Jie Zheng

List of Publications by Year
in descending order

272	17,404	12322 69	17090 122
papers	citations	h-index	g-index

279	279	279	20044
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	Drugâ€“target interaction prediction by learning from local information and neighbors. Bioinformatics, 2013, 29, 238-245.	1.8	318
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	Improving compoundâ€“protein interaction prediction by building up highly credible negative samples. Bioinformatics, 2015, 31, i221-i229.	1.8	201
17	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
18	Super Bulk and Interfacial Toughness of Physically Crosslinked Doubleâ€Network Hydrogels. Advanced Functional Materials, 2017, 27, 1703086.	7.8	180

#	Article	IF	Citations
19	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
20	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
21	Salt-Responsive Zwitterionic Polymer Brushes with Tunable Friction and Antifouling Properties. Langmuir, 2015, 31, 9125-9133.	1.6	150
22	Binding characteristics between polyethylene glycol (PEG) and proteins in aqueous solution. Journal of Materials Chemistry B, 2014, 2, 2983.	2.9	149
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	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
26	Vitrimers: Current research trends and their emerging applications. Materials Today, 2021, 51, 586-625.	8.3	135
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	Fracture of the Physically Cross-Linked First Network in Hybrid Double Network Hydrogels. Macromolecules, 2014, 47, 2140-2148.	2.2	130
32	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
33	Engineering of Tough Double Network Hydrogels. Macromolecular Chemistry and Physics, 2016, 217, 1022-1036.	1.1	123
34	Assignment of Orthologous Genes via Genome Rearrangement. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2005, 2, 302-315.	1.9	120
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	SynLethDB: synthetic lethality database toward discovery of selective and sensitive anticancer drug targets. Nucleic Acids Research, 2016, 44, D1011-D1017.	6.5	115
39	Synthesis and Characterization of Poly(N-hydroxyethylacrylamide) for Long-Term Antifouling Ability. Biomacromolecules, 2011, 12, 4071-4079.	2.6	114
40	Cholesterol Promotes the Interaction of Alzheimer Î²-Amyloid Monomer with Lipid Bilayer. Journal of Molecular Biology, 2012, 421, 561-571.	2.0	114
41	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
42	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
43	Sulfated zwitterionic poly(sulfobetaine methacrylate) hydrogels promote complete skin regeneration. Acta Biomaterialia, 2018, 71, 293-305.	4.1	112
44	Release of Cytochrome C from Bax Pores at the Mitochondrial Membrane. Scientific Reports, 2017, 7, 2635.	1.6	107
45	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
46	Structural, morphological, and kinetic studies of Î²-amyloid peptide aggregation on self-assembled monolayers. Physical Chemistry Chemical Physics, 2011, 13, 15200.	1.3	96
47	Molecular understanding of a potential functional link between antimicrobial and amyloid peptides. Soft Matter, 2014, 10, 7425-7451.	1.2	96
48	Dual Functionality of Antimicrobial and Antifouling of Poly(N-hydroxyethylacrylamide)/Salicylate Hydrogels. Langmuir, 2013, 29, 1517-1524.	1.6	95
49	Dual physically crosslinked double network hydrogels with high toughness and self-healing properties. Soft Matter, 2017, 13, 911-920.	1.2	94
50	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
51	Achieving Highly Effective Nonfouling Performance for Surface-Grafted Poly(HPMA) via Atom-Transfer Radical Polymerization. Langmuir, 2010, 26, 17375-17382.	1.6	92
52	Molecular Understanding and Structural-Based Design of Polyacrylamides and Polyacrylates as Antifouling Materials. Langmuir, 2016, 32, 3315-3330.	1.6	90
53	Fabrication and Characterization of Heparin-Grafted Poly-<scp>l</scp>-lactic acidâ€“Chitosan Coreâ€“Shell Nanofibers Scaffold for Vascular Gasket. ACS Applied Materials & Interfaces, 2013, 5, 3757-3763.	4.0	89
54	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

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55	Inhibition of Amyloid-β Aggregation in Alzheimer's Disease. Current Pharmaceutical Design, 2014, 20, 1223-1243.	0.9	86
56	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
57	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
58	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
59	Comparative Molecular Dynamics Study of Human Islet Amyloid Polypeptide (IAPP) and Rat IAPP Oligomers. Biochemistry, 2013, 52, 1089-1100.	1.2	80
60	Structural Dependence of Salt-Responsive Polyzwitterionic Brushes with an Anti-Polyelectrolyte Effect. Langmuir, 2018, 34, 97-105.	1.6	80
61	Engineering Antimicrobial Peptides with Improved Antimicrobial and Hemolytic Activities. Journal of Chemical Information and Modeling, 2013, 53, 3280-3296.	2.5	79
62	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
63	Cross-Seeding Interaction between Î²-Amyloid and Human Islet Amyloid Polypeptide. ACS Chemical Neuroscience, 2015, 6, 1759-1768.	1.7	78
64	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
65	Probing structureâ€“antifouling activity relationships of polyacrylamides and polyacrylates. Biomaterials, 2013, 34, 4714-4724.	5.7	77
66	Mechanically strong hybrid double network hydrogels with antifouling properties. Journal of Materials Chemistry B, 2015, 3, 5426-5435.	2.9	77
67	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
68	Current research progress and perspectives on liquid hydrogen rich molecules in sustainable hydrogen storage. Energy Storage Materials, 2021, 35, 695-722.	9.5	76
69	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
70	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. Acta Biomaterialia, 2016, 40, 62-69.	4.1	74
71	Structure, Orientation, and Surface Interaction of Alzheimer Amyloid-Î² Peptides on the Graphite. Langmuir, 2012, 28, 6595-6605.	1.6	72
72	Annular Structures as Intermediates in Fibril Formation of AÎ²_{17â^'42}. Journal of Physical Chemistry B, 2008, 112, 6856-6865.	1.2	70

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73	Support for the Coelomata Clade of Animals from a Rigorous Analysis of the Pattern of Intron Conservation. Molecular Biology and Evolution, 2007, 24, 2583-2592.	3.5	68
74	Probing the weak interaction of proteins with neutral and zwitterionic antifouling polymers. Acta Biomaterialia, 2014, 10, 751-760.	4.1	68
75	Introducing Mixed-Charge Copolymers As Wound Dressing Biomaterials. ACS Applied Materials & Interfaces, 2014, 6, 9858-9870.	4.0	67
76	Synthesis and Characterization of Antifouling Poly(N-acryloylaminoethoxyethanol) with Ultralow Protein Adsorption and Cell Attachment. Langmuir, 2014, 30, 10398-10409.	1.6	66
77	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
78	Cross-seeding and Conformational Selection between Three- and Four-repeat Human Tau Proteins. Journal of Biological Chemistry, 2012, 287, 14950-14959.	1.6	63
79	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
80	Oncogenic KRAS-associated gene signature defines co-targeting of CDK4/6 and MEK as a viable therapeutic strategy in colorectal cancer. Oncogene, 2017, 36, 4975-4986.	2.6	62
81	OligoSpawn: a software tool for the design of overgo probes from large unigene datasets. BMC Bioinformatics, 2006, 7, 7.	1.2	60
82	Tanshinones inhibit hIAPP aggregation, disaggregate preformed hIAPP fibrils, and protect cultured cells. Journal of Materials Chemistry B, 2018, 6, 56-67.	2.9	58
83	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
84	The crosstalk between EGF, IGF, and Insulin cell signaling pathways - computational and experimental analysis. BMC Systems Biology, 2009, 3, 88.	3.0	56
85	SimBoolNetâ€”a Cytoscape plugin for dynamic simulation of signaling networks. Bioinformatics, 2010, 26, 141-142.	1.8	54
86	Tabersonine Inhibits Amyloid Fibril Formation and Cytotoxicity of AÎ²(1â€“42). ACS Chemical Neuroscience, 2015, 6, 879-888.	1.7	54
87	Molecular interactions of Alzheimer amyloid-Î² oligomers with neutral and negatively charged lipid bilayers. Physical Chemistry Chemical Physics, 2013, 15, 8878.	1.3	53
88	Functional polymer thin films designed for antifouling materials and biosensors. Chemical Papers, 2012, 66, .	1.0	52
89	Probing the Structural Dependence of Carbon Space Lengths of Poly(N-hydroxyalkyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	2.6	52
90	The energy dissipation and Mullins effect of tough polymer/graphene oxide hybrid nanocomposite hydrogels. Polymer Chemistry, 2017, 8, 4659-4672.	1.9	52

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91	Principles of nanostructure design with protein building blocks. Proteins: Structure, Function and Bioinformatics, 2007, 68, 1-12.	1.5	51
92	Structural Polymorphism of Human Islet Amyloid Polypeptide (hIAPP) Oligomers Highlights the Importance of Interfacial Residue Interactions. Biomacromolecules, 2011, 12, 210-220.	2.6	50
93	Probing ion channel activity of human islet amyloid polypeptide (amylin). Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 3121-3130.	1.4	50
94	The aggregation-induced emission enhancement properties of BF2 complex isatin-phenylhydrazone: Synthesis and fluorescence characteristics. Dyes and Pigments, 2015, 113, 502-509.	2.0	50
95	Alternative splicing analysis in human monocytes and macrophages reveals MBNL1 as major regulator. Nucleic Acids Research, 2018, 46, 6069-6086.	6.5	49
96	Sequence analysis of p53 response-elements suggests multiple binding modes of the p53 tetramer to DNA targets. Nucleic Acids Research, 2007, 35, 2986-3001.	6.5	47
97	Polymorphic Structures of Alzheimer's Î²-Amyloid Globulomers. PLoS ONE, 2011, 6, e20575.	1.1	47
98	Consensus features in amyloid fibrils: sheetâ€“sheet recognition via a (polar or nonpolar) zipper structure. Physical Biology, 2006, 3, P1-P4.	0.8	46
99	Zwitterionic Modifications for Enhancing the Antifouling Properties of Poly(vinylidene fluoride) Membranes. Langmuir, 2016, 32, 4113-4124.	1.6	46
100	Current Research Trends and Perspectives on Solid-State Nanomaterials in Hydrogen Storage. Research, 2021, 2021, 3750689.	2.8	45
101	Transport diffusion of liquid water and methanol through membranes. Journal of Chemical Physics, 2002, 117, 808-818.	1.2	44
102	Minimum Common String Partition Problem: Hardness and Approximations. Lecture Notes in Computer Science, 2004, , 484-495.	1.0	44
103	Single-cell transcriptional analysis to uncover regulatory circuits driving cell fate decisions in early mouse development. Bioinformatics, 2015, 31, 1060-1066.	1.8	43
104	Membrane Interactions of hIAPP Monomer and Oligomer with Lipid Membranes by Molecular Dynamics Simulations. ACS Chemical Neuroscience, 2017, 8, 1789-1800.	1.7	43
105	Molecular simulation studies of the structure of phosphorylcholine self-assembled monolayers. Journal of Chemical Physics, 2006, 125, 174714.	1.2	41
106	De Novo Design of Self-Assembled Hexapeptides as Î²-Amyloid (AÎ²) Peptide Inhibitors. ACS Chemical Neuroscience, 2014, 5, 972-981.	1.7	41
107	HP-Î²-cyclodextrin as an inhibitor of amyloid-Î² aggregation and toxicity. Physical Chemistry Chemical Physics, 2016, 18, 20476-20485.	1.3	41
108	Comparative Molecular Dynamics Study of AÎ² Adsorption on the Self-Assembled Monolayers. Langmuir, 2010, 26, 3308-3316.	1.6	40

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109	Predicting antigenic variants of H1N1 influenza virus based on epidemics and pandemics using a stacking model. PLoS ONE, 2018, 13, e0207777.	1.1	40
110	Alzheimer AÎ²_{1â^'42} Monomer Adsorbed on the Self-Assembled Monolayers. Langmuir, 2010, 26, 12722-12732.	1.6	39
111	Molecular Understanding of AÎ²-hIAPP Cross-Seeding Assemblies on Lipid Membranes. ACS Chemical Neuroscience, 2017, 8, 524-537.	1.7	39
112	HopLand: single-cell pseudotime recovery using continuous Hopfield network-based modeling of Waddingtonâ€™s epigenetic landscape. Bioinformatics, 2017, 33, i102-i109.	1.8	39
113	Fine-Tuning of Fluorinated Thieno[3,4-b]thiophene Copolymer for Efficient Polymer Solar Cells. Journal of Physical Chemistry C, 2013, 117, 4358-4363.	1.5	38
114	Single Mutations in Tau Modulate the Populations of Fibril Conformers through Seed Selection. Angewandte Chemie - International Edition, 2014, 53, 1590-1593.	7.2	38
115	Polymorphic cross-seeding amyloid assemblies of amyloid-Î² and human islet amyloid polypeptide. Physical Chemistry Chemical Physics, 2015, 17, 23245-23256.	1.3	38
116	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
117	Suppressing Ge-vacancies to achieve high single-leg efficiency in GeTe with an ultra-high room temperature power factor. Journal of Materials Chemistry A, 2021, 9, 23335-23344.	5.2	38
118	Structure by design: from single proteins and their building blocks to nanostructures. Trends in Biotechnology, 2006, 24, 449-454.	4.9	37
119	Nanostructure Design Using Protein Building Blocks Enhanced by Conformationally Constrained Synthetic Residuesâ€. Biochemistry, 2007, 46, 1205-1218.	1.2	37
120	Antifouling and biodegradable poly(N-hydroxyethyl acrylamide) (polyHEAA)-based nanogels. RSC Advances, 2013, 3, 19991.	1.7	37
121	ARG-walker: inference of individual specific strengths of meiotic recombination hotspots by population genomics analysis. BMC Genomics, 2015, 16, S1.	1.2	37
122	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
123	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
124	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
125	Sequencing of 15Â622 geneâ€bearing BAC s clarifies the geneâ€dense regions of the barley genome. Plant Journal, 2015, 84, 216-227.	2.8	36
126	Therapeutic targeting of the mitochondrial one-carbon pathway: perspectives, pitfalls, and potential. Oncogene, 2021, 40, 2339-2354.	2.6	36

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127	Molecular insights into the reversible formation of tau protein fibrils. Chemical Communications, 2013, 49, 3582.	2.2	34
128	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
129	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
130	Designing a Nanotube Using Naturally Occurring Protein Building Blocks. PLoS Computational Biology, 2006, 2, e42.	1.5	33
131	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
132	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
133	Molecular Modeling of Two Distinct Triangular Oligomers in Amyloid Î²-protein. Journal of Physical Chemistry B, 2010, 114, 463-470.	1.2	32
134	Structural analysis of the novel influenza A (H7N9) viral Neuraminidase interactions with current approved neuraminidase inhibitors Oseltamivir, Zanamivir, and Peramivir in the presence of mutation R289K. BMC Bioinformatics, 2013, 14, S7.	1.2	32
135	SL²MF: Predicting Synthetic Lethality in Human Cancers via Logistic Matrix Factorization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 748-757.	1.9	32
136	Synthesis and Characterization of Ultralow Fouling Poly(N-acryloyl-glycinamide) Brushes. Langmuir, 2017, 33, 13964-13972.	1.6	31
137	KG4SL: knowledge graph neural network for synthetic lethality prediction in human cancers. Bioinformatics, 2021, 37, i418-i425.	1.8	31
138	Enhanced Performance of Polymer Solar Cells using PEDOT:PSS Doped with Fe₃O₄ Magnetic Nanoparticles Aligned by an External Magnetostatic Field as an Anode Buffer Layer. ACS Applied Materials & Interfaces, 2014, 6, 13201-13208.	4.0	30
139	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
140	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
141	Mimicking the binding and unbinding of Fe3+ with transferrin using a single biomimetic nanochannel. Chemical Communications, 2013, 49, 9317.	2.2	28
142	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
143	Interfacial interaction and lateral association of cross-seeding assemblies between hIAPP and rIAPP oligomers. Physical Chemistry Chemical Physics, 2015, 17, 10373-10382.	1.3	27
144	How Does Hyperphopsphorylation Promote Tau Aggregation and Modulate Filament Structure and Stability?. ACS Chemical Neuroscience, 2016, 7, 565-575.	1.7	27

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145	Grafting zwitterionic polymer onto cryogel surface enhances protein retention in steric exclusion chromatography on cryogel monolith. Journal of Chromatography A, 2015, 1389, 104-111.	1.8	26
146	The Max-Min High-Order Dynamic Bayesian Network for Learning Gene Regulatory Networks with Time-Delayed Regulations. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2016, 13, 792-803.	1.9	25
147	Promotional effect of Ti doping on the ketonization of acetic acid over a CeO₂ catalyst. RSC Advances, 2017, 7, 22017-22026.	1.7	25
148	Seed-Induced Heterogeneous Cross-Seeding Self-Assembly of Human and Rat Islet Polypeptides. ACS Omega, 2017, 2, 784-792.	1.6	25
149	Molecular Simulations of Amyloid Structures, Toxicity, and Inhibition. Israel Journal of Chemistry, 2017, 57, 586-601.	1.0	25
150	Emerging deep learning methods for singleâ€cell RNAâ€seq data analysis. Quantitative Biology, 2019, 7, 247-254.	0.3	25
151	Graph contextualized attention network for predicting synthetic lethality in human cancers. Bioinformatics, 2021, 37, 2432-2440.	1.8	25
152	Branched NaYF₄:Yb, Er Up-Conversion Phosphors with Luminescent Properties for Anti-Counterfeiting Application. Science of Advanced Materials, 2017, 9, 2223-2233.	0.1	25
153	Water-soluble CdTe quantum dots as an anode interlayer for solution-processed near infrared polymer photodetectors. Nanoscale, 2013, 5, 12474.	2.8	24
154	In Silico Prediction of Synthetic Lethality by Meta-Analysis of Genetic Interactions, Functions, and Pathways in Yeast and Human Cancer. Cancer Informatics, 2014, 13s3, CIN.S14026.	0.9	24
155	Genome-wide analysis in Plasmodium falciparum reveals early and late phases of RNA polymerase II occupancy during the infectious cycle. BMC Genomics, 2014, 15, 959.	1.2	24
156	Predicting essential genes and synthetic lethality via influence propagation in signaling pathways of cancer cell fates. Journal of Bioinformatics and Computational Biology, 2015, 13, 1541002.	0.3	24
157	Temperatureâ€Selective Dual Radical Generation from Alkyl Diiodide: Applications to Synthesis of Asymmetric CABC Multiâ€Block Copolymers and Their Unique Assembly Structures. Angewandte Chemie - International Edition, 2018, 57, 1552-1556.	7.2	24
158	Structural Determination of AÎ²25â€“35 Micelles by Molecular Dynamics Simulations. Biophysical Journal, 2010, 99, 666-674.	0.2	23
159	Detecting sequence polymorphisms associated with meiotic recombination hotspots in the human genome. Genome Biology, 2010, 11, R103.	3.8	23
160	Graphene cryogel-based counter electrode materials freeze-dried using different solution media for dye-sensitized solar cells. Chemical Engineering Journal, 2017, 319, 155-162.	6.6	23
161	Halogen bonding regulated functional nanomaterials. Nanoscale Advances, 2021, 3, 6342-6357.	2.2	23
162	Efficient selection of unique and popular oligos for large EST databases. Bioinformatics, 2004, 20, 2101-2112.	1.8	22

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