

Bin Yan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

4,071
citations

33
h-index

61
g-index

109
ext. papers

4,955
ext. citations

7
avg, IF

5.84
L-index

#	Paper	IF	Citations
104	Aminated Polyacrylonitrile Nanofiber Membranes for the Removal of Organic Dyes. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1131-1140	5.6	8
103	Probing Anion-π Interactions between fluoroarene and carboxylate anion in aqueous solutions.. <i>Journal of Colloid and Interface Science</i> , 2022 , 615, 778-785	9.3	2
102	Starch-derived flocculant with hyperbranched brush architecture for effectively flocculating organic dyes, heavy metals and antibiotics. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 135, 104383	5.3	1
101	Self-Assembled Polyaniline/TiCT Nanocomposites for High-Performance Electrochromic Films. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
100	Tannic acid/Fe ³⁺ functionalized magnetic graphene oxide nanocomposite with high loading of silver nanoparticles as ultra-efficient catalyst and disinfectant for wastewater treatment. <i>Chemical Engineering Journal</i> , 2021 , 405, 126629	14.7	34
99	Development of eco-friendly CO ₂ -responsive cellulose nanofibril aerogels as "green" adsorbents for anionic dyes removal. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124194	12.8	28
98	A coral-like polyaniline/barium titanate nanocomposite electrode with double electric polarization for electrochromic energy storage applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1669-1677	13	13
97	High-performance piezoelectric nanogenerator based on electrospun ZnO nanorods/P(VDF-TrFE) composite membranes for energy harvesting application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 3966-3978	2.1	6
96	Low-Power Near-Infrared-Responsive Upconversion Nanovectors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7094-7101	9.5	0
95	808 nm Near-Infrared Light-Triggered Payload Release from Green Light-Responsive Donor-Acceptor Stenhouse Adducts Polymer-Coated Upconversion Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100318	4.8	1
94	Ion-specific effect on self-cleaning performances of polyelectrolyte-functionalized membranes and the underlying nanomechanical mechanism. <i>Journal of Membrane Science</i> , 2021 , 634, 119408	9.6	1
93	Fe-citric acid/sodium alginate hydrogel: A photo-responsive platform for rapid water purification. <i>Carbohydrate Polymers</i> , 2021 , 269, 118269	10.3	6
92	Ultra elastic, stretchable, self-healing conductive hydrogels with tunable optical properties for highly sensitive soft electronic sensors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24718-24733	13	45
91	Ultra-efficient and stable heterogeneous iron-based Fenton nanocatalysts for degrading organic dyes at neutral pH via a chelating effect under nanoconfinement. <i>Chemical Communications</i> , 2020 , 56, 6571-6574	5.8	14
90	Flexible Piezoelectric Pressure Tactile Sensor Based on Electrospun BaTiO ₃ /Poly(vinylidene fluoride) Nanocomposite Membrane. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33989-33998	9.5	58
89	Highly efficient removal of Cr(VI) ions from wastewater by the pomegranate-like magnetic hybrid nano-adsorbent of polydopamine and Fe ₃ O ₄ nanoparticles. <i>New Journal of Chemistry</i> , 2020 , 44, 12785-12792	3.6	11
88	Robust, stretchable and photothermal self-healing polyurethane elastomer based on furan-modified polydopamine nanoparticles. <i>Polymer</i> , 2020 , 190, 122219	3.9	27

87	Solution-Processable and Patternable Poly(o-methoxyaniline)-Based Nanocomposite Film for Large-Area Electrochromic Display with Large Optical Modulation and Ultrafast Response Speed. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10898-10906	3.8	7
86	Facile preparation of hierarchical porous polydopamine microspheres for rapid removal of chromate from the wastewater. <i>Journal of Leather Science and Engineering</i> , 2020 , 2,	3.6	6
85	Bio-inspired membrane with adaptable wettability for smart oil/water separation. <i>Journal of Membrane Science</i> , 2020 , 598, 117661	9.6	39
84	Tannic acid modified MoS nanosheet membranes with superior water flux and ion/dye rejection. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 177-185	9.3	15
83	Polydopamine/polystyrene nanocomposite double-layer strain sensor hydrogel with mechanical, self-healing, adhesive and conductive properties. <i>Materials Science and Engineering C</i> , 2020 , 109, 110567	8.3	28
82	Solution-processable three-dimensional honeycomb-like poly(3,4-ethylenedioxythiophene) nanostructure networks with very fast response speed for patterned electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 207, 110354	6.4	12
81	Nanomechanics of Anion-Interaction in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1710-1714	16.4	48
80	Environmentally friendly nanocomposites based on cellulose nanocrystals and polydopamine for rapid removal of organic dyes in aqueous solution. <i>Cellulose</i> , 2020 , 27, 2085-2097	5.5	39
79	Nanomechanics of Cation-Interaction with implications for bio-inspired wet adhesion. <i>Acta Biomaterialia</i> , 2020 , 117, 294-301	10.8	12
78	Sustainable Advanced Fenton-like Catalysts Based on Mussel-Inspired Magnetic Cellulose Nanocomposites to Effectively Remove Organic Dyes and Antibiotics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51952-51959	9.5	19
77	Transparent Stretchable Dual-Network Ionogel with Temperature Tolerance for High-Performance Flexible Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37597-37606	9.5	39
76	Solution-processable core/shell structured nanocellulose/poly(o-Methoxyaniline) nanocomposites for electrochromic applications. <i>Cellulose</i> , 2020 , 27, 9467-9478	5.5	1
75	Antifreeze and moisturizing high conductivity PEDOT/PVA hydrogels for wearable motion sensor. <i>Journal of Materials Science</i> , 2020 , 55, 1280-1291	4.3	33
74	Injectable and Self-Healing Nanocomposite Hydrogels with Ultrasensitive pH-Responsiveness and Tunable Mechanical Properties: Implications for Controlled Drug Delivery. <i>Biomacromolecules</i> , 2020 , 21, 2409-2420	6.9	51
73	A wet adhesion strategy via synergistic cation and hydrogen bonding interactions of antifouling zwitterions and mussel-inspired binding moieties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21944-21952	13	31
72	Acidity-triggered zwitterionic prodrug nano-carriers with AIE properties and amplification of oxidative stress for mitochondria-targeted cancer theranostics. <i>Polymer Chemistry</i> , 2019 , 10, 983-990	4.9	11
71	Mechanistic Understanding and Nanomechanics of Multiple Hydrogen-Bonding Interactions in Aqueous Environment. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4540-4548	3.8	7
70	Interaction Mechanisms of Zwitterions with Opposite Dipoles in Aqueous Solutions. <i>Langmuir</i> , 2019 , 35, 2842-2853	4	10

69	Stomatocyte-like hollow polydopamine nanoparticles for rapid removal of water-soluble dyes from water. <i>Chemical Communications</i> , 2019 , 55, 8162-8165	5.8	24
68	Polyaniline nanoparticle coated graphene oxide composite nanoflakes for bifunctional multicolor electrochromic and supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 13497-13508	2.1	15
67	Rapid Dewatering and Consolidation of Concentrated Colloidal Suspensions: Mature Fine Tailings via Self-Healing Composite Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21610-21618	9.5	12
66	Hierarchical polydopamine coated cellulose nanocrystal microstructures as efficient nanoadsorbents for removal of Cr(VI) ions. <i>Cellulose</i> , 2019 , 26, 6401-6414	5.5	32
65	Electrochromic polyaniline/aramid nanofiber composites with enhanced cycling stability and film forming property. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12718-12728	2.1	11
64	Regulation of aggregation-induced emission behaviours and mechanofluorochromism of tetraphenylethene through different oxidation states of sulphur moieties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8244-8249	7.1	17
63	Patterned Flexible Electrochromic Device Based on Monodisperse Silica/Polyaniline Core/Shell Nanospheres. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H343-H350	3.9	22
62	Conductive Polymer Nanotubes for Electrochromic Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3154-3160	5.6	11
61	PEDOT nanoparticles fully covered on natural tubular clay for hierarchically porous electrochromic film. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 199, 59-65	6.4	17
60	High Performance Piezoelectric Nanogenerators Based on Electrospun ZnO Nanorods/Poly(vinylidene fluoride) Composite Membranes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11378-11387	3.8	58
59	Probing the Interaction Forces of Phenol/Amine Deposition in Wet Adhesion: Impact of Phenol/Amine Mass Ratio and Surface Properties. <i>Langmuir</i> , 2019 , 35, 15639-15650	4	8
58	Constructing spraying-processed complementary smart windows via electrochromic materials with hierarchical nanostructures. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14855-14860	7.1	16
57	High-Strength, Self-Healable, Temperature-Sensitive, MXene-Containing Composite Hydrogel as a Smart Compression Sensor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47350-47357	9.5	90
56	A facile preparation of SiO ₂ /PEDOT core/shell nanoparticle composite film for electrochromic device. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 3994-4005	2.1	6
55	Unraveling the molecular interaction mechanism between graphene oxide and aromatic organic compounds with implications on wastewater treatment. <i>Chemical Engineering Journal</i> , 2019 , 358, 842-849	14.7	27
54	Core/shell structured halloysite/polyaniline nanotubes with enhanced electrochromic properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5707-5715	7.1	37
53	Regenerable urchin-like FeO@PDA-Ag hollow microspheres as catalyst and adsorbent for enhanced removal of organic dyes. <i>Journal of Hazardous Materials</i> , 2018 , 350, 66-75	12.8	119
52	Universal Mussel-Inspired Ultrastable Surface-Anchoring Strategy via Adaptive Synergy of Catechol and Cations. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2166-2173	9.5	33

51	An amphiphobic graphene-based hydrogel as oil-water separator and oil fence material. <i>Chemical Engineering Journal</i> , 2018 , 353, 708-716	14.7	36
50	Tuning protein adsorption on charged polyelectrolyte brushes via salinity adjustment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 539, 37-45	5.1	13
49	Synthesis and Properties of High-Performance Thermoplastic Poly(ester-ether) Elastomers Reinforced by N,N'-Bis(2-carboxyethyl) Pyromellitimide Moieties. <i>Polymer Science - Series B</i> , 2018 , 60, 578-588	0.8	1
48	Biomimetic Lubrication and Surface Interactions of Dopamine-Assisted Zwitterionic Polyelectrolyte Coatings. <i>Langmuir</i> , 2018 , 34, 11593-11601	4	31
47	Understanding the surface properties and rheology of a silica suspension mediated by a comb-type poly(acrylic acid)/poly(ethylene oxide) (PAA/PEO) copolymer: effect of salinity. <i>Soft Matter</i> , 2018 , 14, 4810-4819	3.6	3
46	Robust polymer nanofilms with bioengineering and environmental applications via facile and highly efficient covalent layer-by-layer assembly. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3742-3750	7.3	14
45	Injectable Self-Healing Hydrogel with Antimicrobial and Antifouling Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9221-9225	9.5	102
44	Core cross-linked double hydrophilic block copolymer micelles based on multiple hydrogen-bonding interactions. <i>Polymer Chemistry</i> , 2017 , 8, 3066-3073	4.9	29
43	Octadecyltrichlorosilane Deposition on Mica Surfaces: Insights into the Interface Interaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3151-3161	3.4	23
42	Duplicating Dynamic Strain-Stiffening Behavior and Nanomechanics of Biological Tissues in a Synthetic Self-Healing Flexible Network Hydrogel. <i>ACS Nano</i> , 2017 , 11, 11074-11081	16.7	73
41	A facile and eco-friendly strategy to prepare synthetic syntans for after-treatment of dyed nylon fabrics. <i>Dyes and Pigments</i> , 2017 , 146, 199-202	4.6	8
40	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie</i> , 2016 , 128, 15241-15245	3.6	2
39	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15017-15021	16.4	74
38	A two-step flocculation process on oil sands tailings treatment using oppositely charged polymer flocculants. <i>Science of the Total Environment</i> , 2016 , 565, 369-375	10.2	46
37	Dendrimer functionalized graphene oxide for selenium removal. <i>Carbon</i> , 2016 , 105, 655-664	10.4	76
36	Molecular and Surface Interactions between Polymer Flocculant Chitosan-g-polyacrylamide and Kaolinite Particles: Impact of Salinity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7327-7339	3.8	52
35	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. <i>RSC Advances</i> , 2015 , 5, 32272-32282	3.7	65
34	Mussel-inspired antifouling coatings bearing polymer loops. <i>Chemical Communications</i> , 2015 , 51, 15780-3.8	3.8	74

33	Microfluidic Synthesis of Photoresponsive Spool-Like Block Copolymer Nanoparticles: Flow-Directed Formation and Light-Triggered Dissociation. <i>Chemistry of Materials</i> , 2015 , 27, 8094-8104	9.6	25
32	Novel mussel-inspired injectable self-healing hydrogel with anti-biofouling property. <i>Advanced Materials</i> , 2015 , 27, 1294-9	24	387
31	Nanocomposites of graphene oxide, Ag nanoparticles, and magnetic ferrite nanoparticles for elemental mercury (Hg0) removal. <i>RSC Advances</i> , 2015 , 5, 15634-15640	3.7	31
30	Understanding nanorheology and surface forces of confined thin films 2014 , 26, 3-14		17
29	Efficient removal of elemental mercury (Hg0) by SBA-15-Ag adsorbents. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17730-17734	13	50
28	Highly regenerable mussel-inspired Fe ₃ O ₄ @polydopamine-Ag core-shell microspheres as catalyst and adsorbent for methylene blue removal. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8845-52	9.5	329
27	Manipulation of block copolymer vesicles using CO ₂ : dissociation or Breathing <i>Soft Matter</i> , 2013 , 9, 2011	3.6	95
26	Near infrared light triggered release of biomacromolecules from hydrogels loaded with upconversion nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16558-61	16.4	352
25	Ultrasound-responsive block copolymer micelles based on a new amplification mechanism. <i>Langmuir</i> , 2012 , 28, 16463-8	4	58
24	Near-infrared light-triggered dissociation of block copolymer micelles using upconverting nanoparticles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19714-7	16.4	401
23	Light-responsive block copolymer vesicles based on a photo-softening effect. <i>Soft Matter</i> , 2011 , 7, 10001.6	3.6	51
22	Both core- and shell-cross-linked nanogels: photoinduced size change, intraparticle LCST, and interparticle UCST thermal behaviors. <i>Langmuir</i> , 2011 , 27, 436-44	4	63
21	Macro reversible addition-fragmentation chain transfer agent mixture as a means to enhance the electro-optical performance of polymer-dispersed liquid crystals. <i>Polymer International</i> , 2011 , 60, 971-975	3.3	5
20	Optically triggered dissociation of kinetically stabilized block copolymer vesicles in aqueous solution. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 972-6	4.8	21
19	The improvement of electro-optical properties of polymer-dispersed liquid crystals using copolymer macroinitiator with different glass transition temperature. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 5557-5561	2.5	8
18	Influence of matrix glass transition temperature on the memory effect of polymer-dispersed liquid crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 729-732	2.6	13
17	Effect of molecular weight of macro-iniferter on electro-optical properties of polymer dispersed liquid crystal films prepared by iniferter polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 1530-1534	2.6	7
16	The effect of the resultant microphase-separated structures of polymer matrices on the electro-optical properties of polymer dispersed liquid crystal films by Iniferter polymerization. <i>European Polymer Journal</i> , 2009 , 45, 1936-1940	5.2	8

15	Control of liquid crystal droplet configuration in polymer dispersed liquid crystal with macro-iniferter polystyrene. <i>Liquid Crystals</i> , 2009 , 36, 933-938	2.3	8
14	Effect of polymer structures on electro-optical properties of polymer stabilized liquid crystal films. <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 265-268		7
13	Fine adjustment of network in polymer network liquid crystal film employing RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 3140-3144	2.5	9
12	Modification of electro-optical properties of polymer dispersed liquid crystal films by iniferter polymerization. <i>European Polymer Journal</i> , 2008 , 44, 952-958	5.2	28
11	Synthesis and characterization of copolythiophene. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 3543-3550	2.5	5
10	The effect of molecular weight of polymer matrix on properties of polymer-dispersed liquid crystals. <i>European Polymer Journal</i> , 2007 , 43, 2745-2749	5.2	47
9	A novel polymer dispersed liquid crystal film prepared by reversible addition fragmentation chain transfer polymerization. <i>European Polymer Journal</i> , 2007 , 43, 4037-4042	5.2	17
8	Effect of the structure of gelators on electro-optical properties of liquid crystal physical gels. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 825-30	9.3	17
7	RAFT Copolymerization as a means to enhance the electro-optical performance of polymer dispersed liquid crystal films. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4144-4149	2.5	34
6	The Effects of Different Side Groups on the Properties of Polythiophene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007 , 44, 989-993	2.2	11
5	Sustainably closed loop recycling of hierarchically porous polymer microbeads for efficient removal of cationic dyes. <i>Environmental Science: Water Research and Technology</i> ,	4.2	2
4	A Universal Strategy for Constructing Robust and Antifouling Cellulose Nanocrystal Coating. <i>Advanced Functional Materials</i> , 2109989	15.6	7
3	Near-Infrared Laser Weldable Hydrogen-Bonded Hydrogel Sensor Based on Photothermal Gel/Sol Transition. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	1
2	Boosting heterogeneous Fenton reactions for degrading organic dyes via the photothermal effect under neutral conditions. <i>Environmental Science: Nano</i> ,	7.1	3
1	Nanoconfining Cation- π Interactions as a Modular Strategy to Construct Injectable Self-Healing Hydrogel. <i>CCS Chemistry</i> , 1-45	7.2	11