 412, 128562	14.7	13
36	Highly sensitive and recoverable room-temperature NO ₂ gas detection realized by 2D/0D MoS ₂ /ZnS heterostructures with synergistic effects. <i>Sensors and Actuators B: Chemical</i> , 2021 , 347, 130608	8.5	12
35	High-work-function metal/carbon nanotube/low-work-function metal hybrid junction photovoltaic device. <i>NPG Asia Materials</i> , 2015 , 7, e220-e220	10.3	11
34	Poly(Glycidyl Methacrylates)-grafted Zinc Oxide Nanowire by Surface-initiated Atom Transfer Radical Polymerization. <i>Nano-Micro Letters</i> , 2010 , 2, 285-289	19.5	11
33	The Prospective Two-Dimensional Graphene Nanosheets: Preparation, Functionalization and Applications 2012 , 4, 1		11
32	Self-Powered Broadband Photodetector Based on Single-Walled Carbon Nanotube/GaAs Heterojunctions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15532-15539	8.3	11
31	Multichannel Room-Temperature Gas Sensors Based on Magnetic-Field-Aligned 3D FeO@SiO ₂ @Reduced Graphene Oxide Spheres. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37418-37426	9.5	11
30	Highly Sensitive Room-Temperature NO ₂ Gas Sensors Based on Three-Dimensional Multiwalled Carbon Nanotube Networks on SiO ₂ Nanospheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13915-13923	8.3	11
29	Free-standing functional graphene reinforced carbon films with excellent mechanical properties and superhydrophobic characteristic. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 74, 96-106	8.4	10
28	Hierarchical heterostructures based on prickly Ni nanowires/Cu ₂ O nanoparticles with enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2016 , 45, 7258-66	4.3	10

27	Hierarchical WS ₂ /WO ₃ Nanohybrids with p-n Heterojunctions for NO ₂ Detection. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1626-1634	5.6	10
26	Ultrathin holey reduced graphene oxide/Ni(picolinic acid) ₂ papers for flexible battery-supercapacitor hybrid devices. <i>Chemical Engineering Journal</i> , 2021 , 408, 127302	14.7	9
25	A Novel Artificial Neuron-Like Gas Sensor Constructed from CuS Quantum Dots/BiS Nanosheets. <i>Nano-Micro Letters</i> , 2021 , 14, 8	19.5	8
24	Docetaxel-loaded SiO ₂ @Au@GO core-shell nanoparticles for chemo-photothermal therapy of cancer cells. <i>RSC Advances</i> , 2016 , 6, 48379-48386	3.7	8
23	Design of p-p heterojunctions based on CuO decorated WS ₂ nanosheets for sensitive NH ₃ gas sensing at room temperature. <i>Nanotechnology</i> , 2021 , 32,	3.4	8
22	Binder-Free, Flexible, and Self-Standing Non-Woven Fabric Anodes Based on Graphene/Si Hybrid Fibers for High-Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27270-27277	9.5	7
21	Interlayer-expanded MoS ₂ vertically anchored on graphene via C-O-S bonds for superior sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 160280	5.7	7
20	Wearable NO ₂ sensing and wireless application based on ZnS nanoparticles/nitrogen-doped reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2021 , 345, 130423	8.5	7
19	A p-i-n junction diode based on locally doped carbon nanotube network. <i>Scientific Reports</i> , 2016 , 6, 23312.9	2.9	6
18	In situ coating nickel organic complexes on free-standing nickel wire films for volumetric-energy-dense supercapacitors. <i>Nanotechnology</i> , 2018 , 29, 275401	3.4	5
17	Controlled assembly of FePt nanoparticles monolayer on solid substrates. <i>Journal of Colloid and Interface Science</i> , 2014 , 417, 100-8	9.3	5
16	Polythiophene microspheres synthesized by transition metal mediated oxidative dispersion polymerization. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 5265-5269	2.5	5
15	Laser-Induced MoO ₃ /Sulfur-Doped Graphene Hybrid Frameworks as Efficient Antibacterial Agents. <i>Langmuir</i> , 2021 , 37, 1596-1604	4	5
14	Noble metal (Ag, Au, Pd and Pt) doped TaS ₂ monolayer for gas sensing: a first-principles investigation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18359-18368	3.6	5
13	Enhancing room-temperature NO detection of cobalt phthalocyanine based gas sensor at an ultralow laser exposure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18499-18506	3.6	4
12	PANI/Graphene quantum dots/graphene co-coated compressed non-woven towel for wearable energy storage. <i>Synthetic Metals</i> , 2020 , 270, 116571	3.6	4
11	Enhancing room-temperature NO gas sensing performance based on a metal phthalocyanine/graphene quantum dot hybrid material.. <i>RSC Advances</i> , 2021 , 11, 5618-5628	3.7	4
10	Carbon Foam Fibers with a Concentric Tube-Core/Three-Dimensional Nanosheet-Sheath Structure for High-Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2021 , 8, 873-879	4.3	4

9	Room temperature DMMP gas sensing based on cobalt phthalocyanine derivative/graphene quantum dot hybrid materials.. <i>RSC Advances</i> , 2021 , 11, 14805-14813	3.7	4
8	Binary nanosheet frameworks of graphene/polyaniline composite for high-area flexible supercapacitors. <i>Materials Chemistry and Physics</i> , 2021 , 273, 125128	4.4	3
7	Flower-Like VO(B)@C Structure: High Rate Capacity and Stability as Lithium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 4052-4057	1.3	2
6	A Study of All-solid-state Planar Micro-supercapacitors Using Printable MoS ₂ Inks. <i>Chemistry Letters</i> , 2021 , 50, 452-455	1.7	2
5	In-plane Defect Engineering Enabling Ultra-stable Graphene Paper-based Hosts for Lithium Metal Anodes. <i>ChemElectroChem</i> , 2021 , 8, 3273-3281	4.3	2
4	Classification and concentration prediction of VOCs with high accuracy based on an electronic nose using an ELM-ELM integrated algorithm. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	2
3	Free-standing films based on Ni wires core/foamed NiO shell as hosts for stable lithium anodes. <i>Journal of Power Sources</i> , 2021 , 506, 230161	8.9	1
2	Conducting polymer-bridged three-dimensional heterojunctions of reduced graphene oxide/Fe ₂ O ₃ hybrids for high-performance NO ₂ gas sensing. <i>Results in Surfaces and Interfaces</i> , 2022 , 7, 100057	0	1
1	Microwave-Assisted Chitosan-Functionalized Graphene Oxide as Controlled Intracellular Drug Delivery Nanosystem for Synergistic Antitumour Activity. <i>Nanoscale Research Letters</i> , 2021 , 16, 75	5	0