

Raffaele Mezzenga

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427
ext. papers

22,234
ext. citations

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L-index

#	Paper	IF	Citations
401	Sustainable technologies for water purification from heavy metals: review and analysis. <i>Chemical Society Reviews</i> , 2019 , 48, 463-487	58.5	561
400	Understanding foods as soft materials. <i>Nature Materials</i> , 2005 , 4, 729-40	27	546
399	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. <i>Chemical Society Reviews</i> , 2017 , 46, 4661-4708	58.5	467
398	Understanding amyloid aggregation by statistical analysis of atomic force microscopy images. <i>Nature Nanotechnology</i> , 2010 , 5, 423-8	28.7	455
397	Amyloid-carbon hybrid membranes for universal water purification. <i>Nature Nanotechnology</i> , 2016 , 11, 365-71	28.7	375
396	Biodegradable nanocomposites of amyloid fibrils and graphene with shape-memory and enzyme-sensing properties. <i>Nature Nanotechnology</i> , 2012 , 7, 421-7	28.7	361
395	Amyloid Fibrils as Building Blocks for Natural and Artificial Functional Materials. <i>Advanced Materials</i> , 2016 , 28, 6546-61	24	292
394	Understanding nanocellulose chirality and structure-properties relationship at the single fibril level. <i>Nature Communications</i> , 2015 , 6, 7564	17.4	290
393	Shear rheology of lyotropic liquid crystals: a case study. <i>Langmuir</i> , 2005 , 21, 3322-33	4	267
392	pH-responsive lyotropic liquid crystals for controlled drug delivery. <i>Langmuir</i> , 2011 , 27, 5296-303	4	249
391	Structure of heat-induced beta-lactoglobulin aggregates and their complexes with sodium-dodecyl sulfate. <i>Biomacromolecules</i> , 2008 , 9, 2477-86	6.9	243
390	The self-assembly, aggregation and phase transitions of food protein systems in one, two and three dimensions. <i>Reports on Progress in Physics</i> , 2013 , 76, 046601	14.4	235
389	A review of dendritic hyperbranched polymer as modifiers in epoxy composites. <i>Composites Science and Technology</i> , 2001 , 61, 787-795	8.6	202
388	Implications of peptide assemblies in amyloid diseases. <i>Chemical Society Reviews</i> , 2017 , 46, 6492-6531	58.5	198
387	Single-step direct measurement of amyloid fibrils stiffness by peak force quantitative nanomechanical atomic force microscopy. <i>Applied Physics Letters</i> , 2011 , 98, 193701	3.4	180
386	Crystalline Diblock Conjugated Copolymers: Synthesis, Self-Assembly, and Microphase Separation of Poly(3-butylthiophene)-b-poly(3-octylthiophene). <i>Macromolecules</i> , 2009 , 42, 2317-2320	5.5	179
385	The presence of an air-water interface affects formation and elongation of β -Synuclein fibrils. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2866-75	16.4	175

384	FiberApp: An Open-Source Software for Tracking and Analyzing Polymers, Filaments, Biomacromolecules, and Fibrous Objects. <i>Macromolecules</i> , 2015 , 48, 1269-1280	5.5	169
383	General self-assembly mechanism converting hydrolyzed globular proteins into giant multistranded amyloid ribbons. <i>Biomacromolecules</i> , 2011 , 12, 1868-75	6.9	169
382	Templating organic semiconductors via self-assembly of polymer colloids. <i>Science</i> , 2003 , 299, 1872-4	33.3	163
381	Amyloid-hydroxyapatite bone biomimetic composites. <i>Advanced Materials</i> , 2014 , 26, 3207-12	24	159
380	Food structure and functionality: a soft matter perspective. <i>Soft Matter</i> , 2008 , 4, 1569-1581	3.6	157
379	Design of double emulsions by osmotic pressure tailoring. <i>Langmuir</i> , 2004 , 20, 3574-82	4	155
378	A new supramolecular route for using rod-coil block copolymers in photovoltaic applications. <i>Advanced Materials</i> , 2010 , 22, 763-8	24	154
377	Amyloid fibril systems reduce, stabilize and deliver bioavailable nanosized iron. <i>Nature Nanotechnology</i> , 2017 , 12, 642-647	28.7	151
376	Selective and Efficient Removal of Fluoride from Water: In Situ Engineered Amyloid Fibril/ZrO Hybrid Membranes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6012-6016	16.4	151
375	Proteins Fibrils from a Polymer Physics Perspective. <i>Macromolecules</i> , 2012 , 45, 1137-1150	5.5	151
374	Measurement of intrinsic properties of amyloid fibrils by the peak force QNM method. <i>Nanoscale</i> , 2012 , 4, 4426-9	7.7	149
373	Half a century of amyloids: past, present and future. <i>Chemical Society Reviews</i> , 2020 , 49, 5473-5509	58.5	142
372	Food protein amyloid fibrils: Origin, structure, formation, characterization, applications and health implications. <i>Advances in Colloid and Interface Science</i> , 2019 , 269, 334-356	14.3	137
371	Phase Behavior and Temperature-Responsive Molecular Filters Based on Self-Assembly of Polystyrene-block-poly(N-isopropylacrylamide)-block-polystyrene. <i>Macromolecules</i> , 2007 , 40, 5827-5834	5.5	133
370	Amyloid Polymorphism in the Protein Folding and Aggregation Energy Landscape. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8370-8382	16.4	132
369	The interplay between carbon nanomaterials and amyloid fibrils in bio-nanotechnology. <i>Nanoscale</i> , 2013 , 5, 6207-18	7.7	126
368	Adjustable twisting periodic pitch of amyloid fibrils. <i>Soft Matter</i> , 2011 , 7, 5437	3.6	125
367	Polyphenol-Binding Amyloid Fibrils Self-Assemble into Reversible Hydrogels with Antibacterial Activity. <i>ACS Nano</i> , 2018 , 12, 3385-3396	16.7	124

366	Amyloid Templated Gold Aerogels. <i>Advanced Materials</i> , 2016 , 28, 472-8	24	124
365	Diffusion, molecular separation, and drug delivery from lipid mesophases with tunable water channels. <i>Langmuir</i> , 2012 , 28, 16455-62	4	119
364	Novel mechanistic insight into the molecular basis of amyloid polymorphism and secondary nucleation during amyloid formation. <i>Journal of Molecular Biology</i> , 2013 , 425, 1765-81	6.5	116
363	Liquid crystalline phase behavior of protein fibers in water: experiments versus theory. <i>Langmuir</i> , 2010 , 26, 504-14	4	116
362	Photoresponsive Reversible Aggregation and Dissolution of Rod-Coil Polypeptide Diblock Copolymers. <i>Macromolecules</i> , 2011 , 44, 4569-4573	5.5	115
361	Controlling molecular transport and sustained drug release in lipid-based liquid crystalline mesophases. <i>Journal of Controlled Release</i> , 2014 , 188, 31-43	11.7	112
360	Inhibiting, promoting, and preserving stability of functional protein fibrils. <i>Soft Matter</i> , 2012 , 8, 876-895	3.6	112
359	Synthesis, Morphology, and Properties of Poly(3-hexylthiophene)-block-Poly(vinylphenyl oxadiazole) Donor-Acceptor Rod-Coil Block Copolymers and Their Memory Device Applications. <i>Advanced Functional Materials</i> , 2010 , 20, 3012-3024	15.6	112
358	Emulsion-templated fully reversible protein-in-oil gels. <i>Langmuir</i> , 2006 , 22, 7812-8	4	111
357	Design principles of food gels. <i>Nature Food</i> , 2020 , 1, 106-118	14.4	109
356	Carbon nanotubes in the liquid phase: addressing the issue of dispersion. <i>Small</i> , 2012 , 8, 1299-313	11	109
355	Interfacial activity and interfacial shear rheology of native β -lactoglobulin monomers and their heat-induced fibers. <i>Langmuir</i> , 2010 , 26, 15366-75	4	108
354	Self-Assembly of Poly(diethylhexyloxy-p-phenylenevinylene)-b- poly(4-vinylpyridine) Rod-Coil Block Copolymer Systems. <i>Macromolecules</i> , 2007 , 40, 6990-6997	5.5	107
353	Influence of the β -sheet content on the mechanical properties of aggregates during amyloid fibrillization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2462-6	16.4	106
352	Directed Growth of Silk Nanofibrils on Graphene and Their Hybrid Nanocomposites.. <i>ACS Macro Letters</i> , 2014 , 3, 146-152	6.6	106
351	Hybrid nanocomposites of gold single-crystal platelets and amyloid fibrils with tunable fluorescence, conductivity, and sensing properties. <i>Advanced Materials</i> , 2013 , 25, 3694-700	24	106
350	Investigating reversed liquid crystalline mesophases. <i>Current Opinion in Colloid and Interface Science</i> , 2006 , 11, 224-229	7.6	106
349	Modulating materials by orthogonally oriented β -strands: composites of amyloid and silk fibroin fibrils. <i>Advanced Materials</i> , 2014 , 26, 4569-74	24	103

348	Direct observation of time-resolved polymorphic states in the self-assembly of end-capped heptapeptides. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5495-8	16.4	103
347	Study of amyloid fibrils via atomic force microscopy. <i>Current Opinion in Colloid and Interface Science</i> , 2012 , 17, 369-376	7.6	98
346	Non-equilibrium nature of two-dimensional isotropic and nematic coexistence in amyloid fibrils at liquid interfaces. <i>Nature Communications</i> , 2013 , 4, 1917	17.4	97
345	Scale-up of Nanoparticle Synthesis by Flame Spray Pyrolysis: The High-Temperature Particle Residence Time. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10734-10742	3.9	94
344	Self-assembly of ovalbumin into amyloid and non-amyloid fibrils. <i>Biomacromolecules</i> , 2012 , 13, 4213-21	6.9	93
343	Polymorphism complexity and handedness inversion in serum albumin amyloid fibrils. <i>ACS Nano</i> , 2013 , 7, 10465-74	16.7	90
342	Responsive self-assembled nanostructured lipid systems for drug delivery and diagnostics. <i>Journal of Colloid and Interface Science</i> , 2016 , 484, 320-339	9.3	90
341	Water in Glassy Carbohydrates: Opening It Up at the Nanolevel. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12436-12441	3.4	85
340	Direct visualization of dispersed lipid bicontinuous cubic phases by cryo-electron tomography. <i>Nature Communications</i> , 2015 , 6, 8915	17.4	84
339	Magnetic assembly of transparent and conducting graphene-based functional composites. <i>Nature Communications</i> , 2016 , 7, 12078	17.4	81
338	Snapshots of fibrillation and aggregation kinetics in multistranded amyloid β -lactoglobulin fibrils. <i>Soft Matter</i> , 2011 , 7, 493-499	3.6	81
337	Gelation, phase behavior, and dynamics of β -lactoglobulin amyloid fibrils at varying concentrations and ionic strengths. <i>Biomacromolecules</i> , 2012 , 13, 3241-52	6.9	79
336	Engineered lysozyme amyloid fibril networks support cellular growth and spreading. <i>Biomacromolecules</i> , 2014 , 15, 599-608	6.9	78
335	Hierarchically structured microfibers of "single stack" perylene bisimide and quaterthiophene nanowires. <i>ACS Nano</i> , 2013 , 7, 8498-508	16.7	78
334	Supramolecular routes towards liquid crystalline side-chain polymers. <i>Soft Matter</i> , 2008 , 4, 952-961	3.6	78
333	Amyloid Beta Pathogenesis: Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC (Adv. Sci. 18/2020). <i>Advanced Science</i> , 2020 , 7, 2070100	13.6	78
332	Enzyme-Mimetic Antioxidant Luminescent Nanoparticles for Highly Sensitive Hydrogen Peroxide Biosensing. <i>ACS Nano</i> , 2017 , 11, 12210-12218	16.7	77
331	pH Influence on the stability of foams with protein-polysaccharide complexes at their interfaces. <i>Food Hydrocolloids</i> , 2010 , 24, 398-405	10.6	77

330	Fibrillar networks of glycyrrhizic acid for hybrid nanomaterials with catalytic features. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5408-12	16.4	72
329	Self-Assembly of Polypeptide/Conjugated Polymer/Polypeptide Triblock Copolymers in Rod-Rod-Rod and Coil-Rod-Coil Conformations. <i>Macromolecules</i> , 2008 , 41, 1846-1852	5.5	72
328	Morphology build-up in dendritic hyperbranched polymer modified epoxy resins: modelling and characterization. <i>Polymer</i> , 2001 , 42, 305-317	3.9	70
327	Effects of the Branching Architecture on the Reactivity of Epoxy/Amine Groups. <i>Macromolecules</i> , 2000 , 33, 4373-4379	5.5	70
326	pH-responsive lyotropic liquid crystals and their potential therapeutic role in cancer treatment. <i>Chemical Communications</i> , 2015 , 51, 6671-4	5.8	69
325	Polysaccharide-induced order-to-order transitions in lyotropic liquid crystals. <i>Langmuir</i> , 2005 , 21, 6165-94		69
324	Nature-Inspired Design and Application of Lipidic Lyotropic Liquid Crystals. <i>Advanced Materials</i> , 2019 , 31, e1900818	24	68
323	ILQINS hexapeptide, identified in lysozyme left-handed helical ribbons and nanotubes, forms right-handed helical ribbons and crystals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4732-9	16.4	68
322	Oil powders and gels from particle-stabilized emulsions. <i>Langmuir</i> , 2012 , 28, 1694-7	4	68
321	Hybrid Amyloid Membranes for Continuous Flow Catalysis. <i>Langmuir</i> , 2015 , 31, 13867-73	4	67
320	Simultaneous control of pH and ionic strength during interfacial rheology of β -lactoglobulin fibrils adsorbed at liquid/liquid Interfaces. <i>Langmuir</i> , 2012 , 28, 12536-43	4	67
319	Confinement-induced liquid crystalline transitions in amyloid fibril cholesteric tactoids. <i>Nature Nanotechnology</i> , 2018 , 13, 330-336	28.7	66
318	Silk micrococoon for protein stabilisation and molecular encapsulation. <i>Nature Communications</i> , 2017 , 8, 15902	17.4	65
317	Morphology and Thermodynamic Behavior of Syndiotactic Polypropylene/Poly(ethylene-co-propylene) Block Polymers Prepared by Living Olefin Polymerization. <i>Macromolecules</i> , 2005 , 38, 851-860	5.5	63
316	Effects of charge double layer and colloidal aggregation on the isotropic-nematic transition of protein fibers in water. <i>Langmuir</i> , 2010 , 26, 10401-5	4	62
315	Oil and drug control the release rate from lyotropic liquid crystals. <i>Journal of Controlled Release</i> , 2015 , 204, 78-84	11.7	61
314	Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water. <i>Advanced Materials</i> , 2020 , 32, e1907932	24	61
313	Liquid-crystalline elastomer-nanoparticle hybrids with reversible switch of magnetic memory. <i>Advanced Materials</i> , 2013 , 25, 1787-91	24	61

312	Amyloid Directed Synthesis of Titanium Dioxide Nanowires and Their Applications in Hybrid Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2012 , 22, 3424-3428	15.6	61
311	Liquid-crystalline polymers from cationic dendronized polymer-anionic lipid complexes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13998-9	16.4	61
310	Structure-Properties Relationship in Proton Conductive Sulfonated Polystyrene- <i>tert</i> -butyl Methacrylate Block Copolymers (sPS- <i>t</i> BMMA). <i>Macromolecules</i> , 2008 , 41, 8130-8137	5.5	60
309	Complexation of β -lactoglobulin fibrils and sulfated polysaccharides. <i>Biomacromolecules</i> , 2011 , 12, 3056-659	6.9	59
308	Efficient purification of arsenic-contaminated water using amyloid-carbon hybrid membranes. <i>Chemical Communications</i> , 2017 , 53, 5714-5717	5.8	58
307	Disassembly and reassembly of amyloid fibrils in water-ethanol mixtures. <i>Biomacromolecules</i> , 2011 , 12, 187-93	6.9	58
306	Amyloid-mediated synthesis of giant, fluorescent, gold single crystals and their hybrid sandwiched composites driven by liquid crystalline interactions. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 90-6	9.3	58
305	Macroscopic alignment of lyotropic liquid crystals using magnetic nanoparticles. <i>Advanced Materials</i> , 2011 , 23, 3932-7	24	57
304	Secondary Structure-Induced Micro- and Macrophase Separation in Rod-Coil Polypeptide Diblock, Triblock, and Star-Block Copolymers. <i>Macromolecules</i> , 2010 , 43, 1093-1100	5.5	57
303	Poly(3-hexylthiophene)- <i>b</i> -poly(3-cyclohexylthiophene): Synthesis, microphase separation, thin film transistors, and photovoltaic applications. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 614-626	2.5	57
302	Poly[2,7-(9,9-dihexylfluorene)]-block-poly(2-vinylpyridine) Rod-Coil and Coil-Rod-Coil Block Copolymers: Synthesis, Morphology and Photophysical Properties in Methanol/THF Mixed Solvents. <i>Macromolecules</i> , 2008 , 41, 8759-8769	5.5	57
301	Perforated bicontinuous cubic phases with pH-responsive topological channel interconnectivity. <i>Small</i> , 2013 , 9, 3602-9	11	56
300	Magnetic-responsive hybrids of Fe ₃ O ₄ nanoparticles with β -lactoglobulin amyloid fibrils and nanoclusters. <i>ACS Nano</i> , 2013 , 7, 6146-55	16.7	55
299	Weakly Segregated Smectic C Lamellar Clusters in Blends of Rods and Rod-Coil Block Copolymers. <i>Macromolecules</i> , 2007 , 40, 3277-3286	5.5	55
298	Structural and rheological investigation of Fd3m inverse micellar cubic phases. <i>Langmuir</i> , 2007 , 23, 9618-28	7.2	55
297	Core-shell nanoparticle monolayers at planar liquid-liquid interfaces: effects of polymer architecture on the interface microstructure. <i>Soft Matter</i> , 2013 , 9, 3789	3.6	54
296	Real Space Imaging and Molecular Packing of Dendronized Polymer-lipid Supramolecular Complexes. <i>Macromolecules</i> , 2007 , 40, 7609-7616	5.5	53
295	Synthesis and Characterization of Linear Poly(dialkylstannane)s. <i>Macromolecules</i> , 2007 , 40, 7878-7889	5.5	52

294	Competition between crystal and fibril formation in molecular mutations of amyloidogenic peptides. <i>Nature Communications</i> , 2017 , 8, 1338	17.4	51
293	Design of ultra-swollen lipidic mesophases for the crystallization of membrane proteins with large extracellular domains. <i>Nature Communications</i> , 2018 , 9, 544	17.4	50
292	Thermoreversible Gel Sol Behavior of Rod-Coil-Rod Peptide-Based Triblock Copolymers. <i>Macromolecules</i> , 2012 , 45, 1982-1990	5.5	50
291	Nanotopographic surfaces with defined surface chemistries from amyloid fibril networks can control cell attachment. <i>Biomacromolecules</i> , 2013 , 14, 2305-16	6.9	50
290	Spray-dried oil powder with ultrahigh oil content. <i>Langmuir</i> , 2010 , 26, 16658-61	4	50
289	Unravelling adsorption and alignment of amyloid fibrils at interfaces by probe particle tracking. <i>Soft Matter</i> , 2011 , 7, 8127	3.6	50
288	Cross linking and rheological characterization of adsorbed protein layers at the oil-water interface. <i>Langmuir</i> , 2005 , 21, 9689-97	4	49
287	Gelatin-Graphene Nanocomposites with Ultralow Electrical Percolation Threshold. <i>Advanced Materials</i> , 2016 , 28, 6914-20	24	49
286	Comblike Liquid-Crystalline Polymers from Ionic Complexation of Dendronized Polymers and Lipids. <i>Macromolecules</i> , 2007 , 40, 2822-2830	5.5	48
285	Primary, Secondary, Tertiary and Quaternary Structure Levels in Linear Polysaccharides: From Random Coil, to Single Helix to Supramolecular Assembly. <i>Biomacromolecules</i> , 2019 , 20, 1731-1739	6.9	48
284	Modification approaches of plant-based proteins to improve their techno-functionality and use in food products. <i>Food Hydrocolloids</i> , 2021 , 118, 106789	10.6	48
283	Colloidal Ordered Assemblies in a Polymer Shell: A Novel Type of Magnetic Nanobeads for Theranostic Applications. <i>Chemistry of Materials</i> , 2013 , 25, 1055-1062	9.6	47
282	Modulating self-assembly of a nanotape-forming peptide amphiphile with an oppositely charged surfactant. <i>Soft Matter</i> , 2012 , 8, 217-226	3.6	47
281	Thermotropic Ionic Liquid Crystals via Self-Assembly of Cationic Hyperbranched Polypeptides and Anionic Surfactants. <i>Macromolecules</i> , 2007 , 40, 8374-8383	5.5	47
280	Controlling enzymatic activity and kinetics in swollen mesophases by physical nano-confinement. <i>Nanoscale</i> , 2014 , 6, 6853-9	7.7	46
279	Influence of end-capping on the self-assembly of model amyloid peptide fragments. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 2107-16	3.4	46
278	Anomalous phase sequences in lyotropic liquid crystals. <i>Physical Review Letters</i> , 2007 , 99, 187801	7.4	46
277	Assessing the Binding Performance of Amyloid-Carbon Membranes toward Heavy Metal Ions. <i>Langmuir</i> , 2019 , 35, 4161-4170	4	46

276	Towards lysozyme nanotube and 3D hybrid self-assembly. <i>Nanoscale</i> , 2013 , 5, 7197-201	7.7	45
275	Correlation between nanomechanics and polymorphic conformations in amyloid fibrils. <i>ACS Nano</i> , 2014 , 8, 11035-41	16.7	44
274	The effect of pH on the self-assembly of a collagen derived peptide amphiphile. <i>Soft Matter</i> , 2013 , 9, 6033	3.6	43
273	New biocompatible thermo-reversible hydrogels from PNIPAM-decorated amyloid fibrils. <i>Chemical Communications</i> , 2011 , 47, 2913-5	5.8	43
272	Frustrated self-assembly of dendron and dendrimer-based supramolecular liquid crystals. <i>Soft Matter</i> , 2009 , 5, 92-97	3.6	43
271	Lipidic Cubic Phases as a Versatile Platform for the Rapid Detection of Biomarkers, Viruses, Bacteria, and Parasites. <i>Advanced Functional Materials</i> , 2016 , 26, 181-190	15.6	43
270	Nanocellulose Fragmentation Mechanisms and Inversion of Chirality from the Single Particle to the Cholesteric Phase. <i>ACS Nano</i> , 2018 , 12, 5141-5148	16.7	43
269	Unravelling secondary structure changes on individual anionic polysaccharide chains by atomic force microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5376-9	16.4	42
268	Equilibrium and non-equilibrium structures in complex food systems. <i>Food Hydrocolloids</i> , 2007 , 21, 674-682	18.6	42
267	High Internal Phase Polymeric Emulsions by Self-Assembly of Colloidal Systems. <i>Macromolecules</i> , 2003 , 36, 4466-4471	5.5	42
266	Tunable carbon nanotube/protein core-shell nanoparticles with NIR- and enzymatic-responsive cytotoxicity. <i>Advanced Materials</i> , 2013 , 25, 1010-5	24	41
265	Fibrillation of β -lactoglobulin at low pH in the presence of a complexing anionic polysaccharide. <i>Langmuir</i> , 2010 , 26, 17449-58	4	41
264	Oleoylethanolamide-based lyotropic liquid crystals as vehicles for delivery of amino acids in aqueous environment. <i>Biophysical Journal</i> , 2009 , 96, 1537-46	2.9	41
263	Biotinylated Cubosomes: A Versatile Tool for Active Targeting and Codelivery of Paclitaxel and a Fluorescein-Based Lipid Dye. <i>Langmuir</i> , 2015 , 31, 12770-6	4	40
262	Bridging the gap between the nanostructural organization and macroscopic interfacial rheology of amyloid fibrils at liquid interfaces. <i>Langmuir</i> , 2014 , 30, 10090-7	4	40
261	Macroscopic single-crystal gold microflakes and their devices. <i>Advanced Materials</i> , 2015 , 27, 1945-50	24	40
260	Functionalization of multiwalled carbon nanotubes and their pH-responsive hydrogels with amyloid fibrils. <i>Langmuir</i> , 2012 , 28, 10142-6	4	40
259	Self-healing fish gelatin/sodium montmorillonite biohybrid coacervates: structural and rheological characterization. <i>Biomacromolecules</i> , 2012 , 13, 2136-47	6.9	40

258	A New Level of Hierarchical Structure Control by Use of Supramolecular Self-Assembled Dendronized Block Copolymers. <i>Advanced Materials</i> , 2008 , 20, 4530-4534	24	40
257	Amyloid fibrils enhance transport of metal nanoparticles in living cells and induced cytotoxicity. <i>Biomacromolecules</i> , 2014 , 15, 2793-9	6.9	39
256	Anomalous stiffening and ion-induced coil-helix transition of carrageenans under monovalent salt conditions. <i>Biomacromolecules</i> , 2015 , 16, 985-91	6.9	39
255	Universal behavior in the mesoscale properties of amyloid fibrils. <i>Physical Review Letters</i> , 2014 , 113, 2681-03	10.3	39
254	Amyloid fibril-directed synthesis of silica core-shell nanofilaments, gels, and aerogels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4012-4017	11.5	39
253	Polymorphism in bovine serum albumin fibrils: morphology and statistical analysis. <i>Faraday Discussions</i> , 2013 , 166, 151-62	3.6	38
252	Enzyme immobilization on silicate glass through simple adsorption of dendronized polymer-enzyme conjugates for localized enzymatic cascade reactions. <i>RSC Advances</i> , 2015 , 5, 44530-44544	3.7	38
251	Plenty of room to crystallize: swollen lipidic mesophases for improved and controlled in-meso protein crystallization. <i>Soft Matter</i> , 2012 , 8, 6535	3.6	38
250	Self-assembly and induced circular dichroism in dendritic supramolecules with cholesteric pendant groups. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10882-90	16.4	38
249	Adsorption and Interfacial Layer Structure of Unmodified Nanocrystalline Cellulose at Air/Water Interfaces. <i>Langmuir</i> , 2018 , 34, 15195-15202	4	38
248	Adsorption at liquid interfaces induces amyloid fibril bending and ring formation. <i>ACS Nano</i> , 2014 , 8, 11071-9	16.7	37
247	Controlling anisotropic drug diffusion in lipid-Fe ₃ O ₄ nanoparticle hybrid mesophases by magnetic alignment. <i>Langmuir</i> , 2013 , 29, 999-1004	4	37
246	Twofold light and magnetic responsive behavior in nanoparticle-lyotropic liquid crystal systems. <i>Langmuir</i> , 2012 , 28, 5589-95	4	37
245	Nanostructural Properties and Twist Periodicity of Cellulose Nanofibrils with Variable Charge Density. <i>Biomacromolecules</i> , 2019 , 20, 1288-1296	6.9	36
244	Ice-Templated and Cross-Linked Amyloid Fibril Aerogel Scaffolds for Cell Growth. <i>Biomacromolecules</i> , 2017 , 18, 2858-2865	6.9	36
243	Cofibrillization of Pathogenic and Functional Amyloid Proteins with Gold Nanoparticles against Amyloidogenesis. <i>Biomacromolecules</i> , 2017 , 18, 4316-4322	6.9	36
242	Hierarchical Structures in Lamellar Hydrogen Bonded LC Side Chain Diblock Copolymers. <i>Macromolecules</i> , 2012 , 45, 7091-7097	5.5	35
241	Amyloid Fibrils Length Controls Shape and Structure of Nematic and Cholesteric Tactoids. <i>ACS Nano</i> , 2019 , 13, 591-600	16.7	35

240	Amyloid-Polyphenol Hybrid Nanofilaments Mitigate Colitis and Regulate Gut Microbial Dysbiosis. <i>ACS Nano</i> , 2020 , 14, 2760-2776	16.7	34
239	Protein nanofibrils for next generation sustainable water purification. <i>Nature Communications</i> , 2021 , 12, 3248	17.4	34
238	Transition Metal Dichalcogenide-Silk Nanofibril Membrane for One-Step Water Purification and Precious Metal Recovery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24521-24530	9.5	33
237	Structure and enzymatic properties of molecular dendronized polymer-enzyme conjugates and their entrapment inside giant vesicles. <i>Langmuir</i> , 2013 , 29, 10831-40	4	33
236	Phospholipid-based nonlamellar mesophases for delivery systems: bridging the gap between empirical and rational design. <i>Advances in Colloid and Interface Science</i> , 2014 , 209, 127-43	14.3	33
235	Microtubule-Binding R3 Fragment from Tau Self-Assembles into Giant Multistranded Amyloid Ribbons. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 618-22	16.4	33
234	Generation of geometrically ordered lipid-based liquid-crystalline nanoparticles using biologically relevant enzymatic processing. <i>Langmuir</i> , 2014 , 30, 5373-7	4	32
233	Novel Phase Morphologies in a Microphase-Separated Dendritic Polymer Melt. <i>Macromolecules</i> , 2009 , 42, 849-859	5.5	32
232	Supramolecular chiral self-assembly and supercoiling behavior of carrageenans at varying salt conditions. <i>Nanoscale</i> , 2015 , 7, 16182-8	7.7	31
231	In Vivo Mitigation of Amyloidogenesis through Functional-Pathogenic Double-Protein Coronae. <i>Nano Letters</i> , 2018 , 18, 5797-5804	11.5	31
230	Resolving self-assembly of bile acids at the molecular length scale. <i>Langmuir</i> , 2012 , 28, 5999-6005	4	31
229	Controlled embedment and release of DNA from lipidic reverse columnar hexagonal mesophases. <i>Soft Matter</i> , 2011 , 7, 8162	3.6	31
228	A supramolecular bottle-brush approach to disassemble amyloid fibrils. <i>Soft Matter</i> , 2011 , 7, 3571	3.6	31
227	Scanning-SAXS of microfluidic flows: nanostructural mapping of soft matter. <i>Lab on A Chip</i> , 2016 , 16, 4028-4035	7.2	31
226	Inorganic-organic elastomer nanocomposites from integrated ellipsoidal silica-coated hematite nanoparticles as crosslinking agents. <i>Nanotechnology</i> , 2010 , 21, 185603	3.4	30
225	Enzyme Kinetics in Liquid Crystalline Mesophases: Size Matters, But Also Topology. <i>Langmuir</i> , 2015 , 31, 4558-65	4	29
224	Elasticity in Physically Cross-Linked Amyloid Fibril Networks. <i>Physical Review Letters</i> , 2018 , 120, 158103	7.4	29
223	Amyloid Templated Organic-Inorganic Hybrid Aerogels. <i>Advanced Functional Materials</i> , 2018 , 28, 1703609	5.6	29

222	Reversible aggregation of DNA-decorated gold nanoparticles controlled by molecular recognition. <i>Langmuir</i> , 2013 , 29, 10824-30	4	29
221	Low-temperature preparation of tailored carbon nanostructures in water. <i>Nano Letters</i> , 2012 , 12, 2573-8	1.5	29
220	Phase behavior of lipid-based lyotropic liquid crystals in presence of colloidal nanoparticles. <i>Langmuir</i> , 2011 , 27, 9792-800	4	29
219	Tuning in-meso-crystallized lysozyme polymorphism by lyotropic liquid crystal symmetry. <i>Langmuir</i> , 2011 , 27, 6418-25	4	29
218	Surface Energetics Evolution during Processing of Epoxy Resins. <i>Journal of Colloid and Interface Science</i> , 2000 , 222, 55-62	9.3	29
217	Recent advances of non-lamellar lyotropic liquid crystalline nanoparticles in nanomedicine. <i>Current Opinion in Colloid and Interface Science</i> , 2020 , 48, 28-39	7.6	28
216	Lipidic Mesophases as Novel Nanoreactor Scaffolds for Organocatalysts: Heterogeneously Catalyzed Asymmetric Aldol Reactions in Confined Water. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5114-5124	9.5	28
215	Amyloid Fibrils form Hybrid Colloidal Gels and Aerogels with Dispersed CaCO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2017 , 27, 1700897	15.6	28
214	Particle tracking microrheology of lyotropic liquid crystals. <i>Langmuir</i> , 2011 , 27, 6171-8	4	28
213	Design of Light-Triggered Lyotropic Liquid Crystal Mesophases and Their Application as Molecular Switches in "On Demand" Release. <i>Langmuir</i> , 2015 , 31, 6981-7	4	27
212	Water-in-oil nanostructured emulsions: towards the structural hierarchy of liquid crystalline materials. <i>Soft Matter</i> , 2010 , 6, 5615	3.6	27
211	Direct Imaging of Nanoscopic Plastic Deformation below Bulk T _g and Chain Stretching in Temperature-Responsive Block Copolymer Hydrogels by Cryo-TEM. <i>Macromolecules</i> , 2008 , 41, 3243-3249	5.5	27
210	Soft condensed matter physics of foods and macronutrients. <i>Nature Reviews Physics</i> , 2019 , 1, 551-566	23.6	26
209	Phase behavior of a designed cyclopropyl analogue of monoolein: implications for low-temperature membrane protein crystallization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1027-31	16.4	26
208	Sub-persistence-length complex scaling behavior in lysozyme amyloid fibrils. <i>Physical Review Letters</i> , 2011 , 107, 238101	7.4	26
207	A thermodynamic model for thermoset polymer blends with reactive modifiers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 1893-1902	2.6	26
206	Nanoscale inhibition of polymorphic and ambidextrous IAPP amyloid aggregation with small molecules. <i>Nano Research</i> , 2018 , 11, 3636-3647	10	26
205	Curvature and bottlenecks control molecular transport in inverse bicontinuous cubic phases. <i>Journal of Chemical Physics</i> , 2018 , 148, 054902	3.9	25

204	Light-Controlled Actuation, Transduction, and Modulation of Magnetic Strength in Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2014 , 24, 3179-3186	15.6	25
203	Lyotropic Liquid Crystalline Cubic Phases as Versatile Host Matrices for Membrane-Bound Enzymes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1507-12	6.4	25
202	Soft biomimetic nanoconfinement promotes amorphous water over ice. <i>Nature Nanotechnology</i> , 2019 , 14, 609-615	28.7	24
201	Influence of electrostatic interactions on the release of charged molecules from lipid cubic phases. <i>Langmuir</i> , 2014 , 30, 4280-8	4	24
200	Self-assembly and fibrillization of a Fmoc-functionalized polyphenolic amino acid. <i>Soft Matter</i> , 2013 , 9, 10239	3.6	24
199	Synthesis of poly(paraphenylene vinylene)-polystyrene-based rod-coil block copolymer by atom transfer radical polymerization: Toward a self-organized lamellar semiconducting material. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3664-3670	2.9	24
198	Evaluation of solubility parameters during polymerisation of amine-cured epoxy resins. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 1883-1892	2.6	24
197	Self-assembly of PS-b-P4VP block copolymers of varying architectures in aerosol nanospheres. <i>Soft Matter</i> , 2013 , 9, 1492-1499	3.6	23
196	Ion-Induced Formation of Nanocrystalline Cellulose Colloidal Glasses Containing Nematic Domains. <i>Langmuir</i> , 2019 , 35, 4117-4124	4	22
195	Edible supramolecular chiral nanostructures by self-assembly of an amphiphilic phytosterol conjugate. <i>Soft Matter</i> , 2012 , 8, 149-155	3.6	22
194	The Molecular Dance of Fibronectin: Conformational Flexibility Leads to Functional Versatility. <i>Biomacromolecules</i> , 2019 , 20, 55-72	6.9	22
193	Mechanically Enhanced Liquid Interfaces at Human Body Temperature Using Thermosensitive Methylated Nanocrystalline Cellulose. <i>Langmuir</i> , 2016 , 32, 1396-404	4	21
192	Polynuclear iron(II)-aminotriazole spincrossover complexes (polymers) in solution. <i>Inorganic Chemistry</i> , 2014 , 53, 3546-57	5.1	21
191	Facile dispersion and control of internal structure in lyotropic liquid crystalline particles by auxiliary solvent evaporation. <i>Langmuir</i> , 2014 , 30, 14452-9	4	21
190	Synthesis and Self-Assembly Behavior of Poly(fluorenylstyrene)-block-poly(2-vinylpyridine) Block Copolymers and Their Blends with Single Wall Carbon Nanotubes (SWCNTs). <i>Macromolecules</i> , 2009 , 42, 5793-5801	5.5	21
189	Self-Organization on Multiple Length Scales in Hairy Rod-Coil Block Copolymer Supramolecular Complexes. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 299-303	4.8	21
188	Design of liquid-crystalline foods via field theoretic computer simulations. <i>Trends in Food Science and Technology</i> , 2006 , 17, 220-226	15.3	21
187	Tailoring Morphologies in Polymeric High Internal Phase Emulsions by Selective Solvent Casting. <i>Macromolecules</i> , 2003 , 36, 4457-4465	5.5	21

- 186 Chemically induced phase separated morphologies in epoxy resin-hyperbranched polymer blends. *Macromolecular Symposia*, **2000**, 149, 17-22 0.8 21
- 185 Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC. *Advanced Science*, **2020**, 7, 2001299 13.6 21
- 184 Multifunctional Nano-Biointerfaces: Cytocompatible Antimicrobial Nanocarriers from Stabilizer-Free Cubosomes. *Advanced Functional Materials*, **2019**, 29, 1904007 15.6 20
- 183 Self-assembly of a model peptide incorporating a hexa-histidine sequence attached to an oligo-alanine sequence, and binding to gold NTA/nickel nanoparticles. *Biomacromolecules*, **2014**, 15, 3412-20 6.9 20
- 182 A reverse micellar mesophase of face-centered cubic Fm3m symmetry in phosphatidylcholine/water/organic solvent ternary systems. *Langmuir*, **2013**, 29, 15805-12 4 20
- 181 Hierarchical self-organization in polyelectrolyte-surfactant complexes based on heteroarm star block copolyampholytes. *Soft Matter*, **2009**, 5, 2371 3.6 20
- 180 Water-processable, biodegradable and coatable aquaplastic from engineered biofilms. *Nature Chemical Biology*, **2021**, 17, 732-738 11.7 20
- 179 A macroscopic H⁺ and Cl⁻ 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, 7491-6 11.5 20
- 178 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 3.1 19
- 177 Sol-gel transition of charged fibrils composed of a model amphiphilic peptide. *Journal of Colloid and Interface Science*, **2015**, 437, 244-251 9.3 19
- 176 Micro- and nanoscale hierarchical structure of core-shell protein microgels. *Journal of Materials Chemistry B*, **2016**, 4, 7989-7999 7.3 19
- 175 Stimuli-responsive lipidic cubic phase: triggered release and sequestration of guest molecules. *Chemistry - A European Journal*, **2015**, 21, 1873-7 4.8 19
- 174 Growth and alignment of thin film organic single crystals from dewetting patterns. *ACS Nano*, **2013**, 7, 5506-13 16.7 19
- 173 Recreating the synthesis of starch granules in yeast. *ELife*, **2016**, 5, 8.9 19
- 172 Efficient Asymmetric Synthesis of Carbohydrates by Aldolase Nano-Confined in Lipidic Cubic Mesophases. *ACS Catalysis*, **2018**, 8, 5810-5815 13.1 19
- 171 Interactions of Lipidic Cubic Phase Nanoparticles with Lipid Membranes. *Langmuir*, **2016**, 32, 9640-8 4 18
- 170 Freeze-Thaw Cycling Induced Isotropic-Nematic Coexistence of Amyloid Fibrils Suspensions. *Langmuir*, **2016**, 32, 2492-9 4 18
- 169 Controlling Supramolecular Chiral Nanostructures by Self-Assembly of a Biomimetic β -Sheet-Rich Amyloidogenic Peptide. *ACS Nano*, **2018**, 12, 9152-9161 16.7 18

168	Designing Cellulose Nanofibrils for Stabilization of Fluid Interfaces. <i>Biomacromolecules</i> , 2019 , 20, 4574-4580	4.9	18
167	On the Role of Block Copolymers in Self-Assembly of Dense Colloidal Polymeric Systems. <i>Langmuir</i> , 2003 , 19, 8144-8147	4	18
166	Modulating the Mechanical Performance of Macroscale Fibers through Shear-Induced Alignment and Assembly of Protein Nanofibrils. <i>Small</i> , 2020 , 16, e1904190	11	18
165	An antiviral trap made of protein nanofibrils and iron oxyhydroxide nanoparticles. <i>Nature Nanotechnology</i> , 2021 , 16, 918-925	28.7	18
164	Continuous Isotropic-Nematic Transition in Amyloid Fibril Suspensions Driven by Thermophoresis. <i>Scientific Reports</i> , 2017 , 7, 1211	4.9	17
163	Stable Immobilization of Enzymes in a Macro- and Mesoporous Silica Monolith. <i>ACS Omega</i> , 2019 , 4, 7795-7806	3.7	17
162	Application of superabsorbent polymers (SAP) as desiccants to dry maize and reduce aflatoxin contamination. <i>Journal of Food Science and Technology</i> , 2016 , 53, 3157-3165	3.3	17
161	Ubiquitous aluminium contamination in water and amyloid hybrid membranes as a sustainable possible solution. <i>Chemical Communications</i> , 2019 , 55, 11143-11146	5.8	17
160	Strain-induced macroscopic magnetic anisotropy from smectic liquid-crystalline elastomer-maghemite nanoparticle hybrid nanocomposites. <i>Nanoscale</i> , 2013 , 5, 5539-48	7.7	17
159	Modulating the crystal size and morphology of in meso-crystallized lysozyme by precisely controlling the water channel size of the hosting mesophase. <i>Soft Matter</i> , 2013 , 9, 1010-1014	3.6	17
158	Thermally sensitive block copolymer particles prepared via aerosol flow reactor method: Morphological characterization and behavior in water. <i>Macromolecules</i> , 2012 , 45, 8401-8411	5.5	17
157	Direct Observation of Time-Resolved Polymorphic States in the Self-Assembly of End-Capped Heptapeptides. <i>Angewandte Chemie</i> , 2011 , 123, 5609-5612	3.6	17
156	Sustainable Removal of Microplastics and Natural Organic Matter from Water by Coagulation-Flocculation with Protein Amyloid Fibrils. <i>Environmental Science & Technology</i> , 2021 , 55, 8848-8858	10.3	17
155	Lipid self-assembled structures for reactivity control in food. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	17
154	Oil transfer converts phosphatidylcholine vesicles into nonlamellar lyotropic liquid crystalline particles. <i>Langmuir</i> , 2015 , 31, 96-104	4	16
153	A Short Peptide Hydrogel with High Stiffness Induced by 3-Helices to β Sheet Transition in Water. <i>Advanced Science</i> , 2019 , 6, 1901173	13.6	16
152	Reconstitution of OmpF membrane protein on bended lipid bilayers: perforated hexagonal mesophases. <i>Chemical Communications</i> , 2014 , 50, 2642-5	5.8	16
151	Hierarchical Structures of Hydrogen-Bonded Liquid-Crystalline Side-Chain Diblock Copolymers in Nanoparticles. <i>Macromolecules</i> , 2012 , 45, 8743-8751	5.5	16

150	Bent-Core Based Main-Chain Polymers Showing the Dark Conglomerate Liquid Crystal Phase. <i>Macromolecules</i> , 2011 , 44, 9586-9594	5.5	16
149	Self-Assembly of Rod-Coil Block Copolymers for Photovoltaic Applications. <i>Macromolecular Symposia</i> , 2008 , 268, 28-32	0.8	16
148	Phase separation and gelation of epoxy resin/hyperbranched polymer blends. <i>Polymer Engineering and Science</i> , 2002 , 42, 249-257	2.3	16
147	Phase separation in epoxy resin-reactive dendritic hyperbranched polymer blends. <i>Polymer Engineering and Science</i> , 2001 , 41, 43-52	2.3	16
146	Confinement-Induced Ordering and Self-Folding of Cellulose Nanofibrils. <i>Advanced Science</i> , 2019 , 6, 1801540	1.4	16
145	Absolute Quantification of Amyloid Propagons by Digital Microfluidics. <i>Analytical Chemistry</i> , 2017 , 89, 12306-12313	7.8	15
144	Modifying the Contact Angle of Anisotropic Cellulose Nanocrystals: Effect on Interfacial Rheology and Structure. <i>Langmuir</i> , 2018 , 34, 10932-10942	4	15
143	Diyne-Functionalized Fullerene Self-Assembly for Thin Film Solid-State Polymerization. <i>Macromolecules</i> , 2014 , 47, 721-728	5.5	15
142	Gels, xerogels and films of polynuclear iron(II)βaminotriazole spin-crossover polymeric complexes. <i>RSC Advances</i> , 2014 , 4, 60842-60852	3.7	15
141	Enhanced properties of polyurea elastomeric nanocomposites with anisotropic functionalised nanofillers. <i>Polymer</i> , 2013 , 54, 4194-4203	3.9	15
140	Squid Suckerin Biomimetic Peptides Form Amyloid-like Crystals with Robust Mechanical Properties. <i>Biomacromolecules</i> , 2017 , 18, 4240-4248	6.9	15
139	Influence of the βSheet Content on the Mechanical Properties of Aggregates during Amyloid Fibrillization. <i>Angewandte Chemie</i> , 2015 , 127, 2492-2496	3.6	15
138	Resonance light scattering in dye-aggregates forming in dewetting droplets. <i>ACS Nano</i> , 2014 , 8, 10057-6667	6.7	15
137	Templating effects of lyotropic liquid crystals in the encapsulation of amyloid fibrils and their stimuli-responsive magnetic behavior. <i>Soft Matter</i> , 2011 , 7, 3348	3.6	15
136	Tuneable thickness barriers for composite o/w and w/o capsules, films, and their decoration with particles. <i>Soft Matter</i> , 2011 , 7, 9206	3.6	15
135	Controlling Hierarchical Self-Assembly in Supramolecular Tailed-Dendron Systems. <i>Macromolecules</i> , 2010 , 43, 4752-4760	5.5	15
134	Apo ferritin Protein Amyloid Fibrils with Tunable Chirality and Polymorphism. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1606-1613	16.4	15
133	Liquid crystalline filamentous biological colloids: Analogies and differences. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 38, 30-44	7.6	15

132	Thermo-responsive peptide-based triblock copolymer hydrogels. <i>Soft Matter</i> , 2013 , 9, 4304	3.6	14
131	Orientalional Behavior of Ellipsoidal Silica-Coated Hematite Nanoparticles Integrated within an Elastomeric Matrix and its Mechanical Reinforcement. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 627-634	2.6	14
130	Relaxation dynamics in bio-colloidal cholesteric liquid crystals confined to cylindrical geometry. <i>Nature Communications</i> , 2020 , 11, 4616	17.4	14
129	Metal ions confinement defines the architecture of G-quartet, G-quadruplex fibrils and their assembly into nematic tactoids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9832-9839	11.5	14
128	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. <i>Cellulose</i> , 2021 , 28, 1387-1403	5.5	14
127	Overcoming Endocytosis Deficiency by Cubosome Nanocarriers.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2490-2499	4.2	13
126	Designing Plasmonic Eigenstates for Optical Signal Transmission in Planar Channel Devices. <i>ACS Photonics</i> , 2018 , 5, 2328-2335	6.3	13
125	Structure, diffusion, and permeability of protein-stabilized monodispersed oil in water emulsions and their gels: a self-diffusion NMR study. <i>Langmuir</i> , 2010 , 26, 6184-92	4	13
124	Amyloid hybrid membranes for removal of clinical and nuclear radioactive wastewater. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 3249-3254	4.2	13
123	Six-fold director field configuration in amyloid nematic and cholesteric phases. <i>Scientific Reports</i> , 2019 , 9, 12654	4.9	12
122	Controlled aggregation of peptideDNA hybrids into amyloid-like fibrils. <i>European Polymer Journal</i> , 2015 , 65, 268-275	5.2	12
121	Amyloid-Polymorphie in der Energielandschaft der Faltung und Aggregation von Proteinen. <i>Angewandte Chemie</i> , 2018 , 130, 8502-8515	3.6	12
120	Rheology of Ultraswollen Bicontinuous Lipidic Cubic Phases. <i>Langmuir</i> , 2018 , 34, 5052-5059	4	12
119	Viscoelasticity and interface bending properties of lecithin reverse wormlike micelles studied by diffusive wave spectroscopy in hydrophobic environment. <i>Langmuir</i> , 2014 , 30, 10751-9	4	12
118	Self-Winding Gelatin-Amyloid Wires for Soft Actuators and Sensors. <i>Advanced Materials</i> , 2020 , 32, e2004941	4.4	12
117	Diffusion of Polymers through Periodic Networks of Lipid-Based Nanochannels. <i>Langmuir</i> , 2017 , 33, 3491-3498	4.1	11
116	Copolyampholytes Produced from RAFT Polymerization of Protic Ionic Liquids. <i>Macromolecules</i> , 2017 , 50, 8965-8978	5.5	11
115	Biomass vs inorganic and plastic-based aerogels: Structural design, functional tailoring, resource-efficient applications and sustainability analysis. <i>Progress in Materials Science</i> , 2022 , 125, 100915	12.2	11

114	Lipidic Mesophase-Embedded Palladium Nanoparticles: Synthesis and Tunable Catalysts in Suzuki-Miyaura Cross-Coupling Reactions. <i>Langmuir</i> , 2019 , 35, 120-127	4	11
113	The interplay of channel geometry and molecular features determines diffusion in lipidic cubic phases. <i>Journal of Chemical Physics</i> , 2019 , 150, 094901	3.9	10
112	Continuous Paranematic Ordering of Rigid and Semiflexible Amyloid-Fe ₃ O ₄ Hybrid Fibrils in an External Magnetic Field. <i>Biomacromolecules</i> , 2016 , 17, 2555-61	6.9	10
111	Microtubule-Binding R3 Fragment from Tau Self-Assembles into Giant Multistranded Amyloid Ribbons. <i>Angewandte Chemie</i> , 2016 , 128, 628-632	3.6	10
110	Spinning Angora Rabbit Wool-Like Porous Fibers from a Non-Equilibrated Gelatin/Water/2-Propanol Mixture. <i>Advanced Functional Materials</i> , 2014 , 24, 1831-1839	15.6	10
109	Synthesis, morphology, and field-effect transistor characteristics of new crystalline/crystalline diblock copolymers of poly(3-hexylthiophene-block-steryl acrylate). <i>Journal of Polymer Science Part A</i> , 2012 , 50, 686-695	2.5	10
108	Rigid, Fibrillar Quaternary Structures Induced by Divalent Ions in a Carboxylated Linear Polysaccharide. <i>ACS Macro Letters</i> , 2020 , 9, 115-121	6.6	10
107	Flow-induced order-order transitions in amyloid fibril liquid crystalline tactoids. <i>Nature Communications</i> , 2020 , 11, 5416	17.4	10
106	Covalent Hactoglobulin-maltodextrin amyloid fibril conjugate prepared by the Maillard reaction. <i>Food Chemistry</i> , 2021 , 342, 128388	8.5	10
105	Trans-Scale 2D Synthesis of Millimeter-Large Au Single Crystals via Silk Fibroin Templates. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12419-12425	8.3	10
104	Dynamic formation of nanostructured particles from vesicles via invertase hydrolysis for on-demand delivery. <i>RSC Advances</i> , 2017 , 7, 4368-4377	3.7	9
103	Spatiotemporal Control of Enzyme-Induced Crystallization Under Lyotropic Liquid Crystal Nanoconfinement. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7289-7293	16.4	9
102	Biomimetic self-assembly of recombinant marine snail egg capsule proteins into structural coiled-coil units. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2671-2684	7.3	9
101	Active Gating, Molecular Pumping, and Turnover Determination in Biomimetic Lipidic Cubic Mesophases with Reconstituted Membrane Proteins. <i>ACS Nano</i> , 2017 , 11, 11687-11693	16.7	9
100	Amyloid Fibril-Templated High-Performance Conductive Aerogels with Sensing Properties. <i>Small</i> , 2020 , 16, e2004932	11	9
99	Quantifying the transport properties of lipid mesophases by theoretical modelling of diffusion experiments. <i>Journal of Chemical Physics</i> , 2016 , 145, 084903	3.9	9
98	Wetting behaviour and direct observation of thermally responsive polystyrene-block-poly(N-isopropylacrylamide)-block-polystyrene electrospun fibres in aqueous environment. <i>Polymer International</i> , 2014 , 63, 37-43	3.3	8
97	Magnetic Control of Macromolecular Conformations in Supramolecular Anionic Polysaccharide-Iron Complexes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13289-92	16.4	8

96	Re-entrant isotropic-nematic phase behavior in polymer-depleted amyloid fibrils. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 464112	1.8	8
95	Liquid crystalline period variations in self-assembled block copolypeptides-surfactant ionic complexes. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 265-9	4.8	8
94	Functional Columnar Liquid Crystalline Phases From Ionic Complexes of Dendronized Polymers and Sulfate Alkyl Tails. <i>Macromolecular Symposia</i> , 2008 , 270, 58-64	0.8	8
93	Investigating the Mechanism of Cyclodextrins in the Treatment of Niemann-Pick Disease Type C Using Crosslinked 2-Hydroxypropyl-β-cyclodextrin. <i>Small</i> , 2020 , 16, e2004735	11	8
92	Structure and Nanomechanics of Dry and Hydrated Intermediate Filament Films and Fibers Produced from Hagfish Slime Fibers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40460-40473	9.5	8
91	Sustainable Bioplastics from Amyloid Fibril-Biodegradable Polymer Blends. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11916-11926	8.3	8
90	Selective and Efficient Removal of Fluoride from Water: In Situ Engineered Amyloid Fibril/ZrO ₂ Hybrid Membranes. <i>Angewandte Chemie</i> , 2019 , 131, 6073-6077	3.6	7
89	Probing the Structure of Filamentous Nonergodic Gels by Dynamic Light Scattering. <i>Macromolecules</i> , 2020 , 53, 5950-5956	5.5	7
88	Rheological Theory and Simulation of Surfactant Nematic Liquid Crystals 2012 , 21-77		7
87	Different Folding States from the Same Protein Sequence Determine Reversible vs Irreversible Amyloid Fate. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11473-11481	16.4	7
86	Cell Alignment on Graphene/Amyloid Composites. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800621	4.6	7
85	Membrane-based technologies for per- and poly-fluoroalkyl substances (PFASs) removal from water: Removal mechanisms, applications, challenges and perspectives. <i>Environment International</i> , 2021 , 157, 106876	12.9	7
84	Protein-Eye View of the in Meso Crystallization Mechanism. <i>Langmuir</i> , 2019 , 35, 8344-8356	4	6
83	Drying of African leafy vegetables for their effective preservation: the difference in moisture sorption isotherms explained by their microstructure. <i>Food and Function</i> , 2020 , 11, 955-964	6.1	6
82	The physics of lipidic mesophase delivery systems. <i>Physics Today</i> , 2020 , 73, 38-44	0.9	6
81	Lipid-based mesophases as matrices for nanoscale reactions. <i>Nanoscale Horizons</i> , 2020 , 5, 914-927	10.8	6
80	Nematic field transfer in a two-dimensional protein fibril assembly. <i>Soft Matter</i> , 2016 , 12, 1830-5	3.6	6
79	Structural Transformation in Vesicles upon Hydrolysis of Phosphatidylethanolamine and Phosphatidylcholine with Phospholipase C. <i>Langmuir</i> , 2019 , 35, 14949-14958	4	6

78	Creating gradients of amyloid fibrils from the liquid-liquid interface. <i>Soft Matter</i> , 2019 , 15, 8437-8440	3.6	6
77	Synthesis and morphology of new asymmetric star polymers of poly[4-(9,9-dihexylflorene-2-yl)styrene]-block-poly(2-vinylpyridine) and their non-volatile memory device applications. <i>Soft Matter</i> , 2011 , 7, 8440	3.6	6
76	Functional Carbon Nanoflakes with High Aspect Ratio by Pyrolysis of Cured Templates of Block Copolymer and Phenolic Resin. <i>Chemistry of Materials</i> , 2007 , 19, 3093-3095	9.6	6
75	Enthalpic, entropic, and square gradient contributions to the surface energetics of amine-cured epoxy systems. <i>Journal of Colloid and Interface Science</i> , 2002 , 250, 121-7	9.3	6
74	Amyloid Evolution: Antiparallel Replaced by Parallel. <i>Biophysical Journal</i> , 2020 , 118, 2526-2536	2.9	6
73	Evolution of Conformation, Nanomechanics, and Infrared Nanospectroscopy of Single Amyloid Fibrils Converting into Microcrystals. <i>Advanced Science</i> , 2021 , 8, 2002182	13.6	6
72	Assembly-Induced Bright-Light Emission from Solution-Processed Platinum(II) Inorganic Polymers. <i>ACS Omega</i> , 2019 , 4, 10192-10204	3.9	5
71	Optimal phase segregation in graft copolymers. <i>Polymer</i> , 2013 , 54, 4629-4636	3.9	5
70	Stimuli-Responsive Lipid-Based Self-Assembled Systems 2012 , 257-288		5
69	Dewetting-driven hierarchical self-assembly of small semiconducting molecules. <i>Soft Matter</i> , 2012 , 8, 5804	3.6	5
68	Metallosupramolecular Side-Chain Polymers and Polyelectrolyte- Metallosupramolecular Surfactant Complexes. <i>Chemistry of Materials</i> , 2009 , 21, 2169-2172	9.6	5
67	Effect of Polysaccharide Conformation on Ultrafiltration Separation Performance. <i>Carbohydrate Polymers</i> , 2021 , 260, 117830	10.3	5
66	Liquid-liquid crystalline phase separation in biological filamentous colloids: nucleation, growth and order-order transitions of cholesteric tactoids. <i>Soft Matter</i> , 2021 , 17, 6627-6636	3.6	5
65	Oat Plant Amyloids for Sustainable Functional Materials.. <i>Advanced Science</i> , 2021 , e2104445	13.6	5
64	Interfaces Determine the Fate of Seeded β -Synuclein Aggregation. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000446	4.6	4
63	Structure-property relationships of cellulose nanofibril hydro- and aerogels and their building blocks. <i>Nanoscale</i> , 2020 , 12, 11638-11646	7.7	4
62	Multicompartment Lipid Nanocarriers for Targeting of Cells Expressing Brain Receptors 2012 , 319-355		4
61	Physics of Self-Assembly of Lyotropic Liquid Crystals 2012 , 1-20		4

60	Amyloid Fibril Templated MOF Aerogels for Water Purification. <i>Small</i> , 2021 , e2105502	11	4
59	Light Gold: A Colloidal Approach Using Latex Templates. <i>Advanced Functional Materials</i> , 2020 , 30, 1908458-6	5.6	4
58	Amyloid hybrid membranes for bacterial & genetic material removal from water and their anti-biofouling properties. <i>Nanoscale Advances</i> , 2020 , 2, 4665-4670	5.1	4
57	Elastic constants of biological filamentous colloids: estimation and implications on nematic and cholesteric tactoid morphologies. <i>Soft Matter</i> , 2021 , 17, 2158-2169	3.6	4
56	Polysaccharide-reinforced amyloid fibril hydrogels and aerogels. <i>Nanoscale</i> , 2021 , 13, 12534-12545	7.7	4
55	Shape retaining self-healing metal-coordinated hydrogels. <i>Nanoscale</i> , 2021 , 13, 4073-4084	7.7	4
54	Nature-Inspired Circular-Economy Recycling for Proteins: Proof of Concept. <i>Advanced Materials</i> , 2021 , 33, e2104581	24	4
53	Neurotoxic amyloidogenic peptides in the proteome of SARS-COV2: potential implications for neurological symptoms in COVID-19. <i>Nature Communications</i> , 2022 , 13,	17.4	4
52	Supramolecular chirality and crystallization from biocatalytic self-assembly in lipidic cubic mesophases. <i>Nanoscale</i> , 2019 , 11, 5891-5895	7.7	3
51	Isolation and Characterization of Monodisperse Core-Shell Nanoparticle Fractions. <i>Langmuir</i> , 2015 , 31, 11179-85	4	3
50	Hierarchically Organized Systems Based on Liquid Crystalline Phases 2012 , 157-191		3
49	Investigation of Relaxation Processes in Nanocomposites by Transient Grating Experiments. <i>Materials Science Forum</i> , 2012 , 714, 79-83	0.4	3
48	Designing cryo-enzymatic reactions in subzero liquid water by lipidic mesophase nanoconfinement. <i>Nature Nanotechnology</i> , 2021 , 16, 802-810	28.7	3
47	A rationally designed oral vaccine induces immunoglobulin A in the murine gut that directs the evolution of attenuated Salmonella variants. <i>Nature Microbiology</i> , 2021 , 6, 830-841	26.6	3
46	Solvent-mediated conductance increase of dodecanethiol-stabilized gold nanoparticle monolayers. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 2057-2064	3	3
45	Engineering of biofilms with a glycosylation circuit for biomaterial applications. <i>Biomaterials Science</i> , 2021 , 9, 3650-3661	7.4	3
44	Potential of curcumin-loaded cubosomes for topical treatment of cervical cancer.. <i>Journal of Colloid and Interface Science</i> , 2022 , 620, 419-430	9.3	3
43	Plant-based amyloids from food waste for removal of heavy metals from contaminated water. <i>Chemical Engineering Journal</i> , 2022 , 445, 136513	14.7	3

42	Amphiphilic Lipids: Nature-Inspired Design and Application of Lipidic Lyotropic Liquid Crystals (Adv. Mater. 35/2019). <i>Advanced Materials</i> , 2019 , 31, 1970250	24	2
41	Impact of Molecular Partitioning and Partial Equilibration on the Estimation of Diffusion Coefficients from Release Experiments. <i>Langmuir</i> , 2019 , 35, 5663-5671	4	2
40	Single plasmon spatial and spectral sorting on a crystalline two-dimensional plasmonic platform. <i>Nanoscale</i> , 2020 , 12, 13414-13420	7.7	2
39	Biomimetic Composites: Amyloid-Hydroxyapatite Bone Biomimetic Composites (Adv. Mater. 20/2014). <i>Advanced Materials</i> , 2014 , 26, 3206-3206	24	2
38	Self-Assembly in Lipidic Particles 2012 , 129-155		2
37	Temperature controlled release from polystyrene-block-poly(N-isopropylacrylamide-block-polystyrene block copolymer hydrogel. <i>Journal of Controlled Release</i> , 2010 , 148, e53-4	11.7	2
36	Amyloid-Templated Palladium Nanoparticles for Water Purification by Electroreduction. <i>Angewandte Chemie</i> ,	3.6	2
35	The Influence of Arginine on the Response of Enamel Matrix Derivative (EMD) Proteins to Thermal Stress: Towards Improving the Stability of EMD-Based Products. <i>PLoS ONE</i> , 2015 , 10, e0144641	3.7	2
34	Renewable Water Harvesting by Amyloid Aerogels and Sun. <i>Advanced Sustainable Systems</i> , 2100309	5.9	2
33	Human neuropeptide substance P self-assembles into semi-flexible nanotubes that can be manipulated for nanotechnology. <i>Nanoscale</i> , 2020 , 12, 22680-22687	7.7	2
32	Understanding the Formation of Apoferritin Amyloid Fibrils. <i>Biomacromolecules</i> , 2021 , 22, 2057-2066	6.9	2
31	Kinetic Control of Parallel versus Antiparallel Amyloid Aggregation via Shape of the Growing Aggregate. <i>Scientific Reports</i> , 2019 , 9, 15987	4.9	2
30	Probing Water State during Lipidic Mesophases Phase Transitions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25274-25280	16.4	2
29	Removal of radioactive cesium from contaminated water by whey protein amyloids-carbon hybrid filters.. <i>RSC Advances</i> , 2021 , 11, 32454-32458	3.7	2
28	VEGF and VEGFR2 bind to similar pH-sensitive sites on fibronectin, exposed by heparin-mediated conformational changes. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100584	5.4	2
27	Spatiotemporal Control of Enzyme-Induced Crystallization Under Lyotropic Liquid Crystal Nanoconfinement. <i>Angewandte Chemie</i> , 2019 , 131, 7367-7371	3.6	1
26	Stereochemical Purity Can Induce a New Crystalline Mesophase in Phytantriol Lipids. <i>Langmuir</i> , 2020 , 36, 9132-9141	4	1
25	Recent Developments in Lyotropic Liquid Crystals as Drug Delivery Vehicles 2012 , 219-256		1

24	Nanotube Dispersion: Carbon Nanotubes in the Liquid Phase: Addressing the Issue of Dispersion (Small 9/2012). <i>Small</i> , 2012 , 8, 1298-1298	11	1
23	Amyloid-Templated Palladium Nanoparticles for Water Purification by Electroreduction.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	1
22	Formation of Higher Structural Levels in β -Carrageenan Induced by the Antimalarial Drug Chloroquine. <i>ACS Macro Letters</i> , 2020 , 9, 1310-1317	6.6	1
21	Cryogenic activity and stability of benzaldehyde lyase enzyme in lipidic mesophases-nanoconfined water. <i>Chemical Communications</i> , 2021 , 57, 5650-5653	5.8	1
20	Amyloid fibril-based membranes for PFAS removal from water. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 1873-1884	4.2	1
19	Arsenic removal from Peruvian drinking water using milk protein nanofibril-carbon filters: a field study. <i>Environmental Science: Water Research and Technology</i> ,	4.2	1
18	Interconnect-Free Multibit Arithmetic and Logic Unit in a Single Reconfigurable 3 μ m Plasmonic Cavity. <i>ACS Nano</i> , 2021 ,	16.7	1
17	Hierarchically Fabricated Amyloid Fibers Evaporation-Induced Self-Assembly. <i>ACS Nano</i> , 2021 ,	16.7	1
16	Transformer-Induced Metamorphosis of Polymeric Nanoparticle Shape at Room Temperature.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202113424	16.4	0
15	Plasmonic Amyloid Tactoids. <i>Advanced Materials</i> , 2021 , e2106155	24	0
14	Shape and structural relaxation of colloidal tactoids.. <i>Nature Communications</i> , 2022 , 13, 2778	17.4	0
13	Interplay between Confinement and Drag Forces Determine the Fate of Amyloid Fibrils. <i>Physical Review Letters</i> , 2020 , 124, 118102	7.4	
12	Environmental Remediation: Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water (Adv. Mater. 12/2020). <i>Advanced Materials</i> , 2020 , 32, 2070094	24	
11	Air-Water Interfaces: Interfaces Determine the Fate of Seeded β -Synuclein Aggregation (Adv. Mater. Interfaces 11/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070060	4.6	
10	Can one determine the density of an individual synthetic macromolecule?. <i>Soft Matter</i> , 2019 , 15, 6547-6556	5.6	
9	Preface. Soft condensed matter in food science. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 460301	1.8	
8	Nonlamellar Lipid Liquid Crystalline Structures at Interfaces 2012 , 289-318		
7	Synthesis and Alignment of Nanostructured Materials Using Liquid Crystals 2012 , 193-218		

6 Dividing Planes of Hexagonal HII Mesophase **2012**, 79-96

5 Nanocharacterization of Lyotropic Liquid Crystalline Systems **2012**, 97-127

4 Nature-Inspired Circular-Economy Recycling for Proteins: Proof of Concept (Adv. Mater. 44/2021). *Advanced Materials*, **2021**, 33, 2170345 24

3 Conductive Aerogels: Amyloid Fibril-Templated High-Performance Conductive Aerogels with Sensing Properties (Small 45/2020). *Small*, **2020**, 16, 2070246 11

2 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 15.6

1 Plasmonic Amyloid Tactoids (Adv. Mater. 51/2021). *Advanced Materials*, **2021**, 33, 2170406 24