Dawen Zeng

List of Publications by Year
in descending order

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48	3,618	147801	206112
papers	citations	31 h-index	48 g-index

48	48	48	5080
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interfacing transition metal dichalcogenides with chromium germanium telluride quantum dots for controllable light-matter interactions. Journal of Colloid and Interface Science, 2022, 611, 432-440.	9.4	2
2	A review on two-dimensional materials for chemiresistive- and FET-type gas sensors. Physical Chemistry Chemical Physics, 2021, 23, 15420-15439.	2.8	49
3	Two-Dimensional Hexagonal Boron Nitride for Building Next-Generation Energy-Efficient Devices. ACS Energy Letters, 2021, 6, 985-996.	17.4	37
4	2D organic single crystals: Synthesis, novel physics, high-performance optoelectronic devices and integration. Materials Today, 2021, 50, 442-475.	14.2	32
5	Twist-driven wide freedom of indirect interlayer exciton emission in MoS2/WS2 heterobilayers. Cell Reports Physical Science, 2021, 2, 100509.	5.6	23
6	Vanadium-Doped Monolayer MoS₂ with Tunable Optical Properties for Field-Effect Transistors. ACS Applied Nano Materials, 2021, 4, 769-777.	5.0	39
7	A new approach for an ultrasensitive tactile sensor covering an ultrawide pressure range based on the hierarchical pressure-peak effect. Nanoscale Horizons, 2020, 5, 541-552.	8.0	41
8	Catalytic Activation of Cobalt Doping Sites in ZIF-71-Coated ZnO Nanorod Arrays for Enhancing Gas-Sensing Performance to Acetone. ACS Applied Materials & Interfaces, 2020, 12, 48948-48956.	8.0	47
9	Mechanisms and Applications of Steady-State Photoluminescence Spectroscopy in Two-Dimensional Transition-Metal Dichalcogenides. ACS Nano, 2020, 14, 14579-14604.	14.6	56
10	Emission Control from Transition Metal Dichalcogenide Monolayers by Aggregation-Induced Molecular Rotors. ACS Nano, 2020, 14, 7444-7453.	14.6	23
11	Mechanistic study of Nâ€“H- and Hâ€“N-codoping of a TiO₂ photocatalyst for efficient degradation of benzene under visible light. RSC Advances, 2020, 10, 2757-2766.	3.6	10
12	Molecular sieving property adjusted by the encapsulation of Ag nanoparticles into ZnO@ZIF-71 nanorod arrays. Chemical Communications, 2019, 55, 11045-11048.	4.1	7
13	Modulated interlayer charge transfer dynamics in a monolayer TMD/metal junction. Nanoscale, 2019, 11, 418-425.	5.6	33
14	A facile low-temperature synthesis of hierarchical porous Co₃O₄ micro/nano structures derived from ZIF-67 assisted by ammonium perchlorate. Inorganic Chemistry Frontiers, 2019, 6, 715-722.	6.0	68
15	Solar Cells: Quantifying Quasiâ€Fermi Level Splitting and Mapping its Heterogeneity in Atomically Thin Transition Metal Dichalcogenides (Adv. Mater. 25/2019). Advanced Materials, 2019, 31, 1970180.	21.0	2
16	Quantifying Quasiâ€Fermi Level Splitting and Mapping its Heterogeneity in Atomically Thin Transition Metal Dichalcogenides. Advanced Materials, 2019, 31, e1900522.	21.0	34
17	High-Adhesion Stretchable Electrode via Cross-Linking Intensified Electroless Deposition on a Biomimetic Elastomeric Micropore Film. ACS Applied Materials & Interfaces, 2019, 11, 20535-20544.	8.0	33
18	Gas Adsorption at Metal Sites for Enhancing Gas Sensing Performance of ZnO@ZIF-71 Nanorod Arrays. Langmuir, 2019, 35, 3248-3255.	3.5	40

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19	Aluminium and zinc co-doped CuInS2 QDs for enhanced trion modulation in monolayer WS2 toward improved electrical properties. Journal of Materials Chemistry C, 2019, 7, 15074-15081.	5.5	12
20	Multilevel Microstructured Flexible Pressure Sensors with Ultrahigh Sensitivity and Ultrawide Pressure Range for Versatile Electronic Skins. Small, 2019, 15, e1804559.	10.0	163
21	Enhanced room-temperature NH3 gas sensing by 2D SnS2 with sulfur vacancies synthesized by chemical exfoliation. Sensors and Actuators B: Chemical, 2018, 262, 771-779.	7.8	140
22	Pore size dependent gas-sensing selectivity based on ZnO@ZIF nanorod arrays. Sensors and Actuators B: Chemical, 2018, 258, 1099-1106.	7.8	134
23	Metal-oxide-semiconductor based gas sensors: screening, preparation, and integration. Physical Chemistry Chemical Physics, 2017, 19, 6313-6329.	2.8	400
24	Effect of layer number on recovery rate of WS 2 nanosheets for ammonia detection at room temperature. Applied Surface Science, 2017, 414, 244-250.	6.1	107
25	Origin of the efficient catalytic thermal decomposition of ammonium perchlorate over (2â˜1â˜10) facets of ZnO nanosheets: surface lattice oxygen. RSC Advances, 2017, 7, 40262-40269.	3.6	18
26	2D WS2 nanosheets with TiO2 quantum dots decoration for high-performance ammonia gas sensing at room temperature. Sensors and Actuators B: Chemical, 2017, 253, 1034-1042.	7.8	128
27	Enhanced visible-light photocatalytic performance of highly-dispersed Pt/g-C₃N₄ nanocomposites by one-step solvothermal treatment. RSC Advances, 2017, 7, 33552-33557.	3.6	36
28	In situ synthesis of C-TiO2/g-C3N4 heterojunction nanocomposite as highly visible light active photocatalyst originated from effective interfacial charge transfer. Applied Catalysis B: Environmental, 2017, 202, 489-499.	20.2	262
29	Enhanced room temperature NO₂ response of NiOâ€“SnO₂ nanocomposites induced by interface bonds at the pâ€“n heterojunction. Physical Chemistry Chemical Physics, 2016, 18, 5386-5396.	2.8	47
30	Graphene-wrapped WO3 nanospheres with room-temperature NO2 sensing induced by interface charge transfer. Sensors and Actuators B: Chemical, 2015, 220, 201-209.	7.8	91
31	Interface Bonds Determined Gas-Sensing of SnO₂â€“SnS₂ Hybrids to Ammonia at Room Temperature. ACS Applied Materials & Interfaces, 2015, 7, 11359-11368.	8.0	191
32	Room temperature NO₂ sensing: what advantage does the rGOâ€“NiO nanocomposite have over pristine NiO?. Physical Chemistry Chemical Physics, 2015, 17, 14903-14911.	2.8	59
33	Hierarchical ZnO hollow microspheres with exposed (001) facets as promising catalysts for the thermal decomposition of ammonium perchlorate. CrystEngComm, 2015, 17, 8689-8696.	2.6	26
34	Enhanced response to NO2 with CuO/ZnO laminated heterostructured configuration. Sensors and Actuators B: Chemical, 2014, 195, 500-508.	7.8	33
35	Selectively enhanced UV and NIR photoluminescence from a degenerate ZnO nanorod array film. Journal of Materials Chemistry C, 2014, 2, 4566.	5.5	104
36	The atomic origin of high catalytic activity of ZnO nanotetrapods for decomposition of ammonium perchlorate. CrystEngComm, 2014, 16, 570-574.	2.6	43

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37	Temperature-Programmed Technique Accompanied with High-Throughput Methodology for Rapidly Searching the Optimal Operating Temperature of MOX Gas Sensors. ACS Combinatorial Science, 2014, 16, 459-465.	3.8	11
38	Synthesis of a novel N H TiO 2 photocatalyst by annealing in NH 3 and H 2 for complete decomposition of high concentration benzene under visible light irradiation. Materials Letters, 2014, 136, 258-261.	2.6	10
39	A novel approach to fabricate metal oxide nanowire-like networks based coplanar gas sensors array for enhanced selectivity. Sensors and Actuators B: Chemical, 2014, 204, 351-359.	7.8	38
40	ZnO Micro/Nanocrystals with Tunable Exposed (0001) Facets for Enhanced Catalytic Activity on the Thermal Decomposition of Ammonium Perchlorate. Journal of Physical Chemistry C, 2014, 118, 11833-11841.	3.1	95
41	Al-doping induced formation of oxygen-vacancy for enhancing gas-sensing properties of SnO2 NTs by electrospinning. Sensors and Actuators B: Chemical, 2014, 198, 62-69.	7.8	107
42	Hierarchical porous SnO2 micro-rods topologically transferred from tin oxalate for fast response sensors to trace formaldehyde. Sensors and Actuators B: Chemical, 2014, 190, 585-592.	7.8	87
43	Pore-size-dependent sensing property of hierarchical SnO2 mesoporous microfibers as formaldehyde sensors. Sensors and Actuators B: Chemical, 2013, 186, 640-647.	7.8	64
44	An In2O3 nanowire-like network fabricated on coplanar sensor surface by sacrificial CNTs for enhanced gas sensing performance. Sensors and Actuators B: Chemical, 2013, 185, 345-353.	7.8	46
45	La2O3-sensitized SnO2 nanocrystalline porous film gas sensors and sensing mechanism toward formaldehyde. Sensors and Actuators B: Chemical, 2013, 188, 137-146.	7.8	70
46	Processingâ€“microstructureâ€“property correlations of gas sensors based on ZnO nanotetrapods. Sensors and Actuators B: Chemical, 2013, 181, 509-517.	7.8	28
47	Enhanced Photocatalytic Activity of Chemically Bonded TiO₂/Graphene Composites Based on the Effective Interfacial Charge Transfer through the Câ€“Ti Bond. ACS Catalysis, 2013, 3, 1477-1485.	11.2	461
48	Characterization of Photoelectric Properties and Composition Effect of TiO₂/ZnO/Fe₂O₃ Composite by Combinatorial Methodology. ACS Combinatorial Science, 2010, 12, 883-889.	3.3	31