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	Robust phosphate capture over inorganic adsorbents derived from lanthanum metal organic frameworks. Chemical Engineering Journal, 2017, 326, 1086-1094.	12.7	154
2	Polymeric Membranes with Selective Solutionâ€Ðiffusion for Intercepting Volatile Organic Compounds during Solarâ€Ðriven Water Remediation. Advanced Materials, 2020, 32, e2004401.	21.0	142
3	An electrochromic supercapacitor based on an MOF derived hierarchical-porous NiO film. Nanoscale, 2020, 12, 8934-8941.	5.6	136
4	Simple Approach to Wafer-Scale Self-Cleaning Antireflective Silicon Surfaces. Langmuir, 2009, 25, 7769-7772.	3.5	132
5	A simple and universal strategy to deposit Ag/polypyrrole on various substrates for enhanced interfacial solar evaporation and antibacterial activity. Chemical Engineering Journal, 2020, 384, 123379.	12.7	126
6	Biomimetic Antireflective Si Nanopillar Arrays. Small, 2008, 4, 1972-1975.	10.0	113
7	Volatile-Organic-Compound-Intercepting Solar Distillation Enabled by a Photothermal/Photocatalytic Nanofibrous Membrane with Dual-Scale Pores. Environmental Science & Technology, 2020, 54, 9025-9033.	10.0	108
8	Biomimetic corrugated silicon nanocone arrays for self-cleaning antireflection coatings. Nano Research, 2010, 3, 520-527.	10.4	99
9	Easily scaled-up photo-thermal membrane with structure-dependent auto-cleaning feature for high-efficient solar desalination. Journal of Membrane Science, 2019, 586, 222-230.	8.2	87
10	Origami system for efficient solar driven distillation in emergency water supply. Chemical Engineering Journal, 2019, 356, 869-876.	12.7	87
11	Bioinspired Microstructured Materials for Optical and Thermal Regulation. Advanced Materials, 2021, 33, e2000697.	21.0	81
12	A mechanically durable, sustained corrosion-resistant photothermal nanofiber membrane for highly efficient solar distillation. Journal of Materials Chemistry A, 2019, 7, 22296-22306.	10.3	60
13	3D hierarchical porous graphene aerogels for highly improved adsorption and recycled capacity. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 194, 62-67.	3.5	55
14	Fabrication of Antireflective Compound Eyes by Imprinting. ACS Applied Materials & Interfaces, 2013, 5, 12799-12803.	8.0	52
15	Biomimetic Antireflective Hierarchical Arrays. Langmuir, 2011, 27, 4963-4967.	3.5	51
16	A visual water vapor photonic crystal sensor with PVA/SiO2 opal structure. Applied Surface Science, 2017, 423, 421-425.	6.1	47
17	Stretchable electrochromic devices based on embedded WO3@AgNW Core-Shell nanowire elastic conductors. Chemical Engineering Journal, 2021, 426, 130840.	12.7	45
18	Iridescent Daytime Radiative Cooling with No Absorption Peaks in the Visible Range. Small, 2022, 18, e2202400.	10.0	42

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19	Recent Advances in Colloidal Photonic Crystal-Based Anti-Counterfeiting Materials. Crystals, 2019, 9, 417.	2.2	40
20	Fabrication of flexible superhydrophobic biomimic surfaces. Soft Matter, 2010, 6, 1438.	2.7	39
21	Bio-inspired antireflective hetero-nanojunctions with enhanced photoactivity. Nanoscale, 2013, 5, 12383.	5.6	39
22	High-performance supercapacitor based on MOF derived porous NiCo2O4 nanoparticle. Science China Technological Sciences, 2020, 63, 1470-1477.	4.0	35
23	Trace detection of homologues and isomers based on hollow mesoporous silica sphere photonic crystals. Materials Horizons, 2017, 4, 862-868.	12.2	33
24	In situ XRD and operando spectra-electrochemical investigation of tetragonal WO3-x nanowire networks for electrochromic supercapacitors. NPG Asia Materials, 2021, 13, .	7.9	33
25	3D conifer-like WO3 branched nanowire arrays electrode for boosting electrochromic-supercapacitor performance. Applied Surface Science, 2022, 577, 151889.	6.1	29
26	Broadband antireflective Si nanopillar arrays produced by nanosphere lithography. Microelectronic Engineering, 2009, 86, 850-852.	2.4	25
27	Highly robust, transparent, and conductive films based on AgNW-C nanowires for flexible smart windows. Applied Surface Science, 2021, 559, 149846.	6.1	25
28	Design and synthesis of 2D rGO/NiO heterostructure composites for high-performance electrochromic energy storage. Applied Surface Science, 2021, 565, 150512.	6.1	25
29	A Light-Permeable Solar Evaporator with Three-Dimensional Photocatalytic Sites to Boost Volatile-Organic-Compound Rejection for Water Purification. Environmental Science & Technology, 2022, 56, 9797-9805.	10.0	25
30	Enhancing the electrochromic stability of Prussian blue based on TiO₂ nanorod arrays. New Journal of Chemistry, 2020, 44, 2236-2240.	2.8	24
31	Three-dimensional porous photo-thermal fiber felt with salt-resistant property for high efficient solar distillation. Chinese Chemical Letters, 2021, 32, 1442-1446.	9.0	23
32	Two-dimensional WO₃ nanosheets for high-performance electrochromic supercapacitors. Inorganic Chemistry Frontiers, 2022, 9, 514-523.	6.0	22
33	Emission Enhancement of Fluorescent Molecules by Antireflective Arrays. Research, 2019, 2019, 3495841.	5.7	19
34	Dual Optical Informationâ€Encrypted/Decrypted Invisible Photonic Patterns based on Controlled Wettability. Advanced Optical Materials, 2022, 10, 2101268.	7.3	18
35	Novel Transparent TiO₂/AgNWâ€“Si(NH₂)/PET Hybrid Films for Flexible Smart Windows. ACS Applied Materials & Interfaces, 2022, 14, 21613-21622.	8.0	17
36	Robust and Flexible Colloidal Photonic Crystal Films with Bending Strainâ€“Independent Structural Colors for Anticounterfeiting. Particle and Particle Systems Characterization, 2020, 37, 1900495.	2.3	16

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37	Fabrication of biomimetic patterns for high transmission and antifogging property. RSC Advances, 2015, 5, 28014-28018.	3.6	15
38	Adsorption of bovine serum albumin on superparamagnetic composite microspheres with a Fe₃O₄/SiO₂ core and mesoporous SiO₂ shell. RSC Advances, 2015, 5, 103760-103766.	3.6	14
39	Synergetic Photocatalytic Nanostructures Based on Au/TiO₂/Reduced Graphene Oxide for Efficient Degradation of Organic Pollutants. Particle and Particle Systems Characterization, 2017, 34, 1600323.	2.3	14
40	Process optimization and optical properties of colloidal self-assembly via refrigerated centrifugation. Colloid and Polymer Science, 2017, 295, 1655-1662.	2.1	14
41	A Simple Polypyrrole/Polyvinylidene Fluoride Membrane with Hydrophobic and Self-Floating Ability for Solar Water Evaporation. Nanomaterials, 2022, 12, 859.	4.1	14
42	A mechanically durable, excellent recyclable 3D hierarchical Ni3S2@Ni foam photothermal membrane. Green Energy and Environment, 2022, 7, 492-499.	8.7	13
43	Fabrication of hybrid CoMoO4â€“NiMoO4 nanosheets by chitosan hydrogel assisted calcinations method with high electrochemical performance. Journal of Sol-Gel Science and Technology, 2020, 93, 131-141.	2.4	11
44	Preparation of Three-Dimensional Photonic Crystals of Zirconia by Electrodeposition in a Colloidal Crystals Template. Crystals, 2016, 6, 76.	2.2	9
45	A High-Efficient Carbon-Coated Iron-Based Fenton-Like Catalyst with Enhanced Cycle Stability and Regenerative Performance. Catalysts, 2020, 10, 1486.	3.5	9
46	Sprayable Ultrablack Coating Based on Hollow Carbon Nanospheres. ACS Applied Nano Materials, 2021, 4, 7995-8002.	5.0	8
47	Biomimetic Moth-eye Anti-reflective Poly-(methyl methacrylate) Nanostructural Coating. Journal of Bionic Engineering, 2019, 16, 1030-1038.	5.0	6
48	Bionic SiO2@Fc(COCH3)2 core-shell nanostructure for enhancing the electrochromic properties of ferrocene. Chemical Engineering Journal, 2019, 360, 591-599.	12.7	6
49	Synthesis of Silica Microspheresâ€”Inspired by the Formation of Ice Crystalsâ€”With High Homogeneous Particle Sizes and Their Applications in Photonic Crystals. Materials, 2018, 11, 2017.	2.9	5
50	Mechanical, electrical and carbonization properties of graphene oxide/polyimide composite films prepared by pre-in situ polymerization. Journal of Materials Science: Materials in Electronics, 2017, 28, 14515-14521.	2.2	3
51	Laser damage resistance of polystyrene opal photonic crystals. Scientific Reports, 2018, 8, 4523.	3.3	2
52	A Protective Film Produced by Whey Protein for Photonic Crystals: Inspired by the Epidermis Structure of Chameleon. Journal of Bionic Engineering, 2018, 15, 713-721.	5.0	2
53	Superhydrophobic engineering materials provide a rapid and simple route for highly efficient self-driven crude oil spill cleanup. RSC Advances, 2018, 8, 38363-38369.	3.6	1
54	High-performance polyethylene dissolved oxygen sensor with a petallike surface. Colloid and Polymer Science, 2021, 299, 1439-1446.	2.1	1

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55	Photocatalysts: Synergetic Photocatalytic Nanostructures Based on Au/TiO2 /Reduced Graphene Oxide for Efficient Degradation of Organic Pollutants (Part. Part. Syst. Charact. 3/2017). Particle and Particle Systems Characterization, 2017, 34, .	2.3	0
56	Entropy-Induced Self-Assembly of Colloidal Crystals with High Reflectivity and Narrow Reflection Bandwidth. Entropy, 2019, 21, 180.	2.2	0