Raffaele Mezzenga

List of Publications by Year
in descending order

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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	Turning Food Protein Waste into Sustainable Technologies. Chemical Reviews, 2023, 123, 2112-2154.	23.0	58
2	Renewable Water Harvesting by Amyloid Aerogels and Sun. Advanced Sustainable Systems, 2022, 6, 2100309.	2.7	13
3	Amyloid Fibril Templated MOF Aerogels for Water Purification. Small, 2022, 18, e2105502.	5.2	43
4	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
5	Transformerâ€Induced Metamorphosis of Polymeric Nanoparticle Shape at Room Temperature. Angewandte Chemie - International Edition, 2022, 61, e202113424.	7.2	24
6	Transformerâ€Induced Metamorphosis of Polymeric Nanoparticle Shape at Room Temperature. Angewandte Chemie, 2022, 134, .	1.6	7
7	Amyloidâ€Templated Palladium Nanoparticles for Water Purification by Electroreduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	15
8	Amyloid fibril-UiO-66-NH₂ aerogels for environmental remediation. Chemical Communications, 2022, 58, 5104-5107.	2.2	7
9	Hybrid Theranostic Cubosomes for Efficient NIR-Induced Photodynamic Therapy. ACS Nano, 2022, 16, 5427-5438.	7.3	27
10	Potential of curcumin-loaded cubosomes for topical treatment of cervical cancer. Journal of Colloid and Interface Science, 2022, 620, 419-430.	5.0	26
11	Oat Plant Amyloids for Sustainable Functional Materials. Advanced Science, 2022, 9, e2104445.	5.6	26
12	Plant-based amyloids from food waste for removal of heavy metals from contaminated water. Chemical Engineering Journal, 2022, 445, 136513.	6.6	25
13	Shape and structural relaxation of colloidal tactoids. Nature Communications, 2022, 13, 2778.	5.8	7
14	Neurotoxic amyloidogenic peptides in the proteome of SARS-COV2: potential implications for neurological symptoms in COVID-19. Nature Communications, 2022, 13, .	5.8	41
15	Amyloid-based carbon aerogels for water purification. Chemical Engineering Journal, 2022, 449, 137703.	6.6	21
16	Multi-length scale structural investigation of lysozyme self-assembly. IScience, 2022, 25, 104586.	1.9	3
17	Evolution of Conformation, Nanomechanics, and Infrared Nanospectroscopy of Single Amyloid Fibrils Converting into Microcrystals. Advanced Science, 2021, 8, 2002182.	5.6	20
18	Covalent Î²-lactoglobulin-maltodextrin amyloid fibril conjugate prepared by the Maillard reaction. Food Chemistry, 2021, 342, 128388.	4.2	22

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19	Elastic constants of biological filamentous colloids: estimation and implications on nematic and cholesteric tactoid morphologies. Soft Matter, 2021, 17, 2158-2169.	1.2	12
20	Engineering of biofilms with a glycosylation circuit for biomaterial applications. Biomaterials Science, 2021, 9, 3650-3661.	2.6	8
21	Cryogenic activity and stability of benzaldehyde lyase enzyme in lipidic mesophases-nanoconfined water. Chemical Communications, 2021, 57, 5650-5653.	2.2	5
22	Liquidâ€“liquid crystalline phase separation in biological filamentous colloids: nucleation, growth and orderâ€“order transitions of cholesteric tactoids. Soft Matter, 2021, 17, 6627-6636.	1.2	21
23	Polysaccharide-reinforced amyloid fibril hydrogels and aerogels. Nanoscale, 2021, 13, 12534-12545.	2.8	19
24	Amyloid fibril-based membranes for PFAS removal from water. Environmental Science: Water Research and Technology, 2021, 7, 1873-1884.	1.2	15
25	Shape retaining self-healing metal-coordinated hydrogels. Nanoscale, 2021, 13, 4073-4084.	2.8	45
26	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. Cellulose, 2021, 28, 1387-1403.	2.4	27
27	Arsenic removal from Peruvian drinking water using milk protein nanofibrilâ€“carbon filters: a field study. Environmental Science: Water Research and Technology, 2021, 7, 2223-2230.	1.2	3
28	Water-processable, biodegradable and coatable aquaplastic from engineered biofilms. Nature Chemical Biology, 2021, 17, 732-738.	3.9	64
29	Understanding the Formation of Apoferritin Amyloid Fibrils. Biomacromolecules, 2021, 22, 2057-2066.	2.6	9
30	Designing cryo-enzymatic reactions in subzero liquid water by lipidic mesophase nanoconfinement. Nature Nanotechnology, 2021, 16, 802-810.	15.6	12
31	A rationally designed oral vaccine induces immunoglobulin A in the murine gut that directs the evolution of attenuated Salmonella variants. Nature Microbiology, 2021, 6, 830-841.	5.9	21
32	Protein nanofibrils for next generation sustainable water purification. Nature Communications, 2021, 12, 3248.	5.8	143
33	Effect of Polysaccharide Conformation on Ultrafiltration Separation Performance. Carbohydrate Polymers, 2021, 260, 117830.	5.1	16
34	An antiviral trap made of protein nanofibrils and iron oxyhydroxide nanoparticles. Nature Nanotechnology, 2021, 16, 918-925.	15.6	61
35	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
36	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

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37	Interconnect-Free Multibit Arithmetic and Logic Unit in a Single Reconfigurable 3 Î¼m² Plasmonic Cavity. ACS Nano, 2021, 15, 13351-13359.	7.3	6
38	Sustainable Bioplastics from Amyloid Fibril-Biodegradable Polymer Blends. ACS Sustainable Chemistry and Engineering, 2021, 9, 11916-11926.	3.2	36
39	Probing Water State during Lipidic Mesophases Phase Transitions. Angewandte Chemie, 2021, 133, 25478-25484.	1.6	2
40	Modification approaches of plant-based proteins to improve their techno-functionality and use in food products. Food Hydrocolloids, 2021, 118, 106789.	5.6	191
41	Probing Water State during Lipidic Mesophases Phase Transitions. Angewandte Chemie - International Edition, 2021, 60, 25274-25280.	7.2	10
42	Natureâ€Inspired Circularâ€Economy Recycling for Proteins: Proof of Concept. Advanced Materials, 2021, 33, e2104581.	11.1	14
43	Membrane-based technologies for per- and poly-fluoroalkyl substances (PFASs) removal from water: Removal mechanisms, applications, challenges and perspectives. Environment International, 2021, 157, 106876.	4.8	27
44	Removal of radioactive cesium from contaminated water by whey protein amyloidsâ€“carbon hybrid filters. RSC Advances, 2021, 11, 32454-32458.	1.7	8
45	VEGF and VEGFR2 bind to similar pH-sensitive sites on fibronectin, exposed by heparin-mediated conformational changes. Journal of Biological Chemistry, 2021, 296, 100584.	1.6	6
46	Plasmonic Amyloid Tactoids. Advanced Materials, 2021, 33, e2106155.	11.1	7
47	Natureâ€Inspired Circularâ€Economy Recycling for Proteins: Proof of Concept (Adv. Mater. 44/2021). Advanced Materials, 2021, 33, 2170345.	11.1	0
48	Grand Challenges in Soft Matter. , 2021, 1, .		2
49	Hierarchically Fabricated Amyloid Fibers via Evaporation-Induced Self-Assembly. ACS Nano, 2021, 15, 20261-20266.	7.3	8
50	Plasmonic Amyloid Tactoids (Adv. Mater. 51/2021). Advanced Materials, 2021, 33, .	11.1	0
51	Modulating the Mechanical Performance of Macroscale Fibers through Shearâ€Induced Alignment and Assembly of Protein Nanofibrils. Small, 2020, 16, e1904190.	5.2	39
52	Light Gold: A Colloidal Approach Using Latex Templates. Advanced Functional Materials, 2020, 30, 1908458.	7.8	6
53	Rigid, Fibrillar Quaternary Structures Induced by Divalent Ions in a Carboxylated Linear Polysaccharide. ACS Macro Letters, 2020, 9, 115-121.	2.3	23
54	Amyloid Beta Pathogenesis: Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC (Adv. Sci.) Tj ETQq0 0 0 rgBT /Overlock 10	5.6	0

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55	Amyloid Fibrilâ€Templated Highâ€Performance Conductive Aerogels with Sensing Properties. Small, 2020, 16, e2004932.	5.2	19
56	Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC. Advanced Science, 2020, 7, 2001299.	5.6	47
57	Amyloid Evolution: Antiparallel Replaced by Parallel. Biophysical Journal, 2020, 118, 2526-2536.	0.2	28
58	Human neuropeptide substance P self-assembles into semi-flexible nanotubes that can be manipulated for nanotechnology. Nanoscale, 2020, 12, 22680-22687.	2.8	6
59	Conductive Aerogels: Amyloid Fibrilâ€Templated Highâ€Performance Conductive Aerogels with Sensing Properties (Small 45/2020). Small, 2020, 16, 2070246.	5.2	0
60	Selfâ€Winding Gelatinâ€“Amyloid Wires for Soft Actuators and Sensors. Advanced Materials, 2020, 32, e2004941.	11.1	29
61	Investigating the Mechanism of Cyclodextrins in the Treatment of Niemannâ€Pick Disease Type C Using Crosslinked 2â€Hydroxypropylâ€²â€cyclodextrin. Small, 2020, 16, e2004735.	5.2	16
62	Flow-induced orderâ€“order transitions in amyloid fibril liquid crystalline tactoids. Nature Communications, 2020, 11, 5416.	5.8	20
63	Amyloid hybrid membranes for removal of clinical and nuclear radioactive wastewater. Environmental Science: Water Research and Technology, 2020, 6, 3249-3254.	1.2	18
64	Amyloid hybrid membranes for bacterial & genetic material removal from water and their anti-biofouling properties. Nanoscale Advances, 2020, 2, 4665-4670.	2.2	7
65	Formation of Higher Structural Levels in Î»-Carrageenan Induced by the Antimalarial Drug Chloroquine. ACS Macro Letters, 2020, 9, 1310-1317.	2.3	5
66	Relaxation dynamics in bio-colloidal cholesteric liquid crystals confined to cylindrical geometry. Nature Communications, 2020, 11, 4616.	5.8	32
67	Interfaces Determine the Fate of Seeded Î±â€Synuclein Aggregation. Advanced Materials Interfaces, 2020, 7, 2000446.	1.9	7
68	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
69	Structureâ€“property relationships of cellulose nanofibril hydro- and aerogels and their building blocks. Nanoscale, 2020, 12, 11638-11646.	2.8	11
70	Single plasmon spatial and spectral sorting on a crystalline two-dimensional plasmonic platform. Nanoscale, 2020, 12, 13414-13420.	2.8	6
71	Drying of African leafy vegetables for their effective preservation: the difference in moisture sorption isotherms explained by their microstructure. Food and Function, 2020, 11, 955-964.	2.1	11
72	Interplay between Confinement and Drag Forces Determine the Fate of Amyloid Fibrils. Physical Review Letters, 2020, 124, 118102.	2.9	0

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73	Environmental Remediation: Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water (Adv. Mater. 12/2020). Advanced Materials, 2020, 32, 2070094.	11.1	0
74	Airâ€Water Interfaces: Interfaces Determine the Fate of Seeded Î±â€Synuclein Aggregation (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	0
75	Half a century of amyloids: past, present and future. Chemical Society Reviews, 2020, 49, 5473-5509.	18.7	345
76	The physics of lipidic mesophase delivery systems. Physics Today, 2020, 73, 38-44.	0.3	17
77	Stereochemical Purity Can Induce a New Crystalline Mesophase in Phytantriol Lipids. Langmuir, 2020, 36, 9132-9141.	1.6	4
78	Probing the Structure of Filamentous Nonergodic Gels by Dynamic Light Scattering. Macromolecules, 2020, 53, 5950-5956.	2.2	13
79	Design principles of food gels. Nature Food, 2020, 1, 106-118.	6.2	261
80	Amyloidâ€“Polyphenol Hybrid Nanofilaments Mitigate Colitis and Regulate Gut Microbial Dysbiosis. ACS Nano, 2020, 14, 2760-2776.	7.3	94
81	Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water. Advanced Materials, 2020, 32, e1907932.	11.1	117
82	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
83	Lipid-based mesophases as matrices for nanoscale reactions. Nanoscale Horizons, 2020, 5, 914-927.	4.1	13
84	Metal ions confinement defines the architecture of G-quartet, G-quadruplex fibrils and their assembly into nematic tactoids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9832-9839.	3.3	32
85	Ubiquitous aluminium contamination in water and amyloid hybrid membranes as a sustainable possible solution. Chemical Communications, 2019, 55, 11143-11146.	2.2	26
86	Multifunctional Nanoâ€Biointerfaces: Cytocompatible Antimicrobial Nanocarriers from Stabilizerâ€Free Cubosomes. Advanced Functional Materials, 2019, 29, 1904007.	7.8	38
87	Soft condensed matter physics of foods and macronutrients. Nature Reviews Physics, 2019, 1, 551-566.	11.9	42
88	Can one determine the density of an individual synthetic macromolecule?. Soft Matter, 2019, 15, 6547-6556.	1.2	0
89	Structural Transformation in Vesicles upon Hydrolysis of Phosphatidylethanolamine and Phosphatidylcholine with Phospholipase C. Langmuir, 2019, 35, 14949-14958.	1.6	12
90	Creating gradients of amyloid fibrils from the liquidâ€“liquid interface. Soft Matter, 2019, 15, 8437-8440.	1.2	7

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91	A Short Peptide Hydrogel with High Stiffness Induced by 3₁₀â€Helices to Î²â€Sheet Transition in Water. Advanced Science, 2019, 6, 1901173.	5.6	36
92	Designing Cellulose Nanofibrils for Stabilization of Fluid Interfaces. Biomacromolecules, 2019, 20, 4574-4580.	2.6	25
93	Amphiphilic Lipids: Natureâ€Inspired Design and Application of Lipidic Lyotropic Liquid Crystals (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	11.1	2
94	Six-fold director field configuration in amyloid nematic and cholesteric phases. Scientific Reports, 2019, 9, 12654.	1.6	18
95	Sustainable technologies for water purification from heavy metals: review and analysis. Chemical Society Reviews, 2019, 48, 463-487.	18.7	967
96	Nanostructural Properties and Twist Periodicity of Cellulose Nanofibrils with Variable Charge Density. Biomacromolecules, 2019, 20, 1288-1296.	2.6	47
97	Assembly-Induced Bright-Light Emission from Solution-Processed Platinum(II) Inorganic Polymers. ACS Omega, 2019, 4, 10192-10204.	1.6	6
98	Natureâ€Inspired Design and Application of Lipidic Lyotropic Liquid Crystals. Advanced Materials, 2019, 31, e1900818.	11.1	117
99	Protein-Eye View of the in Meso Crystallization Mechanism. Langmuir, 2019, 35, 8344-8356.	1.6	9
100	Overcoming Endocytosis Deficiency by Cubosome Nanocarriers. ACS Applied Bio Materials, 2019, 2, 2490-2499.	2.3	23
101	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
102	Stable Immobilization of Enzymes in a Macro- and Mesoporous Silica Monolith. ACS Omega, 2019, 4, 7795-7806.	1.6	30
103	Supramolecular chirality and crystallization from biocatalytic self-assembly in lipidic cubic mesophases. Nanoscale, 2019, 11, 5891-5895.	2.8	7
104	Ion-Induced Formation of Nanocrystalline Cellulose Colloidal Glasses Containing Nematic Domains. Langmuir, 2019, 35, 4117-4124.	1.6	46
105	The interplay of channel geometry and molecular features determines diffusion in lipidic cubic phases. Journal of Chemical Physics, 2019, 150, 094901.	1.2	13
106	Soft biomimetic nanoconfinement promotes amorphous water over ice. Nature Nanotechnology, 2019, 14, 609-615.	15.6	49
107	Application of gold nanoparticles embedded in the amyloids fibrils as enhancers in the laser induced breakdown spectroscopy for the metal quantification in microdroplets. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 155, 115-122.	1.5	29
108	Impact of Molecular Partitioning and Partial Equilibration on the Estimation of Diffusion Coefficients from Release Experiments. Langmuir, 2019, 35, 5663-5671.	1.6	5

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109	Spatiotemporal Control of Enzymeâ€Induced Crystallization Under Lyotropic Liquid Crystal Nanoconfinement. Angewandte Chemie, 2019, 131, 7367-7371.	1.6	2
110	Spatiotemporal Control of Enzymeâ€Induced Crystallization Under Lyotropic Liquid Crystal Nanoconfinement. Angewandte Chemie - International Edition, 2019, 58, 7289-7293.	7.2	11
111	Selective and Efficient Removal of Fluoride from Water: In Situ Engineered Amyloid Fibril/ZrO₂ Hybrid Membranes. Angewandte Chemie, 2019, 131, 6073-6077.	1.6	14
112	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
113	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
114	Assessing the Binding Performance of Amyloidâ€“Carbon Membranes toward Heavy Metal Ions. Langmuir, 2019, 35, 4161-4170.	1.6	74
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	Kinetic Control of Parallel versus Antiparallel Amyloid Aggregation via Shape of the Growing Aggregate. Scientific Reports, 2019, 9, 15987.	1.6	4
117	Apoferritin Protein Amyloid Fibrils with Tunable Chirality and Polymorphism. Journal of the American Chemical Society, 2019, 141, 1606-1613.	6.6	20
118	Amyloid Fibrils Length Controls Shape and Structure of Nematic and Cholesteric Tactoids. ACS Nano, 2019, 13, 591-600.	7.3	68
119	The Molecular Dance of Fibronectin: Conformational Flexibility Leads to Functional Versatility. Biomacromolecules, 2019, 20, 55-72.	2.6	31
120	Confinementâ€Induced Ordering and Selfâ€Folding of Cellulose Nanofibrils. Advanced Science, 2019, 6, 1801540.	5.6	21
121	Lipidic Mesophase-Embedded Palladium Nanoparticles: Synthesis and Tunable Catalysts in Suzukiâ€“Miyaura Cross-Coupling Reactions. Langmuir, 2019, 35, 120-127.	1.6	12
122	Curvature and bottlenecks control molecular transport in inverse bicontinuous cubic phases. Journal of Chemical Physics, 2018, 148, 054902.	1.2	34
123	Amyloidâ€Polymorphie in der Energielandschaft der Faltung und Aggregation von Proteinen. Angewandte Chemie, 2018, 130, 8502-8515.	1.6	16
124	Rheology of Ultraswollen Bicontinuous Lipidic Cubic Phases. Langmuir, 2018, 34, 5052-5059.	1.6	17
125	Elasticity in Physically Cross-Linked Amyloid Fibril Networks. Physical Review Letters, 2018, 120, 158103.	2.9	46
126	Amyloid Polymorphism in the Protein Folding and Aggregation Energy Landscape. Angewandte Chemie - International Edition, 2018, 57, 8370-8382.	7.2	229

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127	Design of ultra-swollen lipidic mesophases for the crystallization of membrane proteins with large extracellular domains. Nature Communications, 2018, 9, 544.	5.8	69
128	Lipidic Mesophases as Novel Nanoreactor Scaffolds for Organocatalysts: Heterogeneously Catalyzed Asymmetric Aldol Reactions in Confined Water. ACS Applied Materials & Interfaces, 2018, 10, 5114-5124.	4.0	33
129	Designing Plasmonic Eigenstates for Optical Signal Transmission in Planar Channel Devices. ACS Photonics, 2018, 5, 2328-2335.	3.2	16
130	Polyphenol-Binding Amyloid Fibrils Self-Assemble into Reversible Hydrogels with Antibacterial Activity. ACS Nano, 2018, 12, 3385-3396.	7.3	210
131	Confinement-induced liquid crystalline transitions in amyloid fibril cholesteric tactoids. Nature Nanotechnology, 2018, 13, 330-336.	15.6	105
132	Amyloid Templated Organicâ€“Inorganic Hybrid Aerogels. Advanced Functional Materials, 2018, 28, 1703609.	7.8	39
133	Nanoscale inhibition of polymorphic and ambidextrous IAPP amyloid aggregation with small molecules. Nano Research, 2018, 11, 3636-3647.	5.8	35
134	Adsorption and Interfacial Layer Structure of Unmodified Nanocrystalline Cellulose at Air/Water Interfaces. Langmuir, 2018, 34, 15195-15202.	1.6	56
135	Liquid crystalline filamentous biological colloids: Analogies and differences. Current Opinion in Colloid and Interface Science, 2018, 38, 30-44.	3.4	23
136	Structure and Nanomechanics of Dry and Hydrated Intermediate Filament Films and Fibers Produced from Hagfish Slime Fibers. ACS Applied Materials & Interfaces, 2018, 10, 40460-40473.	4.0	9
137	Trans-Scale 2D Synthesis of Millimeter-Large Au Single Crystals via Silk Fibroin Templates. ACS Sustainable Chemistry and Engineering, 2018, 6, 12419-12425.	3.2	15
138	Efficient Asymmetric Synthesis of Carbohydrates by Aldolase Nano-Confined in Lipidic Cubic Mesophases. ACS Catalysis, 2018, 8, 5810-5815.	5.5	28
139	Nanocellulose Fragmentation Mechanisms and Inversion of Chirality from the Single Particle to the Cholesteric Phase. ACS Nano, 2018, 12, 5141-5148.	7.3	68
140	Cell Alignment on Grapheneâ€“Amyloid Composites. Advanced Materials Interfaces, 2018, 5, 1800621.	1.9	10
141	Modifying the Contact Angle of Anisotropic Cellulose Nanocrystals: Effect on Interfacial Rheology and Structure. Langmuir, 2018, 34, 10932-10942.	1.6	22
142	Controlling Supramolecular Chiral Nanostructures by Self-Assembly of a Biomimetic Î²-Sheet-Rich Amyloidogenic Peptide. ACS Nano, 2018, 12, 9152-9161.	7.3	28
143	In Vivo Mitigation of Amyloidogenesis through Functionalâ€“Pathogenic Double-Protein Coronae. Nano Letters, 2018, 18, 5797-5804.	4.5	39
144	Dynamic formation of nanostructured particles from vesicles via invertase hydrolysis for on-demand delivery. RSC Advances, 2017, 7, 4368-4377.	1.7	12

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145	Amyloid fibril systems reduce, stabilize and deliver bioavailable nanosized iron. Nature Nanotechnology, 2017, 12, 642-647.	15.6	216
146	Efficient purification of arsenic-contaminated water using amyloidâ€“carbon hybrid membranes. Chemical Communications, 2017, 53, 5714-5717.	2.2	72
147	Continuous Isotropic-Nematic Transition in Amyloid Fibril Suspensions Driven by Thermophoresis. Scientific Reports, 2017, 7, 1211.	1.6	22
148	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. Chemical Society Reviews, 2017, 46, 4661-4708.	18.7	670
149	Diffusion of Polymers through Periodic Networks of Lipid-Based Nanochannels. Langmuir, 2017, 33, 3491-3498.	1.6	13
150	Absolute Quantification of Amyloid Propagons by Digital Microfluidics. Analytical Chemistry, 2017, 89, 12306-12313.	3.2	21
151	Silk micrococoons for protein stabilisation and molecular encapsulation. Nature Communications, 2017, 8, 15902.	5.8	96
152	Amyloid Fibrils form Hybrid Colloidal Gels and Aerogels with Dispersed CaCO₃ Nanoparticles. Advanced Functional Materials, 2017, 27, 1700897.	7.8	38
153	Ice-Templated and Cross-Linked Amyloid Fibril Aerogel Scaffolds for Cell Growth. Biomacromolecules, 2017, 18, 2858-2865.	2.6	46
154	Enzyme-Mimetic Antioxidant Luminescent Nanoparticles for Highly Sensitive Hydrogen Peroxide Biosensing. ACS Nano, 2017, 11, 12210-12218.	7.3	96
155	Copolyampholytes Produced from RAFT Polymerization of Protic Ionic Liquids. Macromolecules, 2017, 50, 8965-8978.	2.2	13
156	Squid Suckerin Biomimetic Peptides Form Amyloid-like Crystals with Robust Mechanical Properties. Biomacromolecules, 2017, 18, 4240-4248.	2.6	21
157	Competition between crystal and fibril formation in molecular mutations of amyloidogenic peptides. Nature Communications, 2017, 8, 1338.	5.8	76
158	Active Gating, Molecular Pumping, and Turnover Determination in Biomimetic Lipidic Cubic Mesophases with Reconstituted Membrane Proteins. ACS Nano, 2017, 11, 11687-11693.	7.3	13
159	Cofibrillization of Pathogenic and Functional Amyloid Proteins with Gold Nanoparticles against Amyloidogenesis. Biomacromolecules, 2017, 18, 4316-4322.	2.6	50
160	Implications of peptide assemblies in amyloid diseases. Chemical Society Reviews, 2017, 46, 6492-6531.	18.7	262
161	Solvent-mediated conductance increase of dodecanethiol-stabilized gold nanoparticle monolayers. Beilstein Journal of Nanotechnology, 2016, 7, 2057-2064.	1.5	4
162	Gelatinâ€“Graphene Nanocomposites with Ultralow Electrical Percolation Threshold. Advanced Materials, 2016, 28, 6914-6920.	11.1	57

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163	Microtubuleâ€Binding R3 Fragment from Tau Selfâ€Assembles into Giant Multistranded Amyloid Ribbons. Angewandte Chemie - International Edition, 2016, 55, 618-622.	7.2	43
164	Amyloid Fibrils as Building Blocks for Natural and Artificial Functional Materials. Advanced Materials, 2016, 28, 6546-6561.	11.1	430
165	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
166	Lipid self-assembled structures for reactivity control in food. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150136.	1.6	17
167	A macroscopic H ⁺ and Cl ^{â^'} ions pump via reconstitution of EcClC membrane proteins in lipidic cubic mesophases. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7491-7496.	3.3	27
168	Quantifying the transport properties of lipid mesophases by theoretical modelling of diffusion experiments. Journal of Chemical Physics, 2016, 145, 084903.	1.2	12
169	Disease Diagnostics: Lipidic Cubic Phases as a Versatile Platform for the Rapid Detection of Biomarkers, Viruses, Bacteria, and Parasites (Adv. Funct. Mater. 2/2016). Advanced Functional Materials, 2016, 26, 158-158.	7.8	0
170	Lyotropic Liquid Crystalline Cubic Phases as Versatile Host Matrices for Membrane-Bound Enzymes. Journal of Physical Chemistry Letters, 2016, 7, 1507-1512.	2.1	33
171	Responsive self-assembled nanostructured lipid systems for drug delivery and diagnostics. Journal of Colloid and Interface Science, 2016, 484, 320-339.	5.0	111
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