

# Haitao Dai

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Magnetically tunable Maxwell fisheye lens for spin waves focusing. Journal of Magnetism and Magnetic Materials, 2022, 545, 168743.	2.3	1
2	Fabrication of two-dimensional Au/SiO <sub>2</sub> nanocomposite arrays and their diffractive properties. Optics Communications, 2021, 482, 126589.	2.1	1
3	Catalytic patch with redox Cr/CeO <sub>2</sub> nanozyme of noninvasive intervention for brain trauma. Theranostics, 2021, 11, 2806-2821.	10.0	60
4	Influence of thermal growth of Au nanoparticles in the coupling efficiency of Au/SiO <sub>2</sub> nanocomposite grating coupler. Nanotechnology, 2021, 32, 315302.	2.6	2
5	Modification of interface and electronic transport in van der Waals heterojunctions by UV/O <sub>3</sub> . Nanotechnology, 2021, 32, 415703.	2.6	2
6	High-performance and stability bifacial flexible self-powered perovskite photodetector by surface plasmon resonance and hydrophobic treatments. Organic Electronics, 2021, 99, 106330.	2.6	5
7	A Bio-inspired Extended-Gate Metal-Oxide-Semiconductor Field-Effect-Transistor for Highly Sensitive Amino Acid Enantiodiscrimination. Analytical Chemistry, 2021, 93, 14425-14431.	6.5	7
8	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
9	Artificial synapses with photoelectric plasticity and memory behaviors based on charge trapping memristive system. Materials and Design, 2020, 188, 108415.	7.0	41
10	The focusing properties of spin wave with Fresnel lens phase profile. Journal of Magnetism and Magnetic Materials, 2020, 505, 166756.	2.3	4
11	Improving the performance of ultra-flexible perovskite photodetectors through cation engineering. Journal Physics D: Applied Physics, 2020, 53, 235107.	2.8	9
12	A Chiral Reduced-Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. Angewandte Chemie, 2020, 132, 6504-6512.	2.0	54
13	Broadband photoelectric tunable quantum dot based resistive random access memory. Journal of Materials Chemistry C, 2020, 8, 2178-2185.	5.5	37
14	A Chiral Reduced-Dimension Perovskite for an Efficient Flexible Circularly Polarized Light Photodetector. Angewandte Chemie - International Edition, 2020, 59, 6442-6450.	13.8	178
15	Optical control of terahertz plasmon-induced transparency based on hybrid CsPbBr <sub>3</sub> quantum dot metasurfaces. Optics Express, 2020, 28, 24047.	3.4	7
16	Improving the Water Oxidation Efficiency with a Light-Induced Electric Field in Nanograting Photoanodes. Nano Letters, 2019, 19, 6133-6139.	9.1	16
17	Microfluid-enabled fine tuning of circular dichroism from chiral metasurfaces. Journal Physics D: Applied Physics, 2019, 52, 415102.	2.8	10
18	Interfacial reconstruction, exchange bias and photocurrent effect in epitaxial Fe <sub>3</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> spinel heterostructure. Applied Surface Science, 2019, 493, 1236-1242.	6.1	3

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19	Mesoporous CoP Nanowire Arrays for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2019, 2, 5922-5930.	5.0	32
20	Light enhanced low-voltage nonvolatile memory based on all-inorganic perovskite quantum dots. <i>Nanotechnology</i> , 2019, 30, 37LT01.	2.6	13
21	Light assisted multilevel resistive switching memory devices based on all-inorganic perovskite quantum dots. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	55
22	Write once read many times resistance switching memory based on all-inorganic perovskite CsPbBr <sub>3</sub> quantum dot. <i>Optical Materials</i> , 2019, 90, 123-126.	3.6	20
23	Redox Trimetallic Nanozyme with Neutral Environment Preference for Brain Injury. <i>ACS Nano</i> , 2019, 13, 1870-1884.	14.6	90
24	All-Perovskite Photodetector with Fast Response. <i>Nanoscale Research Letters</i> , 2019, 14, 291.	5.7	48
25	Enhanced hydrogen evolution reaction of WS <sub>2</sub> @CoS <sub>2</sub> heterostructure by synergistic effect. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 809-818.	7.1	60
26	Photoelectricity and thermoelectricity in organic chlorophyll phototransistors. <i>Organic Electronics</i> , 2019, 65, 381-385.	2.6	10
27	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
28	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
29	Performance enhancement of perovskite solar cells by employing TiO <sub>2</sub> nanorod arrays decorated with CuInS <sub>2</sub> quantum dots. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 693-699.	9.4	32
30	A Broadband Phototransistor Based on Three-Dimensional Reduced Graphene Oxide Foam. <i>Nanomaterials</i> , 2018, 8, 913.	4.1	3
31	Low-voltage all-inorganic perovskite quantum dot transistor memory. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	19
32	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
33	Bistable Smart Window Based on Ionic Liquid Doped Cholesteric Liquid Crystal. <i>IEEE Photonics Journal</i> , 2017, 9, 1-7.	2.0	35
34	PbS-Decorated WS <sub>2</sub> Phototransistors with Fast Response. <i>ACS Photonics</i> , 2017, 4, 950-956.	6.6	111
35	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
36	Renal Clearable Luminescent WSe <sub>2</sub> for Radioprotection of Nontargeted Tissues during Radiotherapy. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700035.	2.3	24

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37	Thin film perovskite light-emitting diode based on CsPbBr <sub>3</sub> powders and interfacial engineering. <i>Nano Energy</i> , 2017, 37, 40-45.	16.0	107
38	Black Phosphorus Quantum Dot Induced Oxidative Stress and Toxicity in Living Cells and Mice. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 20399-20409.	8.0	128
39	Broadband Phototransistor Based on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite and PbSe Quantum Dot Heterojunction. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 445-451.	4.6	99
40	High Performances for Solution-Processed OD Heterojunction Phototransistors. <i>Advanced Optical Materials</i> , 2017, 5, 1700565.	7.3	39
41	Ambipolar Quantum-Dot-Based Low-Voltage Nonvolatile Memory with Double Floating Gates. <i>ACS Photonics</i> , 2017, 4, 2220-2227.	6.6	26
42	Short Channel Quantum Dot Vertical and Lateral Phototransistors. <i>Advanced Optical Materials</i> , 2017, 5, 1600434.	7.3	11
43	Controlled one-step synthesis of CdS@ZnS core-shell particles for efficient photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2924-2930.	7.1	31
44	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
45	High-performance PbS quantum dot vertical field-effect phototransistor using graphene as a transparent electrode. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	23
46	Ambipolar nonvolatile memory based on a quantum-dot transistor with a nanoscale floating gate. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	15
47	Optical biosensor based on liquid crystal droplets for detection of cholic acid. <i>Optics Communications</i> , 2016, 381, 286-291.	2.1	40
48	Nickel Oxide Nanosheets for Enhanced Photoelectrochemical Water Splitting by Hematite (Fe <sub>2</sub> O <sub>3</sub> ) Nanowire Arrays. <i>Energy Technology</i> , 2016, 4, 758-763.	3.8	12
49	Low operating voltage ambipolar graphene oxide-floating-gate memory devices based on quantum dots. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1420-1424.	5.5	23
50	All-solution processed composite hole transport layer for quantum dot light emitting diode. <i>Thin Solid Films</i> , 2016, 603, 187-192.	1.8	39
51	Multiheterojunction Phototransistors Based on Graphene-PbSe Quantum Dot Hybrids. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21739-21743.	3.1	43
52	Enhance photoelectrochemical hydrogen-generation activity and stability of TiO <sub>2</sub> nanorod arrays sensitized by PbS and CdS quantum dots under UV-visible light. <i>Nanoscale Research Letters</i> , 2015, 10, 418.	5.7	24
53	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
54	Enhanced electroluminescence of all-inorganic colloidal quantum dot light-emitting diode by optimising the MoO <sub>3</sub> intermediate layer. <i>Micro and Nano Letters</i> , 2014, 9, 421-424.	1.3	6

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55	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