Yi Cao

List of Publications by Year in Descending Order

173 papers	4,945 citations	36 h-index	64 g-index
196 ext. papers	6,433 ext. citations	8.6 avg, IF	5.94 L-index

#	Paper	IF	Citations
173	Defects in a liver-bone axis contribute to hepatic osteodystrophy disease progression.. *Cell Metabolism*, **2022**, 34, 441-457.e7	24.6	4
172	The development of chiral nanoparticles to target NK cells and CD8 T cells for cancer immunotherapy.. *Advanced Materials*, **2022**, e2109354	24	4
171	Concentrated Coverage Path Planning Algorithm of UAV Formation for Aerial Photography. *IEEE Sensors Journal*, **2022**, 1-1	4	1
170	Superstretchable, yet stiff, fatigue-resistant ligament-like elastomers.. *Nature Communications*, **2022**, 13, 2279	17.4	4
169	Generative Steganography Based on Long Readable Text Generation. *IEEE Transactions on Computational Social Systems*, **2022**, 1-11	4.5	0
168	Inorganic nanomaterial-reinforced hydrogel membrane as an artificial periosteum. *Applied Materials Today*, **2022**, 28, 101532	6.6	0
167	Hydrogel tapes for fault-tolerant strong wet adhesion. *Nature Communications*, **2021**, 12, 7156	17.4	19
166	Injectable thioketal-containing hydrogel dressing accelerates skin wound healing with the incorporation of reactive oxygen species scavenging and growth factor release. *Biomaterials Science*, **2021**,	7.4	4
165	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	4.1	5
164	NIR-laser-triggered gadolinium-doped carbon dots for magnetic resonance imaging, drug delivery and combined photothermal chemotherapy for triple negative breast cancer. *Journal of Nanobiotechnology*, **2021**, 19, 64	9.4	8
163	Robotic 3D bio-printing technology for repairing large segmental bone defects. *Journal of Advanced Research*, **2021**, 30, 75-84	13	9
162	Spinodal Decomposition-Driven Endurable Resistive Switching in Perovskite Oxides. *ACS Applied Materials & Interfaces*, **2021**, 13, 31001-31009	9.5	1
161	Control Viscoelasticity of Polymer Networks with Crosslinks of Superposed Fast and Slow Dynamics. *Angewandte Chemie - International Edition*, **2021**, 60, 22332-22338	16.4	10
160	Control Viscoelasticity of Polymer Networks with Crosslinks of Superposed Fast and Slow Dynamics. *Angewandte Chemie*, **2021**, 133, 22506-22512	3.6	1
159	Astral hydrogels mimic tissue mechanics by aster-aster interpenetration. *Nature Communications*, **2021**, 12, 4277	17.4	3
158	Hydrogels for Large-Scale Expansion of Stem Cells. *Acta Biomaterialia*, **2021**, 128, 1-20	10.8	7
157	Effects of biowaste-derived biochar on the electron transport efficiency during anaerobic acid orange 7 removal. *Bioresource Technology*, **2021**, 320, 124295	11	12

156	Living materials fabricated via gradient mineralization of light-inducible biofilms. *Nature Chemical Biology*, **2021**, 17, 351-359	11.7	34
155	Antifouling hydrogel-coated magnetic nanoparticles for selective isolation and recovery of circulating tumor cells. *Journal of Materials Chemistry B*, **2021**, 9, 677-682	7.3	5
154	Redox-triggered aggregation of ESIONPs with switchable to contrast effect for -weighted magnetic resonance imaging. *Journal of Materials Chemistry B*, **2021**, 9, 1821-1832	7.3	1
153	Spray-Painted Hydrogel Coating for Marine Antifouling. *Advanced Materials Technologies*, **2021**, 6, 2000918	6.8	14
152	Understanding and Regulating Cell-Matrix Interactions Using Hydrogels of Designable Mechanical Properties. *Journal of Biomedical Nanotechnology*, **2021**, 17, 149-168	4	0
151	Atomic mapping of periodic dipole waves in ferroelectric oxide. *Science Advances*, **2021**, 7,	14.3	7
150	R□ktitelbild: Control Viscoelasticity of Polymer Networks with Crosslinks of Superposed Fast and Slow Dynamics (Angew. Chem. 41/2021). *Angewandte Chemie*, **2021**, 133, 22768-22768	3.6	
149	An ester bond underlies the mechanical strength of a pathogen surface protein. *Nature Communications*, **2021**, 12, 5082	17.4	7
148	Regulating Mechanical Properties of Polymer-Supramolecular Double-Network Hydrogel by Supramolecular Self-assembling Structures. *Chinese Journal of Chemistry*, **2021**, 39, 2711-2717	4.9	6
147	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,	11.5	6
146	Engineering Photoresponsive Ligand Tethers for Mechanical Regulation of Stem Cells. *Advanced Materials*, **2021**, 33, e2105765	24	8
145	Biophysical Approaches for Applying and Measuring Biological Forces.. *Advanced Science*, **2021**, e2105254	13.6	3
144	Smart Adhesive Peptide Nanofibers for Cell Capture and Release. *ACS Biomaterials Science and Engineering*, **2020**, 6, 6800-6807	5.5	4
143	Tumor Microenvironment-Responsive and Catalytic Cascade-Enhanced Nanocomposite for Tumor Thermal Ablation Synergizing with Chemodynamic and Chemotherapy.. *ACS Applied Bio Materials*, **2020**, 3, 3880-3893	4.1	9
142	Thickness Dependence of Oxygen Vacancy Ordering in Strained $LaCoO_{3-\delta}$ Thin Films. *Journal of Physical Chemistry C*, **2020**, 124, 12492-12501	3.8	5
141	Extremely Small Iron Oxide Nanoparticle-Encapsulated Nanogels as a Glutathione-Responsive T Contrast Agent for Tumor-Targeted Magnetic Resonance Imaging. *ACS Applied Materials & Interfaces*, **2020**, 12, 26973-26981	9.5	24
140	Fabrication of an injectable BMSC-laden double network hydrogel based on silk fibroin/PEG for cartilage repair. *Journal of Materials Chemistry B*, **2020**, 8, 5845-5848	7.3	12
139	Fabrication of injectable hydrogels via bio-orthogonal chemistry for tissue engineering. *New Journal of Chemistry*, **2020**, 44, 11420-11432	3.6	6

138	Self-Assembled Quadruplex-Inspired Peptide Nucleic Acid Tetramer for Artificial Photosynthesis. *ChemPhotoChem*, **2020**, 4, 5154-5158	3.3	1
137	100th Anniversary of Macromolecular Science Viewpoint: Synthetic Protein Hydrogels. *ACS Macro Letters*, **2020**, 9, 512-524	6.6	23
136	Strong and Injectable Hydrogels Based on Multivalent Metal Ion-Peptide Cross-linking. *Chemical Research in Chinese Universities*, **2020**, 36, 962-969	2.2	3
135	3D Bioprinting of Bone Marrow Mesenchymal Stem Cell-Laden Silk Fibroin Double Network Scaffolds for Cartilage Tissue Repair. *Bioconjugate Chemistry*, **2020**, 31, 1938-1947	6.3	24
134	Self-Assembly of Aromatic Amino Acid Enantiomers into Supramolecular Materials of High Rigidity. *ACS Nano*, **2020**, 14, 1694-1706	16.7	34
133	Biofabrication of a biomimetic supramolecular-polymer double network hydrogel for cartilage regeneration. *Materials and Design*, **2020**, 189, 108492	8.1	23
132	Hydrogels With Tunable Mechanical Properties Based on Photocleavable Proteins. *Frontiers in Chemistry*, **2020**, 8, 7	5	17
131	An injectable BMSC-laden enzyme-catalyzed crosslinking collagen-hyaluronic acid hydrogel for cartilage repair and regeneration. *Journal of Materials Chemistry B*, **2020**, 8, 4237-4244	7.3	16
130	Tumor Acid Microenvironment-Triggered Self-Assembly of ESIONPs for T/T Switchable Magnetic Resonance Imaging.. *ACS Applied Bio Materials*, **2020**, 3, 7752-7761	4.1	5
129	Diphenylalanine-Derivative Peptide Assemblies with Increased Aromaticity Exhibit Metal-like Rigidity and High Piezoelectricity. *ACS Nano*, **2020**, 14, 7025-7037	16.7	18
128	Accelerated charge transfer in water-layered peptide assemblies. *Energy and Environmental Science*, **2020**, 13, 96-101	35.4	21
127	Dual-Stimuli-Responsive Multifunctional GdHfO Nanoparticles for MRI-Guided Combined Chemo-/Photothermal-/Radiotherapy of Resistant Tumors. *ACS Applied Materials & Interfaces*, **2020**, 12, 35928-35939	9.5	16
126	Hidden Intermediate State and Second Pathway Determining Folding and Unfolding Dynamics of GB1 Protein at Low Forces. *Physical Review Letters*, **2020**, 125, 198101	7.4	8
125	Synergistic regulation of longitudinal and transverse relaxivity of extremely small iron oxide nanoparticles (ESIONPs) using pH-responsive nanoassemblies. *Nanoscale*, **2020**, 12, 17502-17516	7.7	5
124	Molecular design principles of Lysine-DOPA wet adhesion. *Nature Communications*, **2020**, 11, 3895	17.4	39
123	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	16.7	18
122	Stretchable hydrogels with low hysteresis and anti-fatigue fracture based on polyprotein cross-linkers. *Nature Communications*, **2020**, 11, 4032	17.4	50
121	Structure and sequence features of mussel adhesive protein lead to its salt-tolerant adhesion ability. *Science Advances*, **2020**, 6,	14.3	17

120	Bioinspired Suprahelical Frameworks as Scaffolds for Artificial Photosynthesis. *ACS Applied Materials & Interfaces*, **2020**, 12, 45192-45201	9.5	2
119	Molecular engineering of metal coordination interactions for strong, tough, and fast-recovery hydrogels. *Science Advances*, **2020**, 6, eaaz9531	14.3	41
118	An Injectable Self-Healing Protein Hydrogel with Multiple Dissipation Modes and Tunable Dynamic Response. *Biomacromolecules*, **2019**, 20, 4199-4207	6.9	14
117	Direct Measurement of Length Scale Dependence of the Hydrophobic Free Energy of a Single Collapsed Polymer Nanosphere. *Physical Review Letters*, **2019**, 122, 047801	7.4	7
116	Bioinspired Stable and Photoluminescent Assemblies for Power Generation. *Advanced Materials*, **2019**, 31, e1807481	24	41
115	Cutting Edge: Transcription Factor BCL6 Is Required for the Generation, but Not Maintenance, of Memory CD8 T Cells in Acute Viral Infection. *Journal of Immunology*, **2019**, 203, 323-327	5.3	14
114	A Highly Stretchable, Tough, Fast Self-Healing Hydrogel Based on Peptide?Metal Ion Coordination. *Biomimetics*, **2019**, 4,	3.7	23
113	Non-covalent assembled laccase-graphene composite: Property, stability and performance in beta-blocker removal. *Environmental Pollution*, **2019**, 252, 907-916	9.3	9
112	Tuning of the dynamics of metal ion crosslinked hydrogels by network structures. *Soft Matter*, **2019**, 15, 4423-4427	3.6	9
111	Stable and optoelectronic dipeptide assemblies for power harvesting. *Materials Today*, **2019**, 30, 10-16	21.8	35
110	Recruitment of Brd3 and Brd4 to acetylated chromatin is essential for proinflammatory cytokine-induced matrix-degrading enzyme expression. *Journal of Orthopaedic Surgery and Research*, **2019**, 14, 59	2.8	5
109	Rigid helical-like assemblies from a self-aggregating tripeptide. *Nature Materials*, **2019**, 18, 503-509	27	80
108	Engineered Recombinant Proteins for Aqueous Ultrasonic Exfoliation and Dispersion of Biofunctionalized 2D Materials. *Chemistry - A European Journal*, **2019**, 25, 7991-7997	4.8	5
107	A versatile platform for single-molecule enzymology of restriction endonuclease. *Journal of Innovative Optical Health Sciences*, **2019**, 12, 1841002	1.2	1
106	Distinct Binding Interactions of β1ntegrin and Proteoglycans with Fibronectin. *Biophysical Journal*, **2019**, 117, 688-695	2.9	8
105	Engineered Recombinant Proteins for Aqueous Ultrasonic Exfoliation and Dispersion of Biofunctionalized 2D Materials. *Chemistry - A European Journal*, **2019**, 25, 7957-7957	4.8	
104	Bioinspired Ice Growth Inhibitors Based on Self-Assembling Peptides. *ACS Macro Letters*, **2019**, 8, 1383-1390	6.96	11
103	Synthetic asters as elastic and radial skeletons. *Nature Communications*, **2019**, 10, 4954	17.4	2

102	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. *National Science Review*, **2019**, 6, 1100-1101	10.8	
101	Maleimide-thiol adducts stabilized through stretching. *Nature Chemistry*, **2019**, 11, 310-319	17.6	90
100	A folic acid modified polystyrene nanosphere surface for circulating tumor cell capture. *Analytical Methods*, **2019**, 11, 5718-5723	3.2	4
99	Mechanically rigid supramolecular assemblies formed from an Fmoc-guanine conjugated peptide nucleic acid. *Nature Communications*, **2019**, 10, 5256	17.4	9
98	Rigid Tightly Packed Amino Acid Crystals as Functional Supramolecular Materials. *ACS Nano*, **2019**, 13, 14477-14485	16.7	19
97	The molecular mechanisms underlying mussel adhesion. *Nanoscale Advances*, **2019**, 1, 4246-4257	5.1	23
96	Strong dual-crosslinked hydrogels for ultrasound-triggered drug delivery. *Nano Research*, **2019**, 12, 115-119	10	29
95	Principles Governing Catalytic Activity of Self-Assembled Short Peptides. *Journal of the American Chemical Society*, **2019**, 141, 223-231	16.4	22
94	Development of an Aptamer-Conjugated Polyrotaxane-Based Biodegradable Magnetic Resonance Contrast Agent for Tumor-Targeted Imaging.. *ACS Applied Bio Materials*, **2019**, 2, 406-416	4.1	7
93	Injectable hydrogels from enzyme-catalyzed crosslinking as BMSCs-laden scaffold for bone repair and regeneration. *Materials Science and Engineering C*, **2019**, 96, 841-849	8.3	28
92	Single-Molecule Force Spectroscopy Reveals Self-Assembly Enhanced Surface Binding of Hydrophobins. *Chemistry - A European Journal*, **2018**, 24, 9224-9228	4.8	10
91	Atomistic simulation of the coupled adsorption and unfolding of protein GB1 on the polystyrenes nanoparticle surface. *Science China: Physics, Mechanics and Astronomy*, **2018**, 61, 1	3.6	6
90	Rationally designed synthetic protein hydrogels with predictable mechanical properties. *Nature Communications*, **2018**, 9, 620	17.4	94
89	The Physical Chemistry for the Self-assembly of Peptide Hydrogels. *Chinese Journal of Polymer Science (English Edition)*, **2018**, 36, 366-378	3.5	19
88	Correction: A pH responsive AIE probe for enzyme assays. *Analyst, The*, **2018**, 143, 784	5	2
87	A pH responsive AIE probe for enzyme assays. *Analyst, The*, **2018**, 143, 741-746	5	15
86	Injectable dynamic covalent hydrogels of boronic acid polymers cross-linked by bioactive plant-derived polyphenols. *Biomaterials Science*, **2018**, 6, 2487-2495	7.4	50
85	Biodegradable Nanoglobular Magnetic Resonance Imaging Contrast Agent Constructed with Host-Guest Self-Assembly for Tumor-Targeted Imaging. *ACS Applied Materials & Interfaces*, **2018**, 10, 26906-26916	9.5	18

84	Geometrical Confinement of Gadolinium Oxide Nanoparticles in Poly(ethylene glycol)/Arginylglycylaspartic Acid-Modified Mesoporous Carbon Nanospheres as an Enhanced T Magnetic Resonance Imaging Contrast Agent. *ACS Applied Materials & Interfaces*, **2018**, 10, 26099-26107	9.5	17
83	Self-Assembled Nanofibers for Strong Underwater Adhesion: The Trick of Barnacles. *ACS Applied Materials & Interfaces*, **2018**, 10, 25017-25025	9.5	22
82	Bi-directional regulation of cartilage metabolism by inhibiting BET proteins-analysis of the effect of I-BET151 on human chondrocytes and murine joints. *Journal of Orthopaedic Surgery and Research*, **2018**, 13, 118	2.8	4
81	Aptamer-Targeted Magnetic Resonance Imaging Contrast Agents and Their Applications. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 3759-3774	1.3	8
80	Gadolinium(III)-based Polymeric Magnetic Resonance Imaging Agents for Tumor Imaging. *Current Medicinal Chemistry*, **2018**, 25, 2910-2937	4.3	5
79	Reversible hydrogels with tunable mechanical properties for optically controlling cell migration. *Nano Research*, **2018**, 11, 5556-5565	10	59
78	Facile Synthesis of Water-Dispersed Photoluminescent Gold(I)-Alkanethiolate Nanoparticles via Aggregation-Induced Emission and Their Application in Cell Imaging. *ACS Applied Nano Materials*, **2018**, 1, 6641-6648	5.6	5
77	Single-Molecule Force Spectroscopy Reveals Multiple Binding Modes between DOPA and Different Rutile Surfaces. *ChemPhysChem*, **2017**, 18, 1466-1469	3.2	23
76	AMPK deficiency in chondrocytes accelerated the progression of instability-induced and ageing-associated osteoarthritis in adult mice. *Scientific Reports*, **2017**, 7, 43245	4.9	50
75	Spatiotemporal Control of Supramolecular Self-Assembly and Function. *ACS Applied Materials & Interfaces*, **2017**, 9, 10012-10018	9.5	42
74	Semi-degradable porous poly (vinyl alcohol) hydrogel scaffold for cartilage repair: Evaluation of the initial and cell-cultured tribological properties. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 68, 163-172	4.1	27
73	Dimerization of Cell-Adhesion Molecules Can Increase Their Binding Strength. *Langmuir*, **2017**, 33, 1398-1404	4	3
72	Single-Molecule Mechanics of Catechol-Iron Coordination Bonds. *ACS Biomaterials Science and Engineering*, **2017**, 3, 979-989	5.5	49
71	Multiporous Supramolecular Microspheres for Artificial Photosynthesis. *Chemistry of Materials*, **2017**, 29, 4454-4460	9.6	24
70	Mg2+-Dependent High Mechanical Anisotropy of Three-Way-Junction pRNA as Revealed by Single-Molecule Force Spectroscopy. *Angewandte Chemie*, **2017**, 129, 9504-9508	3.6	4
69	Mg -Dependent High Mechanical Anisotropy of Three-Way-Junction pRNA as Revealed by Single-Molecule Force Spectroscopy. *Angewandte Chemie - International Edition*, **2017**, 56, 9376-9380	16.4	17
68	PEGylated chitosan grafted with polyamidoamine-dendron as tumor-targeted magnetic resonance imaging contrast agent. *New Journal of Chemistry*, **2017**, 41, 7689-7696	3.6	6
67	Gadolinium-based nanoscale MRI contrast agents for tumor imaging. *Journal of Materials Chemistry B*, **2017**, 5, 3431-3461	7.3	71

66	Lipid-dependent conformational dynamics underlie the functional versatility of T-cell receptor. *Cell Research*, **2017**, 27, 505-525	24.7	30
65	Multifunctional Nanofibers for Specific Purification and Release of CTCs. *ACS Sensors*, **2017**, 2, 547-552	9.2	32
64	Design and Synthesis of a Dimethylindole Red Trimer: A New Light-Up Red-Emitting Fluorescent Probe for G-Quadruplexes. *ChemistrySelect*, **2017**, 2, 2783-2788	1.8	5
63	Hydrophobic IR-780 Dye Encapsulated in cRGD-Conjugated Solid Lipid Nanoparticles for NIR Imaging-Guided Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2017**, 9, 12217-12226	9.5	102
62	Hyperbranched poly(glycerol) as a T1 contrast agent for tumor-targeted magnetic resonance imaging in vivo. *Polymer Chemistry*, **2017**, 8, 1104-1113	4.9	14
61	A poly(ε-caprolactone)-poly(glycerol)-poly(ε-caprolactone) triblock copolymer for designing a polymeric micelle as a tumor targeted magnetic resonance imaging contrast agent. *Journal of Materials Chemistry B*, **2017**, 5, 8408-8416	7.3	9
60	Hidden complexity of synergistic roles of Dopa and lysine for strong wet adhesion. *Materials Chemistry Frontiers*, **2017**, 1, 2664-2668	7.8	24
59	Directional mechanical stability of Bacteriophage ϕ29 motor's 3WJ-pRNA: Extraordinary robustness along portal axis. *Science Advances*, **2017**, 3, e1601684	14.3	14
58	Printable Fluorescent Hydrogels Based on Self-Assembling Peptides. *Scientific Reports*, **2017**, 7, 9691	4.9	37
57	Promoting electron transfer to enhance anaerobic treatment of azo dye wastewater with adding Fe(OH). *Bioresource Technology*, **2017**, 245, 138-144	11	17
56	Single Molecule Study of Force-Induced Rotation of Carbon-Carbon Double Bonds in Polymers. *ACS Nano*, **2017**, 11, 194-203	16.7	25
55	A fumigaclavine C isostere alleviates Th1-mediated experimental colitis via competing with IFN-γ for binding to IFN-γ receptor 1. *Biochemical Pharmacology*, **2017**, 123, 63-72	6	5
54	Poly(glycerol) Used for Constructing Mixed Polymeric Micelles as T MRI Contrast Agent for Tumor-Targeted Imaging. *Biomacromolecules*, **2017**, 18, 150-158	6.9	29
53	Multi-arm star-branched polymer as an efficient contrast agent for tumor-targeted magnetic resonance imaging. *Journal of Materials Chemistry B*, **2017**, 5, 5001-5008	7.3	4
52	Single molecule force spectroscopy study of calcium regulated mechanical unfolding of the A6 domain of adseverin. *Wuli Xuebao/Acta Physica Sinica*, **2017**, 66, 196201	0.6	1
51	GdO and GH combined with red blood cells to improve the sensitivity of contrast agents for cancer targeting MR imaging. *Biomaterials Science*, **2016**, 5, 46-49	7.4	6
50	A Highly Stretchable and Autonomous Self-Healing Polymer Based on Combination of Pt···Pt and π···π Interactions. *Macromolecular Rapid Communications*, **2016**, 37, 1667-1675	4.8	142
49	Near-Infrared Light-Driven Photoelectrochemical Aptasensor Based on the Upconversion Nanoparticles and TiO/CdTe Heterostructure for Detection of Cancer Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 25834-25839	9.5	61

48	Electrically Controllable Actuators Based on Supramolecular Peptide Hydrogels. *Advanced Functional Materials*, **2016**, 26, 9053-9062	15.6	72
47	Neutral red as a specific light-up fluorescent probe for i-motif DNA. *Chemical Communications*, **2016**, 52, 14330-14333	5.8	21
46	A label-free and portable graphene FET aptasensor for children blood lead detection. *Scientific Reports*, **2016**, 6, 21711	4.9	70
45	Polymer-Supramolecular Polymer Double-Network Hydrogel. *Advanced Functional Materials*, **2016**, 26, 9044-9052	15.6	81
44	Biocleavable Oligolysine-Grafted Poly(disulfide amine)s as Magnetic Resonance Imaging Probes. *Bioconjugate Chemistry*, **2016**, 27, 151-8	6.3	4
43	Synthesis and photoluminescence modulating of polypyrrole fluorescent nano-spheres/dots. *RSC Advances*, **2016**, 6, 23737-23745	3.7	14
42	Oligoethylenimine-grafted chitosan as enhanced T1 contrast agent for in vivo targeted tumor MRI. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 23-9	5.6	5
41	Functional Hyperbranched Polylysine as Potential Contrast Agent Probes for Magnetic Resonance Imaging. *Biomacromolecules*, **2016**, 17, 2302-8	6.9	20
40	Oligoethylenimine grafted PEGylated poly(aspartic acid) as a macromolecular contrast agent: properties and in vivo studies. *Journal of Materials Chemistry B*, **2016**, 4, 3324-3330	7.3	8
39	A highly stretchable autonomous self-healing elastomer. *Nature Chemistry*, **2016**, 8, 618-24	17.6	858
38	Preparation of linear poly(glycerol) as a T contrast agent for tumor-targeted magnetic resonance imaging. *Journal of Materials Chemistry B*, **2016**, 4, 6716-6725	7.3	13
37	Hierarchical Composites to Reduce -Nitrosamines in Cigarette Smoke. *Materials*, **2015**, 8, 1325-1340	3.5	1
36	Aptamer-Modified Temperature-Sensitive Liposomal Contrast Agent for Magnetic Resonance Imaging. *Biomacromolecules*, **2015**, 16, 2618-23	6.9	36
35	The transcription factor TCF-1 initiates the differentiation of T(FH) cells during acute viral infection. *Nature Immunology*, **2015**, 16, 991-9	19.1	148
34	New insights into the structure of a CeO2–ZrO2–Al2O3 composite and its influence on the performance of the supported Pd-only three-way catalyst. *Catalysis Science and Technology*, **2015**, 5, 4488-4500	5.5	40
33	Preparation of ceria-zirconia by modified coprecipitation method and its supported Pd-only three-way catalyst. *Journal of Colloid and Interface Science*, **2015**, 450, 404-416	9.3	53
32	Preparation, characterization and application of polyaniline/epoxide polysiloxane composite films. *Chinese Journal of Polymer Science (English Edition)*, **2015**, 33, 732-742	3.5	8
31	Facile access to B-doped solid-state fluorescent carbon dots toward light emitting devices and cell imaging agents. *Journal of Materials Chemistry C*, **2015**, 3, 6668-6675	7.1	84

30	Size-controllable polypyrrole nanospheres synthesized in the presence of phosphorylated chitosan and their size effect in different applications. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	2
29	A photocatalysis system based on composite nanostructures of controlable peptide nanotubes and graphene. *Wuli Xuebao/Acta Physica Sinica*, **2015**, 64, 098702	0.6	1
28	An integrated artificial photosynthesis system based on peptide nanotubes. *Nanoscale*, **2014**, 6, 7832-7	7.7	19
27	Compressive properties and creep resistance of a novel, porous, semidegradable poly(vinyl alcohol)/poly(lactic-co-glycolic acid) scaffold for articular cartilage repair. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	6
26	Genetically encoded red fluorescent copper(I) sensors for cellular copper(I) imaging. *Biochemical and Biophysical Research Communications*, **2014**, 443, 894-8	3.4	8
25	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	3.7	17
24	Single molecule evidence for the adaptive binding of DOPA to different wet surfaces. *Langmuir*, **2014**, 30, 4358-66	4	98
23	Designing the mechanical properties of peptide-based supramolecular hydrogels for biomedical applications. *Science China: Physics, Mechanics and Astronomy*, **2014**, 57, 849-858	3.6	30
22	Single-molecule force spectroscopy reveals force-enhanced binding of calcium ions by gelsolin. *Nature Communications*, **2014**, 5, 4623	17.4	26
21	Two approaches for the engineering of homogeneous small-molecule hydrogels. *Soft Matter*, **2013**, 9, 4672	3.6	39
20	A single-molecule view on the disassembly of tobacco mosaic virus. *Biophysical Journal*, **2013**, 105, 2615-6	2.9	1
19	Photo-cross-linking approach to engineering small tyrosine-containing peptide hydrogels with enhanced mechanical stability. *Langmuir*, **2013**, 29, 13299-306	4	63
18	A genetically encoded copper(I) sensor based on engineered structural distortion of EGFP. *Chemical Communications*, **2012**, 48, 3890-2	5.8	30
17	Formation of β-helix-based twisted ribbon-like fibrils from ionic-complementary peptides. *Chemical Communications*, **2011**, 47, 7413-5	5.8	8
16	Mechanics of Proteins and Tailored Mechanics of Engineered Proteins **2011**, 47-82		
15	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	1.6	6
14	A force-spectroscopy-based single-molecule metal-binding assay. *ChemPhysChem*, **2009**, 10, 1450-4	3.2	13
13	Engineered elastomeric proteins with dual elasticity can be controlled by a molecular regulator. *Nature Nanotechnology*, **2008**, 3, 512-6	28.7	58

12	Engineering tandem modular protein based reversible hydrogels. *Chemical Communications*, **2008**, 4144-6	5.8	39
11	Isolation and characterization of a mitogen-activated protein kinase gene in the halotolerant alga Dunaliella salina. *Journal of Applied Phycology*, **2008**, 20, 13-17	3.2	13
10	Capturing Volatile Nitrosamines in Gas Stream by Zeolites: Why and How. *Journal of Physical Chemistry C*, **2007**, 111, 4347-4357	3.8	46
9	Polyprotein of GB1 is an ideal artificial elastomeric protein. *Nature Materials*, **2007**, 6, 109-14	27	186
8	Nonmechanical protein can have significant mechanical stability. *Angewandte Chemie - International Edition*, **2006**, 45, 642-5	16.4	92
7	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		144
6	Solvent-free surface functionalized SBA-15 as a versatile trap of nitrosamines. *Journal of Materials Chemistry*, **2006**, 16, 1520		42
5	Novel amorphous functional materials for trapping nitrosamines. *Environmental Science & Technology*, **2005**, 39, 7254-9	10.3	24
4	Removal of volatile nitrosamines with copper modified zeolites. *New Journal of Chemistry*, **2004**, 28, 244	3.6	43
3	Self-sorting double network hydrogels with photo-definable biochemical cues as artificial synthetic extracellular matrix. *Nano Research*,1	10	3
2	Stretchable and self-healable hydrogel artificial skin. *National Science Review*,	10.8	7
1	Modulating vectored non-covalent interactions for layered assembly with engineerable properties. *Bio-Design and Manufacturing*,1	4.7	0