Yao Wang

List of Publications by Year
in descending order

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23 papers	567 citations	623734 14 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	876 citing authors

#	Article	IF	Citations
1	Assembling Hollow Cactus-Like ZnO Nanorods with Dipole-Modified Graphene Nanosheets for Practical Room-Temperature Formaldehyde Sensing. ACS Applied Materials & Interfaces, 2022, 14, 13186-13195.	8.0	16
2	An insight into improvement of room temperature formaldehyde sensitivity for graphene-based gas sensors. Microchemical Journal, 2021, 160, 105607.	4.5	18
3	Charge transfer driven by redox dye molecules on graphene nanosheets for room-temperature gas sensing. Nanoscale, 2021, 13, 18596-18607.	5.6	9
4	Smart Supramolecular Self-Assembled Nanosystem: Stimulus-Responsive Hydrogen-Bonded Liquid Crystals. Nanomaterials, 2021, 11, 448.	4.1	20
5	Strategies for the performance enhancement of graphene-based gas sensors: A review. Talanta, 2021, 235, 122745.	5.5	42
6	Practical room temperature formaldehyde sensing based on a combination of visible-light activation and dipole modification. Journal of Materials Chemistry A, 2021, 9, 23955-23967.	10.3	16
7	Three-Dimensional Graphene-Based Foams with â€œGreater Electron Transferring Areasâ€•Deriving High Gas Sensitivity. ACS Applied Nano Materials, 2021, 4, 13234-13245.	5.0	6
8	Assembly with copper(<scp>ii</scp>) ions and Dâ€“Ï€â€“A molecules on a graphene surface for ultra-fast acetic acid sensing at room temperature. RSC Advances, 2019, 9, 30432-30438.	3.6	10
9	Mimicking a Dogâ€™s Nose: Scrolling Graphene Nanosheets. ACS Nano, 2018, 12, 2521-2530.	14.6	78
10	Bifunction-Integrated Dielectric Nanolayers of Fluoropolymers with Electrowetting Effects. Materials, 2018, 11, 2474.	2.9	3
11	Probe Into the Influence of Crosslinking on CO2 Permeation of Membranes. Scientific Reports, 2017, 7, 40082.	3.3	4
12	Three-Dimensional Crumpled Graphene-Based Nanosheets with Ultrahigh NO₂ Gas Sensibility. ACS Applied Materials & Interfaces, 2017, 9, 11819-11827.	8.0	88
13	Enhancement of charge transfer between graphene and donorâ€“Ï€-acceptor molecule for ultrahigh sensing performance. Nanoscale, 2017, 9, 16273-16280.	5.6	26
14	One-Step Fabrication of Pyranine Modified- Reduced Graphene Oxide with Ultrafast and Ultrahigh Humidity Response. Scientific Reports, 2017, 7, 2713.	3.3	20
15	Insight into calcification of Synechocystis sp. enhanced by extracellular carbonic anhydrase. RSC Advances, 2016, 6, 29811-29817.	3.6	9
16	Mimicking how plants control CO2 influx: CO2 activation of ion current rectification in nanochannels. NPG Asia Materials, 2015, 7, e215-e215.	7.9	11
17	Electric-field induced layer-by-layer assembly technique with single component for construction of conjugated polymer films. RSC Advances, 2015, 5, 58499-58503.	3.6	6
18	Supramolecular fabrication of polyelectrolyte-modified reduced graphene oxide for NO2 sensing applications. Ceramics International, 2015, 41, 12130-12136.	4.8	19

#	Article	IF	Citations
19	Supramolecular fabrication of multilevel graphene-based gas sensors with high NO₂ sensibility. Nanoscale, 2015, 7, 10259-10266.	5.6	58
20	Supramolecularly Modified Graphene for Ultrafast Responsive and Highly Stable Humidity Sensor. Journal of Physical Chemistry C, 2015, 119, 28640-28647.	3.1	54
21	Fabrication of CO2 Facilitated Transport Channels in Block Copolymer through Supramolecular Assembly. Polymers, 2014, 6, 1403-1413.	4.5	14
22	High flux CO2 transporting nanochannel fabricated by the self-assembly of a linear-brush block copolymer. Journal of Materials Chemistry A, 2013, 1, 8097.	10.3	13
23	CO2-selective free-standing membrane by self-assembly of a UV-crosslinkable diblock copolymer. Journal of Materials Chemistry, 2012, 22, 10918.	6.7	27