

Yong He

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,802
citations

257450

24
h-index

276875

41
g-index

51
all docs

51
docs citations

51
times ranked

2245
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling massive numbers of cancer-related urinary-microRNA candidates via nanowires. <i>Science Advances</i> , 2017, 3, e1701133.	10.3	170
2	Cellulose Nanofiber Paper as an Ultra Flexible Nonvolatile Memory. <i>Scientific Reports</i> , 2014, 4, 5532.	3.3	122
3	Enhanced ammonia sensing performance based on MXene-Ti ₃ C ₂ T _x multilayer nanoflakes functionalized by tungsten trioxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2021, 595, 6-14.	9.4	94
4	Hollow Cu ₂ O nanospheres loaded with MoS ₂ /reduced graphene oxide nanosheets for ppb-level NO ₂ detection at room temperature. <i>Journal of Hazardous Materials</i> , 2021, 416, 126218.	12.4	83
5	An excellent impedance-type humidity sensor based on halide perovskite CsPbBr ₃ nanoparticles for human respiration monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129772.	7.8	76
6	Low-operating temperature ammonia sensor based on Cu ₂ O nanoparticles decorated with p-type MoS ₂ nanosheets. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4838-4846.	5.5	72
7	Crystal-Plane Dependence of Critical Concentration for Nucleation on Hydrothermal ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1197-1203.	3.1	67
8	Facile hydrothermal synthesis of Ti ₃ C ₂ T _x -TiO ₂ nanocomposites for gaseous volatile organic compounds detection at room temperature. <i>Journal of Hazardous Materials</i> , 2021, 416, 126171.	12.4	67
9	All-nanocellulose nonvolatile resistive memory. <i>NPG Asia Materials</i> , 2016, 8, e310-e310.	7.9	64
10	Nanoscale Thermal Management of Single SnO ₂ Nanowire: pico-Joule Energy Consumed Molecule Sensor. <i>ACS Sensors</i> , 2016, 1, 997-1002.	7.8	56
11	Ultrafast and Wide Range Analysis of DNA Molecules Using Rigid Network Structure of Solid Nanowires. <i>Scientific Reports</i> , 2014, 4, 5252.	3.3	54
12	Paper-Based Disposable Molecular Sensor Constructed from Oxide Nanowires, Cellulose Nanofibers, and Pencil-Drawn Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15044-15050.	8.0	54
13	Rational Concept for Designing Vapor-Liquid-Solid Growth of Single Crystalline Metal Oxide Nanowires. <i>Nano Letters</i> , 2015, 15, 6406-6412.	9.1	46
14	Impact of Preferential Indium Nucleation on Electrical Conductivity of Vapor-Liquid-Solid Grown Indium-Tin Oxide Nanowires. <i>Journal of the American Chemical Society</i> , 2013, 135, 7033-7038.	13.7	44
15	Prominent Thermodynamical Interaction with Surroundings on Nanoscale Memristive Switching of Metal Oxides. <i>Nano Letters</i> , 2012, 12, 5684-5690.	9.1	40
16	Development of a rGO-BiVO ₄ Heterojunction Humidity Sensor with Boosted Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27188-27199.	8.0	40
17	Three-dimensional Nanowire Structures for Ultra-Fast Separation of DNA, Protein and RNA Molecules. <i>Scientific Reports</i> , 2015, 5, 10584.	3.3	39
18	Humidity-activated H ₂ S sensor based on SnSe ₂ /WO ₃ composite for evaluating the spoilage of eggs at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131424.	7.8	39

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19	Surface Ligand Engineering for a Lead-Free Cs ₃ Cu ₂ Br ₅ Microcrystal-Based Humidity Sensor with a Giant Response. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3401-3409.	4.6	34
20	Rational Concept for Reducing Growth Temperature in Vapor-liquid-solid Process of Metal Oxide Nanowires. <i>Nano Letters</i> , 2016, 16, 7495-7502.	9.1	33
21	Substantial Narrowing on the Width of Concentration Window of Hydrothermal ZnO Nanowires via Ammonia Addition. <i>Scientific Reports</i> , 2019, 9, 14160.	3.3	33
22	Realization of Rectifying and Resistive Switching Behaviors of TiO ₂ Nanorod Arrays for Nonvolatile Memory. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, H422.	2.2	28
23	Fundamental Strategy for Creating VLS Grown TiO ₂ Single Crystalline Nanowires. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24367-24372.	3.1	28
24	Ultrasensitive and reversible room-temperature resistive humidity sensor based on layered two-dimensional titanium carbide. <i>Ceramics International</i> , 2021, 47, 6463-6469.	4.8	27
25	Enhanced room temperature ammonia response of 2D-Ti ₃ C ₂ T MXene decorated with Ni(OH) ₂ nanoparticles. <i>Ceramics International</i> , 2021, 47, 19471-19480.	4.8	25
26	Improving anti-humidity property of In ₂ O ₃ based NO ₂ sensor by fluorocarbon plasma treatment. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130268.	7.8	25
27	Carrier type dependence on spatial asymmetry of unipolar resistive switching of metal oxides. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	24
28	Long-Term Stability of Oxide Nanowire Sensors via Heavily Doped Oxide Contact. <i>ACS Sensors</i> , 2017, 2, 1854-1859.	7.8	24
29	Facile and scalable patterning of sublithographic scale uniform nanowires by ultra-thin AAO free-standing membrane. <i>RSC Advances</i> , 2012, 2, 10618.	3.6	22
30	Effect of defect content on the unipolar resistive switching characteristics of ZnO thin film memory devices. <i>Solid State Communications</i> , 2012, 152, 1630-1634.	1.9	21
31	2D SnSe ₂ nanoflakes decorated with 1D ZnO nanowires for ppb-level NO ₂ detection at room temperature. <i>Journal of Hazardous Materials</i> , 2022, 426, 128061.	12.4	21
32	A flux induced crystal phase transition in the vapor-liquid-solid growth of indium-tin oxide nanowires. <i>Nanoscale</i> , 2014, 6, 7033.	5.6	20
33	True Vapor-liquid-solid Process Suppresses Unintentional Carrier Doping of Single Crystalline Metal Oxide Nanowires. <i>Nano Letters</i> , 2017, 17, 4698-4705.	9.1	20
34	Humidity Sensing by Graphitic Carbon Nitride Nanosheet/TiO ₂ Nanoparticle/Ti ₃ C ₂ T _x Nanosheet Composites for Monitoring Respiration and Evaluating the Waxing of Fruits. <i>ACS Applied Nano Materials</i> , 2021, 4, 11159-11167.	5.0	19
35	Pressure-induced evaporation dynamics of gold nanoparticles on oxide substrate. <i>Physical Review E</i> , 2013, 87, 012405.	2.1	18
36	Temperature modulated p-n transition NO ₂ sensor in metal-organic framework-derived CuO. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131605.	7.8	17

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37	Modulation of Thermoelectric Power Factor via Radial Dopant Inhomogeneity in B-Doped Si Nanowires. <i>Journal of the American Chemical Society</i> , 2014, 136, 14100-14106.	13.7	16
38	A lead-free K ₂ CuBr ₃ microwires-based humidity sensor realized via QCM for real-time breath monitoring. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132112.	7.8	16
39	An ultra-sensitive detection system for sulfur dioxide and nitric oxide based on improved differential optical absorption spectroscopy method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 233, 118169.	3.9	15
40	Self-assembled Nanowire Arrays as Three-dimensional Nanopores for Filtration of DNA Molecules. <i>Analytical Sciences</i> , 2015, 31, 153-157.	1.6	13
41	Lead-Free CsCu ₂ I ₃ Perovskite Nanostructured Networks Gas Sensor for Selective Detection of Trace Nitrogen Dioxide at Room Temperature. <i>IEEE Sensors Journal</i> , 2021, 21, 14677-14684.	4.7	13
42	Face-selective tungstate ions drive zinc oxide nanowire growth direction and dopant incorporation. <i>Communications Materials</i> , 2020, 1, .	6.9	12
43	In Situ Assembly of Ordered Hierarchical CuO Microhemisphere Nanowire Arrays for High-Performance Bifunctional Sensing Applications. <i>Small Methods</i> , 2021, 5, e2100202.	8.6	12
44	Switching Properties of Titanium Dioxide Nanowire Memristor. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 11PE09.	1.5	10
45	Nanoscale Size-Selective Deposition of Nanowires by Micrometer Scale Hydrophilic Patterns. <i>Scientific Reports</i> , 2014, 4, 5943.	3.3	9
46	Visible light boosting hydrophobic ZnO/(Sr _{0.6} Bi _{0.305}) ₂ Bi ₂ O ₇ chemiresistor toward ambient trimethylamine. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131076.	7.8	8
47	Tailoring Nucleation at Two Interfaces Enables Single Crystalline NiO Nanowires via Vapor-“Liquid”-Solid Route. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27892-27899.	8.0	6
48	Synthesis Strategy of Metal Oxide Quantum Wires via a Nanoparticle-Induced Graphene Oxide Rolling Procedure. <i>Inorganic Chemistry</i> , 2021, 60, 11070-11080.	4.0	4
49	Microstructure and Electrical Properties of PMN-PT Thin Films Prepared by Oxygen Plasma Assisted Pulsed Laser Deposition. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 1227-1232.	1.3	1
50	Evaluation of the Humidification Effect of Street Trees Based on All-Inorganic Lead-Free K ₂ CuBr ₃ Humidity Sensors. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1592-1602.	4.3	1
51	Facile Synthesis of Zinc Titanate Nanotubes via Reaction-byproduct Etching. <i>Chemistry Letters</i> , 2020, 49, 1220-1223.	1.3	0