Yanjie Su

List of Publications by Year in descending order

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70	3,063	126907	161849
papers	citations	33 h-index	54 g-index

73	73	73	3596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design of Hetero-Nanostructures on MoS₂ Nanosheets To Boost NO₂ Room-Temperature Sensing. ACS Applied Materials & Interfaces, 2018, 10, 22640-22649.	8.0	199
2	An ultrasensitive NO₂ gas sensor based on a hierarchical Cu₂O/CuO mesocrystal nanoflower. Journal of Materials Chemistry A, 2018, 6, 17120-17131.	10.3	122
3	Ti3C2Tx MXene/graphene nanocomposites: Synthesis and application in electrochemical energy storage. Journal of Alloys and Compounds, 2020, 815, 152403.	5.5	108
4	Construction of MoS2/SnO2 heterostructures for sensitive NO2 detection at room temperature. Applied Surface Science, 2019, 493, 613-619.	6.1	104
5	Interface engineered WS2/ZnS heterostructures for sensitive and reversible NO2 room temperature sensing. Sensors and Actuators B: Chemical, 2019, 296, 126666.	7.8	98
6	Enhanced NO₂ sensing performance of reduced graphene oxide by in situ anchoring carbon dots. Journal of Materials Chemistry C, 2017, 5, 6862-6871.	5.5	93
7	Ultrasensitive room temperature NO2 sensors based on liquid phase exfoliated WSe2 nanosheets. Sensors and Actuators B: Chemical, 2019, 300, 127013.	7.8	93
8	A non-enzymatic glucose sensor based on the composite of cubic Cu nanoparticles and arc-synthesized multi-walled carbon nanotubes. Biosensors and Bioelectronics, 2013, 47, 86-91.	10.1	91
9	Controllable synthesis of heterostructured CuOâ€“NiO nanotubes and their synergistic effect for glycol gas sensing. Sensors and Actuators B: Chemical, 2020, 304, 127347.	7.8	87
10	Two-dimensional Cd-doped porous Co3O4 nanosheets for enhanced room-temperature NO2 sensing performance. Sensors and Actuators B: Chemical, 2020, 305, 127393.	7.8	87
11	Two-dimensional NiO nanosheets with enhanced room temperature NO₂sensing performance via Al doping. Physical Chemistry Chemical Physics, 2017, 19, 19043-19049.	2.8	86
12	Light-assisted recovery for a highly-sensitive NO2 sensor based on RGO-CeO2 hybrids. Sensors and Actuators B: Chemical, 2018, 270, 119-129.	7.8	82
13	Paper-like graphene-Ag composite films with enhanced mechanical and electrical properties. Nanoscale Research Letters, 2013, 8, 32.	5.7	78
14	A Z-scheme photocatalyst for enhanced photocatalytic H2 evolution, constructed by growth of 2D plasmonic MoO3-x nanoplates onto 2D g-C3N4 nanosheets. Journal of Colloid and Interface Science, 2020, 567, 213-223.	9.4	77
15	Tunable band gap Cu2ZnSnS4xSe4(1â˜'x) nanocrystals: experimental and first-principles calculations. CrystEngComm, 2011, 13, 2222.	2.6	75
16	Sonochemical synthesis of hierarchical WO3 flower-like spheres for highly efficient triethylamine detection. Sensors and Actuators B: Chemical, 2020, 306, 127536.	7.8	75
17	Controllable synthesis of crescent-shaped porous NiO nanoplates for conductometric ethanol gas sensors. Sensors and Actuators B: Chemical, 2019, 296, 126642.	7.8	74
18	Direct Inkjet Printing of Aqueous Inks to Flexible All-Solid-State Graphene Hybrid Micro-Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 46044-46053.	8.0	70

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19	Glucose-assisted synthesis of hierarchical flower-like Co3O4 nanostructures assembled by porous nanosheets for enhanced acetone sensing. Sensors and Actuators B: Chemical, 2019, 288, 699-706.	7.8	66
20	Fast and recoverable NO₂ detection achieved by assembling ZnO on Ti₃C₂T_x MXene nanosheets under UV illumination at room temperature. Nanoscale, 2022, 14, 3441-3451.	5.6	65
21	Blue and green photoluminescence graphene quantum dots synthesized from carbon fibers. Materials Letters, 2013, 93, 161-164.	2.6	63
22	Two-dimensional MoSe₂ nanosheets via liquid-phase exfoliation for high-performance room temperature NO₂ gas sensors. Nanotechnology, 2019, 30, 445503.	2.6	63
23	Hierarchically ZnIn₂S₄ nanosheet-constructed microwire arrays: template-free synthesis and excellent photocatalytic performances. Nanoscale, 2018, 10, 4735-4744.	5.6	61
24	Laser-induced MnO/Mn3O4/N-doped-graphene hybrid as binder-free anodes for lithium ion batteries. Chemical Engineering Journal, 2020, 385, 123720.	12.7	56
25	Hierarchical WS₂â€“WO₃ Nanohybrids with Pâ€“N Heterojunctions for NO₂ Detection. ACS Applied Nano Materials, 2021, 4, 1626-1634.	5.0	56
26	Controlled growth of vertically aligned ultrathin In₂S₃ nanosheet arrays for photoelectrochemical water splitting. Nanoscale, 2018, 10, 1153-1161.	5.6	54
27	Non-woven fabric electrodes based on graphene-based fibers for areal-energy-dense flexible solid-state supercapacitors. Chemical Engineering Journal, 2020, 392, 123692.	12.7	48
28	Scalable synthesis of Î³-Fe2O3/CNT composite as high-performance anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2019, 770, 116-124.	5.5	47
29	Inkjet-Printed Ultrathin MoS₂-Based Electrodes for Flexible In-Plane Microsupercapacitors. ACS Applied Materials & Interfaces, 2020, 12, 39444-39454.	8.0	45
30	A Light-Weighted CNN Model for Wafer Structural Defect Detection. IEEE Access, 2020, 8, 24006-24018.	4.2	44
31	Highly repeatable and sensitive three-dimensional Î³-Fe2O3@reduced graphene oxide gas sensors by magnetic-field assisted assembly process. Sensors and Actuators B: Chemical, 2020, 306, 127546.	7.8	43
32	Graphene van der Waals heterostructures for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 11056-11067.	5.5	41
33	Dual-targeted therapy in HER2-positive breast cancer cells with the combination of carbon dots/HER3 siRNA and trastuzumab. Nanotechnology, 2020, 31, 335102.	2.6	38
34	Highly Sensitive Room-Temperature NO₂ Gas Sensors Based on Three-Dimensional Multiwalled Carbon Nanotube Networks on SiO₂ Nanospheres. ACS Sustainable Chemistry and Engineering, 2020, 8, 13915-13923.	6.7	34
35	High-Performance Wearable Sensor Inspired by the Neuron Conduction Mechanism through Gold-Induced Sulfur Vacancies. ACS Sensors, 2022, 7, 816-826.	7.8	34
36	Gas sensor based on defective graphene/pristine graphene hybrid towards high sensitivity detection of NO2. AIP Advances, 2019, 9, .	1.3	33

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37	Highly sensitive NO₂ gas sensors based on hexagonal SnS₂ nanoplates operating at room temperature. Nanotechnology, 2020, 31, 075501.	2.6	30
38	Semiconducting single-walled carbon nanotube/graphene van der Waals junctions for highly sensitive all-carbon hybrid humidity sensors. Journal of Materials Chemistry C, 2020, 8, 3386-3394.	5.5	30
39	Highly Sensitive Broadband Singleâ€Walled Carbon Nanotube Photodetectors Enhanced by Separated Graphene Nanosheets. Advanced Optical Materials, 2018, 6, 1800791.	7.3	29
40	Multichannel Room-Temperature Gas Sensors Based on Magnetic-Field-Aligned 3D Fe₃O₄@SiO₂@Reduced Graphene Oxide Spheres. ACS Applied Materials & Interfaces, 2020, 12, 37418-37426.	8.0	29
41	Large-scale synthesis of few-walled carbon nanotubes by DC arc discharge in low-pressure flowing air. Materials Research Bulletin, 2013, 48, 3232-3235.	5.2	27
42	Binder-Free, Flexible, and Self-Standing Non-Woven Fabric Anodes Based on Graphene/Si Hybrid Fibers for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 27270-27277.	8.0	27
43	Self-Powered Broadband Photodetector Based on Single-Walled Carbon Nanotube/GaAs Heterojunctions. ACS Sustainable Chemistry and Engineering, 2020, 8, 15532-15539.	6.7	26
44	Linear humidity response of carbon dot-modified molybdenum disulfide. Physical Chemistry Chemical Physics, 2018, 20, 4083-4091.	2.8	25
45	A one-dimensional extremely covalent material: monatomic carbon linear chain. Nanoscale Research Letters, 2011, 6, 577.	5.7	24
46	Room temperature DMMP gas sensing based on cobalt phthalocyanine derivative/graphene quantum dot hybrid materials. RSC Advances, 2021, 11, 14805-14813.	3.6	24
47	Enhancing room-temperature NO₂ gas sensing performance based on a metal phthalocyanine/graphene quantum dot hybrid material. RSC Advances, 2021, 11, 5618-5628.	3.6	22
48	Facile one-pot synthesis and band gap calculations of ZnxCd1â^'xS nanorods. Materials Letters, 2013, 102-103, 94-97.	2.6	20
49	Length-controlled synthesis of single-walled carbon nanotubes by arc discharge with variable cathode diameters. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1548-1551.	2.7	18
50	One-pot synthesis of ultranarrow single crystal ZnSe nanowires. Materials Letters, 2012, 67, 269-272.	2.6	18
51	Magnetic-field-induced diameter-selective synthesis of single-walled carbon nanotubes. Nanoscale, 2012, 4, 1717.	5.6	17
52	Synthesis of ternary PbxSn1â^'xS nanocrystals with tunable band gap. CrystEngComm, 2011, 13, 6628.	2.6	14
53	Enhancing room-temperature NO2 detection of cobalt phthalocyanine based gas sensor at an ultralow laser exposure. Physical Chemistry Chemical Physics, 2020, 22, 18499-18506.	2.8	14
54	Inverted SiC nanoneedles grown on carbon fibers by a two-crucible method without catalyst. Journal of Crystal Growth, 2012, 338, 6-11.	1.5	13

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55	Self-templated growth of CuInS2 nanosheet arrays for photoelectrochemical water splitting. Journal of Alloys and Compounds, 2019, 809, 151794.	5.5	13
56	Double-nucleation hydrothermal growth of dense and large-scale ZnO nanorod arrays with high aspect ratio on zinc substrate for stable photocatalytic property. Materials Letters, 2013, 107, 251-254.	2.6	11
57	Highly compressible carbon nanowires synthesized by coating single-walled carbon nanotubes. Carbon, 2011, 49, 3579-3584.	10.3	9
58	Enhancing the photosensitivity of C60 nanorod visible photodetectors by coupling with Cu2O nanocubes. Journal of Materials Chemistry C, 2018, 6, 1715-1721.	5.5	9
59	Laser-Induced MoO_x/Sulfur-Doped Graphene Hybrid Frameworks as Efficient Antibacterial Agents. Langmuir, 2021, 37, 1596-1604.	3.5	8
60	3D highly efficient photonic micro concave-pit arrays for enhanced solar water splitting. Nanoscale, 2019, 11, 18071-18080.	5.6	5
61	Controlled Synthesis of Different Metal Oxide Nanostructures by Direct Current Arc Discharge. Journal of Nanoscience and Nanotechnology, 2013, 13, 1078-1081.	0.9	4
62	Lithium titanate nanoplates embedded with graphene quantum dots as electrode materials for high-rate lithium-ion batteries. Nanotechnology, 2021, 32, 505403.	2.6	4
63	Vapor-phase chemical synthesis of magnesium oxide nanowires by DC arc discharge. Journal of Nanoparticle Research, 2011, 13, 3229-3233.	1.9	3
64	An Accurate In-Fixture Measurement Method for AlN Film Bulk Acoustic Resonators. , 2012, , .		0
65	All-Carbon van der Waals Heterojunction Photodetectors. Springer Series in Materials Science, 2022, , 131-147.	0.6	0
66	Carbon-Based Heterojunction Broadband Photodetectors. Springer Series in Materials Science, 2022, , 91-129.	0.6	0
67	Introduction of Carbon Nanostructures. Springer Series in Materials Science, 2022, , 1-26.	0.6	0
68	Carbon Nanotube/semiconductor van der Waals Heterojunction Solar Cells. Springer Series in Materials Science, 2022, , 149-170.	0.6	0
69	Characterizations of Carbon Nanotubes and Graphene. Springer Series in Materials Science, 2022, , 65-90.	0.6	0
70	Controlled Growths of Carbon Nanotubes and Graphene. Springer Series in Materials Science, 2022, , 41-64.	0.6	0