

# Liang Hu

## List of Publications by Year in descending order

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66  
papers

2,470  
citations

159585

30  
h-index

206112

48  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3659  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Fe-doped WO <sub>3</sub> nanostructures with high visible-light-driven photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 112-120.	20.2	175
2	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , 2017, 4, 1600435.	11.2	175
3	Significantly Enhanced Dielectric Performance of Poly(vinylidene fluoride)-TiO <sub>2</sub> Particles. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27373-27381.	8.0	130
4	Rhombus-shaped Co <sub>3</sub> O <sub>4</sub> nanorod arrays for high-performance gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 172-179.	7.8	127
5	Phosphorene/ZnO Nano-heterojunctions for Broadband Photonic Nonvolatile Memory Applications. <i>Advanced Materials</i> , 2018, 30, e1801232.	21.0	98
6	A facile fluorine-mediated hydrothermal route to controlled synthesis of rhombus-shaped Co <sub>3</sub> O <sub>4</sub> nanorod arrays and their application in gas sensing. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7511.	10.3	91
7	Shape control of colloidal Mn doped ZnO nanocrystals and their visible light photocatalytic properties. <i>Nanoscale</i> , 2013, 5, 10461.	5.6	86
8	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 61-71.	20.2	79
9	Nanocomposites with BaTiO <sub>3</sub> -SrTiO <sub>3</sub> hybrid fillers exhibiting enhanced dielectric behaviours and energy-storage densities. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4016-4022.	5.5	72
10	Artificial synapses emulated through a light mediated organic-inorganic hybrid transistor. <i>Journal of Materials Chemistry C</i> , 2019, 7, 48-59.	5.5	70
11	Electronic structure, magnetic properties and magnetocaloric performance in rare earths (RE) based RE <sub>2</sub> BaZnO <sub>5</sub> (RE = Gd, Dy, Ho, and Er) compounds. <i>Acta Materialia</i> , 2022, 236, 118114.	7.9	68
12	Co <sub>3</sub> O <sub>4</sub> /Ni-based MOFs on carbon cloth for flexible alkaline battery-supercapacitor hybrid devices and near-infrared photocatalytic hydrogen evolution. <i>Electrochimica Acta</i> , 2018, 281, 189-197.	5.2	66
13	Phosphorene nano-heterostructure based memristors with broadband response synaptic plasticity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9383-9393.	5.5	60
14	Colloidal chemically fabricated ZnO-Cu-based photodetector with extended UV-visible detection waveband. <i>Nanoscale</i> , 2013, 5, 9577.	5.6	55
15	Synthesis and Characterization of Single-Layer Silver Decanethiolate Lamellar Crystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 4367-4376.	13.7	52
16	Influence of temperature on the morphology and luminescence of ZnO micro and nanostructures prepared by CTAB-assisted hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2008, 465, L14-L19.	5.5	51
17	Structural and luminescent properties of ZnO nanorods and ZnO/ZnS nanocomposites. <i>Journal of Alloys and Compounds</i> , 2009, 474, 531-535.	5.5	46
18	Dual-donor (Zn and VO) mediated ferromagnetism in copper-doped ZnO micron-scale polycrystalline films: a thermally driven defect modulation process. <i>Nanoscale</i> , 2013, 5, 3918.	5.6	46

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19	Constructing hydrogen bond based melam/WO <sub>3</sub> heterojunction with enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 569-575.	20.2	45
20	Hydrogen bonds in heterojunction photocatalysts for efficient charge transfer. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 198-205.	20.2	43
21	Black phosphorus: an efficient co-catalyst for charge separation and enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Science</i> , 2018, 53, 16557-16566.	3.7	43
22	Two-dimensional magneto-photoconductivity in non-van der Waals manganese selenide. <i>Materials Horizons</i> , 2021, 8, 1286-1296.	12.2	43
23	Robust Above-Room-Temperature Ferromagnetism in Few-Layer Antimonene Triggered by Nonmagnetic Adatoms. <i>Advanced Functional Materials</i> , 2019, 29, 1808746.	14.9	38
24	Defect Reconstruction Triggered Full-Color Photodetection in Single Nanowire Phototransistor. <i>ACS Photonics</i> , 2019, 6, 886-894.	6.6	37
25	High performance of P(VDF-HFP)/Ag@TiO <sub>2</sub> hybrid films with enhanced dielectric permittivity and low dielectric loss. <i>RSC Advances</i> , 2015, 5, 79342-79347.	3.6	36
26	Self-Driven Broadband Photodetectors Based on MoSe <sub>2</sub> /FePS <sub>3</sub> van der Waals n-p Type-II Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11927-11936.	8.0	35
27	Excellent magnetocaloric performance in the carbide compounds RE <sub>2</sub> Cr <sub>2</sub> C <sub>3</sub> (RE = Er, Ho, and Dy) and their composites. <i>Materials Today Physics</i> , 2022, 27, 100786.	6.0	35
28	Charge Transfer Doping Modulated Raman Scattering and Enhanced Stability of Black Phosphorus Quantum Dots on a ZnO Nanorod. <i>Advanced Optical Materials</i> , 2018, 6, 1800440.	7.3	34
29	Polymer-buried van der Waals magnets for promising wearable room-temperature spintronics. <i>Materials Horizons</i> , 2021, 8, 3306-3314.	12.2	33
30	Defects induced ferromagnetism in ZnO nanowire arrays doped with copper. <i>CrystEngComm</i> , 2013, 15, 7887.	2.6	31
31	Self-Assembly and Ripening of Polymeric Silver-Alkanethiolate Crystals on Inert Surfaces. <i>Langmuir</i> , 2009, 25, 9585-9595.	3.5	28
32	Acceptor defect-participating magnetic exchange in ZnO:Cu nanocrystalline film: defect structure evolution, Cu-N synergetic role and magnetic control. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1330-1346.	5.5	28
33	Metal enhanced photoluminescence from Al-capped ZnMgO films: The roles of plasmonic coupling and non-radiative recombination. <i>Applied Physics Letters</i> , 2012, 100, 112103.	3.3	26
34	Highly conducting and wide-band transparent F-doped Zn <sub>1-x</sub> Mg <sub>x</sub> O thin films for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2014, 602, 294-299.	5.5	22
35	Concurrent Improvement of Photocarrier Separation and Extraction in ZnO Nanocrystal Ultraviolet Photodetectors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14766-14773.	3.1	21
36	Enhanced Trion Emission in Monolayer MoSe <sub>2</sub> by Constructing a Type-I Van Der Waals Heterostructure. <i>Advanced Functional Materials</i> , 2021, 31, 2104960.	14.9	21

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37	Texture-etched broad surface features of double-layered ZnO:Al transparent conductive films for high haze values. <i>Journal of Alloys and Compounds</i> , 2014, 596, 107-112.	5.5	20
38	Insights into in situ one-step synthesis of carbon-supported nano-particulate gold-based catalysts for efficient electrocatalytic CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23610-23620.	10.3	20
39	Valence band offset of n-ZnO/p-Mg <sub>x</sub> Ni <sub>1-x</sub> O heterojunction measured by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2012, 101, 052109.	3.3	19
40	Direct bandgap opening in sodium-doped antimonene quantum dots: an emerging 2D semiconductor. <i>Materials Horizons</i> , 2020, 7, 1588-1596.	12.2	19
41	Interfacial effect on Mn-doped TiO <sub>2</sub> nanoparticles: from paramagnetism to ferromagnetism. <i>RSC Advances</i> , 2016, 6, 57403-57408.	3.6	18
42	Multifunctional Zn-Al layered double hydroxides for surface-enhanced Raman scattering and surface-enhanced infrared absorption. <i>Dalton Transactions</i> , 2019, 48, 426-434.	3.3	17
43	A Fluorescence Probe for Metal Ions Based on Black Phosphorus Quantum Dots. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902075.	3.7	17
44	Origin of highly stable conductivity of H plasma exposed ZnO films. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17763.	2.8	15
45	Structural and optical properties of ZnSO alloy thin films with different S contents grown by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2014, 582, 535-539.	5.5	15
46	Enhanced performance of NiMgO-based ultraviolet photodetector by rapid thermal annealing. <i>Thin Solid Films</i> , 2014, 558, 311-314.	1.8	15
47	Phase-transition-induced superior ultraviolet photodetection of a ZnO/VO <sub>2</sub> bilayer. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11399-11406.	5.5	14
48	Island nucleation, optical and ferromagnetic properties of vertically aligned secondary growth ZnO/Cu nanorod arrays. <i>Nanoscale</i> , 2012, 4, 1627.	5.6	13
49	Optical demagnetization in defect-mediated ferromagnetic ZnO:Cu films. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	13
50	Raman scattering enhancement of a single ZnO nanorod decorated with Ag nanoparticles: synergies of defects and plasmons. <i>Optics Letters</i> , 2018, 43, 2244.	3.3	13
51	Wavelength tunable photoluminescence of ZnO <sub>1-x</sub> S <sub>x</sub> alloy thin films grown by reactive sputtering. <i>Journal of Applied Physics</i> , 2013, 114, 083522.	2.5	11
52	Iodine-ion-induced Size-tunable Co <sub>3</sub> O <sub>4</sub> Nanowires and the Size-dependent Catalytic Performance for CO Oxidation. <i>ChemCatChem</i> , 2013, 5, 3576-3581.	3.7	11
53	Low temperature sintering properties of LiF-doped BaTiO <sub>3</sub> -based dielectric ceramics for AC MLCCs. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 162-167.	2.2	10
54	Thiol-Assisted Synthesis of Carbon-Supported Metal Nanoparticles for Efficient Electrocatalytic CO <sub>2</sub> Reduction. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2153-2159.	3.3	8

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55	Self-powered ultraviolet photodetector based on CuGaO/ZnSO heterojunction. Journal of Materials Science, 2020, 55, 9003-9013.	3.7	8
56	A facile method for the synthesis of tapered ZnO:Cu nanorod arrays and its secondary growth. Journal of Crystal Growth, 2012, 351, 93-100.	1.5	7
57	Unexpected magnetization enhancement in hydrogen plasma treated ferromagnetic (Zn,Cu)O film. Applied Physics Letters, 2014, 105, 072414.	3.3	7
58	Evidence for the carbon-nitrogen complex in ZnO nanostructures with very high nitrogen doping. Physical Chemistry Chemical Physics, 2013, 15, 1369-1373.	2.8	6
59	Doping behaviors of yttrium, zinc and gallium in BaTiO <sub>3</sub> ceramics for AC capacitor application. Journal of Materials Science: Materials in Electronics, 2014, 25, 2905-2912.	2.2	6
60	Core-shell structured dendritic CuO@TiO <sub>2</sub> for high-k P(VDF-HFP) composites with suppressed dielectric loss and enhanced thermal conductivity. Journal of Materials Science: Materials in Electronics, 2018, 29, 1269-1279.	2.2	5
61	Ferromagnetism in two-dimensional black phosphorus induced by phthalocyanine cobalt. Journal of Materials Science, 2021, 56, 13568-13578.	3.7	5
62	Inclined and ordered ZnO nanowire arrays developed on non-polar ZnO seed-layer films. CrystEngComm, 2012, 14, 4501.	2.6	4
63	Investigation of morphology evolution of Cu-ZnO nanorod arrays and enhancement of ferromagnetism by codoping with N. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2763-2767.	2.1	4
64	Annealing rate tuned magnetization level in polycrystalline ZnO:Cu films. Journal of Alloys and Compounds, 2016, 684, 132-136.	5.5	1
65	2D Ferromagnetism: Robust Above-Room-Temperature Ferromagnetism in Few-Layer Antimonene Triggered by Nonmagnetic Adatoms (Adv. Funct. Mater. 15/2019). Advanced Functional Materials, 2019, 29, 1970099.	14.9	1
66	Raman scattering enhancement of a single ZnO nanorod decorated with Ag nanoparticles: synergies of defects and plasmons: publisher's note. Optics Letters, 2018, 43, 2627.	3.3	0