

Xiayun Huang

List of Publications by Year in descending order

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45
papers

1,562
citations

304743

22
h-index

302126

39
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45
all docs

45
docs citations

45
times ranked

2420
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled growth of hard-sphere colloidal crystals. <i>Nature</i> , 1999, 401, 893-895.	27.8	159
2	A review of nanomaterials for nanofluid enhanced oil recovery. <i>RSC Advances</i> , 2017, 7, 32246-32254.	3.6	151
3	Pickering emulsions stabilized by amphiphilic nano-sheets. <i>Soft Matter</i> , 2012, 8, 10245.	2.7	111
4	Omniphobic Slippery Coatings Based on Lubricant-Infused Porous Polyelectrolyte Multilayers. <i>ACS Macro Letters</i> , 2013, 2, 826-829.	4.8	108
5	Facile polypyrrole thin film coating on polypropylene membrane for efficient solar-driven interfacial water evaporation. <i>RSC Advances</i> , 2017, 7, 9495-9499.	3.6	99
6	Highly Biocompatible, Underwater Superhydrophilic and Multifunctional Biopolymer Membrane for Efficient Oil/Water Separation and Aqueous Pollutant Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3879-3887.	6.7	82
7	Formation and Tunable Disassembly of Polyelectrolyte-Cu ²⁺ Layer-by-Layer Complex Film. <i>Langmuir</i> , 2013, 29, 12959-12968.	3.5	63
8	Multistage Polymerization Design for g-C ₃ N ₄ Nanosheets with Enhanced Photocatalytic Activity by Modifying the Polymerization Process of Melamine. <i>ACS Omega</i> , 2019, 4, 17148-17159.	3.5	50
9	Synergistic High-flux Oil/Saltwater Separation and Membrane Desalination with Carbon Quantum Dots Functionalized Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13708-13716.	6.7	46
10	Aqueous Exfoliation of Graphite into Graphene Assisted by Sulfonyl Graphene Quantum Dots for Photonic Crystal Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30797-30804.	8.0	42
11	Multiheteroatom-Doped Porous Carbon Catalyst for Oxygen Reduction Reaction Prepared using 3D Network of ZIF-8/Polymeric Nanofiber as a Facile-Doping Template. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21083-21088.	8.0	41
12	Large-Scale Solvent Driven Actuation of Polyelectrolyte Multilayers Based on Modulation of Dynamic Secondary Interactions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1848-1858.	8.0	37
13	Hierarchical, Self-Healing and Superhydrophobic Zirconium Phosphate Hybrid Membrane Based on the Interfacial Crystal Growth of Lyotropic Two-Dimensional Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22793-22800.	8.0	36
14	Nano-encapsulated PCM via Pickering Emulsification. <i>Scientific Reports</i> , 2015, 5, 13357.	3.3	35
15	Capillary-Based Microfluidic Fabrication of Liquid Metal Microspheres toward Functional Microelectrodes and Photothermal Medium. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25295-25305.	8.0	34
16	Natural Halloysites-Based Janus Platelet Surfactants for the Formation of Pickering Emulsion and Enhanced Oil Recovery. <i>Scientific Reports</i> , 2019, 9, 163.	3.3	34
17	Bowlics: history, advances and applications. <i>Liquid Crystals Today</i> , 2017, 26, 85-111.	2.3	33
18	Accelerated Design of Catalytic Water-Cleaning Nanomotors via Machine Learning. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40099-40106.	8.0	33

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19	Silver nanoparticle aided self-healing of polyelectrolyte multilayers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10267-10273.	2.8	28
20	The Synthesis of Amphiphilic Luminescent Graphene Quantum Dot and Its Application in Miniemulsion Polymerization. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8.	2.7	28
21	Templating synthesis of natural cotton-based hierarchically structured carbon hollow microfibers for high-performance solar vapor generation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15346-15354.	10.3	24
22	Microwave-assisted rapid synthesis of hexagonal Zr -zirconium phosphate nanodisks as a Pickering emulsion stabilizer. <i>Materials Letters</i> , 2016, 163, 158-161.	2.6	23
23	Defect-induced betavoltaic enhancement in black titania nanotube arrays. <i>Nanoscale</i> , 2018, 10, 13028-13036.	5.6	23
24	Solution-Based Thermodynamically Controlled Conversion from Diblock Copolymers to Janus Nanoparticles. <i>ACS Macro Letters</i> , 2017, 6, 580-585.	4.8	20
25	Efficient Fabrication of Pure, Single-Chain Janus Particles through Their Exclusive Self-Assembly in Mixtures with Their Analogues. <i>ACS Macro Letters</i> , 2018, 7, 1278-1282.	4.8	20
26	High-flux underwater superoleophobic hybrid membranes for effective oil/water separation from oil-contaminated water. <i>RSC Advances</i> , 2017, 7, 9051-9056.	3.6	18
27	Blue phase liquid crystal microcapsules: confined 3D structure inducing fascinating properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4822-4827.	5.5	17
28	Functional polyelectrolyte multilayer assemblies for surfaces with controlled wetting behavior. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	16
29	Biomimetic colloidal photonic crystals by coassembly of polystyrene nanoparticles and graphene quantum dots. <i>RSC Advances</i> , 2018, 8, 34839-34847.	3.6	16
30	Continuous-flow synthesis of doped all-inorganic perovskite nanocrystals enabled by a microfluidic reactor for light-emitting diode application. <i>Science China Materials</i> , 2020, 63, 1526-1536.	6.3	16
31	Surfactant co-assembly and ion exchange to modulate polyelectrolyte multilayer wettability. <i>Soft Matter</i> , 2013, 9, 7735.	2.7	15
32	A novel worm-like micelles@MOFs precursor for constructing hierarchically porous CoP/N-doped carbon networks towards efficient hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 872-881.	9.4	15
33	Facile Assembly Enhanced Spontaneous Fluorescent Response of Ag^+ Ion Containing Polyelectrolyte Multilayer Films. <i>ACS Macro Letters</i> , 2014, 3, 1092-1095.	4.8	13
34	Self-assembly of anisotropic red blood cell (RBC)-like colloidal particles. <i>Soft Matter</i> , 2018, 14, 7954-7957.	2.7	11
35	A network of porous carbon/ ZnCo_2O_4 nanotubes derived from shell-hybridized worm-like micelles for lithium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22642-22649.	10.3	9
36	Bioinspired Multiple Stimuli-Responsive Optical Microcapsules Enabled by Microfluidics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46788-46796.	8.0	8

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37	Hydrogen Separation Membranes of Polymeric Materials. , 2017, , 85-116.		8
38	A study on mineralization behavior of amino-terminated hyperbranched polybenzimidazole membranes. Journal of Materials Science: Materials in Medicine, 2010, 21, 1829-1835.	3.6	7
39	Assembly of large area crack free clay porous films. RSC Advances, 2018, 8, 1001-1004.	3.6	6
40	A general method to greatly enhance ultrasound-responsiveness for common polymeric assemblies. Polymer Chemistry, 2020, 11, 3296-3304.	3.9	6
41	Polydiacetylene and its composites with long effective conjugation lengths and tunable third-order nonlinear optical absorption. Polymer Chemistry, 2021, 12, 3257-3263.	3.9	6
42	Heavily superparamagnetic magnetite-loaded polymeric worm-like micelles that have an ultrahigh T_2 relaxivity. Polymer Chemistry, 2020, 11, 6134-6138.	3.9	5
43	Polydiacetylene- Tb^{3+} Nanosheets of Which Both the Color and the Fluorescence Can Be Reversibly Switched between Two Colors. Chinese Journal of Chemistry, 2017, 35, 1678-1686.	4.9	4
44	Endowing Polymeric Assemblies with Unique Properties and Behaviors by Incorporating Versatile Nanogels in the Shell. ACS Macro Letters, 2019, 8, 1222-1226.	4.8	4
45	Fabrication of the Polymersomes with Unique and Even Nonequilibrium Morphologies. Macromolecular Rapid Communications, 2021, 42, 2000504.	3.9	2