

# Hongbo Xu

## List of Publications by Year in descending order

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56  
papers

2,251  
citations

236925

25  
h-index

214800

47  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2410  
citing authors

#	ARTICLE	IF	CITATIONS
1	A mechanically durable, excellent recyclable 3D hierarchical Ni <sub>3</sub> S <sub>2</sub> @Ni foam photothermal membrane. <i>Green Energy and Environment</i> , 2022, 7, 492-499.	8.7	13
2	Two-dimensional WO <sub>3</sub> nanosheets for high-performance electrochromic supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 514-523.	6.0	22
3	Dual Optical Information-Encoded/Decrypted Invisible Photonic Patterns based on Controlled Wettability. <i>Advanced Optical Materials</i> , 2022, 10, 2101268.	7.3	18
4	3D conifer-like WO <sub>3</sub> branched nanowire arrays electrode for boosting electrochromic-supercapacitor performance. <i>Applied Surface Science</i> , 2022, 577, 151889.	6.1	29
5	A Simple Polypyrrole/Polyvinylidene Fluoride Membrane with Hydrophobic and Self-Floating Ability for Solar Water Evaporation. <i>Nanomaterials</i> , 2022, 12, 859.	4.1	14
6	Novel Transparent TiO <sub>2</sub> /AgNW@Si(NH <sub>2</sub> )/PET Hybrid Films for Flexible Smart Windows. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 21613-21622.	8.0	17
7	Iridescent Daytime Radiative Cooling with No Absorption Peaks in the Visible Range. <i>Small</i> , 2022, 18, e2202400.	10.0	42
8	A Light-Permeable Solar Evaporator with Three-Dimensional Photocatalytic Sites to Boost Volatile-Organic-Compound Rejection for Water Purification. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9797-9805.	10.0	25
9	Bioinspired Microstructured Materials for Optical and Thermal Regulation. <i>Advanced Materials</i> , 2021, 33, e2000697.	21.0	81
10	Three-dimensional porous photo-thermal fiber felt with salt-resistant property for high efficient solar distillation. <i>Chinese Chemical Letters</i> , 2021, 32, 1442-1446.	9.0	23
11	High-performance polyethylene dissolved oxygen sensor with a petallike surface. <i>Colloid and Polymer Science</i> , 2021, 299, 1439-1446.	2.1	1
12	In situ XRD and operando spectra-electrochemical investigation of tetragonal WO <sub>3-x</sub> nanowire networks for electrochromic supercapacitors. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	33
13	Sprayable Ultrablack Coating Based on Hollow Carbon Nanospheres. <i>ACS Applied Nano Materials</i> , 2021, 4, 7995-8002.	5.0	8
14	Highly robust, transparent, and conductive films based on AgNW-C nanowires for flexible smart windows. <i>Applied Surface Science</i> , 2021, 559, 149846.	6.1	25
15	Design and synthesis of 2D rGO/NiO heterostructure composites for high-performance electrochromic energy storage. <i>Applied Surface Science</i> , 2021, 565, 150512.	6.1	25
16	Stretchable electrochromic devices based on embedded WO <sub>3</sub> @AgNW Core-Shell nanowire elastic conductors. <i>Chemical Engineering Journal</i> , 2021, 426, 130840.	12.7	45
17	Fabrication of hybrid CoMoO <sub>4</sub> @NiMoO <sub>4</sub> nanosheets by chitosan hydrogel assisted calcinations method with high electrochemical performance. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 131-141.	2.4	11
18	A simple and universal strategy to deposit Ag/polypyrrole on various substrates for enhanced interfacial solar evaporation and antibacterial activity. <i>Chemical Engineering Journal</i> , 2020, 384, 123379.	12.7	126

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19	Enhancing the electrochromic stability of Prussian blue based on TiO <sub>2</sub> nanorod arrays. <i>New Journal of Chemistry</i> , 2020, 44, 2236-2240.	2.8	24
20	High-performance supercapacitor based on MOF derived porous NiCo <sub>2</sub> O <sub>4</sub> nanoparticle. <i>Science China Technological Sciences</i> , 2020, 63, 1470-1477.	4.0	35
21	A High-Efficient Carbon-Coated Iron-Based Fenton-Like Catalyst with Enhanced Cycle Stability and Regenerative Performance. <i>Catalysts</i> , 2020, 10, 1486.	3.5	9
22	Polymeric Membranes with Selective Solution-Diffusion for Intercepting Volatile Organic Compounds during Solar-Driven Water Remediation. <i>Advanced Materials</i> , 2020, 32, e2004401.	21.0	142
23	An electrochromic supercapacitor based on an MOF derived hierarchical-porous NiO film. <i>Nanoscale</i> , 2020, 12, 8934-8941.	5.6	136
24	Volatile-Organic-Compound-Intercepting Solar Distillation Enabled by a Photothermal/Photocatalytic Nanofibrous Membrane with Dual-Scale Pores. <i>Environmental Science &amp; Technology</i> , 2020, 54, 9025-9033.	10.0	108
25	Robust and Flexible Colloidal Photonic Crystal Films with Bending Strain-Independent Structural Colors for Anticounterfeiting. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900495.	2.3	16
26	A mechanically durable, sustained corrosion-resistant photothermal nanofiber membrane for highly efficient solar distillation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22296-22306.	10.3	60
27	Recent Advances in Colloidal Photonic Crystal-Based Anti-Counterfeiting Materials. <i>Crystals</i> , 2019, 9, 417.	2.2	40
28	Easily scaled-up photo-thermal membrane with structure-dependent auto-cleaning feature for high-efficient solar desalination. <i>Journal of Membrane Science</i> , 2019, 586, 222-230.	8.2	87
29	Entropy-Induced Self-Assembly of Colloidal Crystals with High Reflectivity and Narrow Reflection Bandwidth. <i>Entropy</i> , 2019, 21, 180.	2.2	0
30	Biomimetic Moth-eye Anti-reflective Poly-(methyl methacrylate) Nanostructural Coating. <i>Journal of Bionic Engineering</i> , 2019, 16, 1030-1038.	5.0	6
31	Origami system for efficient solar driven distillation in emergency water supply. <i>Chemical Engineering Journal</i> , 2019, 356, 869-876.	12.7	87
32	Bionic SiO <sub>2</sub> @Fc(COCH <sub>3</sub> ) <sub>2</sub> core-shell nanostructure for enhancing the electrochromic properties of ferrocene. <i>Chemical Engineering Journal</i> , 2019, 360, 591-599.	12.7	6
33	Emission Enhancement of Fluorescent Molecules by Antireflective Arrays. <i>Research</i> , 2019, 2019, 3495841.	5.7	19
34	Laser damage resistance of polystyrene opal photonic crystals. <i>Scientific Reports</i> , 2018, 8, 4523.	3.3	2
35	Superhydrophobic engineering materials provide a rapid and simple route for highly efficient self-driven crude oil spill cleanup. <i>RSC Advances</i> , 2018, 8, 38363-38369.	3.6	1
36	Synthesis of Silica Microspheres Inspired by the Formation of Ice Crystals With High Homogeneous Particle Sizes and Their Applications in Photonic Crystals. <i>Materials</i> , 2018, 11, 2017.	2.9	5

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37	A Protective Film Produced by Whey Protein for Photonic Crystals: Inspired by the Epidermis Structure of Chameleon. <i>Journal of Bionic Engineering</i> , 2018, 15, 713-721.	5.0	2
38	Robust phosphate capture over inorganic adsorbents derived from lanthanum metal organic frameworks. <i>Chemical Engineering Journal</i> , 2017, 326, 1086-1094.	12.7	154
39	Photocatalysts: Synergetic Photocatalytic Nanostructures Based on Au/TiO <sub>2</sub> /Reduced Graphene Oxide for Efficient Degradation of Organic Pollutants (Part. Part. Syst. Charact. 3/2017). <i>Particle and Particle Systems Characterization</i> , 2017, 34, .	2.3	0
40	Synergetic Photocatalytic Nanostructures Based on Au/TiO <sub>2</sub> /Reduced Graphene Oxide for Efficient Degradation of Organic Pollutants. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600323.	2.3	14
41	Process optimization and optical properties of colloidal self-assembly via refrigerated centrifugation. <i>Colloid and Polymer Science</i> , 2017, 295, 1655-1662.	2.1	14
42	Trace detection of homologues and isomers based on hollow mesoporous silica sphere photonic crystals. <i>Materials Horizons</i> , 2017, 4, 862-868.	12.2	33
43	Mechanical, electrical and carbonization properties of graphene oxide/polyimide composite films prepared by pre-in situ polymerization. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 14515-14521.	2.2	3
44	A visual water vapor photonic crystal sensor with PVA/SiO <sub>2</sub> opal structure. <i>Applied Surface Science</i> , 2017, 423, 421-425.	6.1	47
45	Preparation of Three-Dimensional Photonic Crystals of Zirconia by Electrodeposition in a Colloidal Crystals Template. <i>Crystals</i> , 2016, 6, 76.	2.2	9
46	Adsorption of bovine serum albumin on superparamagnetic composite microspheres with a Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> core and mesoporous SiO <sub>2</sub> shell. <i>RSC Advances</i> , 2015, 5, 103760-103766.	3.6	14
47	3D hierarchical porous graphene aerogels for highly improved adsorption and recycled capacity. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 194, 62-67.	3.5	55
48	Fabrication of biomimetic patterns for high transmission and antifogging property. <i>RSC Advances</i> , 2015, 5, 28014-28018.	3.6	15
49	Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. <i>Nanoscale</i> , 2013, 5, 12383.	5.6	39
50	Fabrication of Antireflective Compound Eyes by Imprinting. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12799-12803.	8.0	52
51	Biomimetic Antireflective Hierarchical Arrays. <i>Langmuir</i> , 2011, 27, 4963-4967.	3.5	51
52	Biomimetic corrugated silicon nanocone arrays for self-cleaning antireflection coatings. <i>Nano Research</i> , 2010, 3, 520-527.	10.4	99
53	Fabrication of flexible superhydrophobic biomimic surfaces. <i>Soft Matter</i> , 2010, 6, 1438.	2.7	39
54	Broadband antireflective Si nanopillar arrays produced by nanosphere lithography. <i>Microelectronic Engineering</i> , 2009, 86, 850-852.	2.4	25

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55	Simple Approach to Wafer-Scale Self-Cleaning Antireflective Silicon Surfaces. <i>Langmuir</i> , 2009, 25, 7769-7772.	3.5	132
56	Biomimetic Antireflective Si Nanopillar Arrays. <i>Small</i> , 2008, 4, 1972-1975.	10.0	113