Yuan Yao

List of Publications by Year
in descending order

104	2,201	236612	276539
papers	citations	25 h-index	41 g-index

105	105	105	3000
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Natural Silk Spinningâ€Inspired Mesoâ€Assemblyâ€Processing Engineering Strategy for Fabricating Soft Tissueâ€Mimicking Biomaterials. Advanced Functional Materials, 2022, 32, .	7.8	13
2	Biomimetic Design for Bio-Matrix Interfaces and Regenerative Organs. Tissue Engineering - Part B: Reviews, 2021, 27, 411-429.	2.5	5
3	Adaptive ordering and filament polymerization of cell cytoskeleton by tunable nanoarrays. Nano Research, 2021, 14, 620-627.	5.8	4
4	Light-Induced Reversible Hierarchical Self-Assembly of Amphiphilic Diblock Copolymers into Microscopic Vesicles with Tunable Optical and Nanocarrier Properties. ACS Macro Letters, 2021, 10, 525-530.	2.3	12
5	Hyperbranched Azopolymer with Quadruple Responsibility. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1169-1176.	2.0	5
6	Anchorage-Dependent Living Supramolecular Self-Assembly of Polymeric Micelles. Journal of the American Chemical Society, 2021, 143, 14684-14693.	6.6	13
7	Helical Self-Assembly of Amphiphilic Chiral Azobenzene Alternating Copolymers. ACS Macro Letters, 2021, 10, 1174-1179.	2.3	18
8	A Biomimetic Glue Protein Modulates Hepatic Gene Expression. Macromolecular Bioscience, 2021, 21, 2000303.	2.1	1
9	Mainchain Alternating Azopolymers with Fast Photo-Induced Reversible Transition Behavior. Macromolecules, 2021, 54, 10040-10048.	2.2	19
10	Vertical nanopillar induces deformation of cancer cell and alteration of ATF3 expression. Applied Materials Today, 2020, 20, 100753.	2.3	5
11	Nanofibers with tailored degree of directional orientation regulate cell movement. Materials Today Communications, 2020, 25, 101496.	0.9	1
12	Self-assembly of rod-coil block copolymers on a substrate into micrometer-scale ordered stripe nanopatterns. Polymer Chemistry, 2020, 11, 7487-7496.	1.9	5
13	2D Chiral Stripe Nanopatterns Selfâ€Assembled from Rodâ€Coil Block Copolymers on Microstripes. Macromolecular Rapid Communications, 2020, 41, e2000349.	2.0	6
14	Mussel inspired durable pH-responsive mesh for high-efficient oil/water separation. SN Applied Sciences, 2020, 2, 1.	1.5	6
15	Light, Strong, and Ductile Architectures Achieved by Silk Fiber â€œWeldingâ€•Processing. ACS Omega, 2020, 5, 11955-11961.	1.6	1
16	Cellular architecture response to aspect ratio tunable nanoarrays. Nanoscale, 2020, 12, 12395-12404.	2.8	10
17	A high strain, adhesive, self-healable poly(acrylic acid) hydrogel with temperature sensitivity as an epidermal sensor. Materials Advances, 2020, 1, 329-333.	2.6	9
18	Pillararene-based supramolecular membranes with the rose-petal effect and nanostructure-modulated tunable water adhesion. Journal of Materials Chemistry A, 2020, 8, 10917-10924.	5.2	12

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19	Bioinspired polypeptide as building blocks for multifunctional material design. Applied Materials Today, 2020, 20, 100683.	2.3	3
20	Biointerface anisotropy modulates migration of breast cancer cell. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110973.	2.5	9
21	Nanofiber Alignment Mediates the Pattern of Single Cell Migration. Langmuir, 2020, 36, 2129-2135.	1.6	10
22	Extracellular nanofiber-orchestrated cytoskeletal reorganization and mediated directional migration of cancer cells. Nanoscale, 2020, 12, 3183-3193.	2.8	18
23	A Cuboid Spider Silk: Structureâ€“Function Relationship and Polypeptide Signature. Macromolecular Rapid Communications, 2020, 41, e1900583.	2.0	8
24	Biointerface mediates cytoskeletal rearrangement of pancreatic cancer cell and modulates its drug sensitivity. Colloids and Interface Science Communications, 2020, 35, 100250.	2.0	9
25	Internalization Characterization of Si Nanorod with Camouflaged Cell Membrane Proteins Reveals ATXN2 as a Negative Regulator. Cells, 2019, 8, 931.	1.8	8
26	High-performance poly(acrylic acid) hydrogels formed with a block copolymer crosslinker containing amino-acid derivatives. Soft Matter, 2019, 15, 7381-7389.	1.2	9
27	Smart Amphiphilic Random Copolymer-Coated Sponge with pH-Switchable Wettability for On-Demand Oil/Water Separation. Langmuir, 2019, 35, 14473-14480.	1.6	36
28	Constructing High Performance Hydrogels with Strong Underwater Adhesion through a â€œMussel Feet-Rockâ€•Inspired Strategy. ACS Applied Polymer Materials, 2019, 1, 2883-2889.	2.0	26
29	Ordered Surface Nanostructures Self-Assembled from Rodâ€“Coil Block Copolymers on Microspheres. Journal of Physical Chemistry Letters, 2019, 10, 6375-6381.	2.1	16
30	The synthesis, self-assembly and pH-responsive fluorescence enhancement of an alternating amphiphilic copolymer with azobenzene pendants. Polymer Chemistry, 2019, 10, 4025-4030.	1.9	23
31	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
32	Nanoparticle Capture by Spherical Polyelectrolyte Brushes and Its Grading Separation Assisted by Compressed CO₂. Industrial & Engineering Chemistry Research, 2019, 58, 8886-8895.	1.8	4
33	Nanostructured switchable pH-responsive membranes prepared via spherical polyelectrolyte brushes. Journal of Membrane Science, 2019, 580, 117-124.	4.1	26
34	Tailored multifunctional micellar brushes via crystallization-driven growth from a surface. Science, 2019, 366, 1095-1098.	6.0	84
35	Biological Material Interfaces as Inspiration for Mechanical and Optical Material Designs. Chemical Reviews, 2019, 119, 12279-12336.	23.0	121
36	Electrospun nanofiber regulates assembly of keratin and vimentin intermediate filaments of PANC-1 pancreatic carcinoma cells. Materials Science and Engineering C, 2019, 96, 616-624.	3.8	12

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37	Synthesis and Self-Assembly of Alternating Amphiphilic Copolymer with Azobenzene Pendants. Chinese Journal of Organic Chemistry, 2019, 39, 2952.	0.6	4
38	Study of Charge-Conjugated Self-Assembly Behavior of Amphiphilic Block Copolypeptides/Helicene. Chinese Journal of Organic Chemistry, 2019, 39, 2973.	0.6	0
39	Blended films containing polybutyrolactam and chitosan for potential wound dressing applications. Journal of Applied Polymer Science, 2018, 135, 46511.	1.3	6
40	2-Thiophene ethylamine modified hyaluronic acid with its application on hepatocytes culture. Materials Science and Engineering C, 2018, 88, 157-165.	3.8	11
41	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
42	Lightâ€Driven Shapeâ€Memory Porous Films with Precisely Controlled Dimensions. Angewandte Chemie, 2018, 130, 2161-2165.	1.6	14
43	Directional Photo-manipulation of Self-assembly Patterned Microstructures. Chinese Journal of Polymer Science (English Edition), 2018, 36, 297-305.	2.0	4
44	Lightâ€Driven Shapeâ€Memory Porous Films with Precisely Controlled Dimensions. Angewandte Chemie - International Edition, 2018, 57, 2139-2143.	7.2	61
45	Rationally designed hyperbranched azopolymer with temperature, photo and pH responsive behavior. Polymer Chemistry, 2018, 9, 2977-2983.	1.9	17
46	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
47	Tuning the morphology of amphiphilic copolymer aggregates by compound emulsifier via emulsionâ€“solvent evaporation. Journal of Saudi Chemical Society, 2018, 22, 297-305.	2.4	9
48	Human lung epithelial cells A549 epithelial-mesenchymal transition induced by PVA/Collagen nanofiber. Colloids and Surfaces B: Biointerfaces, 2018, 162, 390-397.	2.5	24
49	Bioinspired Conical Micropattern Modulates Cell Behaviors. ACS Applied Bio Materials, 2018, 1, 1416-1423.	2.3	6
50	Selective Adsorption and Separation of Organic Dyes by Poly(acrylic acid) Hydrogels Formed with Spherical Polymer Brushes and Chitosan. Australian Journal of Chemistry, 2018, 71, 846.	0.5	5
51	Deterministic Reshaping of Breath Figure Arrays by Directional Photomanipulation. ACS Applied Materials & Interfaces, 2017, 9, 4223-4230.	4.0	38
52	Electrospinning of PVA/sericin nanofiber and the effect on epithelial-mesenchymal transition of A549 cells. Materials Science and Engineering C, 2017, 79, 436-444.	3.8	32
53	Photomanipulated Architecture and Patterning of Azopolymer Array. ACS Applied Materials & Interfaces, 2017, 9, 19345-19353.	4.0	34
54	Self-assembly and multi-stimuli responsive behavior of PAA-b-PAzoMA-b-PNIPAM triblock copolymers. Polymer Chemistry, 2017, 8, 7529-7536.	1.9	25

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55	Ultrastretchable, Tough, and Notchâ€Insensitive Hydrogels Formed with Spherical Polymer Brush Crosslinker. Macromolecular Rapid Communications, 2017, 38, 1700455.	2.0	16
56	Selective Adsorption and Separation of Organic Dyes with Spherical Polyelectrolyte Brushes and Compressed Carbon Dioxide. Chemistry - A European Journal, 2017, 23, 13696-13703.	1.7	13
57	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. International Journal of Nanomedicine, 2017, Volume 12, 3637-3651.	3.3	15
58	Polymerization-Induced Self-Assembly of P4VP-b-PBzMA Copolymer in Ethanol. Chinese Journal of Organic Chemistry, 2017, 37, 2119.	0.6	0
59	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
60	Trisulfonation approach: To improve the properties of poly(arylene thioether phosphine oxide)s based proton exchange membranes. Journal of Membrane Science, 2016, 508, 32-39.	4.1	16
61	Optically Active Nanostructured ZnO Films. Angewandte Chemie - International Edition, 2015, 54, 15170-15175.	7.2	82
62	A dumbbell-like supramolecular triblock copolymer and its self-assembly of light-responsive vesicles. RSC Advances, 2015, 5, 47762-47765.	1.7	19
63	Time-Dependent Investigation of Surface Nanostructures of Weak-Phase-Separated Block Copolymer Films. Langmuir, 2015, 31, 9026-9032.	1.6	1
64	Hierarchal multi-lamellar silica vesicle clusters synthesized through self-assembly and mineralization. RSC Advances, 2015, 5, 102256-102260.	1.7	4
65	Amphiphilic ABC triblock terpolymer templated large-pore mesoporous silicas. Materials Letters, 2015, 141, 176-179.	1.3	5
66	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
67	Control of Chiral Nanostructures by Selfâ€Assembly of Designed Amphiphilic Peptides and Silica Biomineralization. Chemistry - A European Journal, 2014, 20, 17068-17076.	1.7	15
68	Rigid bolaform surfactant templated mesoporous silicon nanofibers as anode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 19855-19860.	5.2	18
69	Amphiphilic ABC triblock terpolymer templating for mesoporous silica. Chemical Research in Chinese Universities, 2014, 30, 863-867.	1.3	2
70	Thermal activation on calcium silicate slag from high-alumina fly ash: a technical report. Clean Technologies and Environmental Policy, 2014, 16, 667-672.	2.1	16
71	Anti-corrosion performance and microstructure analysis on a marine concrete utilizing coal combustion byproducts and blast furnace slag. Clean Technologies and Environmental Policy, 2014, 16, 545-554.	2.1	9
72	Design of Amphiphilic Peptide Geometry towards Biomimetic Selfâ€Assembly of Chiral Mesoporous Silica. Chemistry - A European Journal, 2014, 20, 3273-3276.	1.7	9

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73	Molecular design of the amphiphilic AB diblock copolymer toward one-step synthesis of amino-group functionalized large pore mesoporous silica. RSC Advances, 2014, 4, 43047-43051.	1.7	4
74	Performance and energy calculation on a green cementitious material composed of coal refuse. Clean Technologies and Environmental Policy, 2014, 16, 281-290.	2.1	12
75	Optically Active Chiral CuO â€œNanoflowersâ€• Journal of the American Chemical Society, 2014, 136, 7193-7196.	6.6	126
76	Growth of Optically Active Chiral Inorganic Films through DNA Self-Assembly and Silica Mineralisation. Scientific Reports, 2014, 4, 4866.	1.6	18
77	Characterization on a cementitious material composed of red mud and coal industry byproducts. Construction and Building Materials, 2013, 47, 496-501.	3.2	40
78	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
79	Silicone surfactant templated mesoporous silica. Microporous and Mesoporous Materials, 2013, 172, 30-35.	2.2	6
80	Controllable synthesis of silica hollow spheres by vesicle templating of silicone surfactants. Journal of Materials Science, 2013, 48, 1890-1898.	1.7	8
81	Improvement on pozzolanic reactivity of coal gangue by integrated thermal and chemical activation. Fuel, 2013, 109, 527-533.	3.4	86
82	Silicone surfactant templating for mesoporous silica@carbon complex. Microporous and Mesoporous Materials, 2013, 174, 62-66.	2.2	7
83	Performance and leaching analysis of a novel coal sludge-based backfill material. Clean Technologies and Environmental Policy, 2013, 15, 657-666.	2.1	1
84	A DEM-based residual kriging model for estimating groundwater levels within a large-scale domain: a study for the Fuyang River Basin. Clean Technologies and Environmental Policy, 2013, 15, 687-698.	2.1	7
85	Templateâ€Assisted Selfâ€Assembly: Alignment, Placement, and Arrangement of Twoâ€Dimensional Mesostructured DNAâ€“Silica Platelets. Angewandte Chemie - International Edition, 2013, 52, 14186-14190.	7.2	31
86	Selfâ€Assembly of Î±â€Helices to Form Rare Twoâ€Dimensional Square P4mm Symmetry via Silica Mineralization. Chemistry - A European Journal, 2013, 19, 15489-15492.	1.7	10
87	Functional group-template integrated ABC copolymer silicone surfactant directing for highly hydrophobic mesoporous silica. Journal of Materials Chemistry, 2012, 22, 19076.	6.7	6
88	Durability and leaching analysis of a cementitious material composed of high volume coal combustion byproducts. Construction and Building Materials, 2012, 36, 97-103.	3.2	11
89	Development and Challenges on Mining Backfill Technology. Journal of Materials Science Research, 2012, 1, .	0.1	15
90	Performance and Microanalysis of Cement Asphalt Mortar With Admixture of Coal Fly Ash. Journal of Materials Science Research, 2012, 1, .	0.1	3

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91	Improvements on Pozzolanic Reactivity of Coal Refuse by Thermal Activation. Environment and Pollution, 2012, 1, .	0.2	1
92	Characterization of a new silica alumina-based backfill material utilizing large quantities of coal combustion byproducts. Fuel, 2012, 97, 329-336.	3.4	11
93	ABC copolymer silicone surfactant templating for biomimetic silicification. Journal of Colloid and Interface Science, 2012, 378, 93-99.	5.0	3
94	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
95	Growth of Mesoporous Silica Film with Vertical Channels on Substrate Using Gemini Surfactants. Chemistry of Materials, 2011, 23, 3583-3586.	3.2	41
96	Bioinspired Synthesis of Calcium Carbonate Hollow Spheres with a Nacre-Type Laminated Microstructure. Langmuir, 2011, 27, 366-370.	1.6	27
97	The amphiphilic multiarm copolymers based on hyperbranched polyester and lysine: Synthesis and self-assembly. Chinese Journal of Polymer Science (English Edition), 2011, 29, 241-250.	2.0	15
98	Facile Preparation of Novel Peptosomes through Complex Self-Assembly of Hyperbranched Polyester and Polypeptide. Langmuir, 2009, 25, 6622-6626.	1.6	27
99	Novel Morphology of Calcium Carbonate Controlled by Poly(<scp>l</scp>-lysine). Langmuir, 2009, 25, 13238-13243.	1.6	45
100	Phase-transfer of porphyrins by polypeptide-containing hyperbranched polymers and a novel iron(iii) porphyrin biomimetic catalyst. Chemical Communications, 2009, , 4732.	2.2	21
101	Characterization of a protein tyrosine phosphatase gene CvBV202 from Cotesia vestalis polydnavirus (CvBV). Virus Genes, 2008, 36, 595-601.	0.7	5
102	Polypeptide Modification of Multiwalled Carbon Nanotubes by a Graft-From Approach. Macromolecular Rapid Communications, 2006, 27, 2019-2025.	2.0	45
103	Novel thermosetting resin with a very high glass-transition temperature based on bismaleimide and allylated Novolac. Journal of Applied Polymer Science, 2005, 97, 443-448.	1.3	24
104	Surface modification of epoxy resin by polyetherâ€“polydimethylsiloxanesâ€“polyether triblock copolymers. Polymer, 2001, 42, 1763-1766.	1.8	24