

Yuan Yao

List of Publications by Year in descending order

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104
papers

2,201
citations

236612

25
h-index

276539

41
g-index

105
all docs

105
docs citations

105
times ranked

3000
citing authors

#	ARTICLE	IF	CITATIONS
1	Optically Active Chiral CuO "Nanoflowers", Journal of the American Chemical Society, 2014, 136, 7193-7196.	6.6	126
2	Biological Material Interfaces as Inspiration for Mechanical and Optical Material Designs. Chemical Reviews, 2019, 119, 12279-12336.	23.0	121
3	Micro-structural characterization of the hydration products of bauxite-calcination-method red mud-coal gangue based cementitious materials. Journal of Hazardous Materials, 2013, 262, 428-438.	6.5	87
4	Improvement on pozzolanic reactivity of coal gangue by integrated thermal and chemical activation. Fuel, 2013, 109, 527-533.	3.4	86
5	Tailored multifunctional micellar brushes via crystallization-driven growth from a surface. Science, 2019, 366, 1095-1098.	6.0	84
6	Optically Active Nanostructured ZnO Films. Angewandte Chemie - International Edition, 2015, 54, 15170-15175.	7.2	82
7	A novel silica alumina-based backfill material composed of coal refuse and fly ash. Journal of Hazardous Materials, 2012, 213-214, 71-82.	6.5	76
8	Self-Assembled Injectable Nanocomposite Hydrogels Coordinated by in Situ Generated CaP Nanoparticles for Bone Regeneration. ACS Applied Materials & Interfaces, 2019, 11, 17234-17246.	4.0	73
9	Light-Driven Shape-Memory Porous Films with Precisely Controlled Dimensions. Angewandte Chemie - International Edition, 2018, 57, 2139-2143.	7.2	61
10	Light-Driven Transformation of Bio-Inspired Superhydrophobic Structure via Reconfigurable PAzoMA Microarrays: From Lotus Leaf to Rice Leaf. Macromolecules, 2018, 51, 2742-2749.	2.2	58
11	Interconversion of Triply Periodic Constant Mean Curvature Surface Structures: From Double Diamond to Single Gyroid. Chemistry of Materials, 2016, 28, 3691-3702.	3.2	46
12	Polypeptide Modification of Multiwalled Carbon Nanotubes by a Graft-From Approach. Macromolecular Rapid Communications, 2006, 27, 2019-2025.	2.0	45
13	Novel Morphology of Calcium Carbonate Controlled by Poly(L-lysine). Langmuir, 2009, 25, 13238-13243.	1.6	45
14	Synthesis and Characterization of Macroporous Photonic Structure that Consists of Azimuthally Shifted Double-Diamond Silica Frameworks. Chemistry of Materials, 2014, 26, 7020-7028.	3.2	44
15	Growth of Mesoporous Silica Film with Vertical Channels on Substrate Using Gemini Surfactants. Chemistry of Materials, 2011, 23, 3583-3586.	3.2	41
16	Characterization on a cementitious material composed of red mud and coal industry byproducts. Construction and Building Materials, 2013, 47, 496-501.	3.2	40
17	Stimulation of cell responses and bone ingrowth into macro-microporous implants of nano-bioglass/polyetheretherketone composite and enhanced antibacterial activity by release of hinokitiol. Colloids and Surfaces B: Biointerfaces, 2018, 164, 347-357.	2.5	40
18	Deterministic Reshaping of Breath Figure Arrays by Directional Photomanipulation. ACS Applied Materials & Interfaces, 2017, 9, 4223-4230.	4.0	38

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19	Smart Amphiphilic Random Copolymer-Coated Sponge with pH-Switchable Wettability for On-Demand Oil/Water Separation. <i>Langmuir</i> , 2019, 35, 14473-14480.	1.6	36
20	Photomanipulated Architecture and Patterning of Azopolymer Array. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19345-19353.	4.0	34
21	Electrospinning of PVA/sericin nanofiber and the effect on epithelial-mesenchymal transition of A549 cells. <i>Materials Science and Engineering C</i> , 2017, 79, 436-444.	3.8	32
22	Template-Assisted Self-Assembly: Alignment, Placement, and Arrangement of Two-Dimensional Mesostructured DNA-Silica Platelets. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14186-14190.	7.2	31
23	Facile Preparation of Novel Peptosomes through Complex Self-Assembly of Hyperbranched Polyester and Polypeptide. <i>Langmuir</i> , 2009, 25, 6622-6626.	1.6	27
24	Bioinspired Synthesis of Calcium Carbonate Hollow Spheres with a Nacre-Type Laminated Microstructure. <i>Langmuir</i> , 2011, 27, 366-370.	1.6	27
25	Constructing High Performance Hydrogels with Strong Underwater Adhesion through a Mussel Foot-Rock-Inspired Strategy. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2883-2889.	2.0	26
26	Nanostructured switchable pH-responsive membranes prepared via spherical polyelectrolyte brushes. <i>Journal of Membrane Science</i> , 2019, 580, 117-124.	4.1	26
27	Self-assembly and multi-stimuli responsive behavior of PAA-b-PAzoMA-b-PNIPAM triblock copolymers. <i>Polymer Chemistry</i> , 2017, 8, 7529-7536.	1.9	25
28	Surface modification of epoxy resin by polyether-polydimethylsiloxanes-polyether triblock copolymers. <i>Polymer</i> , 2001, 42, 1763-1766.	1.8	24
29	Novel thermosetting resin with a very high glass-transition temperature based on bismaleimide and allylated Novolac. <i>Journal of Applied Polymer Science</i> , 2005, 97, 443-448.	1.3	24
30	Human lung epithelial cells A549 epithelial-mesenchymal transition induced by PVA/Collagen nanofiber. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 390-397.	2.5	24
31	The synthesis, self-assembly and pH-responsive fluorescence enhancement of an alternating amphiphilic copolymer with azobenzene pendants. <i>Polymer Chemistry</i> , 2019, 10, 4025-4030.	1.9	23
32	Phase-transfer of porphyrins by polypeptide-containing hyperbranched polymers and a novel iron(iii) porphyrin biomimetic catalyst. <i>Chemical Communications</i> , 2009, , 4732.	2.2	21
33	A dumbbell-like supramolecular triblock copolymer and its self-assembly of light-responsive vesicles. <i>RSC Advances</i> , 2015, 5, 47762-47765.	1.7	19
34	Mainchain Alternating Azopolymers with Fast Photo-Induced Reversible Transition Behavior. <i>Macromolecules</i> , 2021, 54, 10040-10048.	2.2	19
35	Rigid bolaform surfactant templated mesoporous silicon nanofibers as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19855-19860.	5.2	18
36	Growth of Optically Active Chiral Inorganic Films through DNA Self-Assembly and Silica Mineralisation. <i>Scientific Reports</i> , 2014, 4, 4866.	1.6	18

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37	Extracellular nanofiber-orchestrated cytoskeletal reorganization and mediated directional migration of cancer cells. <i>Nanoscale</i> , 2020, 12, 3183-3193.	2.8	18
38	Helical Self-Assembly of Amphiphilic Chiral Azobenzene Alternating Copolymers. <i>ACS Macro Letters</i> , 2021, 10, 1174-1179.	2.3	18
39	Rationally designed hyperbranched azopolymer with temperature, photo and pH responsive behavior. <i>Polymer Chemistry</i> , 2018, 9, 2977-2983.	1.9	17
40	Thermal activation on calcium silicate slag from high-alumina fly ash: a technical report. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 667-672.	2.1	16
41	Trisulfonation approach: To improve the properties of poly(arylene thioether phosphine oxide)s based proton exchange membranes. <i>Journal of Membrane Science</i> , 2016, 508, 32-39.	4.1	16
42	Ultrastretchable, Tough, and Notch-Insensitive Hydrogels Formed with Spherical Polymer Brush Crosslinker. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700455.	2.0	16
43	Ordered Surface Nanostructures Self-Assembled from Rod-Coil Block Copolymers on Microspheres. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6375-6381.	2.1	16
44	The amphiphilic multiarm copolymers based on hyperbranched polyester and lysine: Synthesis and self-assembly. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 241-250.	2.0	15
45	Development and Challenges on Mining Backfill Technology. <i>Journal of Materials Science Research</i> , 2012, 1, .	0.1	15
46	Control of Chiral Nanostructures by Self-Assembly of Designed Amphiphilic Peptides and Silica Biomineralization. <i>Chemistry - A European Journal</i> , 2014, 20, 17068-17076.	1.7	15
47	Nanoporosity improved water absorption, in vitro degradability, mineralization, osteoblast responses and drug release of poly(butylene succinate)-based composite scaffolds containing nanoporous magnesium silicate compared with magnesium silicate. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 3637-3651.	3.3	15
48	Light-Driven Shape-Memory Porous Films with Precisely Controlled Dimensions. <i>Angewandte Chemie</i> , 2018, 130, 2161-2165.	1.6	14
49	Selective Adsorption and Separation of Organic Dyes with Spherical Polyelectrolyte Brushes and Compressed Carbon Dioxide. <i>Chemistry - A European Journal</i> , 2017, 23, 13696-13703.	1.7	13
50	Anchorage-Dependent Living Supramolecular Self-Assembly of Polymeric Micelles. <i>Journal of the American Chemical Society</i> , 2021, 143, 14684-14693.	6.6	13
51	Natural Silk Spinning-Inspired Meso-Assembly-Processing Engineering Strategy for Fabricating Soft Tissue-Mimicking Biomaterials. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	13
52	Performance and energy calculation on a green cementitious material composed of coal refuse. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 281-290.	2.1	12
53	Electrospun nanofiber regulates assembly of keratin and vimentin intermediate filaments of PANC-1 pancreatic carcinoma cells. <i>Materials Science and Engineering C</i> , 2019, 96, 616-624.	3.8	12
54	Pillararene-based supramolecular membranes with the rose-petal effect and nanostructure-modulated tunable water adhesion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10917-10924.	5.2	12

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55	Light-Induced Reversible Hierarchical Self-Assembly of Amphiphilic Diblock Copolymers into Microscopic Vesicles with Tunable Optical and Nanocarrier Properties. <i>ACS Macro Letters</i> , 2021, 10, 525-530.	2.3	12
56	Durability and leaching analysis of a cementitious material composed of high volume coal combustion byproducts. <i>Construction and Building Materials</i> , 2012, 36, 97-103.	3.2	11
57	Characterization of a new silica alumina-based backfill material utilizing large quantities of coal combustion byproducts. <i>Fuel</i> , 2012, 97, 329-336.	3.4	11
58	2-Thiophene ethylamine modified hyaluronic acid with its application on hepatocytes culture. <i>Materials Science and Engineering C</i> , 2018, 88, 157-165.	3.8	11
59	Self-Assembly of Helices to Form Rare Two-Dimensional Square $<i>P</i><i>4</i><i>mm</i></i> Symmetry via Silica Mineralization. Chemistry - A European Journal, 2013, 19, 15489-15492.$	1.7	10
60	Cellular architecture response to aspect ratio tunable nanoarrays. <i>Nanoscale</i> , 2020, 12, 12395-12404.	2.8	10
61	Nanofiber Alignment Mediates the Pattern of Single Cell Migration. <i>Langmuir</i> , 2020, 36, 2129-2135.	1.6	10
62	Anti-corrosion performance and microstructure analysis on a marine concrete utilizing coal combustion byproducts and blast furnace slag. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 545-554.	2.1	9
63	Design of Amphiphilic Peptide Geometry towards Biomimetic Self-Assembly of Chiral Mesoporous Silica. <i>Chemistry - A European Journal</i> , 2014, 20, 3273-3276.	1.7	9
64	Tuning the morphology of amphiphilic copolymer aggregates by compound emulsifier via emulsion solvent evaporation. <i>Journal of Saudi Chemical Society</i> , 2018, 22, 297-305.	2.4	9
65	High-performance poly(acrylic acid) hydrogels formed with a block copolymer crosslinker containing amino-acid derivatives. <i>Soft Matter</i> , 2019, 15, 7381-7389.	1.2	9
66	A high strain, adhesive, self-healable poly(acrylic acid) hydrogel with temperature sensitivity as an epidermal sensor. <i>Materials Advances</i> , 2020, 1, 329-333.	2.6	9
67	Biointerface anisotropy modulates migration of breast cancer cell. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110973.	2.5	9
68	Biointerface mediates cytoskeletal rearrangement of pancreatic cancer cell and modulates its drug sensitivity. <i>Colloids and Interface Science Communications</i> , 2020, 35, 100250.	2.0	9
69	Controllable synthesis of silica hollow spheres by vesicle templating of silicone surfactants. <i>Journal of Materials Science</i> , 2013, 48, 1890-1898.	1.7	8
70	Internalization Characterization of Si Nanorod with Camouflaged Cell Membrane Proteins Reveals ATXN2 as a Negative Regulator. <i>Cells</i> , 2019, 8, 931.	1.8	8
71	A Cuboid Spider Silk: Structure-Function Relationship and Polypeptide Signature. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900583.	2.0	8
72	Silicone surfactant templating for mesoporous silica@carbon complex. <i>Microporous and Mesoporous Materials</i> , 2013, 174, 62-66.	2.2	7

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73	A DEM-based residual kriging model for estimating groundwater levels within a large-scale domain: a study for the Fuyang River Basin. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 687-698.	2.1	7
74	Functional group-template integrated ABC copolymer silicone surfactant directing for highly hydrophobic mesoporous silica. <i>Journal of Materials Chemistry</i> , 2012, 22, 19076.	6.7	6
75	Silicone surfactant templated mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2013, 172, 30-35.	2.2	6
76	Blended films containing polybutyrolactam and chitosan for potential wound dressing applications. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46511.	1.3	6
77	Bioinspired Conical Micropattern Modulates Cell Behaviors. <i>ACS Applied Bio Materials</i> , 2018, 1, 1416-1423.	2.3	6
78	2D Chiral Stripe Nanopatterns Self-Assembled from Rod-Coil Block Copolymers on Microstripes. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000349.	2.0	6
79	Mussel inspired durable pH-responsive mesh for high-efficient oil/water separation. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	6
80	Characterization of a protein tyrosine phosphatase gene CvBV202 from <i>Cotesia vestalis</i> polydnavirus (CvBV). <i>Virus Genes</i> , 2008, 36, 595-601.	0.7	5
81	Amphiphilic ABC triblock terpolymer templated large-pore mesoporous silicas. <i>Materials Letters</i> , 2015, 141, 176-179.	1.3	5
82	Vertical nanopillar induces deformation of cancer cell and alteration of ATF3 expression. <i>Applied Materials Today</i> , 2020, 20, 100753.	2.3	5
83	Self-assembly of rod-coil block copolymers on a substrate into micrometer-scale ordered stripe nanopatterns. <i>Polymer Chemistry</i> , 2020, 11, 7487-7496.	1.9	5
84	Biomimetic Design for Bio-Matrix Interfaces and Regenerative Organs. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 411-429.	2.5	5
85	Hyperbranched Azopolymer with Quadruple Responsibility. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1169-1176.	2.0	5
86	Selective Adsorption and Separation of Organic Dyes by Poly(acrylic acid) Hydrogels Formed with Spherical Polymer Brushes and Chitosan. <i>Australian Journal of Chemistry</i> , 2018, 71, 846.	0.5	5
87	Molecular design of the amphiphilic AB diblock copolymer toward one-step synthesis of amino-group functionalized large pore mesoporous silica. <i>RSC Advances</i> , 2014, 4, 43047-43051.	1.7	4
88	Hierarchical multi-lamellar silica vesicle clusters synthesized through self-assembly and mineralization. <i>RSC Advances</i> , 2015, 5, 102256-102260.	1.7	4
89	Directional Photo-manipulation of Self-assembly Patterned Microstructures. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 297-305.	2.0	4
90	Nanoparticle Capture by Spherical Polyelectrolyte Brushes and Its Grading Separation Assisted by Compressed CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8886-8895.	1.8	4

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91	Adaptive ordering and filament polymerization of cell cytoskeleton by tunable nanoarrays. <i>Nano Research</i> , 2021, 14, 620-627.	5.8	4
92	Synthesis and Self-Assembly of Alternating Amphiphilic Copolymer with Azobenzene Pendants. <i>Chinese Journal of Organic Chemistry</i> , 2019, 39, 2952.	0.6	4
93	Performance and Microanalysis of Cement Asphalt Mortar With Admixture of Coal Fly Ash. <i>Journal of Materials Science Research</i> , 2012, 1, .	0.1	3
94	ABC copolymer silicone surfactant templating for biomimetic silicification. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 93-99.	5.0	3
95	Bioinspired polypeptide as building blocks for multifunctional material design. <i>Applied Materials Today</i> , 2020, 20, 100683.	2.3	3
96	Amphiphilic ABC triblock terpolymer templating for mesoporous silica. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 863-867.	1.3	2
97	Improvements on Pozzolanic Reactivity of Coal Refuse by Thermal Activation. <i>Environment and Pollution</i> , 2012, 1, .	0.2	1
98	Performance and leaching analysis of a novel coal sludge-based backfill material. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 657-666.	2.1	1
99	Time-Dependent Investigation of Surface Nanostructures of Weak-Phase-Separated Block Copolymer Films. <i>Langmuir</i> , 2015, 31, 9026-9032.	1.6	1
100	Nanofibers with tailored degree of directional orientation regulate cell movement. <i>Materials Today Communications</i> , 2020, 25, 101496.	0.9	1
101	Light, Strong, and Ductile Architectures Achieved by Silk Fiber "Welding" Processing. <i>ACS Omega</i> , 2020, 5, 11955-11961.	1.6	1
102	A Biomimetic Glue Protein Modulates Hepatic Gene Expression. <i>Macromolecular Bioscience</i> , 2021, 21, 2000303.	2.1	1
103	Polymerization-Induced Self-Assembly of P4VP-b-PBzMA Copolymer in Ethanol. <i>Chinese Journal of Organic Chemistry</i> , 2017, 37, 2119.	0.6	0
104	Study of Charge-Conjugated Self-Assembly Behavior of Amphiphilic Block Copolypeptides/Helicene. <i>Chinese Journal of Organic Chemistry</i> , 2019, 39, 2973.	0.6	0