Hui Wu

List of Publications by Year
in descending order

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75 papers	2,744 citations	136950 32 h-index	189892 50 g-index
76 all docs	76 docs citations	76 times ranked	2876 citing authors

#	Article	IF	Citations
1	Competition between Oxidation and Coordination in Cross-Linking of Polystyrene Copolymer Containing Catechol Groups. ACS Macro Letters, 2012, 1, 457-460.	4.8	168
2	Anti-freezing and moisturizing conductive hydrogels for strain sensing and moist-electric generation applications. Journal of Materials Chemistry A, 2020, 8, 3109-3118.	10.3	158
3	Mussel-inspired blue-light-activated cellulose-based adhesive hydrogel with fast gelation, rapid haemostasis and antibacterial property for wound healing. Chemical Engineering Journal, 2021, 417, 129329.	12.7	157
4	TEMPO-Oxidized Cellulose with High Degree of Oxidation. Polymers, 2017, 9, 421.	4.5	123
5	Intramolecular Electron Transfer within the Substituted Tetrathiafulvaleneâ^'Quinone Dyads:Â Facilitated by Metal Ion and Photomodulation in the Presence of Spiropyran. Journal of the American Chemical Society, 2007, 129, 6839-6846.	13.7	95
6	Crystallization and Orientation of Syndiotactic Polystyrene in Nanorods. Macromolecules, 2007, 40, 4244-4249.	4.8	91
7	Robust superhydrophobic and superoleophilic filter paper via atom transfer radical polymerization for oil/water separation. Carbohydrate Polymers, 2018, 181, 419-425.	10.2	78
8	Tough and super-stretchable conductive double network hydrogels with multiple sensations and moisture-electric generation. Chemical Engineering Journal, 2021, 414, 128726.	12.7	76
9	Molecular self-assembly of one-dimensional polymer nanostructures in nanopores of anodic alumina oxide templates. Progress in Polymer Science, 2018, 77, 95-117.	24.7	70
10	A self-healing, stretchable, and conductive Poly(N-vinylpyrrolidone)/gallic acid composite hydrogel formed via hydrogen bonding for wearable electronic sensors. Composites Science and Technology, 2020, 198, 108294.	7.8	69
11	Halloysite Nanotubes: Green Nanomaterial for Functional Organicâ€inorganic Nanohybrids. Chemical Record, 2018, 18, 986-999.	5.8	68
12	Mussel-inspired cellulose-based adhesive with biocompatibility and strong mechanical strength via metal coordination. International Journal of Biological Macromolecules, 2020, 144, 127-134.	7.5	68
13	Effect of the degree of substitution on the hydrophobicity of acetylated cellulose for production of liquid marbles. Cellulose, 2016, 23, 811-821.	4.9	64
14	Orientation of Syndiotactic Polystyrene Crystallized in Cylindrical Nanopores. Macromolecular Rapid Communications, 2009, 30, 194-198.	3.9	61
15	Mussel-inspired biocompatible polydopamine/carboxymethyl cellulose/polyacrylic acid adhesive hydrogels with UV-shielding capacity. Cellulose, 2021, 28, 1527-1540.	4.9	57
16	A â€œnon-stickyâ€•superhydrophobic surface prepared by self-assembly of fluoroalkyl phosphonic acid on a hierarchically micro/nanostructured alumina gel film. Chemical Communications, 2012, 48, 6824.	4.1	54
17	An adaptive ionic skin with multiple stimulus responses and moist-electric generation ability. Journal of Materials Chemistry A, 2020, 8, 17498-17506.	10.3	53
18	Robust Liquid Marbles Stabilized with Surface-Modified Halloysite Nanotubes. Langmuir, 2013, 29, 14971-14975.	3.5	51

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19	Polymorphic Behavior of Syndiotactic Polystyrene Crystallized in Cylindrical Nanopores. Macromolecules, 2008, 41, 7755-7758.	4.8	50
20	Preparation and Characterization of Antibacterial Cellulose/Chitosan Nanofiltration Membranes. Polymers, 2017, 9, 116.	4.5	50
21	Super-ductile, injectable, fast self-healing collagen-based hydrogels with multi-responsive and accelerated wound-repair properties. Chemical Engineering Journal, 2021, 405, 126756.	12.7	49
22	Internally Modified Halloysite Nanotubes as Inorganic Nanocontainers for a Flame Retardant. Chemistry Letters, 2013, 42, 121-123.	1.3	46
23	Superhydrophobic magnetic poly(DOPAm-co-PFOEA)/Fe₃O₄/cellulose microspheres for stable liquid marbles. Chemical Communications, 2016, 52, 1895-1898.	4.1	46
24	Nature-inspired self-powered cellulose nanofibrils hydrogels with high sensitivity and mechanical adaptability. Carbohydrate Polymers, 2021, 264, 117995.	10.2	43
25	Chain orientation in poly(glycolic acid)/halloysite nanotube hybrid electrospun fibers. Polymer, 2015, 60, 284-291.	3.8	40
26	Mussel-Inspired Conductive Hydrogel with Self-Healing, Adhesive, and Antibacterial Properties for Wearable Monitoring. ACS Applied Polymer Materials, 2021, 3, 5798-5807.	4.4	40
27	Diallyl dimethyl ammonium chloride-grafted cellulose filter membrane via ATRP for selective removal of anionic dye. Cellulose, 2018, 25, 7261-7275.	4.9	38
28	A bioinspired gallol-functionalized collagen as wet-tissue adhesive for biomedical applications. Chemical Engineering Journal, 2021, 417, 127962.	12.7	37
29	Self-Healing Cellulose Nanocrystals-Containing Gels via Reshuffling of Thiuram Disulfide Bonds. Polymers, 2018, 10, 1392.	4.5	36
30	Effects of Temperature and Template Surface on Crystallization of Syndiotactic Polystyrene in Cylindrical Nanopores. Macromolecules, 2012, 45, 5196-5200.	4.8	35
31	A tough organohydrogel-based multiresponsive sensor for a triboelectric nanogenerator and supercapacitor toward wearable intelligent devices. Journal of Materials Chemistry A, 2022, 10, 12092-12103.	10.3	35
32	Isotactic polystyrene nanorods with gradient crystallite states. Soft Matter, 2012, 8, 3180.	2.7	32
33	Structural effects of catechol-containing polystyrene gels based on a dual cross-linking approach. Soft Matter, 2013, 9, 1967-1974.	2.7	31
34	Nanocellulose-derived carbon/g-C3N4 heterojunction with a hybrid electron transfer pathway for highly photocatalytic hydrogen peroxide production. Journal of Colloid and Interface Science, 2021, 599, 507-518.	9.4	31
35	Polymer Solar Cells Employing Water-Soluble Polypyrrole Nanoparticles as Dopants of PEDOT:PSS with Enhanced Efficiency and Stability. Journal of Physical Chemistry C, 2017, 121, 18378-18384.	3.1	29
36	Adhesive, Antibacterial, Conductive, Anti-UV, Self-Healing, and Tough Collagen-Based Hydrogels from a Pyrogallol-Ag Self-Catalysis System. ACS Applied Materials & Interfaces, 2022, 14, 8728-8742.	8.0	28

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37	C-nanocoated ZnO by TEMPO-oxidized cellulose templating for improved photocatalytic performance. Carbohydrate Polymers, 2020, 235, 115958.	10.2	27
38	Biocompatible Lignin-Containing Hydrogels with Self-Adhesion, Conductivity, UV Shielding, and Antioxidant Activity as Wearable Sensors. ACS Applied Polymer Materials, 2022, 4, 1448-1456.	4.4	26
39	New Substituted Tetrathiafulvaleneâ^'Quinone Dyads: The Influences of Electron Accepting Abilities of Quinone Units on the Metal Ion-Promoted Electron-Transfer Processes. Journal of Organic Chemistry, 2008, 73, 4271-4274.	3.2	24
40	Confinement-Induced Crystal Growth in One-Dimensional Isotactic Polystyrene Nanorod Arrays. ACS Macro Letters, 2013, 2, 414-418.	4.8	24
41	Plant-inspired conductive adhesive organohydrogel with extreme environmental tolerance as a wearable dressing for multifunctional sensors. Colloids and Surfaces B: Biointerfaces, 2022, 215, 112509.	5.0	22
42	Staining of wood veneers with anti-UV property using the natural dye extracted from Dalbergia cohinchinensis. Journal of Cleaner Production, 2021, 284, 124770.	9.3	20
43	Metal-free photocatalyst for nitrogen fixation under visible light based on COF/g-C3N4/ CNT nanocomposite. Journal of Environmental Chemical Engineering, 2022, 10, 107713.	6.7	20
44	Influence of water evaporation/absorption on the stability of glycerolâ€"water marbles. RSC Advances, 2019, 9, 34465-34471.	3.6	19
45	Biocompatible Catecholâ€Functionalized Celluloseâ€Based Adhesives with Strong Water Resistance. Macromolecular Materials and Engineering, 2021, 306, 2100232.	3.6	19
46	Ordered Organic Nanostructures Fabricated from Anodic Alumina Oxide Templates for Organic Bulkâ€Heterojunction Photovoltaics. Macromolecular Chemistry and Physics, 2014, 215, 584-596.	2.2	18
47	A Green Catechol-Containing Cellulose Nanofibrils-Cross-Linked Adhesive. ACS Biomaterials Science and Engineering, 2022, 8, 1096-1102.	5.2	18
48	Superhydrophobic wood grafted by poly(2-(perfluorooctyl)ethyl methacrylate) via ATRP with self-cleaning, abrasion resistance and anti-mold properties. Holzforschung, 2020, 74, 799-809.	1.9	17
49	Gradient composition distribution in poly(2,6-dimethylphenylene oxide)/polystyrene blend nanorods. Soft Matter, 2011, 7, 1868-1873.	2.7	16
50	A perspective on lignin effects on hemicelluloses dissolution for bamboo pretreatment. Industrial Crops and Products, 2016, 94, 117-121.	5.2	16
51	Dual-functionalized hyaluronic acid as a facile modifier to prepare polyanionic collagen. Carbohydrate Polymers, 2019, 215, 358-365.	10.2	15
52	Fluorescence studies on the aggregation behaviors of collagen modified with NHS-activated poly(Î³-glutamic acid). International Journal of Biological Macromolecules, 2018, 112, 1156-1163.	7.5	14
53	Fabrication of highly concentrated collagens using cooled urea/HAc as novel binary solvent. Journal of Molecular Liquids, 2019, 291, 111304.	4.9	14
54	Novel Modification of Collagen: Realizing Desired Water Solubility and Thermostability in a Conflict-Free Way. ACS Omega, 2020, 5, 5772-5780.	3.5	14

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55	Self-healing, reusable and conductive cellulose nanocrystals-containing adhesives. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 643, 128797.	4.7	14
56	Molecular composition distribution of polycarbonate/polystyrene blends in cylindrical nanopores. Polymer Journal, 2011, 43, 600-605.	2.7	12
57	Characterization of an isotactic polystyrene/poly(2,6-dimethylphenylene oxide) nanorod blend with gradient composition and crystallinity. RSC Advances, 2012, 2, 8707.	3.6	12
58	Orientation and crystallization of regioregular poly(3-dodecylthiophene) in alumina nanopores. Soft Matter, 2017, 13, 4661-4666.	2.7	11
59	Molecular self-assembly of nylon-12 nanorods cylindrically confined to nanoporous alumina. IUCrJ, 2014, 1, 439-445.	2.2	10
60	Self-healing cellulose nanocrystal-stabilized droplets for water collection under oil. Soft Matter, 2018, 14, 9308-9311.	2.7	10
61	Tendon-inspired fibers from liquid crystalline collagen as the pre-oriented bioink. International Journal of Biological Macromolecules, 2021, 185, 739-749.	7.5	10
62	CRYSTALLIZATION AND ORIENTATION OF POLYETHELENE IN ANODIC ALUMINUM OXIDE TEMPLATES. Acta Polymerica Sinica, 2009, 009, 425-429.	0.0	10
63	Rapid fabrication of bionic pyrogallol-based self-adhesive hydrogel with mechanically tunable, self-healing, antibacterial, wound healing, and hemostatic properties. , 2022, 136, 212765.		10
64	Polystyrene-based blend nanorods with gradient composition distribution. Science China Chemistry, 2012, 55, 726-734.	8.2	7
65	Direct Measurement of Chain Diffusion at Interfaces of PPO/PS Bilayer Films by Nano-Thermal Analysis and Time-of-Flight Secondary Ion Mass Spectrometry. Macromolecules, 2013, 46, 9722-9728.	4.8	7
66	Molecular reorientation of polyimide film induced by thermal nanoimprint lithography and liquid crystals alignment on it. Polymer, 2015, 72, 113-117.	3.8	7
67	Morphology of nanoimprinted polyimide films fabricated via a controlled thermal history. Polymer Journal, 2012, 44, 1036-1041.	2.7	5
68	Photochromic nanocellulose composite films with excellent anti-UV capacity. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	4
69	Grazing-incidence wide-angle X-ray diffraction study on molecular aggregation state of imprinted polyimide film before and after hard baking. Polymer Bulletin, 2013, 70, 105-115.	3.3	3
70	Liquid Marbles from Polymer Particles: Formation Mechanism, Physical Characterizations, and Applications. Kobunshi Ronbunshu, 2017, 74, 26-35.	0.2	3
71	Structural Evolution of Low-Molecular-Weight Poly(ethylene oxide)-block-polystyrene Diblock Copolymer Thin Film. Scientific World Journal, The, 2013, 2013, 1-7.	2.1	2
72	Decay resistance effects of Pinus massoniana treated with different preservatives based on pyrolysis and thermodynamics. Wood Science and Technology, 2016, 50, 105-116.	3.2	2

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73	Analysis of bonding mechanism of glass fiber-reinforced bamboo plywood. BioResources, 2020, 15, 529-543.	1.0	2
74	Mussel-Inspired Magnetic Dissolving Pulp Fibers Toward the Adsorption and Degradation of Organic Dyes. Frontiers in Chemistry, 2022, 10, 840133.	3.6	2
75	Differential proteome analysis of the extracts from the xylem of Cinnamomum camphora inhibiting Coriolus versicolor. Holzforschung, 2018, 72, 459-466.	1.9	1