

Kunyan Sui

List of Publications by Year in descending order

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63
papers

4,182
citations

159585

30
h-index

118850

62
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63
all docs

63
docs citations

63
times ranked

4549
citing authors

#	ARTICLE	IF	CITATIONS
1	GaAs quantum dot/TiO ₂ heterojunction for visible-light photocatalytic hydrogen evolution: promotion of oxygen vacancy. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 450-460.	21.1	28
2	Precisely Defining Local Gradients of Stimuli-Responsive Hydrogels for Complex 2D-to-4D Shape Evolutions. <i>Small</i> , 2022, 18, e2104440.	10.0	12
3	Self-Powered Multifunction Ionic Skins Based on Gradient Polyelectrolyte Hydrogels. <i>ACS Nano</i> , 2022, 16, 4714-4725.	14.6	55
4	Power Generation Via Sliding Ionic Droplets on Nanolayered MXene Films. <i>ACS Applied Nano Materials</i> , 2022, 5, 4597-4602.	5.0	5
5	Reliable and Low Temperature Actuation of Water and Oil Slugs in Janus Photothermal Slippery Tube. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17968-17974.	8.0	14
6	Strong and tough self-wrinkling polyelectrolyte hydrogels constructed via a diffusion-complexation strategy. <i>Soft Matter</i> , 2022, 18, 3748-3755.	2.7	3
7	Interfacial and build-in electric fields rooting in gradient polyelectrolyte hydrogel boosted heavy metal removal. <i>Chemical Engineering Journal</i> , 2022, 444, 136541.	12.7	14
8	Electric field modulated water permeation through laminar Ti ₃ C ₂ T _x MXene membrane. <i>Water Research</i> , 2022, 219, 118598.	11.3	26
9	Ionic diode-based self-powered ionic skins with multiple sensory capabilities. <i>Materials Today Physics</i> , 2022, 26, 100744.	6.0	5
10	Bioinspired synthesis of fiber-shaped silk fibroin-ferric oxide nanohybrid for superior elimination of antimonite. <i>Journal of Hazardous Materials</i> , 2021, 403, 123909.	12.4	11
11	Electrostatic assembly construction of polysaccharide functionalized hybrid membrane for enhanced antimony removal. <i>Journal of Hazardous Materials</i> , 2021, 410, 124633.	12.4	31
12	Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 173-185.	21.1	356
13	Negative permittivity behavior in Ti ₃ AlC ₂ -polyimide composites and the regulation mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10388-10397.	2.2	31
14	Iron/epoxy random metamaterials with adjustable epsilon-near-zero and epsilon-negative property. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15995-16007.	2.2	19
15	Marine polysaccharide-based composite hydrogels containing fucoidan: Preparation, physicochemical characterization, and biocompatible evaluation. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 1978-1986.	7.5	47
16	Bio-Multifunctional Hydrogel Patches for Repairing Full-Thickness Abdominal Wall Defects. <i>Advanced Functional Materials</i> , 2021, 31, 2105614.	14.9	57
17	Anti-Swelling Gradient Polyelectrolyte Hydrogel Membranes as High-Performance Osmotic Energy Generators. <i>Angewandte Chemie</i> , 2021, 133, 20456-20462.	2.0	52
18	Anti-Swelling Gradient Polyelectrolyte Hydrogel Membranes as High-Performance Osmotic Energy Generators. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20294-20300.	13.8	73

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19	Progress in antimony capturing by superior materials: Mechanisms, properties and perspectives. <i>Chemical Engineering Journal</i> , 2021, 419, 130013.	12.7	21
20	High performance dual strain-temperature sensor based on alginate nanofibril/graphene oxide/polyacrylamide nanocomposite hydrogel. <i>Composites Communications</i> , 2021, 27, 100837.	6.3	25
21	Preparation of triamcinolone acetonide-loaded chitosan/fucoidan hydrogel and its potential application as an oral mucosa patch. <i>Carbohydrate Polymers</i> , 2021, 272, 118493.	10.2	65
22	Building nano-thin shells for all-polymer hollow multishelled spheres: Rigidity and reaction-shrinkage of composite network. <i>Composites Communications</i> , 2021, 28, 100920.	6.3	1
23	Chitosan functionalized iron nanosheet for enhanced removal of As(III) and Sb(III): Synergistic effect and mechanism. <i>Chemical Engineering Journal</i> , 2020, 382, 122999.	12.7	72
24	Synthesis of citric acid modified β -cyclodextrin/activated carbon hybrid composite and their adsorption properties toward methylene blue. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48315.	2.6	13
25	Affinity Laminated Chromatography Membrane Built in Electrodes for Suppressing Polysulfide Shuttling in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903233.	19.5	14
26	Nature-Inspired Sequential Shape Transformation of Energy-Patterned Hydrogel Sheets. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4878-4886.	8.0	16
27	Tunneling-induced negative permittivity in Ni/MnO nanocomposites by a bio-gel derived strategy. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3029-3039.	5.5	169
28	Electrospinning of biocompatible alginate-based nanofiber membranes via tailoring chain flexibility. <i>Carbohydrate Polymers</i> , 2020, 230, 115665.	10.2	37
29	Precisely Controlling the Output Force of Hydrogel Actuator Based on Thermodynamic Nonequilibrium Temporary Deformation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49042-49049.	8.0	10
30	Color-Tunable, Excitation-Dependent, and Time-Dependent Afterglows from Pure Organic Amorphous Polymers. <i>Advanced Materials</i> , 2020, 32, e2004768.	21.0	181
31	Accurate Control of All-Polymer Hollow Multishelled Spheres by One-Step Reaction-Diffusion. <i>Chemistry of Materials</i> , 2020, 32, 8442-8449.	6.7	13
32	Homologous cancerous cell membrane modulated multifunctional nanoshuttles: Targeting specificity and improved tumor theranostics. <i>Composites Communications</i> , 2020, 20, 100342.	6.3	13
33	Alginate mediated functional aggregation of gold nanoclusters for systemic photothermal therapy and efficient renal clearance. <i>Carbohydrate Polymers</i> , 2020, 241, 116344.	10.2	23
34	Reevaluating Protein Photoluminescence: Remarkable Visible Luminescence upon Concentration and Insight into the Emission Mechanism. <i>Angewandte Chemie</i> , 2019, 131, 12797-12803.	2.0	30
35	Seaweed-Derived Electrospun Nanofibrous Membranes for Ultrahigh Protein Adsorption. <i>Advanced Functional Materials</i> , 2019, 29, 1905610.	14.9	36
36	Preparation of improved gluten material and its adsorption behavior for congo red from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 249-257.	9.4	28

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37	Design of injectable agar/NaCl/polyacrylamide ionic hydrogels for high performance strain sensors. <i>Carbohydrate Polymers</i> , 2019, 211, 322-328.	10.2	90
38	Multiple Weak H-Bonds Lead to Highly Sensitive, Stretchable, Self-Adhesive, and Self-Healing Ionic Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7755-7763.	8.0	264
39	Reevaluating Protein Photoluminescence: Remarkable Visible Luminescence upon Concentration and Insight into the Emission Mechanism. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12667-12673.	13.8	154
40	Development of a magnetic core-shell Fe ₃ O ₄ @TA@UiO-66 microsphere for removal of arsenic(III) and antimony(III) from aqueous solution. <i>Journal of Hazardous Materials</i> , 2019, 378, 120721.	12.4	108
41	Direct Current-Powered High-Performance Ionic Hydrogel Strain Sensor Based on Electrochemical Redox Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24289-24297.	8.0	21
42	Dual-gradient enabled ultrafast biomimetic snapping of hydrogel materials. <i>Science Advances</i> , 2019, 5, eaav7174.	10.3	184
43	Ultrafast Fabrication of Gradient Nanoporous Alginate Polysaccharide Films as Strong, Superfast, and Multiresponsive Actuators. <i>Advanced Functional Materials</i> , 2019, 29, 1807692.	14.9	106
44	Supramolecular nanofibrillar hydrogels as highly stretchable, elastic and sensitive ionic sensors. <i>Materials Horizons</i> , 2019, 6, 326-333.	12.2	327
45	Synchronous enhancement and stabilization of graphene oxide liquid crystals: Inductive effect of sodium alginates in different concentration zones. <i>Polymer</i> , 2019, 160, 107-114.	3.8	19
46	Gelatin/alginate composite nanofiber membranes for effective and even adsorption of cationic dyes. <i>Composites Part B: Engineering</i> , 2019, 162, 671-677.	12.0	117
47	Controlled synthesis of sodium alginate electrospun nanofiber membranes for multi-occasion adsorption and separation of methylene blue. <i>Carbohydrate Polymers</i> , 2019, 205, 125-134.	10.2	136
48	Preparation of periodic copolymers by living anionic polymerization mechanism assisted with a versatile programmed monomer addition mode. <i>Polymer</i> , 2018, 137, 364-369.	3.8	12
49	Clustering-Triggered Emission and Persistent Room Temperature Phosphorescence of Sodium Alginate. <i>Biomacromolecules</i> , 2018, 19, 2014-2022.	5.4	248
50	Design of superior conductive polymer composite with precisely controlling carbon nanotubes at the interface of a co-continuous polymer blend via a balance of π - π interactions and dipole-dipole interactions. <i>Carbon</i> , 2017, 114, 441-448.	10.3	179
51	Filtration and adsorption properties of porous calcium alginate membrane for methylene blue removal from water. <i>Chemical Engineering Journal</i> , 2017, 316, 623-630.	12.7	205
52	Gelation of Na-alginate aqueous solution: A study of sodium ion dynamics via NMR relaxometry. <i>Carbohydrate Polymers</i> , 2017, 169, 206-212.	10.2	16
53	Reprogrammable ultra-fast shape-transformation of macroporous composite hydrogel sheets. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2883-2887.	5.8	23
54	Balance the electrical properties and mechanical properties of carbon black filled immiscible polymer blends with a double percolation structure. <i>Composites Science and Technology</i> , 2017, 140, 99-105.	7.8	121

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55	Functionalized alginate with liquid-like behaviors and its application in wet-spinning. Carbohydrate Polymers, 2017, 174, 933-940.	10.2	31
56	Grafting of multi-sensitive PDMAEMA brushes onto carbon nanotubes by ATNRC: tunable thickening/thinning and self-assembly behaviors in aqueous solutions. RSC Advances, 2016, 6, 92305-92315.	3.6	6
57	Synthesis and characterization of crystalline graft polymer poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (oxide Science Part A, 2014, 52, 2239-2247.	2.3	7
58	Synthesis, Rapid Responsive Thickening, and Self-Assembly of Brush Copolymer Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 2012, 28, 153-160.	3.5	36
59	Biocomposite fiber of calcium alginate/multi-walled carbon nanotubes with enhanced adsorption properties for ionic dyes. Carbohydrate Polymers, 2012, 90, 399-406.	10.2	118
60	Synthesis of Amphiphilic Poly(ethylene oxide-co-glycidol) grafted polyacrylonitrile Brush Copolymers and their Self-assembly in Aqueous Media. Macromolecular Chemistry and Physics, 2012, 213, 1717-1724.	2.2	3
61	Dual-responsive supramolecular inclusion complexes of block copolymer poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Science Part A, 2010, 48, 2143-2153.	2.3	24
62	Injectable supramolecular hybrid hydrogels formed by MWNT grafted poly(ethylene glycol) and cyclodextrin. Journal of Polymer Science Part A, 2010, 48, 3145-3151.	2.3	19
63	Construction of 3D shape-changing hydrogels via light modulated internal stress fields. Energy and Environmental Materials, 0, , .	12.8	2