

Liang Hu

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,925
citations

361045

20
h-index

253896

43
g-index

54
all docs

54
docs citations

54
times ranked

2770
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial Design of Mixed Matrix Membranes for Improved Gas Separation Performance. <i>Advanced Materials</i> , 2016, 28, 3399-3405.	11.1	337
2	Photothermal-Responsive Single-Walled Carbon Nanotube-Based Ultrathin Membranes for On/Off Switchable Separation of Oil-in-Water Nanoemulsions. <i>ACS Nano</i> , 2015, 9, 4835-4842.	7.3	247
3	Stimuli-responsive polymers for sensing and actuation. <i>Materials Horizons</i> , 2019, 6, 1774-1793.	6.4	223
4	An ultrathin bilayer membrane with asymmetric wettability for pressure responsive oil/water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23477-23482.	5.2	146
5	Ultrathin membranes of single-layered MoS ₂ nanosheets for high-permeance hydrogen separation. <i>Nanoscale</i> , 2015, 7, 17649-17652.	2.8	130
6	Harnessing the Power of Stimuli-Responsive Polymers for Actuation. <i>Advanced Functional Materials</i> , 2020, 30, 1903471.	7.8	88
7	Responsive polymers for analytical applications: A review. <i>Analytica Chimica Acta</i> , 2013, 789, 17-32.	2.6	82
8	Stimuli-Responsive Polymers for Sensing and Reacting to Environmental Conditions. <i>Progress in Polymer Science</i> , 2021, 116, 101386.	11.8	56
9	Controlling the response of color tunable poly(N-isopropylacrylamide) microgel-based etalons with hysteresis. <i>Chemical Communications</i> , 2013, 49, 2649.	2.2	40
10	Thermoresponsive Ultrathin Membranes with Precisely Tuned Nanopores for High-Flux Separation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13607-13614.	4.0	40
11	Polyelectrolyte-based physical adhesive hydrogels with excellent mechanical properties for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4799-4807.	2.9	40
12	Color modulation of spatially isolated regions on a single poly(N-isopropylacrylamide) microgel based etalon. <i>Journal of Materials Chemistry</i> , 2012, 22, 8199.	6.7	38
13	Stimuli-responsive polymer-based systems for diagnostic applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7042-7061.	2.9	37
14	Poly(N-isopropylacrylamide) microgel-based assemblies. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3004-3020.	2.5	30
15	Comparison of the Responsivity of Solution-Suspended and Surface-Bound Poly(N-isopropylacrylamide)-Based Microgels for Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26539-26548.	4.0	26
16	Color-Tunable Etalons Assembled from Poly (N-Isopropylacrylamide) Based Microgels. <i>Polymers</i> , 2012, 4, 134-149.	2.0	24
17	Fluorescent Nanogel Sensors for X-ray Dosimetry. <i>ACS Sensors</i> , 2021, 6, 1643-1648.	4.0	24
18	The Influence of Deposition Solution pH and Ionic Strength on the Quality of Poly(N-isopropylacrylamide) Microgel-Based Thin Films and Etalons. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11977-11983.	4.0	22

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19	Mineralized growth of Janus membrane with asymmetric wetting property for fast separation of a trace of blood. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4876-4882.	2.9	22
20	A nanogel sensor for colorimetric fluorescence measurement of ionizing radiation doses. <i>Chemical Communications</i> , 2019, 55, 9614-9617.	2.2	21
21	Highly Strong, Stretchable, and Conductive Reduced Graphene Oxide Composite Hydrogel-Based Sensors for Motoring Strain and Pressure. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5155-5161.	2.0	19
22	Recent Advances in Hydrogel-Based Sensors Responding to Ionizing Radiation. <i>Gels</i> , 2022, 8, 238.	2.1	19
23	Recent advances in stimuli-responsive polymers for sensing and actuation. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 108-121.	1.7	18
24	Direct ultrasensitive electrochemical detection of breast cancer biomarker-miRNA-21 employing an aptasensor based on a microgel nanoparticle composite. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132067.	4.0	17
25	Effect of annealing on self-organized gradient film obtained from poly(3-[tris(trimethylsilyloxy)silyl]) Tj ETQq1 1 0.784314 rgBT /Overl... latexes. <i>Colloid and Polymer Science</i> , 2012, 290, 709-718.	1.0	16
26	Harnessing superhydrophobic coatings for enhancing the surface corrosion resistance of magnesium alloys. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9893-9899.	2.9	15
27	Preparation and structure of fluorinated/non-fluorinated polyacrylate gradient emulsion blend film. <i>Materials Letters</i> , 2010, 64, 2091-2093.	1.3	14
28	Synthesis and silicon gradient distribution of emulsifier-free TRIS-containing acrylate copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 370, 72-78.	2.3	12
29	Cadmium sulfide quantum dots/poly(acrylic acid-co-acrylic amide) composite hydrogel synthesized by gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2018, 145, 130-134.	1.4	10
30	Polythionine and gold nanostar-based impedimetric aptasensor for label-free detection of β -synuclein oligomers. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1523-1533.	1.5	10
31	2D Confined-Space Assisted Growth of Molecular-Level-Thick Polypyrrole Sheets with High Conductivity and Transparency. <i>Macromolecular Rapid Communications</i> , 2016, 37, 590-596.	2.0	9
32	Graphene oxide-based composite organohydrogels with high strength and low temperature resistance for strain sensors. <i>Soft Matter</i> , 2022, 18, 1201-1208.	1.2	9
33	Bioinspired tissue-compliant hydrogels with multifunctions for synergistic surgery "photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10117-10125.	2.9	8
34	Highly transparent, antifreezing and stretchable conductive organohydrogels for strain and pressure sensors. <i>Science China Technological Sciences</i> , 2021, 64, 2532-2540.	2.0	8
35	Liquid "liquid interface assisted synthesis of multifunctional and multicomponent hydrogel particles. <i>Journal of Materials Chemistry</i> , 2012, 22, 20998.	6.7	7
36	Interface assisted synthesis of complex hydrogel particles. <i>Soft Matter</i> , 2012, 8, 10095.	1.2	6

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37	Synthesis and self-aggregation of PTRIS-co-MMA polymer films via ARGET ATRP. <i>Materials Letters</i> , 2014, 120, 79-81.	1.3	6
38	Using \hat{I}^3 -Ray Polymerization-Induced Assemblies to Synthesize Polydopamine Nanocapsules. <i>Polymers</i> , 2019, 11, 1754.	2.0	6
39	Development and Characterization of a Novel Hydrogel for the Decontaminating of Radionuclide-Contaminated Skin Wounds. <i>Macromolecular Bioscience</i> , 2021, 21, e2000399.	2.1	6
40	Performance of a plastic scintillation fiber dosimeter based on different photoelectric devices. <i>Nuclear Science and Techniques/Hewuli</i> , 2021, 32, 1.	1.3	6
41	Polystyrene-based Hollow Microsphere Synthesized by \hat{I}^3 -ray Irradiation-assisted Polymerization and Self-Assembly and Its Application in Detection of Ionizing Radiation. <i>Scientific Reports</i> , 2017, 7, 41876.	1.6	5
42	Antiplasticizing effect of MOCA on poly(vinyl chloride). <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 83-87.	0.4	4
43	EFFECT OF FLUORINATED POLYACRYLATE CONTENT ON THE GRADIENT STRUCTURE AND SURFACE PROPERTY OF FLUORINATED/NON-FLUORINATED POLYACRYLATE LATEX BLEND FILMS. <i>Acta Polymerica Sinica</i> , 2011, 011, 838-844.	0.0	4
44	A flexible organohydrogel-based humidity sensor for noncontact artificial sensation. <i>Science China Technological Sciences</i> , 2022, 65, 191-200.	2.0	4
45	Preparation and characterization of gradient distribution of silicon in emulsion blend films. <i>Colloid and Polymer Science</i> , 2011, 289, 323-331.	1.0	3
46	Self-Stratification Silicon Gradient Film Prepared by Emulsion Blend Technique. <i>Advanced Materials Research</i> , 0, 233-235, 2145-2149.	0.3	2
47	Non-spherical Janus microgels driven by thiolated DNA interactions. <i>Polymer</i> , 2014, 55, 2340-2346.	1.8	2
48	Stimuli-Responsive Actuation: Harnessing the Power of Stimuli-Responsive Polymers for Actuation (<i>Adv. Funct. Mater.</i> 2/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070012.	7.8	2
49	Multi-responsive micro/nanogels for optical sensing. <i>Advances in Physics: X</i> , 2022, 7, .	1.5	2
50	Nanowire Oriented On-Surface Growth of Chiral Cystine Crystalline Nanosheets. <i>Langmuir</i> , 2015, 31, 8795-8801.	1.6	1
51	Alkenyl aromatic polymer microspheres via \hat{I}^3 -ray irradiation-assisted self-assembly after free-radical polymerization. <i>Radiation Physics and Chemistry</i> , 2020, 169, 107904.	1.4	1
52	Study on Morphology and Mechanical Properties of PVC with Ultrafine CaCO ₃ Surface-modified by Acrylate Macromolecular Modifiers. <i>Polymers and Polymer Composites</i> , 2012, 20, 191-196.	1.0	0