

Haitao Dai

List of Publications by Year in descending order

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55
papers

1,980
citations

201674

27
h-index

243625

44
g-index

60
all docs

60
docs citations

60
times ranked

3331
citing authors

#	ARTICLE	IF	CITATIONS
1	A Chiral Reduced-Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6442-6450.	13.8	178
2	Black Phosphorus Quantum Dot Induced Oxidative Stress and Toxicity in Living Cells and Mice. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20399-20409.	8.0	128
3	PbS-Decorated WS ₂ Phototransistors with Fast Response. <i>ACS Photonics</i> , 2017, 4, 950-956.	6.6	111
4	Thin film perovskite light-emitting diode based on CsPbBr ₃ powders and interfacial engineering. <i>Nano Energy</i> , 2017, 37, 40-45.	16.0	107
5	Broadband Phototransistor Based on CH ₃ NH ₃ PbI ₃ Perovskite and PbSe Quantum Dot Heterojunction. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 445-451.	4.6	99
6	Redox Trimetallic Nanozyme with Neutral Environment Preference for Brain Injury. <i>ACS Nano</i> , 2019, 13, 1870-1884.	14.6	90
7	Advanced three-component ZnO/Ag/CdS nanocomposite photoanode for photocatalytic water splitting. <i>Journal of Power Sources</i> , 2014, 269, 466-472.	7.8	82
8	Bright and efficient light-emitting diodes based on MA/Cs double cation perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6123-6128.	5.5	67
9	Enhanced hydrogen evolution reaction of WS ₂ /CoS ₂ heterostructure by synergistic effect. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 809-818.	7.1	60
10	Catalytic patch with redox Cr/CeO ₂ nanozyme of noninvasive intervention for brain trauma. <i>Theranostics</i> , 2021, 11, 2806-2821.	10.0	60
11	Light assisted multilevel resistive switching memory devices based on all-inorganic perovskite quantum dots. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	55
12	A Chiral Reduced-Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. <i>Angewandte Chemie</i> , 2020, 132, 6504-6512.	2.0	54
13	All-Perovskite Photodetector with Fast Response. <i>Nanoscale Research Letters</i> , 2019, 14, 291.	5.7	48
14	Hollow PtPdRh Nanocubes with Enhanced Catalytic Activities for In Vivo Clearance of Radiation-Induced ROS via Surface-Mediated Bond Breaking. <i>Small</i> , 2018, 14, e1703736.	10.0	47
15	Multiheterojunction Phototransistors Based on Graphene/PbSe Quantum Dot Hybrids. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21739-21743.	3.1	43
16	Highly Photosensitive Vertical Phototransistors Based on a Poly(3-hexylthiophene) and PbS Quantum Dot Layered Heterojunction. <i>ACS Photonics</i> , 2017, 4, 584-592.	6.6	43
17	Improved photoelectrochemical property of a nanocomposite NiO/CdS@ZnO photoanode for water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 40-46.	6.2	42
18	Artificial synapses with photoelectric plasticity and memory behaviors based on charge trapping memristive system. <i>Materials and Design</i> , 2020, 188, 108415.	7.0	41

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19	Optical biosensor based on liquid crystal droplets for detection of cholic acid. Optics Communications, 2016, 381, 286-291.	2.1	40
20	All-solution processed composite hole transport layer for quantum dot light emitting diode. Thin Solid Films, 2016, 603, 187-192.	1.8	39
21	High Performances for Solution-Processed OD-OD Heterojunction Phototransistors. Advanced Optical Materials, 2017, 5, 1700565.	7.3	39
22	Broadband photoelectric tunable quantum dot based resistive random access memory. Journal of Materials Chemistry C, 2020, 8, 2178-2185.	5.5	37
23	All-Optical Switchable Vanadium Dioxide Integrated Coding Metasurfaces for Wavefront and Polarization Manipulation of Terahertz Beams. Advanced Theory and Simulations, 2020, 3, 1900183.	2.8	36
24	Bistable Smart Window Based on Ionic Liquid Doped Cholesteric Liquid Crystal. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	35
25	Performance enhancement of perovskite solar cells by employing TiO ₂ nanorod arrays decorated with CuInS ₂ quantum dots. Journal of Colloid and Interface Science, 2018, 513, 693-699.	9.4	32
26	Mesoporous CoP Nanowire Arrays for Hydrogen Evolution. ACS Applied Nano Materials, 2019, 2, 5922-5930.	5.0	32
27	Controlled one-step synthesis of CdS@ZnS core-shell particles for efficient photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 2924-2930.	7.1	31
28	Ambipolar Quantum-Dot-Based Low-Voltage Nonvolatile Memory with Double Floating Gates. ACS Photonics, 2017, 4, 2220-2227.	6.6	26
29	Enhance photoelectrochemical hydrogen-generation activity and stability of TiO ₂ nanorod arrays sensitized by PbS and CdS quantum dots under UV-visible light. Nanoscale Research Letters, 2015, 10, 418.	5.7	24
30	Renal Clearable Luminescent WSe ₂ for Radioprotection of Nontargeted Tissues during Radiotherapy. Particle and Particle Systems Characterization, 2017, 34, 1700035.	2.3	24
31	High-performance PbS quantum dot vertical field-effect phototransistor using graphene as a transparent electrode. Applied Physics Letters, 2016, 109, .	3.3	23
32	Low operating voltage ambipolar graphene oxide-floating-gate memory devices based on quantum dots. Journal of Materials Chemistry C, 2016, 4, 1420-1424.	5.5	23
33	Write once read many times resistance switching memory based on all-inorganic perovskite CsPbBr ₃ quantum dot. Optical Materials, 2019, 90, 123-126.	3.6	20
34	Low-voltage all-inorganic perovskite quantum dot transistor memory. Applied Physics Letters, 2018, 112, .	3.3	19
35	Improving the Water Oxidation Efficiency with a Light-Induced Electric Field in Nanograting Photoanodes. Nano Letters, 2019, 19, 6133-6139.	9.1	16
36	Ambipolar nonvolatile memory based on a quantum-dot transistor with a nanoscale floating gate. Applied Physics Letters, 2016, 109, .	3.3	15

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37	Light enhanced low-voltage nonvolatile memory based on all-inorganic perovskite quantum dots. <i>Nanotechnology</i> , 2019, 30, 37LT01.	2.6	13
38	Nickel Oxide Nanosheets for Enhanced Photoelectrochemical Water Splitting by Hematite (Fe_2O_3) Nanowire Arrays. <i>Energy Technology</i> , 2016, 4, 758-763.	3.8	12
39	Short Channel Quantum Dot Vertical and Lateral Phototransistors. <i>Advanced Optical Materials</i> , 2017, 5, 1600434.	7.3	11
40	Microfluid-enabled fine tuning of circular dichroism from chiral metasurfaces. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 415102.	2.8	10
41	Photoelectricity and thermoelectricity in organic chlorophyll phototransistors. <i>Organic Electronics</i> , 2019, 65, 381-385.	2.6	10
42	Improving the performance of ultra-flexible perovskite photodetectors through cation engineering. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 235107.	2.8	9
43	Optical control of terahertz plasmon-induced transparency based on hybrid CsPbBr_3 quantum dot metasurfaces. <i>Optics Express</i> , 2020, 28, 24047.	3.4	7
44	A Bio-inspired Extended-Gate Metal-Oxide-Semiconductor Field-Effect-Transistor for Highly Sensitive Amino Acid Enantiodiscrimination. <i>Analytical Chemistry</i> , 2021, 93, 14425-14431.	6.5	7
45	Enhanced electroluminescence of all-inorganic colloidal quantum dot light-emitting diode by optimising the MoO ₃ intermediate layer. <i>Micro and Nano Letters</i> , 2014, 9, 421-424.	1.3	6
46	High-performance and stability bifacial flexible self-powered perovskite photodetector by surface plasmon resonance and hydrophobic treatments. <i>Organic Electronics</i> , 2021, 99, 106330.	2.6	5
47	Lasing properties from dye-doped holographic polymer dispersed liquid crystal confined in two-dimensional cylindrical geometry. <i>Optical Materials Express</i> , 2016, 6, 1367.	3.0	4
48	The focusing properties of spin wave with Fresnel lens phase profile. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 505, 166756.	2.3	4
49	Thermally and optically tunable lasing properties from dye-doped holographic polymer dispersed liquid crystal in capillaries. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	3
50	A Broadband Phototransistor Based on Three-Dimensional Reduced Graphene Oxide Foam. <i>Nanomaterials</i> , 2018, 8, 913.	4.1	3
51	Interfacial reconstruction, exchange bias and photocurrent effect in epitaxial $\text{Fe}_3\text{O}_4/\text{Co}_3\text{O}_4$ spinel heterostructure. <i>Applied Surface Science</i> , 2019, 493, 1236-1242.	6.1	3
52	Influence of thermal growth of Au nanoparticles in the coupling efficiency of Au/SiO ₂ nanocomposite grating coupler. <i>Nanotechnology</i> , 2021, 32, 315302.	2.6	2
53	Modification of interface and electronic transport in van der Waals heterojunctions by UV/O ₃ . <i>Nanotechnology</i> , 2021, 32, 415703.	2.6	2
54	Fabrication of two-dimensional Au/SiO ₂ nanocomposite arrays and their diffractive properties. <i>Optics Communications</i> , 2021, 482, 126589.	2.1	1

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55	Magnetically tunable Maxwell fisheye lens for spin waves focusing. Journal of Magnetism and Magnetic Materials, 2022, 545, 168743.	2.3	1