

Yanjie Su

List of Publications by Year in descending order

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70
papers

3,063
citations

126907

33
h-index

161849

54
g-index

73
all docs

73
docs citations

73
times ranked

3596
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Carbon van der Waals Heterojunction Photodetectors. Springer Series in Materials Science, 2022, , 131-147.	0.6	0
2	Carbon-Based Heterojunction Broadband Photodetectors. Springer Series in Materials Science, 2022, , 91-129.	0.6	0
3	Introduction of Carbon Nanostructures. Springer Series in Materials Science, 2022, , 1-26.	0.6	0
4	Carbon Nanotube/semiconductor van der Waals Heterojunction Solar Cells. Springer Series in Materials Science, 2022, , 149-170.	0.6	0
5	Characterizations of Carbon Nanotubes and Graphene. Springer Series in Materials Science, 2022, , 65-90.	0.6	0
6	Controlled Growths of Carbon Nanotubes and Graphene. Springer Series in Materials Science, 2022, , 41-64.	0.6	0
7	Fast and recoverable NO ₂ detection achieved by assembling ZnO on Ti ₃ C ₂ T _x MXene nanosheets under UV illumination at room temperature. Nanoscale, 2022, 14, 3441-3451.	5.6	65
8	High-Performance Wearable Sensor Inspired by the Neuron Conduction Mechanism through Gold-Induced Sulfur Vacancies. ACS Sensors, 2022, 7, 816-826.	7.8	34
9	Laser-Induced MoO _x /Sulfur-Doped Graphene Hybrid Frameworks as Efficient Antibacterial Agents. Langmuir, 2021, 37, 1596-1604.	3.5	8
10	Enhancing room-temperature NO ₂ gas sensing performance based on a metal phthalocyanine/graphene quantum dot hybrid material. RSC Advances, 2021, 11, 5618-5628.	3.6	22
11	Hierarchical WS ₂ @"WO ₃ Nanohybrids with P-N Heterojunctions for NO ₂ Detection. ACS Applied Nano Materials, 2021, 4, 1626-1634.	5.0	56
12	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
13	Lithium titanate nanoplates embedded with graphene quantum dots as electrode materials for high-rate lithium-ion batteries. Nanotechnology, 2021, 32, 505403.	2.6	4
14	Room temperature DMMP gas sensing based on cobalt phthalocyanine derivative/graphene quantum dot hybrid materials. RSC Advances, 2021, 11, 14805-14813.	3.6	24
15	Ti ₃ C ₂ T _x MXene/graphene nanocomposites: Synthesis and application in electrochemical energy storage. Journal of Alloys and Compounds, 2020, 815, 152403.	5.5	108
16	Controllable synthesis of heterostructured CuO@"NiO nanotubes and their synergistic effect for glycol gas sensing. Sensors and Actuators B: Chemical, 2020, 304, 127347.	7.8	87
17	Two-dimensional Cd-doped porous Co ₃ O ₄ nanosheets for enhanced room-temperature NO ₂ sensing performance. Sensors and Actuators B: Chemical, 2020, 305, 127393.	7.8	87
18	Highly sensitive NO ₂ gas sensors based on hexagonal SnS ₂ nanoplates operating at room temperature. Nanotechnology, 2020, 31, 075501.	2.6	30

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19	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.	12.7	56
20	Highly repeatable and sensitive three-dimensional γ -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.	7.8	43
21	Sonochemical synthesis of hierarchical WO ₃ flower-like spheres for highly efficient triethylamine detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127536.	7.8	75
22	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.	12.7	48
23	Self-Powered Broadband Photodetector Based on Single-Walled Carbon Nanotube/GaAs Heterojunctions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15532-15539.	6.7	26
24	A Z-scheme photocatalyst for enhanced photocatalytic H ₂ evolution, constructed by growth of 2D plasmonic MoO _{3-x} nanoplates onto 2D g-C ₃ N ₄ nanosheets. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 213-223.	9.4	77
25	Inkjet-Printed Ultrathin MoS ₂ -Based Electrodes for Flexible In-Plane Microsupercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39444-39454.	8.0	45
26	Enhancing room-temperature NO ₂ detection of cobalt phthalocyanine based gas sensor at an ultralow laser exposure. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18499-18506.	2.8	14
27	Multichannel Room-Temperature Gas Sensors Based on Magnetic-Field-Aligned 3D Fe ₃ O ₄ @SiO ₂ @Reduced Graphene Oxide Spheres. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37418-37426.	8.0	29
28	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.	6.7	34
29	A Light-Weighted CNN Model for Wafer Structural Defect Detection. <i>IEEE Access</i> , 2020, 8, 24006-24018.	4.2	44
30	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.	5.5	30
31	Dual-targeted therapy in HER2-positive breast cancer cells with the combination of carbon dots/HER3 siRNA and trastuzumab. <i>Nanotechnology</i> , 2020, 31, 335102.	2.6	38
32	Scalable synthesis of γ -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.	5.5	47
33	Graphene van der Waals heterostructures for high-performance photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11056-11067.	5.5	41
34	Self-templated growth of CuInS ₂ nanosheet arrays for photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151794.	5.5	13
35	3D highly efficient photonic micro concave-pit arrays for enhanced solar water splitting. <i>Nanoscale</i> , 2019, 11, 18071-18080.	5.6	5
36	Gas sensor based on defective graphene/pristine graphene hybrid towards high sensitivity detection of NO ₂ . <i>AIP Advances</i> , 2019, 9, .	1.3	33

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37	Construction of MoS ₂ /SnO ₂ heterostructures for sensitive NO ₂ detection at room temperature. Applied Surface Science, 2019, 493, 613-619.	6.1	104
38	Two-dimensional MoSe ₂ nanosheets via liquid-phase exfoliation for high-performance room temperature NO ₂ gas sensors. Nanotechnology, 2019, 30, 445503.	2.6	63
39	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
40	Ultrasensitive room temperature NO ₂ sensors based on liquid phase exfoliated WSe ₂ nanosheets. Sensors and Actuators B: Chemical, 2019, 300, 127013.	7.8	93
41	Interface engineered WS ₂ /ZnS heterostructures for sensitive and reversible NO ₂ room temperature sensing. Sensors and Actuators B: Chemical, 2019, 296, 126666.	7.8	98
42	Controllable synthesis of crescent-shaped porous NiO nanoplates for conductometric ethanol gas sensors. Sensors and Actuators B: Chemical, 2019, 296, 126642.	7.8	74
43	Glucose-assisted synthesis of hierarchical flower-like Co ₃ O ₄ nanostructures assembled by porous nanosheets for enhanced acetone sensing. Sensors and Actuators B: Chemical, 2019, 288, 699-706.	7.8	66
44	Hierarchically ZnIn ₂ S ₄ nanosheet-constructed microwire arrays: template-free synthesis and excellent photocatalytic performances. Nanoscale, 2018, 10, 4735-4744.	5.6	61
45	Enhancing the photosensitivity of C ₆₀ nanorod visible photodetectors by coupling with Cu ₂ O nanocubes. Journal of Materials Chemistry C, 2018, 6, 1715-1721.	5.5	9
46	Linear humidity response of carbon dot-modified molybdenum disulfide. Physical Chemistry Chemical Physics, 2018, 20, 4083-4091.	2.8	25
47	Controlled growth of vertically aligned ultrathin In ₂ S ₃ nanosheet arrays for photoelectrochemical water splitting. Nanoscale, 2018, 10, 1153-1161.	5.6	54
48	Highly Sensitive Broadband Single-Walled Carbon Nanotube Photodetectors Enhanced by Separated Graphene Nanosheets. Advanced Optical Materials, 2018, 6, 1800791.	7.3	29
49	Light-assisted recovery for a highly-sensitive NO ₂ sensor based on RGO-CeO ₂ hybrids. Sensors and Actuators B: Chemical, 2018, 270, 119-129.	7.8	82
50	An ultrasensitive NO ₂ gas sensor based on a hierarchical Cu ₂ O/CuO mesocrystal nanoflower. Journal of Materials Chemistry A, 2018, 6, 17120-17131.	10.3	122
51	Design of Hetero-Nanostructures on MoS ₂ Nanosheets To Boost NO ₂ Room-Temperature Sensing. ACS Applied Materials & Interfaces, 2018, 10, 22640-22649.	8.0	199
52	Enhanced NO ₂ sensing performance of reduced graphene oxide by in situ anchoring carbon dots. Journal of Materials Chemistry C, 2017, 5, 6862-6871.	5.5	93
53	Two-dimensional NiO nanosheets with enhanced room temperature NO ₂ sensing performance via Al doping. Physical Chemistry Chemical Physics, 2017, 19, 19043-19049.	2.8	86
54	Paper-like graphene-Ag composite films with enhanced mechanical and electrical properties. Nanoscale Research Letters, 2013, 8, 32.	5.7	78

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55	Double-nucleation hydrothermal growth of dense and large-scale ZnO nanorod arrays with high aspect ratio on zinc substrate for stable photocatalytic property. <i>Materials Letters</i> , 2013, 107, 251-254.	2.6	11
56	Large-scale synthesis of few-walled carbon nanotubes by DC arc discharge in low-pressure flowing air. <i>Materials Research Bulletin</i> , 2013, 48, 3232-3235.	5.2	27
57	Facile one-pot synthesis and band gap calculations of $Zn_xCd_{1-x}S$ nanorods. <i>Materials Letters</i> , 2013, 102-103, 94-97.	2.6	20
58	Blue and green photoluminescence graphene quantum dots synthesized from carbon fibers. <i>Materials Letters</i> , 2013, 93, 161-164.	2.6	63
59	A non-enzymatic glucose sensor based on the composite of cubic Cu nanoparticles and arc-synthesized multi-walled carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2013, 47, 86-91.	10.1	91
60	Controlled Synthesis of Different Metal Oxide Nanostructures by Direct Current Arc Discharge. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1078-1081.	0.9	4
61	Length-controlled synthesis of single-walled carbon nanotubes by arc discharge with variable cathode diameters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1548-1551.	2.7	18
62	Inverted SiC nanoneedles grown on carbon fibers by a two-crucible method without catalyst. <i>Journal of Crystal Growth</i> , 2012, 338, 6-11.	1.5	13
63	An Accurate In-Fixture Measurement Method for AlN Film Bulk Acoustic Resonators. , 2012, , .		0
64	Magnetic-field-induced diameter-selective synthesis of single-walled carbon nanotubes. <i>Nanoscale</i> , 2012, 4, 1717.	5.6	17
65	One-pot synthesis of ultranarrow single crystal ZnSe nanowires. <i>Materials Letters</i> , 2012, 67, 269-272.	2.6	18
66	Synthesis of ternary $Pb_xSn_{1-x}S$ nanocrystals with tunable band gap. <i>CrystEngComm</i> , 2011, 13, 6628.	2.6	14
67	Tunable band gap $Cu_2ZnSnS_4(1-x)$ nanocrystals: experimental and first-principles calculations. <i>CrystEngComm</i> , 2011, 13, 2222.	2.6	75
68	Vapor-phase chemical synthesis of magnesium oxide nanowires by DC arc discharge. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3229-3233.	1.9	3
69	A one-dimensional extremely covalent material: monatomic carbon linear chain. <i>Nanoscale Research Letters</i> , 2011, 6, 577.	5.7	24
70	Highly compressible carbon nanowires synthesized by coating single-walled carbon nanotubes. <i>Carbon</i> , 2011, 49, 3579-3584.	10.3	9