

# Jie Zheng

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7921828/jie-zheng-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

253  
papers

13,948  
citations

64  
h-index

109  
g-index

261  
ext. papers

16,287  
ext. citations

6.8  
avg, IF

6.82  
L-index

#	Paper	IF	Citations
253	Effect of External Magnetic Field on Bulk Heterojunction Polymer Solar Cells.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2100933	4.8	
252	Origins of the Photocurrent Multiplication Effect in the Polythiophene-based Photodetectors.. <i>Macromolecular Rapid Communications</i> , <b>2022</b> , e2100928	4.8	
251	Stable and efficient perovskite solar cells by discrete two-dimensional perovskites capped on the three-dimensional perovskites bilayer thin film. <i>Nano Energy</i> , <b>2022</b> , 96, 107126	17.1	2
250	Mechanically Strong Metal-Organic Framework Nanoparticle-Based Double Network Hydrogels for Fluorescence Imaging. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 1348-1355	5.6	0
249	Cross-seeding between Aβ and SEVI indicates a pathogenic link and gender difference between alzheimer diseases and AIDS.. <i>Communications Biology</i> , <b>2022</b> , 5, 417	6.7	2
248	A mechanistic survey of Alzheimer's disease. <i>Biophysical Chemistry</i> , <b>2021</b> , 281, 106735	3.5	2
247	A new strategy to reconcile amyloid cross-seeding and amyloid prevention in a binary system of β-synuclein fragmental peptide and hIAPP. <i>Protein Science</i> , <b>2021</b> ,	6.3	1
246	Solution-processed bulk heterojunction broadband photodetectors based on perovskites incorporated with PbSe quantum dots. <i>Organic Electronics</i> , <b>2021</b> , 106410	3.5	0
245	Fundamentals and exploration of aggregation-induced emission molecules for amyloid protein aggregation. <i>Journal of Materials Chemistry B</i> , <b>2021</b> ,	7.3	3
244	Two-/Three-Dimensional Perovskite Bilayer Thin Films Post-Treated with Solvent Vapor for High-Performance Perovskite Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 49104-49113	9.5	5
243	Tough, adhesive, self-healing, fully physical crosslinked ECG-K+/pHEAA double-network ionic conductive hydrogels for wearable sensors. <i>Polymer</i> , <b>2021</b> , 124321	3.9	2
242	A multiscale polymerization framework towards network structure and fracture of double-network hydrogels. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	5
241	Design and Engineering of Amyloid Aggregation-Prone Fragments and Their Antimicrobial Conjugates with Multi-Target Functionality. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102978	15.6	8
240	Solid-State Double-Network Hydrogel Redox Electrolytes for High-Performance Flexible Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34168-34177	9.5	2
239	Power Generation from Moisture Fluctuations Using Polyvinyl Alcohol-Wrapped Dopamine/Polyvinylidene Difluoride Nanofibers. <i>Small</i> , <b>2021</b> , 17, e2102550	11	4
238	Biophysical processes underlying cross-seeding in amyloid aggregation and implications in amyloid pathology. <i>Biophysical Chemistry</i> , <b>2021</b> , 269, 106507	3.5	46
237	NQO1 promotes an aggressive phenotype in hepatocellular carcinoma via amplifying ERK-NRF2 signaling. <i>Cancer Science</i> , <b>2021</b> , 112, 641-654	6.9	4

236	Amyloid cross-seeding between A $\beta$ and IAPP in relation to the pathogenesis of Alzheimer and type 2 diabetes. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 30, 225-235	3.2	4
235	Antimicrobial Defensins as multi-target inhibitors against amyloid formation and microbial infection. <i>Chemical Science</i> , <b>2021</b> , 12, 9124-9139	9.4	9
234	Agar/carbon dot crosslinked polyacrylamide double-network hydrogels with robustness, self-healing, and stimulus-response fluorescence for smart anti-counterfeiting. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 5418-5428	7.8	12
233	Current Research Trends and Perspectives on Solid-State Nanomaterials in Hydrogen Storage. <i>Research</i> , <b>2021</b> , 2021, 3750689	7.8	9
232	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimer Disease, Parkinson Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2545-2647	68.1	128
231	Machine Learning-Enabled Design and Prediction of Protein Resistance on Self-Assembled Monolayers and Beyond. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11306-11319	9.5	4
230	Repurposing a Cardiovascular Disease Drug of Cloridarol as IAPP Inhibitor. <i>ACS Chemical Neuroscience</i> , <b>2021</b> , 12, 1419-1427	5.7	3
229	The Translational Application of Hydrogel for Organoid Technology: Challenges and Future Perspectives. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100191	5.5	2
228	Design and Engineering of Amyloid Aggregation-Prone Fragments and Their Antimicrobial Conjugates with Multi-Target Functionality (Adv. Funct. Mater. 32/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170236	15.6	
227	Machine Learning-Enabled Repurposing and Design of Antifouling Polymer Brushes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129872	14.7	5
226	A negative piezo-conductive effect from doped semiconducting polymer thin films. <i>Scientific Reports</i> , <b>2021</b> , 11, 18222	4.9	2
225	A General Crosslinker Strategy to Realize Intrinsic Frozen Resistance of Hydrogels. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104006	24	25
224	Dual amyloid cross-seeding reveals steric zipper-facilitated fibrillization and pathological links between protein misfolding diseases. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 3300-3316	7.3	6
223	Mussel-Inspired Surface Immobilization of Heparin on Magnetic Nanoparticles for Enhanced Wound Repair via Sustained Release of a Growth Factor and M2 Macrophage Polarization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2230-2244	9.5	15
222	A General Protein Unfolding-Chemical Coupling Strategy for Pure Protein Hydrogels with Mechanically Strong and Multifunctional Properties.. <i>Advanced Science</i> , <b>2021</b> , e2102557	13.6	6
221	Novel Quasi-2D Perovskites for Stable and Efficient Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51744-51755	9.5	17
220	Micro- and macroscopically structured zwitterionic polymers with ultralow fouling property. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 578, 242-253	9.3	19
219	Acoustic signal analysis for detecting defects inside an arc magnet using a combination of variational mode decomposition and beetle antennae search. <i>ISA Transactions</i> , <b>2020</b> , 102, 347-364	5.5	18

218	Molecular simulations and understanding of antifouling zwitterionic polymer brushes. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 3814-3828	7.3	32
217	Computational Investigation of Antifouling Property of Polyacrylamide Brushes. <i>Langmuir</i> , <b>2020</b> , 36, 2757-2766	4	16
216	Lanthanide-Doped Upconversion Nanoparticle-Cross-Linked Double-Network Hydrogels with Strong Bulk/Interfacial Toughness and Tunable Full-Color Fluorescence for Bioimaging and Biosensing. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 2774-2786	5.6	14
215	General Aggregation-Induced Emission Probes for Amyloid Inhibitors with Dual Inhibition Capacity against Amyloid $\beta$ Protein and $\beta$ Synuclein. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31182-31194	9.5	14
214	From design to applications of stimuli-responsive hydrogel strain sensors. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 3171-3191	7.3	72
213	Highly Aligned Electrospun Collagen/Polycaprolactone Surgical Sutures with Sustained Release of Growth Factors for Wound Regeneration.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 965-976	4.1	22
212	Ginnalin A Inhibits Aggregation, Reverses Fibrillogenesis, and Alleviates Cytotoxicity of Amyloid $\beta$ (1-42). <i>ACS Chemical Neuroscience</i> , <b>2020</b> , 11, 638-647	5.7	22
211	Design principles and fundamental understanding of biosensors for amyloid- $\beta$ detection. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 6179-6196	7.3	17
210	Multiple Physical Bonds to Realize Highly Tough and Self-Adhesive Double-Network Hydrogels. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 1031-1042	4.3	21
209	Highly Water-Preserving Zwitterionic Betaine-Incorporated Collagen Sponges With Anti-oxidation and Anti-inflammation for Wound Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 491	5.7	9
208	Introduction and Fundamentals of Human Islet Amyloid Polypeptide Inhibitors.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 8286-8308	4.1	6
207	All-Solid-State Asymmetric Supercapacitors with Novel Ionic Liquid Gel Electrolytes. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 3906-3914	4	5
206	Molecular Dynamics Simulations of Cholesterol Effects on the Interaction of hIAPP with Lipid Bilayer. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 7830-7841	3.4	7
205	Surface Enriched Sulfonic Acid Ionic Clusters of Nafion Nanofibers as Long-Range Interconnected Ionic Nanochannels for Anisotropic Proton Transportation: Phenomenon and Molecular Mechanism. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000342	4.6	3
204	A Universal Coating Strategy for Controllable Functionalized Polymer Surfaces. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004633	15.6	19
203	Highly stretchable, self-adhesive, biocompatible, conductive hydrogels as fully polymeric strain sensors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20474-20485	13	62
202	Aromadendrin: a dual amyloid promoter to accelerate fibrillization and reduce cytotoxicity of both amyloid- $\beta$ and hIAPP. <i>Materials Advances</i> , <b>2020</b> , 1, 1241-1252	3.3	6
201	Surface Zwitterionization of Expanded Poly(tetrafluoroethylene) via Dopamine-Assisted Consecutive Immersion Coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41000-41010	9.5	7

200	Design of high conductive and piezoelectric poly (3,4-ethylenedioxythiophene)/chitosan nanofibers for enhancing cellular electrical stimulation. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 559, 65-75	9.3	25
199	Discovery of a novel native bacterium of Providencia sp. with high biosorption and oxidation ability of manganese for bioleaching of heavy metal contaminated soils. <i>Chemosphere</i> , <b>2020</b> , 241, 125039	8.4	28
198	Core/Shell Piezoelectric Nanofibers with Spatial Self-Orientated $\beta$ Phase Nanocrystals for Real-Time Micropressure Monitoring of Cardiovascular Walls. <i>ACS Nano</i> , <b>2019</b> , 13, 10062-10073	16.7	38
197	Solution-Processed Ultrahigh Detectivity Photodetectors by Hybrid Perovskite Incorporated with Heterovalent Neodymium Cations. <i>ACS Omega</i> , <b>2019</b> , 4, 15873-15878	3.9	10
196	Importance of Polyacrylamide Hydrogel Diverse Chains and Cross-Linking Density for Cell Proliferation, Aging, and Death. <i>Langmuir</i> , <b>2019</b> , 35, 13999-14006	4	4
195	Zwitterionic poly(sulfobetaine methacrylate) hydrogels with optimal mechanical properties for improving wound healing in vivo. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 1697-1707	7.3	49
194	Seeding and Cross-Seeding Aggregations of A $\beta$ and Its N-Terminal-Truncated Peptide A $\beta$ <i>Langmuir</i> , <b>2019</b> , 35, 2821-2831	4	8
193	Design of novel lanthanide-doped core-shell nanocrystals with dual up-conversion and down-conversion luminescence for anti-counterfeiting printing. <i>Dalton Transactions</i> , <b>2019</b> , 48, 6971-6983	4.3	79
192	LVFFARK conjugation to poly (carboxybetaine methacrylate) remarkably enhances its inhibitory potency on amyloid $\beta$ protein fibrillogenesis. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 140, 72-81	4.6	7
191	Dual-stimulus bilayer hydrogel actuators with rapid, reversible, bidirectional bending behaviors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4970-4980	7.1	52
190	Molecular Dynamics Simulation of the Effect of Carbon Space Lengths on the Antifouling Properties of Hydroxyalkyl Acrylamides. <i>Langmuir</i> , <b>2019</b> , 35, 3576-3584	4	12
189	Simple Thermal Pretreatment Strategy to Tune Mechanical and Antifouling Properties of Zwitterionic Hydrogels. <i>Langmuir</i> , <b>2019</b> , 35, 1828-1836	4	17
188	Design of salt-responsive and regenerative antibacterial polymer brushes with integrated bacterial resistance, killing, and release properties. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5762-5774	7.3	30
187	All-Solid-State Asymmetric Supercapacitors with Metal Selenides Electrodes and Ionic Conductive Composites Electrolytes. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904182	15.6	24
186	Magnetic Janus particles as a multifunctional drug delivery system for paclitaxel in efficient cancer treatment. <i>Materials Science and Engineering C</i> , <b>2019</b> , 104, 110001	8.3	21
185	Upconversion Nanoparticles@Carbon Dots@Meso-SiO <sub>2</sub> Sandwiched Core-Shell Nanohybrids with Tunable Dual-Mode Luminescence for 3D Anti-Counterfeiting Barcodes. <i>Langmuir</i> , <b>2019</b> , 35, 11503-11514	4	62
184	Fundamentals and applications of zwitterionic antifouling polymers. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 403001	3	48
183	Design of core/active-shell NaYF <sub>4</sub> :Ln <sup>3+</sup> @NaYF <sub>4</sub> :Yb <sup>3+</sup> nanophosphors with enhanced red-green-blue upconversion luminescence for anti-counterfeiting printing. <i>Composites Part B: Engineering</i> , <b>2019</b> , 179, 107504	10	34

182	Graphene Nanofibrous Foam Designed as an Efficient Oil Absorbent. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 3000-3008	3.9	16
181	Multiple Physical Cross-Linker Strategy To Achieve Mechanically Tough and Reversible Properties of Double-Network Hydrogels in Bulk and on Surfaces. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 701-713	4.3	22
180	A zwitterionic polymer as an interfacial layer for efficient and stable perovskite solar cells.. <i>RSC Advances</i> , <b>2019</b> , 9, 30317-30324	3.7	10
179	Healing kinetics of diabetic wounds controlled with charge-biased hydrogel dressings. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 7184-7194	7.3	8
178	Double-Network Physical Cross-Linking Strategy To Promote Bulk Mechanical and Surface Adhesive Properties of Hydrogels. <i>Macromolecules</i> , <b>2019</b> , 52, 9512-9525	5.5	30
177	Fundamentals of cross-seeding of amyloid proteins: an introduction. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 7267-7282	7.3	52
176	A Nondestructive Surface Zwitterionization of Polydimethylsiloxane for the Improved Human Blood-inert Properties.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 39-48	4.1	8
175	Lipase-catalyzed synthesis mechanism of tri-acetylated phloridzin and its antiproliferative activity against HepG2 cancer cells. <i>Food Chemistry</i> , <b>2019</b> , 277, 186-194	8.5	19
174	General Principle for Fabricating Natural Globular Protein-Based Double-Network Hydrogels with Integrated Highly Mechanical Properties and Surface Adhesion on Solid Surfaces. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 179-189	9.6	68
173	Head-to-tail cyclization of a heptapeptide eliminates its cytotoxicity and significantly increases its inhibition effect on amyloid $\beta$ protein fibrillation and cytotoxicity. <i>Frontiers of Chemical Science and Engineering</i> , <b>2018</b> , 12, 283-295	4.5	8
172	Role of Protein Charge Density on Hepatitis B Virus Capsid Formation. <i>ACS Omega</i> , <b>2018</b> , 3, 4384-4391	3.9	4
171	Highly efficient production of functional recombinant human fibroblast growth factor 22 in E. coli and its protective effects on HO-lesioned L02 cells. <i>Protein Expression and Purification</i> , <b>2018</b> , 152, 114-121	12.1	1
170	Salt-responsive zwitterionic polymer brushes with anti-polyelectrolyte property. <i>Current Opinion in Chemical Engineering</i> , <b>2018</b> , 19, 86-93	5.4	53
169	Molecular simulation aspects of amyloid peptides at membrane interface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 1906-1916	3.8	23
168	General Strategy To Fabricate Strong and Tough Low-Molecular-Weight Gelator-Based Supramolecular Hydrogels with Double Network Structure. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1743-1754	9.6	60
167	Genistein: A Dual Inhibitor of Both Amyloid $\beta$ and Human Islet Amylin Peptides. <i>ACS Chemical Neuroscience</i> , <b>2018</b> , 9, 1215-1224	5.7	59
166	Ac-LVFFARK-NH conjugation to $\beta$ -cyclodextrin exhibits significantly enhanced performance on inhibiting amyloid $\beta$ protein fibrillogenesis and cytotoxicity. <i>Biophysical Chemistry</i> , <b>2018</b> , 235, 40-47	3.5	29
165	Structural Dependence of Salt-Responsive Polyzwitterionic Brushes with an Anti-Polyelectrolyte Effect. <i>Langmuir</i> , <b>2018</b> , 34, 97-105	4	51

164	Design of nonapeptide LVFFARKHH: A bifunctional agent against Cu <sup>2+</sup> -mediated amyloid $\beta$ protein aggregation and cytotoxicity. <i>Journal of Molecular Recognition</i> , <b>2018</b> , 31, e2697	2.6	16
163	Integration of antifouling and antibacterial properties in salt-responsive hydrogels with surface regeneration capacity. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 950-960	7.3	64
162	Neurogenic differentiation of adipose derived stem cells on graphene-based mat. <i>Materials Science and Engineering C</i> , <b>2018</b> , 90, 685-692	8.3	27
161	Sulfated zwitterionic poly(sulfobetaine methacrylate) hydrogels promote complete skin regeneration. <i>Acta Biomaterialia</i> , <b>2018</b> , 71, 293-305	10.8	70
160	Solution-processed broadband polymer photodetectors with a spectral response of up to 2.5 $\mu$ m by a low bandgap donor-acceptor conjugated copolymer. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3634-3641	7.1	48
159	Ultrasensitive Perovskite Photodetectors by Co Partially Substituted Hybrid Perovskite. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 12055-12060	8.3	12
158	Pure OPM nanofibers with high piezoelectricity designed for energy harvesting in vitro and in vivo. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 5343-5352	7.3	10
157	Experimental and Computational Protocols for Studies of Cross-Seeding Amyloid Assemblies. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1777, 429-447	1.4	5
156	Dual Salt- and Thermo-responsive Programmable Bilayer Hydrogel Actuators with Pseudo-Interpenetrating Double-Network Structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21642-21653	9.5	92
155	Tanshinones inhibit hIAPP aggregation, disaggregate preformed hIAPP fibrils, and protect cultured cells. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 56-67	7.3	43
154	Large-Scale Expression, Purification of Bioactive Recombinant Human FGF6 in E. coli and the Mechanisms of Its Myocardial Protection. <i>International Journal of Peptide Research and Therapeutics</i> , <b>2018</b> , 24, 105-115	2.1	1
153	Mechanically tough and recoverable hydrogels via dual physical crosslinkings. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2018</b> , 56, 1294-1305	2.6	14
152	Micellar-incorporated hydrogels with highly tough, mechanoresponsive, and self-recovery properties for strain-induced color sensors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11536-11551	7.1	28
151	Molecular Recognition between A $\beta$ -specific Single-Domain Antibody and A $\beta$ -Misfolded Aggregates. <i>Antibodies</i> , <b>2018</b> , 7,	7	7
150	A new nanoscale transdermal drug delivery system: oil body-linked oleosin-hEGF improves skin regeneration to accelerate wound healing. <i>Journal of Nanobiotechnology</i> , <b>2018</b> , 16, 62	9.4	10
149	Design of a Molecular Hybrid of Dual Peptide Inhibitors Coupled on AuNPs for Enhanced Inhibition of Amyloid $\beta$ Protein Aggregation and Cytotoxicity. <i>Small</i> , <b>2017</b> , 13, 1601666	11	61
148	Identification of a New Function of Cardiovascular Disease Drug 3-Morpholinopyridone Hydrochloride as an Amyloid- $\beta$ Aggregation Inhibitor. <i>ACS Omega</i> , <b>2017</b> , 2, 243-250	3.9	9
147	Promotional effect of Ti doping on the ketonization of acetic acid over a CeO <sub>2</sub> catalyst. <i>RSC Advances</i> , <b>2017</b> , 7, 22017-22026	3.7	19

146	Importance of zwitterionic incorporation into polymethacrylate-based hydrogels for simultaneously improving optical transparency, oxygen permeability, and antifouling properties. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 4595-4606	7.3	24
145	A Protocol for the Design of Protein and Peptide Nanostructure Self-Assemblies Exploiting Synthetic Amino Acids. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1529, 323-352	1.4	0
144	Salt-Responsive Bilayer Hydrogels with Pseudo-Double-Network Structure Actuated by Polyelectrolyte and Antipolyelectrolyte Effects. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20843-20851	9.5	84
143	Membrane Interactions of hIAPP Monomer and Oligomer with Lipid Membranes by Molecular Dynamics Simulations. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 1789-1800	5.7	31
142	Hydrogels: A Novel Design of Multi-Mechanoresponsive and Mechanically Strong Hydrogels (Adv. Mater. 21/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	2
141	Seed-Induced Heterogeneous Cross-Seeding Self-Assembly of Human and Rat Islet Polypeptides. <i>ACS Omega</i> , <b>2017</b> , 2, 784-792	3.9	18
140	A Novel Design of Multi-Mechanoresponsive and Mechanically Strong Hydrogels. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606900	24	156
139	Dual physically crosslinked double network hydrogels with high toughness and self-healing properties. <i>Soft Matter</i> , <b>2017</b> , 13, 911-920	3.6	76
138	Comparative Study of Graphene Hydrogels and Aerogels Reveals the Important Role of Buried Water in Pollutant Adsorption. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 12283-12292	10.3	87
137	Super Bulk and Interfacial Toughness of Physically Crosslinked Double-Network Hydrogels. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703086	15.6	126
136	The energy dissipation and Mullins effect of tough polymer/graphene oxide hybrid nanocomposite hydrogels. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 4659-4672	4.9	38
135	Release of Cytochrome C from Bax Pores at the Mitochondrial Membrane. <i>Scientific Reports</i> , <b>2017</b> , 7, 2635	4.9	67
134	High strength and self-healable gelatin/polyacrylamide double network hydrogels. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 7683-7691	7.3	105
133	Synthesis and Characterization of Ultralow Fouling Poly(N-acryloyl-glycinamide) Brushes. <i>Langmuir</i> , <b>2017</b> , 33, 13964-13972	4	26
132	Iminodiacetic acid-conjugated nanoparticles as a bifunctional modulator against Zn-mediated amyloid $\beta$ protein aggregation and cytotoxicity. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 505, 973-982	9.3	26
131	Molecular Simulations of Amyloid Structures, Toxicity, and Inhibition. <i>Israel Journal of Chemistry</i> , <b>2017</b> , 57, 586-601	3.4	24
130	Molecular Understanding of A $\beta$ hIAPP Cross-Seeding Assemblies on Lipid Membranes. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 524-537	5.7	31
129	Branched NaYF <sub>4</sub> :Yb, Er Up-Conversion Phosphors with Luminescent Properties for Anti-Counterfeiting Application. <i>Science of Advanced Materials</i> , <b>2017</b> , 9, 2223-2233	2.3	16



128	A computational study of self-assembled hexapeptide inhibitors against amyloid- $\beta$ aggregation. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 19, 155-166	3.6	12
127	A comparative study of the mechanical properties of hybrid double-network hydrogels in swollen and as-prepared states. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 5814-5824	7.3	44
126	Highly electrically conductive polyethylenedioxythiophene thin films for thermoelectric applications. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12730-12738	13	14
125	Oncogenic Mutations Differentially Affect Bax Monomer, Dimer, and Oligomeric Pore Formation in the Membrane. <i>Scientific Reports</i> , <b>2016</b> , 6, 33340	4.9	10
124	Alginate/graphene double-network nanocomposite hydrogel beads with low-swelling, enhanced mechanical properties, and enhanced adsorption capacity. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10885-10892	13	170
123	HP- $\beta$ -cyclodextrin as an inhibitor of amyloid- $\beta$ aggregation and toxicity. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 20476-85	3.6	34
122	Adsorption removal of ciprofloxacin by multi-walled carbon nanotubes with different oxygen contents from aqueous solutions. <i>Chemical Engineering Journal</i> , <b>2016</b> , 285, 588-595	14.7	178
121	Molecular Understanding and Structural-Based Design of Polyacrylamides and Polyacrylates as Antifouling Materials. <i>Langmuir</i> , <b>2016</b> , 32, 3315-30	4	74
120	Magnetic iron oxide nanoparticles functionalized multi-walled carbon nanotubes for toluene, ethylbenzene and xylene removal from aqueous solution. <i>Chemosphere</i> , <b>2016</b> , 146, 162-72	8.4	70
119	Hemocompatible interface control via thermal-activated bio-inspired surface PEGylation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2016</b> , 65, 409-420	3	4
118	Improvement of performance of a Au/Cu/AC catalyst using thiol for acetylene hydrochlorination reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 3806-3814	3.7	11
117	High production in E. coli of biologically active recombinant human fibroblast growth factor 20 and its neuroprotective effects. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 3023-34	5.7	11
116	Hemocompatible biomaterials of zwitterionic sulfobetaine hydrogels regulated with pH-responsive DMAEMA random sequences. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2016</b> , 65, 65-74	3	16
115	Engineering of Tough Double Network Hydrogels. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 1022-1036	2.6	95
114	Comparative Study of Heparin-Poloxamer Hydrogel Modified bFGF and aFGF for in Vivo Wound Healing Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18710-21	9.5	97
113	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. <i>Acta Biomaterialia</i> , <b>2016</b> , 40, 62-69	10.8	64
112	Heparin-Based Coacervate of FGF2 Improves Dermal Regeneration by Asserting a Synergistic Role with Cell Proliferation and Endogenous Facilitated VEGF for Cutaneous Wound Healing. <i>Biomacromolecules</i> , <b>2016</b> , 17, 2168-77	6.9	72
111	How Does Hyperphosphorylation Promote Tau Aggregation and Modulate Filament Structure and Stability?. <i>ACS Chemical Neuroscience</i> , <b>2016</b> , 7, 565-75	5.7	23

110	Zwitterionic Modifications for Enhancing the Antifouling Properties of Poly(vinylidene fluoride) Membranes. <i>Langmuir</i> , <b>2016</b> , 32, 4113-24	4	37
109	Improvement of Mechanical Strength and Fatigue Resistance of Double Network Hydrogels by Ionic Coordination Interactions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5710-5720	9.6	176
108	PEGylated Poly(3-hydroxybutyrate) Scaffold for Hydration-Driven Cell Infiltration, Neo-Tissue Ingrowth, and Osteogenic Potential. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2015</b> , 64, 865-878	3	2
107	Salt-Responsive Zwitterionic Polymer Brushes with Tunable Friction and Antifouling Properties. <i>Langmuir</i> , <b>2015</b> , 31, 9125-33	4	119
106	An Investigation on the Fundamental Interaction between Abeta Peptides and the AT-Rich DNA. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 8247-59	3.4	1
105	Polymorphic Associations and Structures of the Cross-Seeding of A $\beta$ -42 and hIAPP1-37 Polypeptides. <i>Journal of Chemical Information and Modeling</i> , <b>2015</b> , 55, 1628-39	6.1	22
104	Interfacial interaction and lateral association of cross-seeding assemblies between hIAPP and rIAPP oligomers. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 10373-82	3.6	22
103	Mechanically strong hybrid double network hydrogels with antifouling properties. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5426-5435	7.3	66
102	Design of LVFFARK and LVFFARK-functionalized nanoparticles for inhibiting amyloid $\beta$ protein fibrillation and cytotoxicity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5650-62	9.5	115
101	Tabersonine inhibits amyloid fibril formation and cytotoxicity of A $\beta$ (1-42). <i>ACS Chemical Neuroscience</i> , <b>2015</b> , 6, 879-88	5.7	46
100	Enhanced Thermoelectric Properties of Poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) by Binary Secondary Dopants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8984-9	9.5	70
99	Fundamentals of double network hydrogels. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 3654-3676	7.3	329
98	Grafting zwitterionic polymer onto cryogel surface enhances protein retention in steric exclusion chromatography on cryogel monolith. <i>Journal of Chromatography A</i> , <b>2015</b> , 1389, 104-11	4.5	20
97	A quantitative sequence aggregation relationship predictor applied as identification of self-assembled hexapeptides. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2015</b> , 145, 7-16	3.8	7
96	Simultaneous Enhancement of Stiffness and Toughness in Hybrid Double-Network Hydrogels via the First, Physically Linked Network. <i>Macromolecules</i> , <b>2015</b> , 48, 8003-8010	5.5	100
95	Corrosion inhibition of mild steel by an imidazolium ionic liquid compound: the effect of pH and surface pre-corrosion. <i>RSC Advances</i> , <b>2015</b> , 5, 95160-95170	3.7	25
94	Cross-Seeding Interaction between $\beta$ Amyloid and Human Islet Amyloid Polypeptide. <i>ACS Chemical Neuroscience</i> , <b>2015</b> , 6, 1759-68	5.7	56
93	Ca(2+) Interacts with Glu-22 of A $\beta$ (1-42) and Phospholipid Bilayers to Accelerate the A $\beta$ (1-42) Aggregation Below the Critical Micelle Concentration. <i>Biochemistry</i> , <b>2015</b> , 54, 6323-32	3.2	12

92	Polymorphic cross-seeding amyloid assemblies of amyloid- $\beta$ and human islet amyloid polypeptide. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23245-56	3.6	29
91	Efficient polymer solar cells fabricated from solvent processing additive solution. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 26-32	7.1	15
90	Water-enhanced Removal of Ciprofloxacin from Water by Porous Graphene Hydrogel. <i>Scientific Reports</i> , <b>2015</b> , 5, 13578	4.9	112
89	Design of hemocompatible poly(DMAEMA-co-PEGMA) hydrogels for controlled release of insulin. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	8
88	Structure-thermodynamics-antioxidant activity relationships of selected natural phenolic acids and derivatives: an experimental and theoretical evaluation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121276	3.7	93
87	Bulk heterojunction perovskite hybrid solar cells with large fill factor. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1245-1255	35.4	223
86	A Novel Design Strategy for Fully Physically Linked Double Network Hydrogels with Tough, Fatigue Resistant, and Self-Healing Properties. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1598-1607	15.6	411
85	Probing the weak interaction of proteins with neutral and zwitterionic antifouling polymers. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 751-60	10.8	56
84	Insights into the adsorption of simple benzene derivatives on carbon nanotubes. <i>RSC Advances</i> , <b>2014</b> , 4, 58036-58046	3.7	17
83	Molecular understanding of a potential functional link between antimicrobial and amyloid peptides. <i>Soft Matter</i> , <b>2014</b> , 10, 7425-51	3.6	73
82	Non-selective ion channel activity of polymorphic human islet amyloid polypeptide (amylin) double channels. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2368-77	3.6	31
81	Binding characteristics between polyethylene glycol (PEG) and proteins in aqueous solution. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 2983-2992	7.3	110
80	Cross-sequence interactions between human and rat islet amyloid polypeptides. <i>Langmuir</i> , <b>2014</b> , 30, 5193-201	4	20
79	Synthesis and characterization of antifouling poly(N-acryloylaminoethoxyethanol) with ultralow protein adsorption and cell attachment. <i>Langmuir</i> , <b>2014</b> , 30, 10398-409	4	56
78	Probing the structural dependence of carbon space lengths of poly(N-hydroxyalkyl acrylamide)-based brushes on antifouling performance. <i>Biomacromolecules</i> , <b>2014</b> , 15, 2982-91	6.9	45
77	Surface zwitterionization of titanium for a general bio-inert control of plasma proteins, blood cells, tissue cells, and bacteria. <i>Langmuir</i> , <b>2014</b> , 30, 7502-12	4	66
76	Highly porous ZIF-8 nanocrystals prepared by a surfactant mediated method in aqueous solution with enhanced adsorption kinetics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 14994-9	9.5	69
75	Structural and energetic insight into the cross-seeding amyloid assemblies of human IAPP and rat IAPP. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 7026-36	3.4	29

74	Introducing mixed-charge copolymers as wound dressing biomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9858-70	9.5	59
73	Fracture of the Physically Cross-Linked First Network in Hybrid Double Network Hydrogels. <i>Macromolecules</i> , <b>2014</b> , 47, 2140-2148	5.5	108
72	De novo design of self-assembled hexapeptides as $\beta$ -amyloid (A $\beta$ ) peptide inhibitors. <i>ACS Chemical Neuroscience</i> , <b>2014</b> , 5, 972-81	5.7	37
71	Single mutations in tau modulate the populations of fibril conformers through seed selection. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 1590-3	16.4	33
70	Atomistic characterization of binding modes and affinity of peptide inhibitors to amyloid- $\beta$ protein. <i>Frontiers of Chemical Science and Engineering</i> , <b>2014</b> , 8, 433-444	4.5	12
69	Synthesis and characterization of biocompatible polyurethanes for controlled release of hydrophobic and hydrophilic drugs. <i>Frontiers of Chemical Science and Engineering</i> , <b>2014</b> , 8, 498-510	4.5	14
68	Single Mutations in Tau Modulate the Populations of Fibril Conformers through Seed Selection. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1616-1619	3.6	3
67	Inhibition of amyloid- $\beta$ aggregation in Alzheimer's disease. <i>Current Pharmaceutical Design</i> , <b>2014</b> , 20, 1223-43	3.3	64
66	Probing structure-antifouling activity relationships of polyacrylamides and polyacrylates. <i>Biomaterials</i> , <b>2013</b> , 34, 4714-24	15.6	67
65	Surface zwitterionization of expanded poly(tetrafluoroethylene) membranes via atmospheric plasma-induced polymerization for enhanced skin wound healing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6732-42	9.5	70
64	Antifouling and biodegradable poly(N-hydroxyethyl acrylamide) (polyHEAA)-based nanogels. <i>RSC Advances</i> , <b>2013</b> , 3, 19991	3.7	30
63	Water-soluble CdTe quantum dots as an anode interlayer for solution-processed near infrared polymer photodetectors. <i>Nanoscale</i> , <b>2013</b> , 5, 12474-9	7.7	20
62	Engineering antimicrobial peptides with improved antimicrobial and hemolytic activities. <i>Journal of Chemical Information and Modeling</i> , <b>2013</b> , 53, 3280-96	6.1	66
61	Molecular interactions of Alzheimer amyloid- $\beta$ oligomers with neutral and negatively charged lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 8878-89	3.6	41
60	Mimicking the binding and unbinding of Fe <sup>3+</sup> with transferrin using a single biomimetic nanochannel. <i>Chemical Communications</i> , <b>2013</b> , 49, 9317-9	5.8	24
59	Comparative molecular dynamics study of human islet amyloid polypeptide (IAPP) and rat IAPP oligomers. <i>Biochemistry</i> , <b>2013</b> , 52, 1089-100	3.2	74
58	Molecular insights into the reversible formation of tau protein fibrils. <i>Chemical Communications</i> , <b>2013</b> , 49, 3582-4	5.8	31
57	Tanshinones inhibit amyloid aggregation by amyloid- $\beta$ peptide, disaggregate amyloid fibrils, and protect cultured cells. <i>ACS Chemical Neuroscience</i> , <b>2013</b> , 4, 1004-15	5.7	156

56	A robust, one-pot synthesis of highly mechanical and recoverable double network hydrogels using thermoreversible sol-gel polysaccharide. <i>Advanced Materials</i> , <b>2013</b> , 25, 4171-6	24	485
55	Dual functionality of antimicrobial and antifouling of poly(N-hydroxyethylacrylamide)/salicylate hydrogels. <i>Langmuir</i> , <b>2013</b> , 29, 1517-24	4	82
54	An index for characterization of natural and non-natural amino acids for peptidomimetics. <i>PLoS ONE</i> , <b>2013</b> , 8, e67844	3.7	14
53	Functional polymer thin films designed for antifouling materials and biosensors. <i>Chemical Papers</i> , <b>2012</b> , 66,	1.9	44
52	Conformational basis for asymmetric seeding barrier in filaments of three- and four-repeat tau. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10271-8	16.4	56
51	Cholesterol promotes the interaction of Alzheimer $\beta$ amyloid monomer with lipid bilayer. <i>Journal of Molecular Biology</i> , <b>2012</b> , 421, 561-71	6.5	88
50	Probing ion channel activity of human islet amyloid polypeptide (amylin). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 3121-30	3.8	39
49	Synthesis and characterization of pH-sensitive poly(N-2-hydroxyethyl acrylamide) $\beta$ acrylic acid (poly(HEAA/AA)) nanogels with antifouling protection for controlled release. <i>Soft Matter</i> , <b>2012</b> , 8, 7848	3.6	68
48	Strong resistance of poly (ethylene glycol) based L-tyrosine polyurethanes to protein adsorption and cell adhesion. <i>Polymer International</i> , <b>2012</b> , 61, 616-621	3.3	27
47	Cross-seeding and conformational selection between three- and four-repeat human Tau proteins. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 14950-9	5.4	54
46	Structure, orientation, and surface interaction of Alzheimer amyloid- $\beta$ peptides on the graphite. <i>Langmuir</i> , <b>2012</b> , 28, 6595-605	4	68
45	Molecular dynamics simulations of low-ordered alzheimer $\beta$ amyloid oligomers from dimer to hexamer on self-assembled monolayers. <i>Langmuir</i> , <b>2011</b> , 27, 14876-87	4	52
44	Effect of film thickness on the antifouling performance of poly(hydroxy-functional methacrylates) grafted surfaces. <i>Langmuir</i> , <b>2011</b> , 27, 4906-13	4	173
43	Synthesis and characterization of poly(N-hydroxyethylacrylamide) for long-term antifouling ability. <i>Biomacromolecules</i> , <b>2011</b> , 12, 4071-9	6.9	99
42	Polymorphic structures of Alzheimer $\beta$ amyloid globulomers. <i>PLoS ONE</i> , <b>2011</b> , 6, e20575	3.7	43
41	Structural, morphological, and kinetic studies of $\beta$ amyloid peptide aggregation on self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 15200-10	3.6	85
40	Heterogeneous triangular structures of human islet amyloid polypeptide (amylin) with internal hydrophobic cavity and external wrapping morphology reveal the polymorphic nature of amyloid fibrils. <i>Biomacromolecules</i> , <b>2011</b> , 12, 1781-94	6.9	31
39	Structural polymorphism of human islet amyloid polypeptide (hIAPP) oligomers highlights the importance of interfacial residue interactions. <i>Biomacromolecules</i> , <b>2011</b> , 12, 210-20	6.9	46

38	Atomic-scale simulations confirm that soluble beta-sheet-rich peptide self-assemblies provide amyloid mimics presenting similar conformational properties. <i>Biophysical Journal</i> , <b>2010</b> , 98, 27-36	2.9	15
37	Structural determination of Abeta25-35 micelles by molecular dynamics simulations. <i>Biophysical Journal</i> , <b>2010</b> , 99, 666-74	2.9	21
36	Achieving highly effective nonfouling performance for surface-grafted poly(HPMA) via atom-transfer radical polymerization. <i>Langmuir</i> , <b>2010</b> , 26, 17375-82	4	81
35	Molecular modeling of two distinct triangular oligomers in amyloid beta-protein. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 463-70	3.4	32
34	Alzheimer Abeta(1-42) monomer adsorbed on the self-assembled monolayers. <i>Langmuir</i> , <b>2010</b> , 26, 12722-32	3.8	38
33	Comparative molecular dynamics study of Abeta adsorption on the self-assembled monolayers. <i>Langmuir</i> , <b>2010</b> , 26, 3308-16	4	35
32	A systematic SPR study of human plasma protein adsorption behavior on the controlled surface packing of self-assembled poly(ethylene oxide) triblock copolymer surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 93, 400-8	5.4	13
31	Theoretical study of the interaction pattern and the binding affinity between procaine and DNA bases. <i>Computational and Theoretical Chemistry</i> , <b>2010</b> , 939, 44-52		8
30	Surface hydration: Principles and applications toward low-fouling/nonfouling biomaterials. <i>Polymer</i> , <b>2010</b> , 51, 5283-5293	3.9	1140
29	An NMR investigation on the phase structure and molecular mobility of the novel exfoliated polyethylene/palygorskite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 1363-1371	2.6	8
28	Mutational analysis and allosteric effects in the HIV-1 capsid protein carboxyl-terminal dimerization domain. <i>Biomacromolecules</i> , <b>2009</b> , 10, 390-9	6.9	14
27	New structures help the modeling of toxic amyloidbeta ion channels. <i>Trends in Biochemical Sciences</i> , <b>2008</b> , 33, 91-100	10.3	123
26	Annular structures as intermediates in fibril formation of Alzheimer Abeta17-42. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 6856-65	3.4	68
25	Origin of repulsive force and structure/dynamics of interfacial water in OEG-protein interactions: a molecular simulation study. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 5539-44	3.6	92
24	Beta2-microglobulin amyloid fragment organization and morphology and its comparison to Abeta suggests that amyloid aggregation pathways are sequence specific. <i>Biochemistry</i> , <b>2008</b> , 47, 2497-509	3.2	35
23	Molecular dynamics simulations of Alzheimer Abeta40 elongation and lateral association. <i>Frontiers in Bioscience - Landmark</i> , <b>2008</b> , 13, 3919-30	2.8	17
22	Changing the charge distribution of beta-helical-based nanostructures can provide the conditions for charge transfer. <i>Biophysical Journal</i> , <b>2007</b> , 93, 245-53	2.9	16
21	Models of beta-amyloid ion channels in the membrane suggest that channel formation in the bilayer is a dynamic process. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1938-49	2.9	153

20	Principles of nanostructure design with protein building blocks. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 68, 1-12	4.2	49
19	Stability of tubular structures based on beta-helical proteins: self-assembled versus polymerized nanoconstructs and wild-type versus mutated sequences. <i>Biomacromolecules</i> , <b>2007</b> , 8, 3135-46	6.9	10
18	Modeling the Alzheimer Abeta17-42 fibril architecture: tight intermolecular sheet-sheet association and intramolecular hydrated cavities. <i>Biophysical Journal</i> , <b>2007</b> , 93, 3046-57	2.9	154
17	Nanostructure design using protein building blocks enhanced by conformationally constrained synthetic residues. <i>Biochemistry</i> , <b>2007</b> , 46, 1205-18	3.2	35
16	Structure by design: from single proteins and their building blocks to nanostructures. <i>Trends in Biotechnology</i> , <b>2006</b> , 24, 449-54	15.1	36
15	Molecular simulation studies of the structure of phosphorylcholine self-assembled monolayers. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 174714	3.9	34
14	Designing a nanotube using naturally occurring protein building blocks. <i>PLoS Computational Biology</i> , <b>2006</b> , 2, e42	5	33
13	Concepts and schemes for the re-engineering of physical protein modules: generating nanodevices via targeted replacements with constrained amino acids. <i>Physical Biology</i> , <b>2006</b> , 3, S54-62	3	20
12	Consensus features in amyloid fibrils: sheet-sheet recognition via a (polar or nonpolar) zipper structure. <i>Physical Biology</i> , <b>2006</b> , 3, P1-4	3	42
11	Structural stability and dynamics of an amyloid-forming peptide GNNQQNY from the yeast prion sup-35. <i>Biophysical Journal</i> , <b>2006</b> , 91, 824-33	2.9	122
10	Transport of a liquid water and methanol mixture through carbon nanotubes under a chemical potential gradient. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 214702	3.9	118
9	Protein adsorption on oligo(ethylene glycol)-terminated alkanethiolate self-assembled monolayers: The molecular basis for nonfouling behavior. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 2934-41	3.4	421
8	Strong repulsive forces between protein and oligo (ethylene glycol) self-assembled monolayers: a molecular simulation study. <i>Biophysical Journal</i> , <b>2005</b> , 89, 158-66	2.9	278
7	Strong resistance of phosphorylcholine self-assembled monolayers to protein adsorption: insights into nonfouling properties of zwitterionic materials. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14473-8	16.4	814
6	Molecular Simulation Studies of the Orientation and Conformation of Cytochrome c Adsorbed on Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 17418-17424	3.4	132
5	Molecular simulation study of water interactions with oligo (ethylene glycol)-terminated alkanethiol self-assembled monolayers. <i>Langmuir</i> , <b>2004</b> , 20, 8931-8	4	256
4	Cell multipole method for molecular simulations in bulk and confined systems. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 5347-5355	3.9	11
3	Transport diffusion of liquid water and methanol through membranes. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 808-818	3.9	42

2	Halogen bonding regulated functional nanomaterials. <i>Nanoscale Advances</i> ,	5.1	3
1	Conjugated molecule based 2D perovskites for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> ,	13	2