Jie Zheng

List of Publications by Year
in descending order

258	18,484	9254 74	16164 124
papers	citations	h-index	g-index

261	261	261	18829
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface hydration: Principles and applications toward low-fouling/nonfouling biomaterials. Polymer, 2010, 51, 5283-5293.	1.8	1,370
2	Strong Resistance of Phosphorylcholine Self-Assembled Monolayers to Protein Adsorption:Â Insights into Nonfouling Properties of Zwitterionic Materials. Journal of the American Chemical Society, 2005, 127, 14473-14478.	6.6	918
3	A Robust, Oneâ€Pot Synthesis of Highly Mechanical and Recoverable Double Network Hydrogels Using Thermoreversible Solâ€Gel Polysaccharide. Advanced Materials, 2013, 25, 4171-4176.	11.1	594
4	A Novel Design Strategy for Fully Physically Linked Double Network Hydrogels with Tough, Fatigue Resistant, and Selfâ€Healing Properties. Advanced Functional Materials, 2015, 25, 1598-1607.	7.8	511
5	Fundamentals of double network hydrogels. Journal of Materials Chemistry B, 2015, 3, 3654-3676.	2.9	477
6	Protein Adsorption on Oligo(ethylene glycol)-Terminated Alkanethiolate Self-Assembled Monolayers:Â The Molecular Basis for Nonfouling Behavior. Journal of Physical Chemistry B, 2005, 109, 2934-2941.	1.2	461
7	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimerâ€™s Disease, Parkinsonâ€™s Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. Chemical Reviews, 2021, 121, 2545-2647.	23.0	406
8	Strong Repulsive Forces between Protein and Oligo (Ethylene Glycol) Self-Assembled Monolayers: A Molecular Simulation Study. Biophysical Journal, 2005, 89, 158-166.	0.2	310
9	Molecular Simulation Study of Water Interactions with Oligo (Ethylene Glycol)-Terminated Alkanethiol Self-Assembled Monolayers. Langmuir, 2004, 20, 8931-8938.	1.6	270
10	Bulk heterojunction perovskite hybrid solar cells with large fill factor. Energy and Environmental Science, 2015, 8, 1245-1255.	15.6	252
11	Improvement of Mechanical Strength and Fatigue Resistance of Double Network Hydrogels by Ionic Coordination Interactions. Chemistry of Materials, 2016, 28, 5710-5720.	3.2	237
12	Adsorption removal of ciprofloxacin by multi-walled carbon nanotubes with different oxygen contents from aqueous solutions. Chemical Engineering Journal, 2016, 285, 588-595.	6.6	229
13	Alginate/graphene double-network nanocomposite hydrogel beads with low-swelling, enhanced mechanical properties, and enhanced adsorption capacity. Journal of Materials Chemistry A, 2016, 4, 10885-10892.	5.2	225
14	A Novel Design of Multiâ€Mechanoresponsive and Mechanically Strong Hydrogels. Advanced Materials, 2017, 29, 1606900.	11.1	215
15	Effect of Film Thickness on the Antifouling Performance of Poly(hydroxy-functional methacrylates) Grafted Surfaces. Langmuir, 2011, 27, 4906-4913.	1.6	201
16	Tanshinones Inhibit Amyloid Aggregation by Amyloid-Î² Peptide, Disaggregate Amyloid Fibrils, and Protect Cultured Cells. ACS Chemical Neuroscience, 2013, 4, 1004-1015.	1.7	180
17	Super Bulk and Interfacial Toughness of Physically Crosslinked Doubleâ€Network Hydrogels. Advanced Functional Materials, 2017, 27, 1703086.	7.8	180
18	Models of Î²-Amyloid Ion Channels in the Membrane Suggest That Channel Formation in the Bilayer Is a Dynamic Process. Biophysical Journal, 2007, 93, 1938-1949.	0.2	175

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19	Modeling the Alzheimer AÎ²17-42 Fibril Architecture: Tight Intermolecular Sheet-Sheet Association and Intramolecular Hydrated Cavities. Biophysical Journal, 2007, 93, 3046-3057.	0.2	167
20	Salt-Responsive Zwitterionic Polymer Brushes with Tunable Friction and Antifouling Properties. Langmuir, 2015, 31, 9125-9133.	1.6	150
21	Binding characteristics between polyethylene glycol (PEG) and proteins in aqueous solution. Journal of Materials Chemistry B, 2014, 2, 2983.	2.9	149
22	Highly stretchable, self-adhesive, biocompatible, conductive hydrogels as fully polymeric strain sensors. Journal of Materials Chemistry A, 2020, 8, 20474-20485.	5.2	147
23	Molecular Simulation Studies of the Orientation and Conformation of Cytochrome c Adsorbed on Self-Assembled Monolayers. Journal of Physical Chemistry B, 2004, 108, 17418-17424.	1.2	145
24	High strength and self-healable gelatin/polyacrylamide double network hydrogels. Journal of Materials Chemistry B, 2017, 5, 7683-7691.	2.9	144
25	Dual Salt- and Thermoresponsive Programmable Bilayer Hydrogel Actuators with Pseudo-Interpenetrating Double-Network Structures. ACS Applied Materials & Interfaces, 2018, 10, 21642-21653.	4.0	142
26	Design of LVFFARK and LVFFARK-Functionalized Nanoparticles for Inhibiting Amyloid Î²-Protein Fibrillation and Cytotoxicity. ACS Applied Materials & Interfaces, 2015, 7, 5650-5662.	4.0	140
27	Water-enhanced Removal of Ciprofloxacin from Water by Porous Graphene Hydrogel. Scientific Reports, 2015, 5, 13578.	1.6	134
28	New structures help the modeling of toxic amyloidÃŸ ion channels. Trends in Biochemical Sciences, 2008, 33, 91-100.	3.7	133
29	Comparative Study of Heparin-Poloxamer Hydrogel Modified bFGF and aFGF for in Vivo Wound Healing Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 18710-18721.	4.0	133
30	Structural Stability and Dynamics of an Amyloid-Forming Peptide GNNQQNY from the Yeast Prion Sup-35. Biophysical Journal, 2006, 91, 824-833.	0.2	131
31	From design to applications of stimuli-responsive hydrogel strain sensors. Journal of Materials Chemistry B, 2020, 8, 3171-3191.	2.9	131
32	Fracture of the Physically Cross-Linked First Network in Hybrid Double Network Hydrogels. Macromolecules, 2014, 47, 2140-2148.	2.2	130
33	Transport of a liquid water and methanol mixture through carbon nanotubes under a chemical potential gradient. Journal of Chemical Physics, 2005, 122, 214702.	1.2	125
34	Engineering of Tough Double Network Hydrogels. Macromolecular Chemistry and Physics, 2016, 217, 1022-1036.	1.1	123
35	Salt-Responsive Bilayer Hydrogels with Pseudo-Double-Network Structure Actuated by Polyelectrolyte and Antipolyelectrolyte Effects. ACS Applied Materials & Interfaces, 2017, 9, 20843-20851.	4.0	119
36	Structure-Thermodynamics-Antioxidant Activity Relationships of Selected Natural Phenolic Acids and Derivatives: An Experimental and Theoretical Evaluation. PLoS ONE, 2015, 10, e0121276.	1.1	117

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37	Simultaneous Enhancement of Stiffness and Toughness in Hybrid Double-Network Hydrogels via the First, Physically Linked Network. Macromolecules, 2015, 48, 8003-8010.	2.2	116
38	Synthesis and Characterization of Poly(N-hydroxyethylacrylamide) for Long-Term Antifouling Ability. Biomacromolecules, 2011, 12, 4071-4079.	2.6	114
39	Cholesterol Promotes the Interaction of Alzheimer Î²-Amyloid Monomer with Lipid Bilayer. Journal of Molecular Biology, 2012, 421, 561-571.	2.0	114
40	Comparative Study of Graphene Hydrogels and Aerogels Reveals the Important Role of Buried Water in Pollutant Adsorption. Environmental Science & Technology, 2017, 51, 12283-12292.	4.6	114
41	Origin of repulsive force and structure/dynamics of interfacial water in OEGâ€“protein interactions: a molecular simulation study. Physical Chemistry Chemical Physics, 2008, 10, 5539.	1.3	112
42	Sulfated zwitterionic poly(sulfobetaine methacrylate) hydrogels promote complete skin regeneration. Acta Biomaterialia, 2018, 71, 293-305.	4.1	112
43	Fundamentals and applications of zwitterionic antifouling polymers. Journal Physics D: Applied Physics, 2019, 52, 403001.	1.3	110
44	Release of Cytochrome C from Bax Pores at the Mitochondrial Membrane. Scientific Reports, 2017, 7, 2635.	1.6	107
45	Design of novel lanthanide-doped coreâ€“shell nanocrystals with dual up-conversion and down-conversion luminescence for anti-counterfeiting printing. Dalton Transactions, 2019, 48, 6971-6983.	1.6	103
46	General Principle for Fabricating Natural Globular Protein-Based Double-Network Hydrogels with Integrated Highly Mechanical Properties and Surface Adhesion on Solid Surfaces. Chemistry of Materials, 2019, 31, 179-189.	3.2	102
47	Highly Porous ZIF-8 Nanocrystals Prepared by a Surfactant Mediated Method in Aqueous Solution with Enhanced Adsorption Kinetics. ACS Applied Materials & Interfaces, 2014, 6, 14994-14999.	4.0	101
48	Biophysical processes underlying cross-seeding in amyloid aggregation and implications in amyloid pathology. Biophysical Chemistry, 2021, 269, 106507.	1.5	101
49	Heparin-Based Coacervate of FGF2 Improves Dermal Regeneration by Asserting a Synergistic Role with Cell Proliferation and Endogenous Facilitated VEGF for Cutaneous Wound Healing. Biomacromolecules, 2016, 17, 2168-2177.	2.6	99
50	Structural, morphological, and kinetic studies of Î²-amyloid peptide aggregation on self-assembled monolayers. Physical Chemistry Chemical Physics, 2011, 13, 15200.	1.3	96
51	Molecular understanding of a potential functional link between antimicrobial and amyloid peptides. Soft Matter, 2014, 10, 7425-7451.	1.2	96
52	Dual Functionality of Antimicrobial and Antifouling of Poly(N-hydroxyethylacrylamide)/Salicylate Hydrogels. Langmuir, 2013, 29, 1517-1524.	1.6	95
53	Dual physically crosslinked double network hydrogels with high toughness and self-healing properties. Soft Matter, 2017, 13, 911-920.	1.2	94
54	Enhanced Thermoelectric Properties of Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) by Binary Secondary Dopants. ACS Applied Materials & Interfaces, 2015, 7, 8984-8989.	4.0	93

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55	Upconversion Nanoparticles@Carbon Dots@Meso-SiO₂ Sandwiched Coreâ€“Shell Nanohybrids with Tunable Dual-Mode Luminescence for 3D Anti-Counterfeiting Barcodes. Langmuir, 2019, 35, 11503-11511.	1.6	93
56	Achieving Highly Effective Nonfouling Performance for Surface-Grafted Poly(HPMA) via Atom-Transfer Radical Polymerization. Langmuir, 2010, 26, 17375-17382.	1.6	92
57	Molecular Understanding and Structural-Based Design of Polyacrylamides and Polyacrylates as Antifouling Materials. Langmuir, 2016, 32, 3315-3330.	1.6	90
58	Salt-responsive zwitterionic polymer brushes with anti-polyelectrolyte property. Current Opinion in Chemical Engineering, 2018, 19, 86-93.	3.8	89
59	Magnetic iron oxide nanoparticles functionalized multi-walled carbon nanotubes for toluene, ethylbenzene and xylene removal from aqueous solution. Chemosphere, 2016, 146, 162-172.	4.2	88
60	Fundamentals of cross-seeding of amyloid proteins: an introduction. Journal of Materials Chemistry B, 2019, 7, 7267-7282.	2.9	87
61	Inhibition of Amyloid-β Aggregation in Alzheimer's Disease. Current Pharmaceutical Design, 2014, 20, 1223-1243.	0.9	86
62	Design of a Molecular Hybrid of Dual Peptide Inhibitors Coupled on AuNPs for Enhanced Inhibition of Amyloid Î²â€Protein Aggregation and Cytotoxicity. Small, 2017, 13, 1601666.	5.2	82
63	General Strategy To Fabricate Strong and Tough Low-Molecular-Weight Gelator-Based Supramolecular Hydrogels with Double Network Structure. Chemistry of Materials, 2018, 30, 1743-1754.	3.2	82
64	A General Crosslinker Strategy to Realize Intrinsic Frozen Resistance of Hydrogels. Advanced Materials, 2021, 33, e2104006.	11.1	82
65	Synthesis and characterization of pH-sensitive poly(N-2-hydroxyethyl acrylamide)â€“acrylic acid (poly(HEAA/AA)) nanogels with antifouling protection for controlled release. Soft Matter, 2012, 8, 7848.	1.2	81
66	Comparative Molecular Dynamics Study of Human Islet Amyloid Polypeptide (IAPP) and Rat IAPP Oligomers. Biochemistry, 2013, 52, 1089-1100.	1.2	80
67	Genistein: A Dual Inhibitor of Both Amyloid Î² and Human Islet Amylin Peptides. ACS Chemical Neuroscience, 2018, 9, 1215-1224.	1.7	80
68	Structural Dependence of Salt-Responsive Polyzwitterionic Brushes with an Anti-Polyelectrolyte Effect. Langmuir, 2018, 34, 97-105.	1.6	80
69	Engineering Antimicrobial Peptides with Improved Antimicrobial and Hemolytic Activities. Journal of Chemical Information and Modeling, 2013, 53, 3280-3296.	2.5	79
70	Solution-processed broadband polymer photodetectors with a spectral response of up to 2.5 Î¼m by a low bandgap donorâ€“acceptor conjugated copolymer. Journal of Materials Chemistry C, 2018, 6, 3634-3641.	2.7	79
71	Cross-Seeding Interaction between Î²-Amyloid and Human Islet Amyloid Polypeptide. ACS Chemical Neuroscience, 2015, 6, 1759-1768.	1.7	78
72	Integration of antifouling and antibacterial properties in salt-responsive hydrogels with surface regeneration capacity. Journal of Materials Chemistry B, 2018, 6, 950-960.	2.9	78

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73	Molecular simulations and understanding of antifouling zwitterionic polymer brushes. Journal of Materials Chemistry B, 2020, 8, 3814-3828.	2.9	78
74	Probing structureâ€“antifouling activity relationships of polyacrylamides and polyacrylates. Biomaterials, 2013, 34, 4714-4724.	5.7	77
75	Mechanically strong hybrid double network hydrogels with antifouling properties. Journal of Materials Chemistry B, 2015, 3, 5426-5435.	2.9	77
76	Surface Zwitterionization of Expanded Poly(tetrafluoroethylene) Membranes via Atmospheric Plasma-Induced Polymerization for Enhanced Skin Wound Healing. ACS Applied Materials & Interfaces, 2013, 5, 6732-6742.	4.0	76
77	Zwitterionic poly(sulfobetaine methacrylate) hydrogels with optimal mechanical properties for improving wound healing in vivo. Journal of Materials Chemistry B, 2019, 7, 1697-1707.	2.9	76
78	Dual-stimulus bilayer hydrogel actuators with rapid, reversible, bidirectional bending behaviors. Journal of Materials Chemistry C, 2019, 7, 4970-4980.	2.7	76
79	Surface Zwitterionization of Titanium for a General Bio-Inert Control of Plasma Proteins, Blood Cells, Tissue Cells, and Bacteria. Langmuir, 2014, 30, 7502-7512.	1.6	75
80	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. Acta Biomaterialia, 2016, 40, 62-69.	4.1	74
81	Structure, Orientation, and Surface Interaction of Alzheimer Amyloid-Î² Peptides on the Graphite. Langmuir, 2012, 28, 6595-6605.	1.6	72
82	Annular Structures as Intermediates in Fibril Formation of Alzheimer AÎ²_{17â^'42}. Journal of Physical Chemistry B, 2008, 112, 6856-6865.	1.2	70
83	Probing the weak interaction of proteins with neutral and zwitterionic antifouling polymers. Acta Biomaterialia, 2014, 10, 751-760.	4.1	68
84	Introducing Mixed-Charge Copolymers As Wound Dressing Biomaterials. ACS Applied Materials & Interfaces, 2014, 6, 9858-9870.	4.0	67
85	Synthesis and Characterization of Antifouling Poly(N-acryloylaminoethoxyethanol) with Ultralow Protein Adsorption and Cell Attachment. Langmuir, 2014, 30, 10398-10409.	1.6	66
86	Core/Shell Piezoelectric Nanofibers with Spatial Self-Orientated Î²-Phase Nanocrystals for Real-Time Micropressure Monitoring of Cardiovascular Walls. ACS Nano, 2019, 13, 10062-10073.	7.3	66
87	Conformational Basis for Asymmetric Seeding Barrier in Filaments of Three- and Four-Repeat Tau. Journal of the American Chemical Society, 2012, 134, 10271-10278.	6.6	63
88	Cross-seeding and Conformational Selection between Three- and Four-repeat Human Tau Proteins. Journal of Biological Chemistry, 2012, 287, 14950-14959.	1.6	63
89	A comparative study of the mechanical properties of hybrid double-network hydrogels in swollen and as-prepared states. Journal of Materials Chemistry B, 2016, 4, 5814-5824.	2.9	62
90	Double-Network Physical Cross-Linking Strategy To Promote Bulk Mechanical and Surface Adhesive Properties of Hydrogels. Macromolecules, 2019, 52, 9512-9525.	2.2	59

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91	Tanshinones inhibit hIAPP aggregation, disaggregate preformed hIAPP fibrils, and protect cultured cells. Journal of Materials Chemistry B, 2018, 6, 56-67.	2.9	58
92	Molecular Dynamics Simulations of Low-Ordered Alzheimer Î²-Amyloid Oligomers from Dimer to Hexamer on Self-Assembled Monolayers. Langmuir, 2011, 27, 14876-14887.	1.6	57
93	Tabersonine Inhibits Amyloid Fibril Formation and Cytotoxicity of AÎ²(1â€“42). ACS Chemical Neuroscience, 2015, 6, 879-888.	1.7	54
94	Molecular interactions of Alzheimer amyloid-Î² oligomers with neutral and negatively charged lipid bilayers. Physical Chemistry Chemical Physics, 2013, 15, 8878.	1.3	53
95	Functional polymer thin films designed for antifouling materials and biosensors. Chemical Papers, 2012, 66, .	1.0	52
96	Probing the Structural Dependence of Carbon Space Lengths of Poly(N-hydroxyalkyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 T	2.6	52
97	The energy dissipation and Mullins effect of tough polymer/graphene oxide hybrid nanocomposite hydrogels. Polymer Chemistry, 2017, 8, 4659-4672.	1.9	52
98	Discovery of a novel native bacterium of Providencia sp. with high biosorption and oxidation ability of manganese for bioleaching of heavy metal contaminated soils. Chemosphere, 2020, 241, 125039.	4.2	52
99	Principles of nanostructure design with protein building blocks. Proteins: Structure, Function and Bioinformatics, 2007, 68, 1-12.	1.5	51
100	Structural Polymorphism of Human Islet Amyloid Polypeptide (hIAPP) Oligomers Highlights the Importance of Interfacial Residue Interactions. Biomacromolecules, 2011, 12, 210-220.	2.6	50
101	Probing ion channel activity of human islet amyloid polypeptide (amylin). Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 3121-3130.	1.4	50
102	Design of core/active-shell NaYF4:Ln3+@NaYF4:Yb3+ nanophosphors with enhanced red-green-blue upconversion luminescence for anti-counterfeiting printing. Composites Part B: Engineering, 2019, 179, 107504.	5.9	49
103	Design of salt-responsive and regenerative antibacterial polymer brushes with integrated bacterial resistance, killing, and release properties. Journal of Materials Chemistry B, 2019, 7, 5762-5774.	2.9	48
104	Design of high conductive and piezoelectric poly (3,4-ethylenedioxythiophene)/chitosan nanofibers for enhancing cellular electrical stimulation. Journal of Colloid and Interface Science, 2020, 559, 65-75.	5.0	48
105	Polymorphic Structures of Alzheimer's Î²-Amyloid Globulomers. PLoS ONE, 2011, 6, e20575.	1.1	47
106	Consensus features in amyloid fibrils: sheetâ€“sheet recognition via a (polar or nonpolar) zipper structure. Physical Biology, 2006, 3, P1-P4.	0.8	46
107	Zwitterionic Modifications for Enhancing the Antifouling Properties of Poly(vinylidene fluoride) Membranes. Langmuir, 2016, 32, 4113-4124.	1.6	46
108	Allâ€Solidâ€State Asymmetric Supercapacitors with Metal Selenides Electrodes and Ionic Conductive Composites Electrolytes. Advanced Functional Materials, 2019, 29, 1904182.	7.8	45

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109	Current Research Trends and Perspectives on Solid-State Nanomaterials in Hydrogen Storage. Research, 2021, 2021, 3750689.	2.8	45
110	Transport diffusion of liquid water and methanol through membranes. Journal of Chemical Physics, 2002, 117, 808-818.	1.2	44
111	Mussel-Inspired Surface Immobilization of Heparin on Magnetic Nanoparticles for Enhanced Wound Repair via Sustained Release of a Growth Factor and M2 Macrophage Polarization. ACS Applied Materials & Interfaces, 2021, 13, 2230-2244.	4.0	44
112	Membrane Interactions of hIAPP Monomer and Oligomer with Lipid Membranes by Molecular Dynamics Simulations. ACS Chemical Neuroscience, 2017, 8, 1789-1800.	1.7	43
113	Highly Aligned Electrospun Collagen/Polycaprolactone Surgical Sutures with Sustained Release of Growth Factors for Wound Regeneration. ACS Applied Bio Materials, 2020, 3, 965-976.	2.3	43
114	Molecular simulation studies of the structure of phosphorylcholine self-assembled monolayers. Journal of Chemical Physics, 2006, 125, 174714.	1.2	41
115	De Novo Design of Self-Assembled Hexapeptides as Î²-Amyloid (AÎ²) Peptide Inhibitors. ACS Chemical Neuroscience, 2014, 5, 972-981.	1.7	41
116	HP-Î²-cyclodextrin as an inhibitor of amyloid-Î² aggregation and toxicity. Physical Chemistry Chemical Physics, 2016, 18, 20476-20485.	1.3	41
117	Neurogenic differentiation of adipose derived stem cells on graphene-based mat. Materials Science and Engineering C, 2018, 90, 685-692.	3.8	41
118	Magnetic Janus particles as a multifunctional drug delivery system for paclitaxel in efficient cancer treatment. Materials Science and Engineering C, 2019, 104, 110001.	3.8	41
119	Comparative Molecular Dynamics Study of AÎ² Adsorption on the Self-Assembled Monolayers. Langmuir, 2010, 26, 3308-3316.	1.6	40
120	A Universal Coating Strategy for Controllable Functionalized Polymer Surfaces. Advanced Functional Materials, 2020, 30, 2004633.	7.8	40
121	A General Protein Unfoldingâ€Chemical Coupling Strategy for Pure Protein Hydrogels with Mechanically Strong and Multifunctional Properties. Advanced Science, 2022, 9, e2102557.	5.6	40
122	Alzheimer AÎ²_{1â^'42} Monomer Adsorbed on the Self-Assembled Monolayers. Langmuir, 2010, 26, 12722-12732.	1.6	39
123	Molecular Understanding of AÎ²-hIAPP Cross-Seeding Assemblies on Lipid Membranes. ACS Chemical Neuroscience, 2017, 8, 524-537.	1.7	39
124	Multiple Physical Cross-Linker Strategy To Achieve Mechanically Tough and Reversible Properties of Double-Network Hydrogels in Bulk and on Surfaces. ACS Applied Polymer Materials, 2019, 1, 701-713.	2.0	39
125	Multiple Physical Bonds to Realize Highly Tough and Self-Adhesive Double-Network Hydrogels. ACS Applied Polymer Materials, 2020, 2, 1031-1042.	2.0	39
126	Micro- and macroscopically structured zwitterionic polymers with ultralow fouling property. Journal of Colloid and Interface Science, 2020, 578, 242-253.	5.0	39

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127	Ginnalin A Inhibits Aggregation, Reverses Fibrillogenesis, and Alleviates Cytotoxicity of Amyloid Î²(1â€“42). ACS Chemical Neuroscience, 2020, 11, 638-647.	1.7	39
128	Design principles and fundamental understanding of biosensors for amyloid-Î² detection. Journal of Materials Chemistry B, 2020, 8, 6179-6196.	2.9	39
129	Single Mutations in Tau Modulate the Populations of Fibril Conformers through Seed Selection. Angewandte Chemie - International Edition, 2014, 53, 1590-1593.	7.2	38
130	Polymorphic cross-seeding amyloid assemblies of amyloid-Î² and human islet amyloid polypeptide. Physical Chemistry Chemical Physics, 2015, 17, 23245-23256.	1.3	38
131	Ac-LVFFARK-NH 2 conjugation to Î²-cyclodextrin exhibits significantly enhanced performance on inhibiting amyloid Î²-protein fibrillogenesis and cytotoxicity. Biophysical Chemistry, 2018, 235, 40-47.	1.5	38
132	Structure by design: from single proteins and their building blocks to nanostructures. Trends in Biotechnology, 2006, 24, 449-454.	4.9	37
133	Nanostructure Design Using Protein Building Blocks Enhanced by Conformationally Constrained Synthetic Residuesâ€. Biochemistry, 2007, 46, 1205-1218.	1.2	37
134	Antifouling and biodegradable poly(N-hydroxyethyl acrylamide) (polyHEAA)-based nanogels. RSC Advances, 2013, 3, 19991.	1.7	37
135	Corrosion inhibition of mild steel by an imidazolium ionic liquid compound: the effect of pH and surface pre-corrosion. RSC Advances, 2015, 5, 95160-95170.	1.7	37
136	Î²₂-Microglobulin Amyloid Fragment Organization and Morphology and Its Comparison to AÎ² Suggests That Amyloid Aggregation Pathways Are Sequence Specific. Biochemistry, 2008, 47, 2497-2509.	1.2	36
137	Non-selective ion channel activity of polymorphic human islet amyloid polypeptide (amylin) double channels. Physical Chemistry Chemical Physics, 2014, 16, 2368-2377.	1.3	36
138	Micellar-incorporated hydrogels with highly tough, mechanoresponsive, and self-recovery properties for strain-induced color sensors. Journal of Materials Chemistry C, 2018, 6, 11536-11551.	2.7	36
139	Molecular insights into the reversible formation of tau protein fibrils. Chemical Communications, 2013, 49, 3582.	2.2	34
140	Structural and Energetic Insight into the Cross-Seeding Amyloid Assemblies of Human IAPP and Rat IAPP. Journal of Physical Chemistry B, 2014, 118, 7026-7036.	1.2	34
141	Importance of zwitterionic incorporation into polymethacrylate-based hydrogels for simultaneously improving optical transparency, oxygen permeability, and antifouling properties. Journal of Materials Chemistry B, 2017, 5, 4595-4606.	2.9	34
142	Molecular simulation aspects of amyloid peptides at membrane interface. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1906-1916.	1.4	34
143	Novel Quasi-2D Perovskites for Stable and Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 51744-51755.	4.0	34
144	A mechanistic survey of Alzheimer's disease. Biophysical Chemistry, 2022, 281, 106735.	1.5	34

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145	Designing a Nanotube Using Naturally Occurring Protein Building Blocks. PLoS Computational Biology, 2006, 2, e42.	1.5	33
146	Heterogeneous Triangular Structures of Human Islet Amyloid Polypeptide (Amylin) with Internal Hydrophobic Cavity and External Wrapping Morphology Reveal the Polymorphic Nature of Amyloid Fibrils. Biomacromolecules, 2011, 12, 1781-1794.	2.6	33
147	Iminodiacetic acid-conjugated nanoparticles as a bifunctional modulator against Zn2+-mediated amyloid Î²-protein aggregation and cytotoxicity. Journal of Colloid and Interface Science, 2017, 505, 973-982.	5.0	33
148	General Aggregation-Induced Emission Probes for Amyloid Inhibitors with Dual Inhibition Capacity against Amyloid Î²-Protein and Î±-Synuclein. ACS Applied Materials & Interfaces, 2020, 12, 31182-31194.	4.0	33
149	Molecular Modeling of Two Distinct Triangular Oligomers in Amyloid Î²-protein. Journal of Physical Chemistry B, 2010, 114, 463-470.	1.2	32
150	Synthesis and Characterization of Ultralow Fouling Poly(N-acryloyl-glycinamide) Brushes. Langmuir, 2017, 33, 13964-13972.	1.6	31
151	Agar/carbon dot crosslinked polyacrylamide double-network hydrogels with robustness, self-healing, and stimulus-response fluorescence for smart anti-counterfeiting. Materials Chemistry Frontiers, 2021, 5, 5418-5428.	3.2	31
152	Acoustic signal analysis for detecting defects inside an arc magnet using a combination of variational mode decomposition and beetle antennae search. ISA Transactions, 2020, 102, 347-364.	3.1	30
153	Tough, adhesive, self-healing, fully physical crosslinked Î³-CG-K+/pHEAA double-network ionic conductive hydrogels for wearable sensors. Polymer, 2021, 236, 124321.	1.8	30
154	A systematic SPR study of human plasma protein adsorption behavior on the controlled surface packing of selfâ€assembled poly(ethylene oxide) triblock copolymer surfaces. Journal of Biomedical Materials Research - Part A, 2010, 93A, 400-408.	2.1	29
155	Strong resistance of poly (ethylene glycol) based <scp>L</scp>â€tyrosine polyurethanes to protein adsorption and cell adhesion. Polymer International, 2012, 61, 616-621.	1.6	28
156	Mimicking the binding and unbinding of Fe3+ with transferrin using a single biomimetic nanochannel. Chemical Communications, 2013, 49, 9317.	2.2	28
157	Polymorphic Associations and Structures of the Cross-Seeding of AÎ²_{1â€“42} and hIAPP_{1â€“37} Polypeptides. Journal of Chemical Information and Modeling, 2015, 55, 1628-1639.	2.5	28
158	Lipase-catalyzed synthesis mechanism of tri-acetylated phloridzin and its antiproliferative activity against HepG2 cancer cells. Food Chemistry, 2019, 277, 186-194.	4.2	28
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