Raffaele Mezzenga

List of Publications by Year in Descending Order

401 papers	19,109 citations	72 h-index	119 g-index
427 ext. papers	22,234 ext. citations	9.7 avg, IF	7.56 L-index

#	Paper	IF	Citations
401	Transformer-Induced Metamorphosis of Polymeric Nanoparticle Shape at Room Temperature.. *Angewandte Chemie - International Edition*, **2022**, e202113424	16.4	0
400	Amyloid-Templated Palladium Nanoparticles for Water Purification by Electroreduction.. *Angewandte Chemie - International Edition*, **2022**,	16.4	1
399	Biomass vs inorganic and plastic-based aerogels: Structural design, functional tailoring, resource-efficient applications and sustainability analysis. *Progress in Materials Science*, **2022**, 125, 100915	42.2	11
398	Potential of curcumin-loaded cubosomes for topical treatment of cervical cancer.. *Journal of Colloid and Interface Science*, **2022**, 620, 419-430	9.3	3
397	Plant-based amyloids from food waste for removal of heavy metals from contaminated water. *Chemical Engineering Journal*, **2022**, 445, 136513	14.7	3
396	Shape and structural relaxation of colloidal tactoids.. *Nature Communications*, **2022**, 13, 2778	17.4	0
395	Neurotoxic amyloidogenic peptides in the proteome of SARS-COV2: potential implications for neurological symptoms in COVID-19. *Nature Communications*, **2022**, 13,	17.4	4
394	Amyloid Fibril Templated MOF Aerogels for Water Purification. *Small*, **2021**, e2105502	11	4
393	Plasmonic Amyloid Tactoids. *Advanced Materials*, **2021**, e2106155	24	0
392	Nature-Inspired Circular-Economy Recycling for Proteins: Proof of Concept (Adv. Mater. 44/2021). *Advanced Materials*, **2021**, 33, 2170345	24	
391	Water-processable, biodegradable and coatable aquaplastic from engineered biofilms. *Nature Chemical Biology*, **2021**, 17, 732-738	11.7	20
390	Understanding the Formation of Apoferritin Amyloid Fibrils. *Biomacromolecules*, **2021**, 22, 2057-2066	6.9	2
389	Designing cryo-enzymatic reactions in subzero liquid water by lipidic mesophase nanoconfinement. *Nature Nanotechnology*, **2021**, 16, 802-810	28.7	3
388	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	26.6	3
387	Protein nanofibrils for next generation sustainable water purification. *Nature Communications*, **2021**, 12, 3248	17.4	34
386	Effect of Polysaccharide Conformation on Ultrafiltration Separation Performance. *Carbohydrate Polymers*, **2021**, 260, 117830	10.3	5
385	An antiviral trap made of protein nanofibrils and iron oxyhydroxide nanoparticles. *Nature Nanotechnology*, **2021**, 16, 918-925	28.7	18

384	Sustainable Removal of Microplastics and Natural Organic Matter from Water by Coagulation-Flocculation with Protein Amyloid Fibrils. *Environmental Science & Technology*, **2021**, 55, 8848-8858	10.3	17
383	Different Folding States from the Same Protein Sequence Determine Reversible vs Irreversible Amyloid Fate. *Journal of the American Chemical Society*, **2021**, 143, 11473-11481	16.4	7
382	Evolution of Conformation, Nanomechanics, and Infrared Nanospectroscopy of Single Amyloid Fibrils Converting into Microcrystals. *Advanced Science*, **2021**, 8, 2002182	13.6	6
381	Covalent β-lactoglobulin-maltodextrin amyloid fibril conjugate prepared by the Maillard reaction. *Food Chemistry*, **2021**, 342, 128388	8.5	10
380	Elastic constants of biological filamentous colloids: estimation and implications on nematic and cholesteric tactoid morphologies. *Soft Matter*, **2021**, 17, 2158-2169	3.6	4
379	Engineering of biofilms with a glycosylation circuit for biomaterial applications. *Biomaterials Science*, **2021**, 9, 3650-3661	7.4	3
378	Cryogenic activity and stability of benzaldehyde lyase enzyme in lipidic mesophases-nanoconfined water. *Chemical Communications*, **2021**, 57, 5650-5653	5.8	1
377	Liquid-liquid crystalline phase separation in biological filamentous colloids: nucleation, growth and order-order transitions of cholesteric tactoids. *Soft Matter*, **2021**, 17, 6627-6636	3.6	5
376	Polysaccharide-reinforced amyloid fibril hydrogels and aerogels. *Nanoscale*, **2021**, 13, 12534-12545	7.7	4
375	Amyloid fibril-based membranes for PFAS removal from water. *Environmental Science: Water Research and Technology*, **2021**, 7, 1873-1884	4.2	1
374	Shape retaining self-healing metal-coordinated hydrogels. *Nanoscale*, **2021**, 13, 4073-4084	7.7	4
373	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. *Cellulose*, **2021**, 28, 1387-1403	5.5	14
372	Interconnect-Free Multibit Arithmetic and Logic Unit in a Single Reconfigurable 3 Ɨ 3 Plasmonic Cavity. *ACS Nano*, **2021**,	16.7	1
371	Sustainable Bioplastics from Amyloid Fibril-Biodegradable Polymer Blends. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11916-11926	8.3	8
370	Modification approaches of plant-based proteins to improve their techno-functionality and use in food products. *Food Hydrocolloids*, **2021**, 118, 106789	10.6	48
369	Probing Water State during Lipidic Mesophases Phase Transitions. *Angewandte Chemie - International Edition*, **2021**, 60, 25274-25280	16.4	2
368	Nature-Inspired Circular-Economy Recycling for Proteins: Proof of Concept. *Advanced Materials*, **2021**, 33, e2104581	24	4
367	Membrane-based technologies for per- and poly-fluoroalkyl substances (PFASs) removal from water: Removal mechanisms, applications, challenges and perspectives. *Environment International*, **2021**, 157, 106876	12.9	7

366	Removal of radioactive cesium from contaminated water by whey protein amyloids-carbon hybrid filters.. *RSC Advances*, **2021**, 11, 32454-32458	3.7	2
365	VEGF and VEGFR2 bind to similar pH-sensitive sites on fibronectin, exposed by heparin-mediated conformational changes. *Journal of Biological Chemistry*, **2021**, 296, 100584	5.4	2
364	Hierarchically Fabricated Amyloid Fibers Evaporation-Induced Self-Assembly. *ACS Nano*, **2021**,	16.7	1
363	Plasmonic Amyloid Tactoids (Adv. Mater. 51/2021). *Advanced Materials*, **2021**, 33, 2170406	24	
362	Oat Plant Amyloids for Sustainable Functional Materials.. *Advanced Science*, **2021**, e2104445	13.6	5
361	Interfaces Determine the Fate of Seeded □Synuclein Aggregation. *Advanced Materials Interfaces*, **2020**, 7, 2000446	4.6	4
360	Transition Metal Dichalcogenide-Silk Nanofibril Membrane for One-Step Water Purification and Precious Metal Recovery. *ACS Applied Materials & Interfaces*, **2020**, 12, 24521-24530	9.5	33
359	Structure-property relationships of cellulose nanofibril hydro- and aerogels and their building blocks. *Nanoscale*, **2020**, 12, 11638-11646	7.7	4
358	Single plasmon spatial and spectral sorting on a crystalline two-dimensional plasmonic platform. *Nanoscale*, **2020**, 12, 13414-13420	7.7	2
357	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	6.1	6
356	Interplay between Confinement and Drag Forces Determine the Fate of Amyloid Fibrils. *Physical Review Letters*, **2020**, 124, 118102	7.4	
355	Environmental Remediation: Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water (Adv. Mater. 12/2020). *Advanced Materials*, **2020**, 32, 2070094	24	
354	Air-Water Interfaces: Interfaces Determine the Fate of Seeded □Synuclein Aggregation (Adv. Mater. Interfaces 11/2020). *Advanced Materials Interfaces*, **2020**, 7, 2070060	4.6	
353	Half a century of amyloids: past, present and future. *Chemical Society Reviews*, **2020**, 49, 5473-5509	58.5	142
352	The physics of lipidic mesophase delivery systems. *Physics Today*, **2020**, 73, 38-44	0.9	6
351	Stereochemical Purity Can Induce a New Crystalline Mesophase in Phytantriol Lipids. *Langmuir*, **2020**, 36, 9132-9141	4	1
350	Probing the Structure of Filamentous Nonergodic Gels by Dynamic Light Scattering. *Macromolecules*, **2020**, 53, 5950-5956	5.5	7
349	Design principles of food gels. *Nature Food*, **2020**, 1, 106-118	14.4	109

348	Amyloid-Polyphenol Hybrid Nanofilaments Mitigate Colitis and Regulate Gut Microbial Dysbiosis. *ACS Nano*, **2020**, 14, 2760-2776	16.7	34
347	Amyloid Fibrils Aerogel for Sustainable Removal of Organic Contaminants from Water. *Advanced Materials*, **2020**, 32, e1907932	24	61
346	Recent advances of non-lamellar lyotropic liquid crystalline nanoparticles in nanomedicine. *Current Opinion in Colloid and Interface Science*, **2020**, 48, 28-39	7.6	28
345	Lipid-based mesophases as matrices for nanoscale reactions. *Nanoscale Horizons*, **2020**, 5, 914-927	10.8	6
344	Modulating the Mechanical Performance of Macroscale Fibers through Shear-Induced Alignment and Assembly of Protein Nanofibrils. *Small*, **2020**, 16, e1904190	11	18
343	Light Gold: A Colloidal Approach Using Latex Templates. *Advanced Functional Materials*, **2020**, 30, 1908458	19.6	4
342	Rigid, Fibrillar Quaternary Structures Induced by Divalent Ions in a Carboxylated Linear Polysaccharide. *ACS Macro Letters*, **2020**, 9, 115-121	6.6	10
341	Amyloid Beta Pathogenesis: Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC (Adv. Sci. 18/2020). *Advanced Science*, **2020**, 7, 2070100	13.6	78
340	Amyloid Fibril-Templated High-Performance Conductive Aerogels with Sensing Properties. *Small*, **2020**, 16, e2004932	11	9
339	Accelerated Amyloid Beta Pathogenesis by Bacterial Amyloid FapC. *Advanced Science*, **2020**, 7, 2001299	13.6	21
338	Amyloid Evolution: Antiparallel Replaced by Parallel. *Biophysical Journal*, **2020**, 118, 2526-2536	2.9	6
337	Human neuropeptide substance P self-assembles into semi-flexible nanotubes that can be manipulated for nanotechnology. *Nanoscale*, **2020**, 12, 22680-22687	7.7	2
336	Conductive Aerogels: Amyloid Fibril-Templated High-Performance Conductive Aerogels with Sensing Properties (Small 45/2020). *Small*, **2020**, 16, 2070246	11	
335	Self-Winding Gelatin-Amyloid Wires for Soft Actuators and Sensors. *Advanced Materials*, **2020**, 32, e2004241	24	12
334	Investigating the Mechanism of Cyclodextrins in the Treatment of Niemann-Pick Disease Type C Using Crosslinked 2-Hydroxypropyl-Ecyclodextrin. *Small*, **2020**, 16, e2004735	11	8
333	Flow-induced order-order transitions in amyloid fibril liquid crystalline tactoids. *Nature Communications*, **2020**, 11, 5416	17.4	10
332	Amyloid hybrid membranes for removal of clinical and nuclear radioactive wastewater. *Environmental Science: Water Research and Technology*, **2020**, 6, 3249-3254	4.2	13
331	Amyloid hybrid membranes for bacterial & genetic material removal from water and their anti-biofouling properties. *Nanoscale Advances*, **2020**, 2, 4665-4670	5.1	4

330	Formation of Higher Structural Levels in κ-Carrageenan Induced by the Antimalarial Drug Chloroquine. *ACS Macro Letters*, **2020**, 9, 1310-1317	6.6	1
329	Relaxation dynamics in bio-colloidal cholesteric liquid crystals confined to cylindrical geometry. *Nature Communications*, **2020**, 11, 4616	17.4	14
328	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	11.5	14
327	Amphiphilic Lipids: Nature-Inspired Design and Application of Lipidic Lyotropic Liquid Crystals (Adv. Mater. 35/2019). *Advanced Materials*, **2019**, 31, 1970250	24	2
326	Six-fold director field configuration in amyloid nematic and cholesteric phases. *Scientific Reports*, **2019**, 9, 12654	4.9	12
325	Sustainable technologies for water purification from heavy metals: review and analysis. *Chemical Society Reviews*, **2019**, 48, 463-487	58.5	561
324	Nanostructural Properties and Twist Periodicity of Cellulose Nanofibrils with Variable Charge Density. *Biomacromolecules*, **2019**, 20, 1288-1296	6.9	36
323	Assembly-Induced Bright-Light Emission from Solution-Processed Platinum(II) Inorganic Polymers. *ACS Omega*, **2019**, 4, 10192-10204	3.9	5
322	Nature-Inspired Design and Application of Lipidic Lyotropic Liquid Crystals. *Advanced Materials*, **2019**, 31, e1900818	24	68
321	Protein-Eye View of the in Meso Crystallization Mechanism. *Langmuir*, **2019**, 35, 8344-8356	4	6
320	Overcoming Endocytosis Deficiency by Cubosome Nanocarriers.. *ACS Applied Bio Materials*, **2019**, 2, 2490-2499	4.2	13
319	Food protein amyloid fibrils: Origin, structure, formation, characterization, applications and health implications. *Advances in Colloid and Interface Science*, **2019**, 269, 334-356	14.3	137
318	Stable Immobilization of Enzymes in a Macro- and Mesoporous Silica Monolith. *ACS Omega*, **2019**, 4, 7795-7806	3.9	17
317	Supramolecular chirality and crystallization from biocatalytic self-assembly in lipidic cubic mesophases. *Nanoscale*, **2019**, 11, 5891-5895	7.7	3
316	Ion-Induced Formation of Nanocrystalline Cellulose Colloidal Glasses Containing Nematic Domains. *Langmuir*, **2019**, 35, 4117-4124	4	22
315	The interplay of channel geometry and molecular features determines diffusion in lipidic cubic phases. *Journal of Chemical Physics*, **2019**, 150, 094901	3.9	10
314	Soft biomimetic nanoconfinement promotes amorphous water over ice. *Nature Nanotechnology*, **2019**, 14, 609-615	28.7	24
313	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

312	Impact of Molecular Partitioning and Partial Equilibration on the Estimation of Diffusion Coefficients from Release Experiments. *Langmuir*, **2019**, 35, 5663-5671	4	2
311	Spatiotemporal Control of Enzyme-Induced Crystallization Under Lyotropic Liquid Crystal Nanoconfinement. *Angewandte Chemie*, **2019**, 131, 7367-7371	3.6	1
310	Spatiotemporal Control of Enzyme-Induced Crystallization Under Lyotropic Liquid Crystal Nanoconfinement. *Angewandte Chemie - International Edition*, **2019**, 58, 7289-7293	16.4	9
309	Selective and Efficient Removal of Fluoride from Water: In Situ Engineered Amyloid Fibril/ZrO2 Hybrid Membranes. *Angewandte Chemie*, **2019**, 131, 6073-6077	3.6	7
308	Selective and Efficient Removal of Fluoride from Water: In Situ Engineered Amyloid Fibril/ZrO Hybrid Membranes. *Angewandte Chemie - International Edition*, **2019**, 58, 6012-6016	16.4	151
307	Ubiquitous aluminium contamination in water and amyloid hybrid membranes as a sustainable possible solution. *Chemical Communications*, **2019**, 55, 11143-11146	5.8	17
306	Multifunctional Nano-Biointerfaces: Cytocompatible Antimicrobial Nanocarriers from Stabilizer-Free Cubosomes. *Advanced Functional Materials*, **2019**, 29, 1904007	15.6	20
305	Soft condensed matter physics of foods and macronutrients. *Nature Reviews Physics*, **2019**, 1, 551-566	23.6	26
304	Can one determine the density of an individual synthetic macromolecule?. *Soft Matter*, **2019**, 15, 6547-6556	3.6	
303	Structural Transformation in Vesicles upon Hydrolysis of Phosphatidylethanolamine and Phosphatidylcholine with Phospholipase C. *Langmuir*, **2019**, 35, 14949-14958	4	6
302	Creating gradients of amyloid fibrils from the liquid-liquid interface. *Soft Matter*, **2019**, 15, 8437-8440	3.6	6
301	A Short Peptide Hydrogel with High Stiffness Induced by 3-Helices to □Sheet Transition in Water. *Advanced Science*, **2019**, 6, 1901173	13.6	16
300	Designing Cellulose Nanofibrils for Stabilization of Fluid Interfaces. *Biomacromolecules*, **2019**, 20, 4574-4580	6.9	18
299	Primary, Secondary, Tertiary and Quaternary Structure Levels in Linear Polysaccharides: From Random Coil, to Single Helix to Supramolecular Assembly. *Biomacromolecules*, **2019**, 20, 1731-1739	6.9	48
298	Assessing the Binding Performance of Amyloid-Carbon Membranes toward Heavy Metal Ions. *Langmuir*, **2019**, 35, 4161-4170	4	46
297	Amyloid fibril-directed synthesis of silica core-shell nanofilaments, gels, and aerogels. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 4012-4017	11.5	39
296	Kinetic Control of Parallel versus Antiparallel Amyloid Aggregation via Shape of the Growing Aggregate. *Scientific Reports*, **2019**, 9, 15987	4.9	2
295	Apoferritin Protein Amyloid Fibrils with Tunable Chirality and Polymorphism. *Journal of the American Chemical Society*, **2019**, 141, 1606-1613	16.4	15

294	Amyloid Fibrils Length Controls Shape and Structure of Nematic and Cholesteric Tactoids. *ACS Nano*, **2019**, 13, 591-600	16.7	35
293	The Molecular Dance of Fibronectin: Conformational Flexibility Leads to Functional Versatility. *Biomacromolecules*, **2019**, 20, 55-72	6.9	22
292	Confinement-Induced Ordering and Self-Folding of Cellulose Nanofibrils. *Advanced Science*, **2019**, 6, 1801540	15.6	16
291	Lipidic Mesophase-Embedded Palladium Nanoparticles: Synthesis and Tunable Catalysts in Suzuki-Miyaura Cross-Coupling Reactions. *Langmuir*, **2019**, 35, 120-127	4	11
290	Curvature and bottlenecks control molecular transport in inverse bicontinuous cubic phases. *Journal of Chemical Physics*, **2018**, 148, 054902	3.9	25
289	Amyloid-Polymorphie in der Energielandschaft der Faltung und Aggregation von Proteinen. *Angewandte Chemie*, **2018**, 130, 8502-8515	3.6	12
288	Rheology of Ultraswollen Bicontinuous Lipidic Cubic Phases. *Langmuir*, **2018**, 34, 5052-5059	4	12
287	Elasticity in Physically Cross-Linked Amyloid Fibril Networks. *Physical Review Letters*, **2018**, 120, 158103	7.4	29
286	Amyloid Polymorphism in the Protein Folding and Aggregation Energy Landscape. *Angewandte Chemie - International Edition*, **2018**, 57, 8370-8382	16.4	132
285	Design of ultra-swollen lipidic mesophases for the crystallization of membrane proteins with large extracellular domains. *Nature Communications*, **2018**, 9, 544	17.4	50
284	Lipidic Mesophases as Novel Nanoreactor Scaffolds for Organocatalysts: Heterogeneously Catalyzed Asymmetric Aldol Reactions in Confined Water. *ACS Applied Materials & Interfaces*, **2018**, 10, 5114-5124	9.5	28
283	Designing Plasmonic Eigenstates for Optical Signal Transmission in Planar Channel Devices. *ACS Photonics*, **2018**, 5, 2328-2335	6.3	13
282	Polyphenol-Binding Amyloid Fibrils Self-Assemble into Reversible Hydrogels with Antibacterial Activity. *ACS Nano*, **2018**, 12, 3385-3396	16.7	124
281	Confinement-induced liquid crystalline transitions in amyloid fibril cholesteric tactoids. *Nature Nanotechnology*, **2018**, 13, 330-336	28.7	66
280	Amyloid Templated Organic–Inorganic Hybrid Aerogels. *Advanced Functional Materials*, **2018**, 28, 1703609	15.6	29
279	Modifying the Contact Angle of Anisotropic Cellulose Nanocrystals: Effect on Interfacial Rheology and Structure. *Langmuir*, **2018**, 34, 10932-10942	4	15
278	Controlling Supramolecular Chiral Nanostructures by Self-Assembly of a Biomimetic β-Sheet-Rich Amyloidogenic Peptide. *ACS Nano*, **2018**, 12, 9152-9161	16.7	18
277	In Vivo Mitigation of Amyloidogenesis through Functional-Pathogenic Double-Protein Coronae. *Nano Letters*, **2018**, 18, 5797-5804	11.5	31

276	Nanoscale inhibition of polymorphic and ambidextrous IAPP amyloid aggregation with small molecules. *Nano Research*, **2018**, 11, 3636-3647	10	26
275	Adsorption and Interfacial Layer Structure of Unmodified Nanocrystalline Cellulose at Air/Water Interfaces. *Langmuir*, **2018**, 34, 15195-15202	4	38
274	Liquid crystalline filamentous biological colloids: Analogies and differences. *Current Opinion in Colloid and Interface Science*, **2018**, 38, 30-44	7.6	15
273	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	9.5	8
272	Trans-Scale 2D Synthesis of Millimeter-Large Au Single Crystals via Silk Fibroin Templates. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 12419-12425	8.3	10
271	Efficient Asymmetric Synthesis of Carbohydrates by Aldolase Nano-Confined in Lipidic Cubic Mesophases. *ACS Catalysis*, **2018**, 8, 5810-5815	13.1	19
270	Nanocellulose Fragmentation Mechanisms and Inversion of Chirality from the Single Particle to the Cholesteric Phase. *ACS Nano*, **2018**, 12, 5141-5148	16.7	43
269	Cell Alignment on Graphene–Amyloid Composites. *Advanced Materials Interfaces*, **2018**, 5, 1800621	4.6	7
268	Dynamic formation of nanostructured particles from vesicles via invertase hydrolysis for on-demand delivery. *RSC Advances*, **2017**, 7, 4368-4377	3.7	9
267	Amyloid fibril systems reduce, stabilize and deliver bioavailable nanosized iron. *Nature Nanotechnology*, **2017**, 12, 642-647	28.7	151
266	Efficient purification of arsenic-contaminated water using amyloid-carbon hybrid membranes. *Chemical Communications*, **2017**, 53, 5714-5717	5.8	58
265	Continuous Isotropic-Nematic Transition in Amyloid Fibril Suspensions Driven by Thermophoresis. *Scientific Reports*, **2017**, 7, 1211	4.9	17
264	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. *Chemical Society Reviews*, **2017**, 46, 4661-4708	58.5	467
263	Diffusion of Polymers through Periodic Networks of Lipid-Based Nanochannels. *Langmuir*, **2017**, 33, 3491-3498	4	11
262	Absolute Quantification of Amyloid Propagons by Digital Microfluidics. *Analytical Chemistry*, **2017**, 89, 12306-12313	7.8	15
261	Silk micrococoons for protein stabilisation and molecular encapsulation. *Nature Communications*, **2017**, 8, 15902	17.4	65
260	Amyloid Fibrils form Hybrid Colloidal Gels and Aerogels with Dispersed CaCO3 Nanoparticles. *Advanced Functional Materials*, **2017**, 27, 1700897	15.6	28
259	Ice-Templated and Cross-Linked Amyloid Fibril Aerogel Scaffolds for Cell Growth. *Biomacromolecules*, **2017**, 18, 2858-2865	6.9	36

258	Enzyme-Mimetic Antioxidant Luminescent Nanoparticles for Highly Sensitive Hydrogen Peroxide Biosensing. *ACS Nano*, **2017**, 11, 12210-12218	16.7	77
257	Copolyampholytes Produced from RAFT Polymerization of Protic Ionic Liquids. *Macromolecules*, **2017**, 50, 8965-8978	5.5	11
256	Squid Suckerin Biomimetic Peptides Form Amyloid-like Crystals with Robust Mechanical Properties. *Biomacromolecules*, **2017**, 18, 4240-4248	6.9	15
255	Competition between crystal and fibril formation in molecular mutations of amyloidogenic peptides. *Nature Communications*, **2017**, 8, 1338	17.4	51
254	Active Gating, Molecular Pumping, and Turnover Determination in Biomimetic Lipidic Cubic Mesophases with Reconstituted Membrane Proteins. *ACS Nano*, **2017**, 11, 11687-11693	16.7	9
253	Cofibrillization of Pathogenic and Functional Amyloid Proteins with Gold Nanoparticles against Amyloidogenesis. *Biomacromolecules*, **2017**, 18, 4316-4322	6.9	36
252	Implications of peptide assemblies in amyloid diseases. *Chemical Society Reviews*, **2017**, 46, 6492-6531	58.5	198
251	Application of superabsorbent polymers (SAP) as desiccants to dry maize and reduce aflatoxin contamination. *Journal of Food Science and Technology*, **2016**, 53, 3157-3165	3.3	17
250	Interactions of Lipidic Cubic Phase Nanoparticles with Lipid Membranes. *Langmuir*, **2016**, 32, 9640-8	4	18
249	Micro- and nanoscale hierarchical structure of core-shell protein microgels. *Journal of Materials Chemistry B*, **2016**, 4, 7989-7999	7.3	19
248	Magnetic assembly of transparent and conducting graphene-based functional composites. *Nature Communications*, **2016**, 7, 12078	17.4	81
247	Amyloid Templated Gold Aerogels. *Advanced Materials*, **2016**, 28, 472-8	24	124
246	Continuous Paranematic Ordering of Rigid and Semiflexible Amyloid-Fe3O4 Hybrid Fibrils in an External Magnetic Field. *Biomacromolecules*, **2016**, 17, 2555-61	6.9	10
245	Microtubule-Binding R3 Fragment from Tau Self-Assembles into Giant Multistranded Amyloid Ribbons. *Angewandte Chemie*, **2016**, 128, 628-632	3.6	10
244	Amyloid-carbon hybrid membranes for universal water purification. *Nature Nanotechnology*, **2016**, 11, 365-71	28.7	375
243	Mechanically Enhanced Liquid Interfaces at Human Body Temperature Using Thermosensitive Methylated Nanocrystalline Cellulose. *Langmuir*, **2016**, 32, 1396-404	4	21
242	Nematic field transfer in a two-dimensional protein fibril assembly. *Soft Matter*, **2016**, 12, 1830-5	3.6	6
241	Freeze-Thaw Cycling Induced Isotropic-Nematic Coexistence of Amyloid Fibrils Suspensions. *Langmuir*, **2016**, 32, 2492-9	4	18

240	Recreating the synthesis of starch granules in yeast. *ELife*, **2016**, 5,	8.9	19
239	Solvent-mediated conductance increase of dodecanethiol-stabilized gold nanoparticle monolayers. *Beilstein Journal of Nanotechnology*, **2016**, 7, 2057-2064	3	3
238	Gelatin-Graphene Nanocomposites with Ultralow Electrical Percolation Threshold. *Advanced Materials*, **2016**, 28, 6914-20	24	49
237	Microtubule-Binding R3 Fragment from Tau Self-Assembles into Giant Multistranded Amyloid Ribbons. *Angewandte Chemie - International Edition*, **2016**, 55, 618-22	16.4	33
236	Amyloid Fibrils as Building Blocks for Natural and Artificial Functional Materials. *Advanced Materials* , **2016**, 28, 6546-61	24	292
235	Lipidic Cubic Phases as a Versatile Platform for the Rapid Detection of Biomarkers, Viruses, Bacteria, and Parasites. *Advanced Functional Materials*, **2016**, 26, 181-190	15.6	43
234	Lipid self-assembled structures for reactivity control in food. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374,	3	17
233	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
232	Quantifying the transport properties of lipid mesophases by theoretical modelling of diffusion experiments. *Journal of Chemical Physics*, **2016**, 145, 084903	3.9	9
231	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	
230	Lyotropic Liquid Crystalline Cubic Phases as Versatile Host Matrices for Membrane-Bound Enzymes. *Journal of Physical Chemistry Letters*, **2016**, 7, 1507-12	6.4	25
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