Raffaele Mezzenga

List of Publications by Year
in descending order

397 papers	25,331 citations	7251 80 h-index	12638 137 g-index
427 all docs	427 docs citations	427 times ranked	24702 citing authors

#	Article	IF	Citations
1	Sustainable technologies for water purification from heavy metals: review and analysis. Chemical Society Reviews, 2019, 48, 463-487.	18.7	967
2	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. Chemical Society Reviews, 2017, 46, 4661-4708.	18.7	670
3	Understanding foods as soft materials. Nature Materials, 2005, 4, 729-740.	13.3	597
4	Understanding amyloid aggregation by statistical analysis of atomic force microscopy images. Nature Nanotechnology, 2010, 5, 423-428.	15.6	526
5	Amyloidâ€"carbon hybrid membranes for universal water purification. Nature Nanotechnology, 2016, 11, 365-371.	15.6	506
6	Amyloid Fibrils as Building Blocks for Natural and Artificial Functional Materials. Advanced Materials, 2016, 28, 6546-6561.	11.1	430
7	Biodegradable nanocomposites of amyloid fibrils and graphene with shape-memory and enzyme-sensing properties. Nature Nanotechnology, 2012, 7, 421-427.	15.6	413
8	Understanding nanocellulose chirality and structureâ€"properties relationship at the single fibril level. Nature Communications, 2015, 6, 7564.	5.8	379
9	Half a century of amyloids: past, present and future. Chemical Society Reviews, 2020, 49, 5473-5509.	18.7	345
10	Shear Rheology of Lyotropic Liquid Crystals: A Case Study. Langmuir, 2005, 21, 3322-3333.	1.6	317
11	Food protein amyloid fibrils: Origin, structure, formation, characterization, applications and health implications. Advances in Colloid and Interface Science, 2019, 269, 334-356.	7.0	312
12	The self-assembly, aggregation and phase transitions of food protein systems in one, two and three dimensions. Reports on Progress in Physics, 2013, 76, 046601.	8.1	295
13	pH-Responsive Lyotropic Liquid Crystals for Controlled Drug Delivery. Langmuir, 2011, 27, 5296-5303.	1.6	286
14	Structure of Heat-Induced Î²-Lactoglobulin Aggregates and their Complexes with Sodium-Dodecyl Sulfate. Biomacromolecules, 2008, 9, 2477-2486.	2.6	274
15	Implications of peptide assemblies in amyloid diseases. Chemical Society Reviews, 2017, 46, 6492-6531.	18.7	262
16	Design principles of food gels. Nature Food, 2020, 1, 106-118.	6.2	261
17	FiberApp: An Open-Source Software for Tracking and Analyzing Polymers, Filaments, Biomacromolecules, and Fibrous Objects. Macromolecules, 2015, 48, 1269-1280.	2.2	248
18	The Presence of an Airâ€"Water Interface Affects Formation and Elongation of Î±-Synuclein Fibrils. Journal of the American Chemical Society, 2014, 136, 2866-2875.	6.6	229

#	ARTICLE	IF	CITATIONS
19	Amyloid Polymorphism in the Protein Folding and Aggregation Energy Landscape. Angewandte Chemie - International Edition, 2018, 57, 8370-8382.	7.2	229
20	A review of dendritic hyperbranched polymer as modifiers in epoxy composites. Composites Science and Technology, 2001, 61, 787-795.	3.8	223
21	Amyloid fibril systems reduce, stabilize and deliver bioavailable nanosized iron. Nature Nanotechnology, 2017, 12, 642-647.	15.6	216
22	Single-step direct measurement of amyloid fibrils stiffness by peak force quantitative nanomechanical atomic force microscopy. Applied Physics Letters, 2011, 98, .	1.5	211
23	Polyphenol-Binding Amyloid Fibrils Self-Assemble into Reversible Hydrogels with Antibacterial Activity. ACS Nano, 2018, 12, 3385-3396.	7.3	210
24	Selective and Efficient Removal of Fluoride from Water: In Situ Engineered Amyloid Fibril/ZrO₂ Hybrid Membranes. Angewandte Chemie - International Edition, 2019, 58, 6012-6016.	7.2	205
25	General Self-Assembly Mechanism Converting Hydrolyzed Globular Proteins Into Giant Multistranded Amyloid Ribbons. Biomacromolecules, 2011, 12, 1868-1875.	2.6	199
26	Modification approaches of plant-based proteins to improve their techno-functionality and use in food products. Food Hydrocolloids, 2021, 118, 106789.	5.6	191
27	Crystalline Diblock Conjugated Copolymers: Synthesis, Self-Assembly, and Microphase Separation of Poly(3-butylthiophene)-<i>b</i>-poly(3-octylthiophene). Macromolecules, 2009, 42, 2317-2320.	2.2	190
28	Amyloidâ€Hydroxyapatite Bone Biomimetic Composites. Advanced Materials, 2014, 26, 3207-3212.	11.1	188
29	Food structure and functionality: a soft matter perspective. Soft Matter, 2008, 4, 1569.	1.2	180
30	Templating Organic Semiconductors via Self-Assembly of Polymer Colloids. Science, 2003, 299, 1872-1874.	6.0	175
31	Measurement of intrinsic properties of amyloid fibrils by the peak force QNM method. Nanoscale, 2012, 4, 4426.	2.8	175
32	Proteins Fibrils from a Polymer Physics Perspective. Macromolecules, 2012, 45, 1137-1150.	2.2	171
33	Design of Double Emulsions by Osmotic Pressure Tailoring. Langmuir, 2004, 20, 3574-3582.	1.6	168
34	A New Supramolecular Route for Using Rodâ€Coil Block Copolymers in Photovoltaic Applications. Advanced Materials, 2010, 22, 763-768.	11.1	159
35	Phase Behavior and Temperature-Responsive Molecular Filters Based on Self-Assembly of Polystyrene-<i>block</i>-poly(<i>N</i>-isopropylacrylamide)-<i>bloc</i><i>k</i>-polystyrene. Macromolecules, 2007, 40, 5827-5834.	2.2	149
36	Amyloid Templated Gold Aerogels. Advanced Materials, 2016, 28, 472-478.	11.1	149

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37	Adjustable twisting periodic pitch of amyloid fibrils. Soft Matter, 2011, 7, 5437.	1.2	145
38	Interfacial Activity and Interfacial Shear Rheology of Native Î²-Lactoglobulin Monomers and Their Heat-Induced Fibers. Langmuir, 2010, 26, 15366-15375.	1.6	144
39	Controlling molecular transport and sustained drug release in lipid-based liquid crystalline mesophases. Journal of Controlled Release, 2014, 188, 31-43.	4.8	143
40	Protein nanofibrils for next generation sustainable water purification. Nature Communications, 2021, 12, 3248.	5.8	143
41	The interplay between carbon nanomaterials and amyloid fibrils in bio-nanotechnology. Nanoscale, 2013, 5, 6207.	2.8	141
42	Emulsion-Templated Fully Reversible Protein-in-Oil Gels. Langmuir, 2006, 22, 7812-7818.	1.6	136
43	Diffusion, Molecular Separation, and Drug Delivery from Lipid Mesophases with Tunable Water Channels. Langmuir, 2012, 28, 16455-16462.	1.6	136
44	Directed Growth of Silk Nanofibrils on Graphene and Their Hybrid Nanocomposites. ACS Macro Letters, 2014, 3, 146-152.	2.3	131
45	Novel Mechanistic Insight into the Molecular Basis of Amyloid Polymorphism and Secondary Nucleation during Amyloid Formation. Journal of Molecular Biology, 2013, 425, 1765-1781.	2.0	129
46	Influence of the Î²â€Sheet Content on the Mechanical Properties of Aggregates during Amyloid Fibrillization. Angewandte Chemie - International Edition, 2015, 54, 2462-2466.	7.2	129
47	Liquid Crystalline Phase Behavior of Protein Fibers in Water: Experiments versus Theory. Langmuir, 2010, 26, 504-514.	1.6	127
48	Scale-up of Nanoparticle Synthesis by Flame Spray Pyrolysis: The High-Temperature Particle Residence Time. Industrial & Engineering Chemistry Research, 2014, 53, 10734-10742.	1.8	125
49	Photoresponsive Reversible Aggregation and Dissolution of Rodâ€"Coil Polypeptide Diblock Copolymers. Macromolecules, 2011, 44, 4569-4573.	2.2	124
50	Study of amyloid fibrils via atomic force microscopy. Current Opinion in Colloid and Interface Science, 2012, 17, 369-376.	3.4	123
51	Non-equilibrium nature of two-dimensional isotropic and nematic coexistence in amyloid fibrils at liquid interfaces. Nature Communications, 2013, 4, 1917.	5.8	123
52	Inhibiting, promoting, and preserving stability of functional proteinfibrils. Soft Matter, 2012, 8, 876-895.	1.2	122
53	Self-Assembly of Ovalbumin into Amyloid and Non-Amyloid Fibrils. Biomacromolecules, 2012, 13, 4213-4221.	2.6	122
54	Carbon Nanotubes in the Liquid Phase: Addressing the Issue of Dispersion. Small, 2012, 8, 1299-1313.	5.2	122

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55	Direct Observation of Timeâ€Resolved Polymorphic States in the Selfâ€Assembly of Endâ€Capped Heptapeptides. Angewandte Chemie - International Edition, 2011, 50, 5495-5498.	7.2	119
56	Modulating Materials by Orthogonally Oriented Î²â€Strands: Composites of Amyloid and Silk Fibroin Fibrils. Advanced Materials, 2014, 26, 4569-4574.	11.1	119
57	Natureâ€Inspired Design and Application of Lipidic Lyotropic Liquid Crystals. Advanced Materials, 2019, 31, e1900818.	11.1	117
58	Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water. Advanced Materials, 2020, 32, e1907932.	11.1	117
59	Direct visualization of dispersed lipid bicontinuous cubic phases by cryo-electron tomography. Nature Communications, 2015, 6, 8915.	5.8	116
60	Investigating reversed liquid crystalline mesophases. Current Opinion in Colloid and Interface Science, 2006, 11, 224-229.	3.4	115
61	Synthesis, Morphology, and Properties of Poly(3â€hexylthiophene)â€<i>block</i>â€Poly(vinylphenyl) Tj ETQq1 1 0.784314 rgBT /Overlo Advanced Functional Materials, 2010, 20, 3012-3024.	7.8	113
62	Self-Assembly of Poly(diethylhexyloxy-<i>p</i>-phenylenevinylene)-<i>b</i>- poly(4-vinylpyridine) Rodâ^'Coil Block Copolymer Systems. Macromolecules, 2007, 40, 6990-6997.	2.2	111
63	Hybrid Nanocomposites of Gold Singleâ€Crystal Platelets and Amyloid Fibrils with Tunable Fluorescence, Conductivity, and Sensing Properties. Advanced Materials, 2013, 25, 3694-3700.	11.1	111
64	Fibrillar Networks of Glycyrrhizic Acid for Hybrid Nanomaterials with Catalytic Features. Angewandte Chemie - International Edition, 2015, 54, 5408-5412.	7.2	111
65	Responsive self-assembled nanostructured lipid systems for drug delivery and diagnostics. Journal of Colloid and Interface Science, 2016, 484, 320-339.	5.0	111
66	Polymorphism Complexity and Handedness Inversion in Serum Albumin Amyloid Fibrils. ACS Nano, 2013, 7, 10465-10474.	7.3	106
67	Confinement-induced liquid crystalline transitions in amyloid fibril cholesteric tactoids. Nature Nanotechnology, 2018, 13, 330-336.	15.6	105
68	Engineered Lysozyme Amyloid Fibril Networks Support Cellular Growth and Spreading. Biomacromolecules, 2014, 15, 599-608.	2.6	97
69	Magnetic assembly of transparent and conducting graphene-based functional composites. Nature Communications, 2016, 7, 12078.	5.8	97
70	Gelation, Phase Behavior, and Dynamics of Î²-Lactoglobulin Amyloid Fibrils at Varying Concentrations and Ionic Strengths. Biomacromolecules, 2012, 13, 3241-3252.	2.6	96
71	Silk micrococoons for protein stabilisation and molecular encapsulation. Nature Communications, 2017, 8, 15902.	5.8	96
72	Enzyme-Mimetic Antioxidant Luminescent Nanoparticles for Highly Sensitive Hydrogen Peroxide Biosensing. ACS Nano, 2017, 11, 12210-12218.	7.3	96

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73	Amyloidâ€“Polyphenol Hybrid Nanofilaments Mitigate Colitis and Regulate Gut Microbial Dysbiosis. ACS Nano, 2020, 14, 2760-2776.	7.3	94
74	pH Influence on the stability of foams with proteinâ€“polysaccharide complexes at their interfaces. Food Hydrocolloids, 2010, 24, 398-405.	5.6	93
75	Snapshots of fibrillation and aggregation kinetics in multistranded amyloid Î²-lactoglobulin fibrils. Soft Matter, 2011, 7, 493-499.	1.2	92
76	Water in Glassy Carbohydrates:Â Opening It Up at the Nanolevel. Journal of Physical Chemistry B, 2004, 108, 12436-12441.	1.2	91
77	Hierarchically Structured Microfibers of â€œSingle Stackâ€•Perylene Bisimide and Quaterthiophene Nanowires. ACS Nano, 2013, 7, 8498-8508.	7.3	88
78	Liquidâ€Crystalline Elastomerâ€Nanoparticle Hybrids with Reversible Switch of Magnetic Memory. Advanced Materials, 2013, 25, 1787-1791.	11.1	87
79	Simultaneous Control of pH and Ionic Strength during Interfacial Rheology of Î²-Lactoglobulin Fibrils Adsorbed at Liquid/Liquid Interfaces. Langmuir, 2012, 28, 12536-12543.	1.6	86
80	pH-responsive lyotropic liquid crystals and their potential therapeutic role in cancer treatment. Chemical Communications, 2015, 51, 6671-6674.	2.2	86
81	ILQINS Hexapeptide, Identified in Lysozyme Left-Handed Helical Ribbons and Nanotubes, Forms Right-Handed Helical Ribbons and Crystals. Journal of the American Chemical Society, 2014, 136, 4732-4739.	6.6	84
82	Supramolecular routes towards liquid crystalline side-chain polymers. Soft Matter, 2008, 4, 952.	1.2	81
83	Primary, Secondary, Tertiary and Quaternary Structure Levels in Linear Polysaccharides: From Random Coil, to Single Helix to Supramolecular Assembly. Biomacromolecules, 2019, 20, 1731-1739.	2.6	81
84	Oil Powders and Gels from Particle-Stabilized Emulsions. Langmuir, 2012, 28, 1694-1697.	1.6	80
85	Effects of the Branching Architecture on the Reactivity of Epoxyâˆ’Amine Groups. Macromolecules, 2000, 33, 4373-4379.	2.2	78
86	Hybrid Amyloid Membranes for Continuous Flow Catalysis. Langmuir, 2015, 31, 13867-13873.	1.6	76
87	Competition between crystal and fibril formation in molecular mutations of amyloidogenic peptides. Nature Communications, 2017, 8, 1338.	5.8	76
88	Self-Assembly of Polypeptide/Ï€-Conjugated Polymer/Polypeptide Triblock Copolymers in Rodâˆ’Rodâˆ’Rod and Coilâˆ’Rodâˆ’Coil Conformations. Macromolecules, 2008, 41, 1846-1852.	2.2	74
89	Oil and drug control the release rate from lyotropic liquid crystals. Journal of Controlled Release, 2015, 204, 78-84.	4.8	74
90	Assessing the Binding Performance of Amyloidâ€“Carbon Membranes toward Heavy Metal Ions. Langmuir, 2019, 35, 4161-4170.	1.6	74

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91	Morphology build-up in dendritic hyperbranched polymer modified epoxy resins: modelling and characterization. Polymer, 2001, 42, 305-317.	1.8	73
92	Polysaccharide-Induced Order-to-Order Transitions in Lyotropic Liquid Crystals. Langmuir, 2005, 21, 6165-6169.	1.6	73
93	Effects of Charge Double Layer and Colloidal Aggregation on the Isotropicâˆ’Nematic Transition of Protein Fibers in Water. Langmuir, 2010, 26, 10401-10405.	1.6	73
94	Biomass vs inorganic and plastic-based aerogels: Structural design, functional tailoring, resource-efficient applications and sustainability analysis. Progress in Materials Science, 2022, 125, 100915.	16.0	73
95	Amyloid Directed Synthesis of Titanium Dioxide Nanowires and Their Applications in Hybrid Photovoltaic Devices. Advanced Functional Materials, 2012, 22, 3424-3428.	7.8	72
96	Efficient purification of arsenic-contaminated water using amyloidâ€“carbon hybrid membranes. Chemical Communications, 2017, 53, 5714-5717.	2.2	72
97	Design of ultra-swollen lipidic mesophases for the crystallization of membrane proteins with large extracellular domains. Nature Communications, 2018, 9, 544.	5.8	69
98	Morphology and Thermodynamic Behavior of Syndiotactic Polypropyleneâˆ’Poly(ethylene-co-propylene) Block Polymers Prepared by Living Olefin Polymerization. Macromolecules, 2005, 38, 851-860.	2.2	68
99	Nanocellulose Fragmentation Mechanisms and Inversion of Chirality from the Single Particle to the Cholesteric Phase. ACS Nano, 2018, 12, 5141-5148.	7.3	68
100	Amyloid Fibrils Length Controls Shape and Structure of Nematic and Cholesteric Tactoids. ACS Nano, 2019, 13, 591-600.	7.3	68
101	Transition Metal Dichalcogenideâ€“Silk Nanofibril Membrane for One-Step Water Purification and Precious Metal Recovery. ACS Applied Materials & Interfaces, 2020, 12, 24521-24530.	4.0	68
102	Disassembly and Reassembly of Amyloid Fibrils in Waterâˆ’Ethanol Mixtures. Biomacromolecules, 2011, 12, 187-193.	2.6	67
103	Sustainable Removal of Microplastics and Natural Organic Matter from Water by Coagulationâ€“Flocculation with Protein Amyloid Fibrils. Environmental Science & Technology, 2021, 55, 8848-8858.	4.6	67
104	Magnetic-Responsive Hybrids of Fe₃O₄ Nanoparticles with Î²-Lactoglobulin Amyloid Fibrils and Nanoclusters. ACS Nano, 2013, 7, 6146-6155.	7.3	66
105	Amyloid-mediated synthesis of giant, fluorescent, gold single crystals and their hybrid sandwiched composites driven by liquid crystalline interactions. Journal of Colloid and Interface Science, 2011, 361, 90-96.	5.0	64
106	Water-processable, biodegradable and coatable aquaplastic from engineered biofilms. Nature Chemical Biology, 2021, 17, 732-738.	3.9	64
107	Macroscopic Alignment of Lyotropic Liquid Crystals Using Magnetic Nanoparticles. Advanced Materials, 2011, 23, 3932-3937.	11.1	63
108	Liquid-Crystalline Polymers from Cationic Dendronized Polymerâˆ’Anionic Lipid Complexes. Journal of the American Chemical Society, 2006, 128, 13998-13999.	6.6	62

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109	Structureâˆ’Properties Relationship in Proton Conductive Sulfonated Polystyreneâˆ’Polymethyl Methacrylate Block Copolymers (sPSâˆ’PMMA). Macromolecules, 2008, 41, 8130-8137.	2.2	62
110	Complexation of Î²-Lactoglobulin Fibrils and Sulfated Polysaccharides. Biomacromolecules, 2011, 12, 3056-3065.	2.6	62
111	Structural and Rheological Investigation of <i>Fd</i>3<i>m</i> Inverse Micellar Cubic Phases. Langmuir, 2007, 23, 9618-9628.	1.6	61
112	Unravelling adsorption and alignment of amyloid fibrils at interfaces by probe particle tracking. Soft Matter, 2011, 7, 8127.	1.2	61
113	Perforated Bicontinuous Cubic Phases with pHâ€Responsive Topological Channel Interconnectivity. Small, 2013, 9, 3602-3609.	5.2	61
114	Bridging the Gap between the Nanostructural Organization and Macroscopic Interfacial Rheology of Amyloid Fibrils at Liquid Interfaces. Langmuir, 2014, 30, 10090-10097.	1.6	61
115	Amyloid fibril-directed synthesis of silica coreâ€“shell nanofilaments, gels, and aerogels. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4012-4017.	3.3	61
116	An antiviral trap made of protein nanofibrils and iron oxyhydroxide nanoparticles. Nature Nanotechnology, 2021, 16, 918-925.	15.6	61
117	Synthesis and Characterization of Linear Poly(dialkylstannane)s. Macromolecules, 2007, 40, 7878-7889.	2.2	60
118	Poly[2,7-(9,9-dihexylfluorene)]-<i>block</i>-poly(2-vinylpyridine) Rodâˆ’Coil and Coilâˆ’Rodâˆ’Coil Block Copolymers: Synthesis, Morphology and Photophysical Properties in Methanol/THF Mixed Solvents. Macromolecules, 2008, 41, 8759-8769.	2.2	60
119	Poly(3â€hexylthiophene)â€<i>b</i>â€poly(3â€cyclohexylthiophene): Synthesis, microphase separation, thin film transistors, and photovoltaic applications. Journal of Polymer Science Part A, 2010, 48, 614-626.	2.5	60
120	Biotinylated Cubosomes: A Versatile Tool for Active Targeting and Codelivery of Paclitaxel and a Fluorescein-Based Lipid Dye. Langmuir, 2015, 31, 12770-12776.	1.6	60
121	Secondary Structure-Induced Micro- and Macrophase Separation in Rod-Coil Polypeptide Diblock, Triblock, and Star-Block Copolymers. Macromolecules, 2010, 43, 1093-1100.	2.2	59
122	Spray-Dried Oil Powder with Ultrahigh Oil Content. Langmuir, 2010, 26, 16658-16661.	1.6	59
123	Coreâ€“shell nanoparticle monolayers at planar liquidâ€“liquid interfaces: effects of polymer architecture on the interface microstructure. Soft Matter, 2013, 9, 3789.	1.2	59
124	Unravelling Secondary Structure Changes on Individual Anionic Polysaccharide Chains by Atomic Force Microscopy. Angewandte Chemie - International Edition, 2014, 53, 5376-5379.	7.2	58
125	Turning Food Protein Waste into Sustainable Technologies. Chemical Reviews, 2023, 123, 2112-2154.	23.0	58
126	The effect of pH on the self-assembly of a collagen derived peptide amphiphile. Soft Matter, 2013, 9, 6033.	1.2	57

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127	Gelatinâ€“Graphene Nanocomposites with Ultralow Electrical Percolation Threshold. Advanced Materials, 2016, 28, 6914-6920.	11.1	57
128	Weakly Segregated Smectic C Lamellar Clusters in Blends of Rods and Rodâ^'Coil Block Copolymers. Macromolecules, 2007, 40, 3277-3286.	2.2	56
129	Colloidal Ordered Assemblies in a Polymer Shellâ€"A Novel Type of Magnetic Nanobeads for Theranostic Applications. Chemistry of Materials, 2013, 25, 1055-1062.	3.2	56
130	Nanotopographic Surfaces with Defined Surface Chemistries from Amyloid Fibril Networks Can Control Cell Attachment. Biomacromolecules, 2013, 14, 2305-2316.	2.6	56
131	Adsorption and Interfacial Layer Structure of Unmodified Nanocrystalline Cellulose at Air/Water Interfaces. Langmuir, 2018, 34, 15195-15202.	1.6	56
132	Lipidic Cubic Phases as a Versatile Platform for the Rapid Detection of Biomarkers, Viruses, Bacteria, and Parasites. Advanced Functional Materials, 2016, 26, 181-190.	7.8	55
133	Real Space Imaging and Molecular Packing of Dendronized Polymerâ^'Lipid Supramolecular Complexes. Macromolecules, 2007, 40, 7609-7616.	2.2	53
134	Thermoreversible Gelâ€“Sol Behavior of Rodâ€“Coilâ€“Rod Peptide-Based Triblock Copolymers. Macromolecules, 2012, 45, 1982-1990.	2.2	53
135	Influence of End-Capping on the Self-Assembly of Model Amyloid Peptide Fragments. Journal of Physical Chemistry B, 2011, 115, 2107-2116.	1.2	52
136	Modulating self-assembly of a nanotape-forming peptideamphiphile with an oppositely charged surfactant. Soft Matter, 2012, 8, 217-226.	1.2	52
137	Polymorphism in bovine serum albumin fibrils: morphology and statistical analysis. Faraday Discussions, 2013, 166, 151.	1.6	52
138	Recent advances of non-lamellar lyotropic liquid crystalline nanoparticles in nanomedicine. Current Opinion in Colloid and Interface Science, 2020, 48, 28-39.	3.4	52
139	Towards lysozyme nanotube and 3D hybrid self-assembly. Nanoscale, 2013, 5, 7197.	2.8	51
140	Correlation between Nanomechanics and Polymorphic Conformations in Amyloid Fibrils. ACS Nano, 2014, 8, 11035-11041.	7.3	51
141	Anomalous Phase Sequences in Lyotropic Liquid Crystals. Physical Review Letters, 2007, 99, 187801.	2.9	50
142	Oleoylethanolamide-Based Lyotropic Liquid Crystals as Vehicles for Delivery of Amino Acids in Aqueous Environment. Biophysical Journal, 2009, 96, 1537-1546.	0.2	50
143	Cofibrillization of Pathogenic and Functional Amyloid Proteins with Gold Nanoparticles against Amyloidogenesis. Biomacromolecules, 2017, 18, 4316-4322.	2.6	50
144	Cross Linking and Rheological Characterization of Adsorbed Protein Layers at the Oilâ^'Water Interface. Langmuir, 2005, 21, 9689-9697.	1.6	49

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145	Functionalization of Multiwalled Carbon Nanotubes and Their pH-Responsive Hydrogels with Amyloid Fibrils. Langmuir, 2012, 28, 10142-10146.	1.6	49
146	Anomalous Stiffening and Ion-Induced Coilâ€"Helix Transition of Carrageenans under Monovalent Salt Conditions. Biomacromolecules, 2015, 16, 985-991.	2.6	49
147	Soft biomimetic nanoconfinement promotes amorphous water over ice. Nature Nanotechnology, 2019, 14, 609-615.	15.6	49
148	Comblike Liquid-Crystalline Polymers from Ionic Complexation of Dendronized Polymers and Lipids. Macromolecules, 2007, 40, 2822-2830.	2.2	48
149	Controlling enzymatic activity and kinetics in swollen mesophases by physical nano-confinement. Nanoscale, 2014, 6, 6853-6859.	2.8	48
150	Supramolecular chiral self-assembly and supercoiling behavior of carrageenans at varying salt conditions. Nanoscale, 2015, 7, 16182-16188.	2.8	48
151	Thermotropic Ionic Liquid Crystals via Self-Assembly of Cationic Hyperbranched Polypeptides and Anionic Surfactants. Macromolecules, 2007, 40, 8374-8383.	2.2	47
152	Fibrillation of Î²-Lactoglobulin at Low pH in the Presence of a Complexing Anionic Polysaccharide. Langmuir, 2010, 26, 17449-17458.	1.6	47
153	New biocompatible thermo-reversible hydrogels from PNiPAM-decorated amyloid fibrils. Chemical Communications, 2011, 47, 2913.	2.2	47
154	Amyloid Fibrils Enhance Transport of Metal Nanoparticles in Living Cells and Induced Cytotoxicity. Biomacromolecules, 2014, 15, 2793-2799.	2.6	47
155	Macroscopic Singleâ€Crystal Gold Microflakes and Their Devices. Advanced Materials, 2015, 27, 1945-1950.	11.1	47
156	Nanostructural Properties and Twist Periodicity of Cellulose Nanofibrils with Variable Charge Density. Biomacromolecules, 2019, 20, 1288-1296.	2.6	47
157	Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC. Advanced Science, 2020, 7, 2001299.	5.6	47
158	A New Level of Hierarchical Structure Control by Use of Supramolecular Selfâ€Assembled Dendronized Block Copolymers. Advanced Materials, 2008, 20, 4530-4534.	11.1	46
159	Ice-Templated and Cross-Linked Amyloid Fibril Aerogel Scaffolds for Cell Growth. Biomacromolecules, 2017, 18, 2858-2865.	2.6	46
160	Elasticity in Physically Cross-Linked Amyloid Fibril Networks. Physical Review Letters, 2018, 120, 158103.	2.9	46
161	Ion-Induced Formation of Nanocrystalline Cellulose Colloidal Glasses Containing Nematic Domains. Langmuir, 2019, 35, 4117-4124.	1.6	46
162	Self-Healing Fish Gelatin/Sodium Montmorillonite Biohybrid Coacervates: Structural and Rheological Characterization. Biomacromolecules, 2012, 13, 2136-2147.	2.6	45

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163	Shape retaining self-healing metal-coordinated hydrogels. Nanoscale, 2021, 13, 4073-4084.	2.8	45
164	Different Folding States from the Same Protein Sequence Determine Reversible vs Irreversible Amyloid Fate. Journal of the American Chemical Society, 2021, 143, 11473-11481.	6.6	45
165	Equilibrium and non-equilibrium structures in complex food systems. Food Hydrocolloids, 2007, 21, 674-682.	5.6	44
166	Universal Behavior in the Mesoscale Properties of Amyloid Fibrils. Physical Review Letters, 2014, 113, 268103.	2.9	44
167	Adsorption at Liquid Interfaces Induces Amyloid Fibril Bending and Ring Formation. ACS Nano, 2014, 8, 11071-11079.	7.3	44
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