

Yi Cao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1240021/publications.pdf>

Version: 2024-02-01

191
papers

8,008
citations

53660

45
h-index

62479

80
g-index

196
all docs

196
docs citations

196
times ranked

10105
citing authors

#	ARTICLE	IF	CITATIONS
1	Generative Steganography Based on Long Readable Text Generation. IEEE Transactions on Computational Social Systems, 2024, , 1-11.	3.2	9
2	Stretchable and self-healable hydrogel artificial skin. National Science Review, 2022, 9, .	4.6	40
3	Guest Molecule-Mediated Energy Harvesting in a Conformationally Sensitive Peptide-Metal Organic Framework. Journal of the American Chemical Society, 2022, 144, 3468-3476.	6.6	49
4	A low-swelling and toughened adhesive hydrogel with anti-microbial and hemostatic capacities for wound healing. Journal of Materials Chemistry B, 2022, 10, 915-926.	2.9	36
5	Self-sorting double network hydrogels with photo-definable biochemical cues as artificial synthetic extracellular matrix. Nano Research, 2022, 15, 4294-4301.	5.8	11
6	Peptide Coassembly to Enhance Piezoelectricity for Energy Harvesting. ACS Applied Materials & Interfaces, 2022, 14, 6538-6546.	4.0	22
7	Modulating vectored non-covalent interactions for layered assembly with engineerable properties. Bio-Design and Manufacturing, 2022, 5, 529-539.	3.9	6
8	Co-Assembly Induced Solid-State Stacking Transformation in Amino Acid-Based Crystals with Enhanced Physical Properties. Angewandte Chemie - International Edition, 2022, 61, .	7.2	23
9	Tuning Strain Stiffening of Protein Hydrogels by Charge Modification. International Journal of Molecular Sciences, 2022, 23, 3032.	1.8	5
10	Co-Assembly Induced Solid-State Stacking Transformation in Amino Acid-Based Crystals with Enhanced Physical Properties. Angewandte Chemie, 2022, 134, .	1.6	3
11	Defects in a liver-bone axis contribute to hepatic osteodystrophy disease progression. Cell Metabolism, 2022, 34, 441-457.e7.	7.2	34
12	The Development of Chiral Nanoparticles to Target NK Cells and CD8 ⁺ T Cells for Cancer Immunotherapy. Advanced Materials, 2022, 34, e2109354.	11.1	41
13	Biophysical Approaches for Applying and Measuring Biological Forces. Advanced Science, 2022, 9, e2105254.	5.6	15
14	Strong and Reversible Covalent Double Network Hydrogel Based on Force-Coupled Enzymatic Reactions. Angewandte Chemie - International Edition, 2022, 61, .	7.2	20
15	Engineering Reversible Hydrogels for 3D Cell Culture and Release Using Diselenide Catalyzed Fast Disulfide Formation. Chinese Journal of Chemistry, 2022, 40, 1578-1584.	2.6	15
16	Strong and Reversible Covalent Double Network Hydrogel Based on Force-Coupled Enzymatic Reactions. Angewandte Chemie, 2022, 134, .	1.6	1
17	Concentrated Coverage Path Planning Algorithm of UAV Formation for Aerial Photography. IEEE Sensors Journal, 2022, 22, 11098-11111.	2.4	20
18	Short Peptides Derived from a Block Copolymer-like Barnacle Cement Protein Self-Assembled into Diverse Supramolecular Structures. Biomacromolecules, 2022, 23, 2019-2030.	2.6	4

#	ARTICLE	IF	CITATIONS
19	Superstretchable, yet stiff, fatigue-resistant ligament-like elastomers. <i>Nature Communications</i> , 2022, 13, 2279.	5.8	35
20	Engineering Photocleavable Protein-decorated Hydrogels to Regulate Cell Adhesion and Migration. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 1512-1517.	1.3	2
21	Mechanochemical Lithography. <i>Journal of the American Chemical Society</i> , 2022, 144, 9949-9958.	6.6	8
22	Inorganic nanomaterial-reinforced hydrogel membrane as an artificial periosteum. <i>Applied Materials Today</i> , 2022, 28, 101532.	2.3	7
23	Effects of biowaste-derived biochar on the electron transport efficiency during anaerobic acid orange 7 removal. <i>Bioresource Technology</i> , 2021, 320, 124295.	4.8	34
24	Living materials fabricated via gradient mineralization of light-inducible biofilms. <i>Nature Chemical Biology</i> , 2021, 17, 351-359.	3.9	85
25	Antifouling hydrogel-coated magnetic nanoparticles for selective isolation and recovery of circulating tumor cells. <i>Journal of Materials Chemistry B</i> , 2021, 9, 677-682.	2.9	18
26	Redox-triggered aggregation of ESIONPs with switchable T_1 to T_2 contrast effect for T_2 -weighted magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1821-1832.	2.9	13
27	Spray-Painted Hydrogel Coating for Marine Antifouling. <i>Advanced Materials Technologies</i> , 2021, 6, 2000911.	3.0	49
28	Understanding and Regulating Cell-Matrix Interactions Using Hydrogels of Designable Mechanical Properties. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 149-168.	0.5	4
29	NIR-laser-triggered gadolinium-doped carbon dots for magnetic resonance imaging, drug delivery and combined photothermal chemotherapy for triple negative breast cancer. <i>Journal of Nanobiotechnology</i> , 2021, 19, 64.	4.2	46
30	Robotic in situ 3D bio-printing technology for repairing large segmental bone defects. <i>Journal of Advanced Research</i> , 2021, 30, 75-84.	4.4	40
31	Spinodal Decomposition-Driven Endurable Resistive Switching in Perovskite Oxides. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31001-31009.	4.0	3
32	Control Viscoelasticity of Polymer Networks with Crosslinks of Superposed Fast and Slow Dynamics. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22332-22338.	7.2	28
33	Control Viscoelasticity of Polymer Networks with Crosslinks of Superposed Fast and Slow Dynamics. <i>Angewandte Chemie</i> , 2021, 133, 22506-22512.	1.6	4
34	Astral hydrogels mimic tissue mechanics by aster-aster interpenetration. <i>Nature Communications</i> , 2021, 12, 4277.	5.8	6
35	Hydrogels for Large-Scale Expansion of Stem Cells. <i>Acta Biomaterialia</i> , 2021, 128, 1-20.	4.1	36
36	Atomic mapping of periodic dipole waves in ferroelectric oxide. <i>Science Advances</i> , 2021, 7, .	4.7	27

#	ARTICLE	IF	CITATIONS
37	Regulating Mechanical Properties of Polymer Networks with Crosslinks of Superposed Fast and Slow Dynamics (Angew. Chem. 41/2021). Angewandte Chemie, 2021, 133, 22768-22768.	1.6	0
38	An ester bond underlies the mechanical strength of a pathogen surface protein. Nature Communications, 2021, 12, 5082.	5.8	20
39	Regulating Mechanical Properties of Polymer-Supramolecular Double-Network Hydrogel by Supramolecular Self-Assembling Structures. Chinese Journal of Chemistry, 2021, 39, 2711-2717.	2.6	21
40	Engineering hydrogels with homogeneous mechanical properties for controlling stem cell lineage specification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	28
41	Activatable peptide-based nanoprobe for multimodal imaging in vivo. Nano Express, 2021, 2, 041001.	1.2	2
42	Engineering Photoresponsive Ligand Tethers for Mechanical Regulation of Stem Cells. Advanced Materials, 2021, 33, e2105765.	11.1	27
43	In Situ Forming Cellulose Nanofibril-Reinforced Hyaluronic Acid Hydrogel for Cartilage Regeneration. Biomacromolecules, 2021, 22, 5097-5107.	2.6	22
44	Injectable thioketal-containing hydrogel dressing accelerates skin wound healing with the incorporation of reactive oxygen species scavenging and growth factor release. Biomaterials Science, 2021, 10, 100-113.	2.6	27
45	Regulating the Homogeneity of Thiol-Maleimide Michael-Type Addition-Based Hydrogels Using Amino Biomolecules. Gels, 2021, 7, 206.	2.1	7
46	Slide-Ring Structure-Based Double-Network Hydrogel with Enhanced Stretchability and Toughness for 3D-Bio-Printing and Its Potential Application as Artificial Small-Diameter Blood Vessels. ACS Applied Bio Materials, 2021, 4, 8597-8606.	2.3	20
47	Hydrogel tapes for fault-tolerant strong wet adhesion. Nature Communications, 2021, 12, 7156.	5.8	122
48	Accelerated charge transfer in water-layered peptide assemblies. Energy and Environmental Science, 2020, 13, 96-101.	15.6	39
49	Dual-Stimuli-Responsive Multifunctional Gd ₂ Hf ₂ O ₇ Nanoparticles for MRI-Guided Combined Chemo-/Photothermal-/Radiotherapy of Resistant Tumors. ACS Applied Materials & Interfaces, 2020, 12, 35928-35939.	4.0	37
50	Hidden Intermediate State and Second Pathway Determining Folding and Unfolding Dynamics of GB1 Protein at Low Forces. Physical Review Letters, 2020, 125, 198101.	2.9	24
51	Synergistic regulation of longitudinal and transverse relaxivity of extremely small iron oxide nanoparticles (ESIONPs) using pH-responsive nanoassemblies. Nanoscale, 2020, 12, 17502-17516.	2.8	15
52	Molecular design principles of Lysine-DOPA wet adhesion. Nature Communications, 2020, 11, 3895.	5.8	83
53	Tunable Mechanical and Optoelectronic Properties of Organic Cocrystals by Unexpected Stacking Transformation from H- to J- and X-Aggregation. ACS Nano, 2020, 14, 10704-10715.	7.3	61
54	Stretchable hydrogels with low hysteresis and anti-fatigue fracture based on polyprotein cross-linkers. Nature Communications, 2020, 11, 4032.	5.8	129

#	ARTICLE	IF	CITATIONS
55	Structure and sequence features of mussel adhesive protein lead to its salt-tolerant adhesion ability. <i>Science Advances</i> , 2020, 6, .	4.7	47
56	Bioinspired Suprahelical Frameworks as Scaffolds for Artificial Photosynthesis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45192-45201.	4.0	7
57	Smart Adhesive Peptide Nanofibers for Cell Capture and Release. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6800-6807.	2.6	6
58	Tumor Microenvironment-Responsive and Catalytic Cascade-Enhanced Nanocomposite for Tumor Thermal Ablation Synergizing with Chemodynamic and Chemotherapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 3880-3893.	2.3	15
59	Thickness Dependence of Oxygen Vacancy Ordering in Strained LaCoO ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12492-12501.	1.5	10
60	Extremely Small Iron Oxide Nanoparticle-Encapsulated Nanogels as a Glutathione-Responsive T ₁ Contrast Agent for Tumor-Targeted Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26973-26981.	4.0	47
61	Fabrication of an injectable BMSC-laden double network hydrogel based on silk fibroin/PEG for cartilage repair. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5845-5848.	2.9	24
62	Fabrication of injectable hydrogels via bio-orthogonal chemistry for tissue engineering. <i>New Journal of Chemistry</i> , 2020, 44, 11420-11432.	1.4	11
63	Self-Assembled Quadruplex-Inspired Peptide Nucleic Acid Tetramer for Artificial Photosynthesis. <i>ChemPhotoChem</i> , 2020, 4, 5154-5158.	1.5	2
64	100th Anniversary of Macromolecular Science Viewpoint: Synthetic Protein Hydrogels. <i>ACS Macro Letters</i> , 2020, 9, 512-524.	2.3	58
65	Strong and Injectable Hydrogels Based on Multivalent Metal Ion-Peptide Cross-linking. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 962-969.	1.3	6
66	3D Bioprinting of Bone Marrow Mesenchymal Stem Cell-Laden Silk Fibroin Double Network Scaffolds for Cartilage Tissue Repair. <i>Bioconjugate Chemistry</i> , 2020, 31, 1938-1947.	1.8	59
67	Self-Assembly of Aromatic Amino Acid Enantiomers into Supramolecular Materials of High Rigidity. <i>ACS Nano</i> , 2020, 14, 1694-1706.	7.3	86
68	Biofabrication of a biomimetic supramolecular-polymer double network hydrogel for cartilage regeneration. <i>Materials and Design</i> , 2020, 189, 108492.	3.3	44
69	Hydrogels With Tunable Mechanical Properties Based on Photocleavable Proteins. <i>Frontiers in Chemistry</i> , 2020, 8, 7.	1.8	34
70	An injectable BMSC-laden enzyme-catalyzed crosslinking collagen-hyaluronic acid hydrogel for cartilage repair and regeneration. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4237-4244.	2.9	50
71	Molecular engineering of metal coordination interactions for strong, tough, and fast-recovery hydrogels. <i>Science Advances</i> , 2020, 6, eaaz9531.	4.7	111
72	Diphenylalanine-Derivative Peptide Assemblies with Increased Aromaticity Exhibit Metal-like Rigidity and High Piezoelectricity. <i>ACS Nano</i> , 2020, 14, 7025-7037.	7.3	59

#	ARTICLE	IF	CITATIONS
73	Editorial: Synthesis of Novel Hydrogels With Unique Mechanical Properties. <i>Frontiers in Chemistry</i> , 2020, 8, 595392.	1.8	2
74	Tumor Acid Microenvironment-Triggered Self-Assembly of ESIONPs for T ₁ /T ₂ Switchable Magnetic Resonance Imaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 7752-7761.	2.3	17
75	A versatile platform for single-molecule enzymology of restriction endonuclease. <i>Journal of Innovative Optical Health Sciences</i> , 2019, 12, 1841002.	0.5	1
76	Distinct Binding Interactions of $\alpha 5 \beta 1$ -Integrin and Proteoglycans with Fibronectin. <i>Biophysical Journal</i> , 2019, 117, 688-695.	0.2	14
77	Engineered Recombinant Proteins for Aqueous Ultrasonic Exfoliation and Dispersion of Biofunctionalized 2D Materials. <i>Chemistry - A European Journal</i> , 2019, 25, 7957-7957.	1.7	0
78	Bioinspired Ice Growth Inhibitors Based on Self-Assembling Peptides. <i>ACS Macro Letters</i> , 2019, 8, 1383-1390.	2.3	27
79	Synthetic asters as elastic and radial skeletons. <i>Nature Communications</i> , 2019, 10, 4954.	5.8	3
80	A meeting to celebrate the centennial birthday of Yuan-Cheng Fung: the father of modern biomechanics and foreign member of the Chinese Academy of Sciences. <i>National Science Review</i> , 2019, 6, 1100-1101.	4.6	0
81	An Injectable Self-Healing Protein Hydrogel with Multiple Dissipation Modes and Tunable Dynamic Response. <i>Biomacromolecules</i> , 2019, 20, 4199-4207.	2.6	23
82	Direct Measurement of Length Scale Dependence of the Hydrophobic Free Energy of a Single Collapsed Polymer Nanosphere. <i>Physical Review Letters</i> , 2019, 122, 047801.	2.9	21
83	Bioinspired Stable and Photoluminescent Assemblies for Power Generation. <i>Advanced Materials</i> , 2019, 31, e1807481.	11.1	82
84	Cutting Edge: Transcription Factor BCL6 Is Required for the Generation, but Not Maintenance, of Memory CD8 ⁺ T Cells in Acute Viral Infection. <i>Journal of Immunology</i> , 2019, 203, 323-327.	0.4	24
85	A Highly Stretchable, Tough, Fast Self-Healing Hydrogel Based on Peptide-Metal Ion Coordination. <i>Biomimetics</i> , 2019, 4, 36.	1.5	44
86	Non-covalent assembled laccase-graphene composite: Property, stability and performance in beta-blocker removal. <i>Environmental Pollution</i> , 2019, 252, 907-916.	3.7	13
87	Tuning of the dynamics of metal ion crosslinked hydrogels by network structures. <i>Soft Matter</i> , 2019, 15, 4423-4427.	1.2	14
88	Stable and optoelectronic dipeptide assemblies for power harvesting. <i>Materials Today</i> , 2019, 30, 10-16.	8.3	62
89	Recruitment of Brd3 and Brd4 to acetylated chromatin is essential for proinflammatory cytokine-induced matrix-degrading enzyme expression. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 59.	0.9	10
90	Rigid helical-like assemblies from a self-aggregating tripeptide. <i>Nature Materials</i> , 2019, 18, 503-509.	13.3	133

#	ARTICLE	IF	CITATIONS
91	Engineered Recombinant Proteins for Aqueous Ultrasonic Exfoliation and Dispersion of Biofunctionalized 2D Materials. <i>Chemistry - A European Journal</i> , 2019, 25, 7991-7997.	1.7	6
92	A folic acid modified polystyrene nanosphere surface for circulating tumor cell capture. <i>Analytical Methods</i> , 2019, 11, 5718-5723.	1.3	6
93	Mechanically rigid supramolecular assemblies formed from an Fmoc-guanine conjugated peptide nucleic acid. <i>Nature Communications</i> , 2019, 10, 5256.	5.8	24
94	Rigid Tightly Packed Amino Acid Crystals as Functional Supramolecular Materials. <i>ACS Nano</i> , 2019, 13, 14477-14485.	7.3	48
95	The molecular mechanisms underlying mussel adhesion. <i>Nanoscale Advances</i> , 2019, 1, 4246-4257.	2.2	57
96	Strong dual-crosslinked hydrogels for ultrasound-triggered drug delivery. <i>Nano Research</i> , 2019, 12, 115-119.	5.8	54
97	Principles Governing Catalytic Activity of Self-Assembled Short Peptides. <i>Journal of the American Chemical Society</i> , 2019, 141, 223-231.	6.6	47
98	Development of an Aptamer-Conjugated Polyrotaxane-Based Biodegradable Magnetic Resonance Contrast Agent for Tumor-Targeted Imaging. <i>ACS Applied Bio Materials</i> , 2019, 2, 406-416.	2.3	14
99	Injectable hydrogels from enzyme-catalyzed crosslinking as BMSCs-laden scaffold for bone repair and regeneration. <i>Materials Science and Engineering C</i> , 2019, 96, 841-849.	3.8	45
100	Maleimide-thiol adducts stabilized through stretching. <i>Nature Chemistry</i> , 2019, 11, 310-319.	6.6	154
101	Single-Molecule Force Spectroscopy Reveals Self-Assembly Enhanced Surface Binding of Hydrophobins. <i>Chemistry - A European Journal</i> , 2018, 24, 9224-9228.	1.7	16
102	Atomistic simulation of the coupled adsorption and unfolding of protein GB1 on the polystyrenes nanoparticle surface. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	2.0	9
103	Rationally designed synthetic protein hydrogels with predictable mechanical properties. <i>Nature Communications</i> , 2018, 9, 620.	5.8	145
104	The Physical Chemistry for the Self-assembly of Peptide Hydrogels. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 366-378.	2.0	27
105	Correction: A pH responsive AIE probe for enzyme assays. <i>Analyst, The</i> , 2018, 143, 784-784.	1.7	4
106	A pH responsive AIE probe for enzyme assays. <i>Analyst, The</i> , 2018, 143, 741-746.	1.7	19
107	Reversible hydrogels with tunable mechanical properties for optically controlling cell migration. <i>Nano Research</i> , 2018, 11, 5556-5565.	5.8	91
108	Facile Synthesis of Water-Dispersed Photoluminescent Gold(I)-Alkanethiolate Nanoparticles via Aggregation-Induced Emission and Their Application in Cell Imaging. <i>ACS Applied Nano Materials</i> , 2018, 1, 6641-6648.	2.4	7

#	ARTICLE	IF	CITATIONS
109	Injectable dynamic covalent hydrogels of boronic acid polymers cross-linked by bioactive plant-derived polyphenols. <i>Biomaterials Science</i> , 2018, 6, 2487-2495.	2.6	72
110	Biodegradable Nanoglobular Magnetic Resonance Imaging Contrast Agent Constructed with Host-Guest Self-Assembly for Tumor-Targeted Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26906-26916.	4.0	21
111	Geometrical Confinement of Gadolinium Oxide Nanoparticles in Poly(ethylene) Terephthalate Nanofibers for Magnetic Resonance Imaging Contrast Agent. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26099-26107.	4.0	24
112	Self-Assembled Nanofibers for Strong Underwater Adhesion: The Trick of Barnacles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25017-25025.	4.0	40
113	Bi-directional regulation of cartilage metabolism by inhibiting BET proteins: analysis of the effect of I-BET151 on human chondrocytes and murine joints. <i>Journal of Orthopaedic Surgery and Research</i> , 2018, 13, 118.	0.9	7
114	Aptamer-Targeted Magnetic Resonance Imaging Contrast Agents and Their Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3759-3774.	0.9	9
115	Gadolinium(III)-based Polymeric Magnetic Resonance Imaging Agents for Tumor Imaging. <i>Current Medicinal Chemistry</i> , 2018, 25, 2910-2937.	1.2	7
116	Single-Molecule Force Spectroscopy Reveals Multiple Binding Modes between DOPA and Different Rutile Surfaces. <i>ChemPhysChem</i> , 2017, 18, 1466-1469.	1.0	29
117	AMPK deficiency in chondrocytes accelerated the progression of instability-induced and ageing-associated osteoarthritis in adult mice. <i>Scientific Reports</i> , 2017, 7, 43245.	1.6	72
118	Spatiotemporal Control of Supramolecular Self-Assembly and Function. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10012-10018.	4.0	51
119	Semi-degradable porous poly (vinyl alcohol) hydrogel scaffold for cartilage repair: Evaluation of the initial and cell-cultured tribological properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 68, 163-172.	1.5	29
120	Dimerization of Cell-Adhesion Molecules Can Increase Their Binding Strength. <i>Langmuir</i> , 2017, 33, 1398-1404.	1.6	3
121	Single-Molecule Mechanics of Catechol-Iron Coordination Bonds. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 979-989.	2.6	67
122	Multiporous Supramolecular Microspheres for Artificial Photosynthesis. <i>Chemistry of Materials</i> , 2017, 29, 4454-4460.	3.2	32
123	Mg ²⁺ -Dependent High Mechanical Anisotropy of Three-Way Junction pRNA as Revealed by Single-Molecule Force Spectroscopy. <i>Angewandte Chemie</i> , 2017, 129, 9504-9508.	1.6	4
124	Mg ²⁺ -Dependent High Mechanical Anisotropy of Three-Way Junction pRNA as Revealed by Single-Molecule Force Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9376-9380.	7.2	20
125	PEGylated chitosan grafted with polyamidoamine-dendron as tumor-targeted magnetic resonance imaging contrast agent. <i>New Journal of Chemistry</i> , 2017, 41, 7689-7696.	1.4	8
126	Gadolinium-based nanoscale MRI contrast agents for tumor imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3431-3461.	2.9	92

#	ARTICLE	IF	CITATIONS
127	Lipid-dependent conformational dynamics underlie the functional versatility of T-cell receptor. <i>Cell Research</i> , 2017, 27, 505-525.	5.7	38
128	Multifunctional Nanofibers for Specific Purification and Release of CTCs. <i>ACS Sensors</i> , 2017, 2, 547-552.	4.0	40
129	Design and Synthesis of a Dimethylindole Red Trimer: A New Light-Emitting Fluorescent Probe for G-Quadruplexes. <i>ChemistrySelect</i> , 2017, 2, 2783-2788.	0.7	6
130	Hydrophobic IR-780 Dye Encapsulated in cRGD-Conjugated Solid Lipid Nanoparticles for NIR Imaging-Guided Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12217-12226.	4.0	132
131	Hyperbranched poly(glycerol) as a T ₁ contrast agent for tumor-targeted magnetic resonance imaging in vivo. <i>Polymer Chemistry</i> , 2017, 8, 1104-1113.	1.9	19
132	Gd ₂ O ₃ and GH combined with red blood cells to improve the sensitivity of contrast agents for cancer targeting MR imaging. <i>Biomaterials Science</i> , 2017, 5, 46-49.	2.6	9
133	A poly(μ -caprolactone)- <i>b</i> -poly(glycerol)- <i>b</i> -poly(μ -caprolactone) triblock copolymer for designing a polymeric micelle as a tumor targeted magnetic resonance imaging contrast agent. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8408-8416.	2.9	11
134	Hidden complexity of synergistic roles of Dopa and lysine for strong wet adhesion. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2664-2668.	3.2	37
135	Directional mechanical stability of Bacteriophage ϕ 29 motor's 3WJ-pRNA: Extraordinary robustness along portal axis. <i>Science Advances</i> , 2017, 3, e1601684.	4.7	17
136	Printable Fluorescent Hydrogels Based on Self-Assembling Peptides. <i>Scientific Reports</i> , 2017, 7, 9691.	1.6	49
137	Promoting electron transfer to enhance anaerobic treatment of azo dye wastewater with adding Fe(OH) ₃ . <i>Bioresource Technology</i> , 2017, 245, 138-144.	4.8	33
138	Single Molecule Study of Force-Induced Rotation of Carbon-Carbon Double Bonds in Polymers. <i>ACS Nano</i> , 2017, 11, 194-203.	7.3	34
139	A fumigaclavine C isostere alleviates Th1-mediated experimental colitis via competing with IFN- γ for binding to IFN- γ receptor 1. <i>Biochemical Pharmacology</i> , 2017, 123, 63-72.	2.0	6
140	Poly(glycerol) Used for Constructing Mixed Polymeric Micelles as T ₁ MRI Contrast Agent for Tumor-Targeted Imaging. <i>Biomacromolecules</i> , 2017, 18, 150-158.	2.6	33
141	Multi-arm star-branched polymer as an efficient contrast agent for tumor-targeted magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5001-5008.	2.9	6
142	Single molecule force spectroscopy study of calcium regulated mechanical unfolding of the A6 domain of adseverin. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017, 66, 196201.	0.2	1
143	Oligoethylenimine-grafted chitosan as enhanced T ₁ contrast agent for in vivo targeted tumor MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 23-29.	1.9	6
144	Functional Hyperbranched Polylysine as Potential Contrast Agent Probes for Magnetic Resonance Imaging. <i>Biomacromolecules</i> , 2016, 17, 2302-2308.	2.6	25

#	ARTICLE	IF	CITATIONS
145	Oligoethylenimine grafted PEGylated poly(aspartic acid) as a macromolecular contrast agent: properties and in vivo studies. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3324-3330.	2.9	10
146	A highly stretchable autonomous self-healing elastomer. <i>Nature Chemistry</i> , 2016, 8, 618-624.	6.6	1,133
147	Preparation of linear poly(glycerol) as a T ₁ contrast agent for tumor-targeted magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6716-6725.	2.9	14
148	A Highly Stretchable and Autonomous Self-Healing Polymer Based on Combination of Pt- π -Pt and π - π Interactions. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1667-1675.	2.0	199
149	Near-Infrared Light-Driven Photoelectrochemical Aptasensor Based on the Upconversion Nanoparticles and TiO ₂ /CdTe Heterostructure for Detection of Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25834-25839.	4.0	82
150	Electrically Controllable Actuators Based on Supramolecular Peptide Hydrogels. <i>Advanced Functional Materials</i> , 2016, 26, 9053-9062.	7.8	102
151	Neutral red as a specific light-up fluorescent probe for i-motif DNA. <i>Chemical Communications</i> , 2016, 52, 14330-14333.	2.2	26
152	A label-free and portable graphene FET aptasensor for children blood lead detection. <i>Scientific Reports</i> , 2016, 6, 21711.	1.6	88
153	Polymer-Supramolecular Polymer Double-Network Hydrogel. <i>Advanced Functional Materials</i> , 2016, 26, 9044-9052.	7.8	106
154	Bioleavable Oligolysine-Grafted Poly(disulfide amine)s as Magnetic Resonance Imaging Probes. <i>Bioconjugate Chemistry</i> , 2016, 27, 151-158.	1.8	6
155	Synthesis and photoluminescence modulating of polypyrrole fluorescent nano-spheres/dots. <i>RSC Advances</i> , 2016, 6, 23737-23745.	1.7	17
156	Facile access to B-doped solid-state fluorescent carbon dots toward light emitting devices and cell imaging agents. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6668-6675.	2.7	109
157	Size-controllable polypyrrole nanospheres synthesized in the presence of phosphorylated chitosan and their size effect in different applications. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	2
158	Hierarchical Composites to Reduce N-Nitrosamines in Cigarette Smoke. <i>Materials</i> , 2015, 8, 1325-1340.	1.3	6
159	Aptamer-Modified Temperature-Sensitive Liposomal Contrast Agent for Magnetic Resonance Imaging. <i>Biomacromolecules</i> , 2015, 16, 2618-2623.	2.6	45
160	The transcription factor TCF-1 initiates the differentiation of TFH cells during acute viral infection. <i>Nature Immunology</i> , 2015, 16, 991-999.	7.0	200
161	New insights into the structure of a CeO ₂ -ZrO ₂ -Al ₂ O ₃ composite and its influence on the performance of the supported Pd-only three-way catalyst. <i>Catalysis Science and Technology</i> , 2015, 5, 4488-4500.	2.1	51
162	Preparation of ceria-zirconia by modified coprecipitation method and its supported Pd-only three-way catalyst. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 404-416.	5.0	65

#	ARTICLE	IF	CITATIONS
163	Preparation, characterization and application of polyaniline/epoxide polysiloxane composite films. Chinese Journal of Polymer Science (English Edition), 2015, 33, 732-742.	2.0	8
164	A photocatalysis system based on composite nanostructures of controlable peptide nanotubes and graphene. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 098702.	0.2	1
165	Single-molecule force spectroscopy reveals force-enhanced binding of calcium ions by gelsolin. Nature Communications, 2014, 5, 4623.	5.8	36
166	An integrated artificial photosynthesis system based on peptide nanotubes. Nanoscale, 2014, 6, 7832-7837.	2.8	20
167	Compressive properties and creep resistance of a novel, porous, semidegradable poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj 5 Polymer Science, 2014, 131, .	1.3	7
168	Genetically encoded red fluorescent copper(I) sensors for cellular copper(I) imaging. Biochemical and Biophysical Research Communications, 2014, 443, 894-898.	1.0	10
169	P/N/O co-doped carbonaceous material based supercapacitor with voltage up to 1.9 V in aqueous electrolyte. RSC Advances, 2014, 4, 55971-55979.	1.7	21
170	Single Molecule Evidence for the Adaptive Binding of DOPA to Different Wet Surfaces. Langmuir, 2014, 30, 4358-4366.	1.6	116
171	Designing the mechanical properties of peptide-based supramolecular hydrogels for biomedical applications. Science China: Physics, Mechanics and Astronomy, 2014, 57, 849-858.	2.0	36
172	Two approaches for the engineering of homogeneous small-molecule hydrogels. Soft Matter, 2013, 9, 4672.	1.2	45
173	A Single-Molecule View on the Disassembly of Tobacco Mosaic Virus. Biophysical Journal, 2013, 105, 2615-2616.	0.2	1
174	Photo-Cross-Linking Approach to Engineering Small Tyrosine-Containing Peptide Hydrogels with Enhanced Mechanical Stability. Langmuir, 2013, 29, 13299-13306.	1.6	82
175	A genetically encoded copper(i) sensor based on engineered structural distortion of EGFP. Chemical Communications, 2012, 48, 3890.	2.2	33
176	Formation of α -helix-based twisted ribbon-like fibrils from ionic-complementary peptides. Chemical Communications, 2011, 47, 7413.	2.2	9
177	Mechanics of Proteins and Tailored Mechanics of Engineered Proteins. , 2011, , 47-82.		0
178	New Attempt to Reduce the Harm of Smoking: Reducing the Nitrosamines Level in Tobacco Smoke by Microwave Irradiation. Clean - Soil, Air, Water, 2009, 37, 31-38.	0.7	6
179	A Force- ϵ Spectroscopy-Based Single-Molecule Metal- ϵ Binding Assay. ChemPhysChem, 2009, 10, 1450-1454.	1.0	15
180	Isolation and characterization of a mitogen-activated protein kinase gene in the halotolerant alga Dunaliella salina. Journal of Applied Phycology, 2008, 20, 13-17.	1.5	13

#	ARTICLE	IF	CITATIONS
181	Engineered elastomeric proteins with dual elasticity can be controlled by a molecular regulator. Nature Nanotechnology, 2008, 3, 512-516.	15.6	68
182	Engineering tandem modular protein based reversible hydrogels. Chemical Communications, 2008, , 4144.	2.2	44
183	Capturing Volatile Nitrosamines in Gas Stream by Zeolites: Why and How. Journal of Physical Chemistry C, 2007, 111, 4347-4357.	1.5	50
184	Polyprotein of GB1 is an ideal artificial elastomeric protein. Nature Materials, 2007, 6, 109-114.	13.3	227
185	Fabrication of photoluminescent ZnO/SBA-15 through directly dispersing zinc nitrate into the as-prepared mesoporous silica occluded with template. Journal of Materials Chemistry, 2006, 16, 1536.	6.7	168
186	Solvent-free surface functionalized SBA-15 as a versatile trap of nitrosamines. Journal of Materials Chemistry, 2006, 16, 1520.	6.7	43
187	Nonmechanical Protein Can Have Significant Mechanical Stability. Angewandte Chemie - International Edition, 2006, 45, 642-645.	7.2	104
188	Novel Amorphous Functional Materials for Trapping Nitrosamines. Environmental Science & Technology, 2005, 39, 7254-7259.	4.6	26
189	Removal of volatile nitrosamines with copper modified zeolites Preliminary communication: see ref. 42.. New Journal of Chemistry, 2004, 28, 244.	1.4	45
190	Allostery and molecular stripping mechanism in profilin regulated actin filament growth. New Journal of Physics, 0, , .	1.2	1
191	Reconfigurable Crosslinking System via Asymmetric Metal-Ligand Coordination Strategy. Polymer Chemistry, 0, , .	1.9	0