

CITATION REPORT

List of articles citing

Self-assembly: from crystals to cells

DOI: 10.1039/b819321p
Soft Matter, 2009, 5, 1110.

Source: <https://exaly.com/paper-pdf/47109066/citation-report.pdf>

Version: 2024-04-28

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

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

#	Paper	IF	Citations
358	Dynamic hook-and-eye nanoparticle sponges. 2009 , 1, 733-8		104
357	Self-assembly and transformation of hybrid nano-objects and nanostructures under equilibrium and non-equilibrium conditions. 2009 , 8, 781-92		775
356	Efficient energy transfer within self-assembling peptide fibers: a route to light-harvesting nanomaterials. 2009 , 131, 12520-1		97
355	Assembly of polygonal nanoparticle clusters directed by reversible noncovalent bonding interactions. <i>Nano Letters</i> , 2009 , 9, 3185-90	11.5	73
354	Morphological diversity in the nanodimensional world of inorganic substances and materials. 2010 , 80, 324-330		
353	Colloidal assembly via shape complementarity. 2010 , 11, 3215-7		14
352	Selective assembly of sub-micrometer polymer particles. <i>Advanced Materials</i> , 2010 , 22, 2804-8	24	14
351	Dissipative Self-Assembly of a Molecular Gelator by Using a Chemical Fuel. 2010 , 122, 4935-4938		104
350	Photoschaltbare Nanostrukturen durch elektrostatische Selbstorganisation. 2010 , 122, 8280-8285		16
349	Nanoparticle Oscillations and Fronts. 2010 , 122, 8798-8801		20
348	Three-Dimensional Directed Self-Assembly of Peptide Nanowires into Micrometer-Sized Crystalline Cubes with Nanoparticle Joints. 2010 , 122, 8553-8556		2
347	Dissipative self-assembly of a molecular gelator by using a chemical fuel. 2010 , 49, 4825-8		299
346	Photoswitchable nanoassemblies by electrostatic self-assembly. 2010 , 49, 8104-8		94
345	Nanoparticle oscillations and fronts. 2010 , 49, 8616-9		101
344	Three-dimensional directed self-assembly of Peptide nanowires into micrometer-sized crystalline cubes with nanoparticle joints. 2010 , 49, 8375-8		27
343	Exploiting biocatalysis in peptide self-assembly. 2010 , 94, 107-17		83
342	Three-dimensional fabrication at small size scales. 2010 , 6, 792-806		212

341	Fabrication of conductive microcapsules via self-assembly and crosslinking of gold nanowires at liquid-liquid interfaces. 2010 , 6, 1402-5		18
340	Supramolecular chemistry: More than the sum of its parts. 2010 , 466, 193-4		36
339	Neuroscience: MicroRNA knocks down cocaine. 2010 , 466, 194-5		4
338	Properties and emerging applications of self-assembled structures made from inorganic nanoparticles. 2010 , 5, 15-25		1327
337	Exploiting Biocatalysis in the Synthesis of Supramolecular Polymers. 2010 , 127-143		7
336	Controllable self-assembly of PbS nanostars into ordered structures: close-packed arrays and patterned arrays. <i>ACS Nano</i> , 2010 , 4, 4707-16	16.7	66
335	Self-assembled morphologies from C2- and C3-symmetric biotin conjugates. 2010 , 75, 4280-3		7
334	Directed self-assembly of nanoparticles. <i>ACS Nano</i> , 2010 , 4, 3591-605	16.7	1713
333	Controlled directionality of ellipsoids in monolayer and multilayer colloidal crystals. 2010 , 26, 11544-9		26
332	Soft matter nanoparticles with various shapes and functionalities can form through electrostatic self-assembly. <i>Soft Matter</i> , 2010 , 6, 4296	3.6	50
331	Effects of the ionic size-asymmetry around a charged nanoparticle: unequal charge neutralization and electrostatic screening. <i>Soft Matter</i> , 2010 , 6, 2056	3.6	60
330	Facile approaches to build ordered amphiphilic tris(phthalocyaninato) europium triple-decker complex thin films and their comparative performances in ozone sensing. 2010 , 12, 12851-61		93
329	Self-assembled periodic liquid crystal defects array for soft lithographic template. <i>Soft Matter</i> , 2010 , 6, 1426	3.6	37
328	A detailed study of growth of nanostructured poly(aniline) particles in the light of thermodynamic interaction balance. 2010 , 12, 11905-11		2
327	Self-assembly and ion-trapping properties of inorganic nanocapsule-surfactant hybrid spheres. <i>Soft Matter</i> , 2011 , 7, 2668	3.6	25
326	Synthesis of polymer nanoglass and nanotubes by surface-initiated photopolymerization in cylindrical alumina nanopores. 2011 , 21, 14543		7
325	Integrating top-down and self-assembly in the fabrication of peptide and protein-based biomedical materials. <i>Chemical Society Reviews</i> , 2011 , 40, 4563-77	58.5	104
324	Thermodynamics of Photoresponsive Polyelectrolyte Dye Assemblies with Irradiation Wavelength Triggered Particle Size. <i>Macromolecules</i> , 2011 , 44, 4452-4461	5.5	29

323	Reversible Macroscopic Alignment of Ag Nanowires. 2011 , 23, 3622-3627		14
322	Shaken, not stirred: collapsing a peptoid monolayer to produce free-floating, stable nanosheets. 2011 , 133, 20808-15		112
321	Self-assembly of anisotropic particles. <i>Soft Matter</i> , 2011 , 7, 3553	3.6	53
320	Building 3D Nanostructured Devices by Self-Assembly. 2011 , 1-28		
319	Peptide-based and polypeptide-based hydrogels for drug delivery and tissue engineering. 2012 , 310, 135-67		88
318	Nanomanipulation using near field photonics. 2011 , 11, 995-1009		187
317	Challenges for Capillary Self-Assembly of Microsystems. 2011 , 1, 133-149		19
316	Reversible assembly of oppositely charged hairy colloids in water. <i>Soft Matter</i> , 2011 , 7, 8281	3.6	40
315	Monodisperse hexagonal silver nanoprisms: synthesis via thiolate-protected cluster precursors and chiral, ligand-imprinted self-assembly. <i>ACS Nano</i> , 2011 , 5, 7411-25	16.7	51
314	Self-assembly of latex particles for colloidal crystals. 2011 , 9, 559-565		21
313	The Thermodynamics of Defect Formation in Self-Assembled Systems. 2011 ,		3
312	A numerical study on the role of geometry confinement and fluid flow in colloidal self-assembly. 2011 , 214, 283-291		3
311	Nanoparticles with logic and numeracy: towards a computer-on-a-particle. <i>Optoelectronic devices</i> . 2011 , 5, 103		6
310	Nanoscale structure intercrystalline interactions in fat crystal networks. 2011 , 16, 374-383		68
309	Self-assembly of viral particles. 2011 , 16, 441-450		42
308	Adaptive supramolecular nanomaterials based on strong noncovalent interactions. <i>ACS Nano</i> , 2011 , 5, 6791-818	16.7	373
307	Magnetic nanoparticles: recent advances in synthesis, self-assembly and applications. 2011 , 21, 16819		376
306	Multicomponent periodic nanoparticle superlattices. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 15-32	2.3	27

305	Surface-anisotropic spherical colloids in geometric and field confinement. 2011 , 16, 84-95		62
304	Hybrid nanoalloy: nanofibers fabricated by self-assembling dendrimers mediate in situ CdSe quantum dots and their metallization with discrete gold nanoparticles. <i>Advanced Materials</i> , 2011 , 23, 3289-93	24	14
303	Using magnetic levitation for three dimensional self-assembly. <i>Advanced Materials</i> , 2011 , 23, 4134-40	24	105
302	Pathway-dependent self-assembly of perylene diimide/peptide conjugates in aqueous medium. 2011 , 17, 6068-75		145
301	Controlled self-assembly of hydrophobic quantum dots through silanization. 2011 , 361, 9-15		7
300	A trajectory-based calibration method for stochastic motion models. 2011 ,		7
299	Inducing order using nanolaminate templates. 2011 , 26, 194-204		
298	Field-Control, Phase-Transitions, and Life's Emergence. 2012 , 3, 366		2
297	Properties of patchy colloidal particles close to a surface: a Monte Carlo and density functional study. <i>Journal of Chemical Physics</i> , 2012 , 137, 084704	3.9	26
296	Quantifying reversibility in a phase-separating lattice gas: an analogy with self-assembly. 2012 , 85, 021112		8
295	A Systematic Study on the Self-Assembly Behaviour of Multi Component Fmoc-Amino Acid-Poly(oxazoline) Systems. 2012 , 4, 1399-1415		5
294	Softening the "Crystal Scaffold" for Life's Emergence. 2012 , 2012, 1-13		1
293	Molecular Organization of the Lipid Matrix in Stratum Corneum and Its Relevance for the Protective Functions of Human Skin. 2012 , 125-147		1
292	Thermal-induced dynamic self-assembly of adenine-grafted polyoxometalate complexes. 2012 , 41, 10043-51		32
291	Entropic nanothermodynamic potential from molecular trapping within photon induced nano-voids in photon processed PDMS layers. <i>Soft Matter</i> , 2012 , 8, 5561	3.6	7
290	A nature-inspired approach to reactor and catalysis engineering. 2012 , 1, 281-289		87
289	Molecular gauge blocks for building on the nanoscale. 2012 , 18, 15632-49		23
288	Self-Assembly and Self-Organization. 2012 ,		1

287	Supramolecular Chemistry in Polymer Networks. 2012 ,		2
286	Instantaneous and reversible gelation of organically grafted polyoxometalate complexes with dicarboxylic acids. <i>Soft Matter</i> , 2012 , 8, 3315	3.6	32
285	Linear coupling of spherical block copolymer micelles induced by gradually depositing an insoluble component onto the core-shell interface. <i>Soft Matter</i> , 2012 , 8, 8636	3.6	7
284	Lyotropic smectic B phase formed in suspensions of charged colloidal platelets. 2012 , 134, 5985-90		38
283	Streptavidin Inhibits Self-Assembly of CdTe Nanoparticles. 2012 , 3, 3249-3256		6
282	Conformations of a dipolar solute in a Stockmayer solvent channel. 2012 , 28, 15286-93		1
281	A model for the controlled assembly of semiconductor peptides. 2012 , 4, 6940-7		63
280	Charge complementary enzymatic reconfigurable polymeric nanostructures. <i>Soft Matter</i> , 2012 , 8, 5127	3.6	11
279	Comparison of micro- vs. nanostructured colloidal gelatin gels for sustained delivery of osteogenic proteins: Bone morphogenetic protein-2 and alkaline phosphatase. 2012 , 33, 8695-703		120
278	Noncovalent self-assembly in aqueous medium: Mechanistic insights from time-resolved cryogenic electron microscopy. 2012 , 17, 330-342		31
277	Chapter 9:DNA Self-assembly: from Nanostructures to Macro-engineering. 2012 , 204-222		
276	From cluster assembly to ultrathin nanocrystals and complex nanostructures. 2012 , 55, 2257-2271		11
275	Responsive Colloids with Controlled Topology. 2012 , 269-300		
274	A supramolecular gel based on an adenine symmetrically grafted Anderson-type polyoxometalate complex. 2012 , 57, 4304-4309		14
273	Dynamic self-assembly of photo-switchable nanoparticles. <i>Soft Matter</i> , 2012 , 8, 227-234	3.6	45
272	Changing the Paradigm: Towards Computation with Molecules. 2012 , 37-61		
271	Low-Dimensional Metals and Semiconductors. 2012 , 63-117		
270	Self-Organization and Self-Assembly in Supramolecular Systems. 2012 , 199-223		

269	Nanoscale convection assisted self-assembly of nanoparticle monolayer. 2012 , 22, 4932		10
268	Predicting self-assembly: from empirism to determinism. <i>Chemical Society Reviews</i> , 2012 , 41, 3713-30	58.5	158
267	Controlling chemical self-assembly by solvent-dependent dynamics. 2012 , 134, 13482-91		186
266	Unknown aspects of self-assembly of PbS microscale superstructures. <i>ACS Nano</i> , 2012 , 6, 3800-12	16.7	90
265	Self-Assembling Nanotubes Consisting of Rigid Cyclic Peptides. 2012 , 22, 3051-3056		29
264	Macroscopic-scale assembled nanowire thin films and their functionalities. <i>Chemical Reviews</i> , 2012 , 112, 4770-99	68.1	242
263	Hierarchically assembled titania-cyclodextrin nano-networks. 2012 , 67, 11-13		13
262	Thermodynamic, kinetic, and structural factors in the synthesis of imine-linked dynamic covalent frameworks. 2012 , 68, 53-64		27
261	Amorphous Nanophotonics. <i>Nano-optics and Nanophotonics</i> , 2013 ,	0	17
260	Nanomaterial processing using self-assembly-bottom-up chemical and biological approaches. 2013 , 76, 066501		85
259	Development of structural complexity by liquid-crystal self-assembly. 2013 , 52, 8828-78		423
258	Self-assembly in nature: using the principles of nature to create complex nanobiomaterials. 2013 , 5, 582-612		195
257	Switchable static and dynamic self-assembly of magnetic droplets on superhydrophobic surfaces. 2013 , 341, 253-7		317
256	Peptide-based microcapsules obtained by self-assembly and microfluidics as controlled environments for cell culture. <i>Soft Matter</i> , 2013 , 9, 9237	3.6	17
255	Three dimensional self-assembly at the nanoscale. 2013 ,		2
254	Non-equilibrium ionic assemblies of oppositely charged nanoparticles. <i>Soft Matter</i> , 2013 , 9, 5042	3.6	25
253	Nanorings and rods interconnected by self-assembly mimicking an artificial network of neurons. <i>Nature Communications</i> , 2013 , 4, 2648	17.4	25
252	Materials science. Droplets out of equilibrium. 2013 , 341, 243-4		18

251	Nanoparticles in a capillary trap: dynamic self-assembly at fluid interfaces. <i>ACS Nano</i> , 2013 , 7, 8833-9	16.7	30
250	Directed self-assembly. <i>Soft Matter</i> , 2013 , 9, 9039	3.6	31
249	Dynamic and bio-orthogonal protein assembly along a supramolecular polymer. 2013 , 4, 2886		35
248	Bottom-up assembly of photonic crystals. <i>Chemical Society Reviews</i> , 2013 , 42, 2528-54	58.5	515
247	Collective behavior in out-of-equilibrium colloidal suspensions. 2013 , 14, 518-527		44
246	Electrostatic assembly of binary nanoparticle superlattices using protein cages. 2013 , 8, 52-6		271
245	Compression stiffness of porous nanostructures from self-assembly of branched nanocrystals. 2013 , 5, 681-6		8
244	Engineering shape: the novel geometries of colloidal self-assembly. <i>Soft Matter</i> , 2013 , 9, 8096	3.6	168
243	Multistep kinetic self-assembly of DNA-coated colloids. <i>Nature Communications</i> , 2013 , 4, 2007	17.4	93
242	Demixing and nematic behaviour of oblate hard spherocylinders and hard spheres mixtures: Monte Carlo simulation and Parsons-Lee theory. 2013 , 111, 3136-3146		13
241	Collective behaviour of self-propelled catalytic micromotors. 2013 , 5, 1284-93		89
240	NMR spectroscopic study of the self-aggregation of 3-hexen-1,5-diyne derivatives. 2013 , 19, 10271-9		15
239	Hybrid nanocolloids with programmed three-dimensional shape and material composition. 2013 , 12, 802-7		363
238	Wet chemical synthesis, structural and spectroscopic studies of CuSe-Ag hierarchical sphere and drum-like microporous structure. 2013 , 110, 67-71		2
237	Active colloids. 2013 , 183, 87-102		6
236	Acousto-fluidic system assisting in-liquid self-assembly of microcomponents. 2013 , 23, 125026		14
235	Triblock polyphiles through click chemistry: self-assembled thermotropic cubic phases formed by micellar and monolayer vesicular aggregates. 2013 , 19, 16303-13		29
234	Directed self-assembly of colloidal model systems on charge-selective surfaces in external electric fields: theory and numerical analysis. 2013 , 117, 1527-36		5

233	Organic switches for surfaces and devices. <i>Advanced Materials</i> , 2013 , 25, 331-48	24	134
232	Unconventional molecular scale logic devices. 2013 , 654-675		
231	Biomimetic Hard Materials. 2013 , 59-79		8
230	An Improved Method for Site-Specific End Modification of Zeolite L for the Formation of Zeolite L and Gold Nanoparticle Self-Assembled Structures. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 273-279	3.1	16
229	Active colloids. 2013 , 56, 79-92		91
228	Relationship between dynamical entropy and energy dissipation far from thermodynamic equilibrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16339-43	11.5	24
227	Entwicklung struktureller Komplexität durch Selbstorganisation in flüssigkristallinen Systemen. 2013 , 125, 8992-9047		76
226	Field-induced assembly of colloidal ellipsoids into well-defined microtubules. <i>Nature Communications</i> , 2014 , 5, 5516	17.4	71
225	Origins and emergent evolution of life: the colloid microsphere hypothesis revisited. 2014 , 44, 87-110		11
224	Nanoparticles at liquid interfaces: rotational dynamics and angular locking. <i>Journal of Chemical Physics</i> , 2014 , 140, 014904	3.9	20
223	Nanostructure Formation in Block Copolymers. 2014 , 195-271		3
222	Reorientation of a dipolar monolayer and dipolar solvent. 2014 , 89, 062404		1
221	The physical chemistry of the stratum corneum lipids. 2014 , 36, 505-15		29
220	Symmetry transformations in the development of organisms. 2014 , 48, 1117-1126		
219	What molecular assembly can learn from catalytic chemistry. <i>Chemical Society Reviews</i> , 2014 , 43, 399-415	58.5	65
218	Three-dimensional polymeric microtiles for optically-tracked fluidic self-assembly. 2014 , 124, 1-7		3
217	Aggregation of thiol coated gold nanoparticles: A simulation study on the effect of polymer coverage density and solvent. 2014 , 86, 174-179		9
216	Microwave-assisted hydrothermal synthesis and temperature sensing application of Er ³⁺ /Yb ³⁺ -doped NaY(WO ₄) ₂ microstructures. 2014 , 420, 27-34		89

215	Self-assembled solvato-morphologically controlled photochromic crystals. <i>Chemical Communications</i> , 2014 , 50, 924-6	5.8	18
214	Self-assembled tunable networks of sticky colloidal particles. <i>Nature Communications</i> , 2014 , 5, 3117	17.4	44
213	Energetic and topological approach for characterization of supramolecular clusters in organic crystals. 2014 , 4, 44337-44349		29
212	Synthesis and assembly of nanomaterials under magnetic fields. 2014 , 6, 14064-105		104
211	Thermally reversible self-assembly of nanoparticles via polymer crystallization. 2014 , 35, 2012-7		2
210	When self-assembly meets biology: luminescent platinum complexes for imaging applications. <i>Chemical Society Reviews</i> , 2014 , 43, 4144-66	58.5	237
209	Binding to semiflexible polymers: a novel method to control the structures of small numbers of building blocks. <i>Soft Matter</i> , 2014 , 10, 7661-8	3.6	6
208	Self-assembly of size-tunable supramolecular nanoparticle clusters in a microfluidic channel. 2014 , 1, 595-601		6
207	Directed assembly of bifunctional silica-iron oxide nanocomposite with open shell structure. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16508-18	9.5	12
206	Engineering entropy in soft matter: the bad, the ugly and the good. <i>Soft Matter</i> , 2014 , 10, 8388-400	3.6	38
205	Microscale assembly directed by liquid-based template. <i>Advanced Materials</i> , 2014 , 26, 5936-41	24	82
204	MOF positioning technology and device fabrication. <i>Chemical Society Reviews</i> , 2014 , 43, 5513-60	58.5	516
203	Bactericidal activity of elastin-like polypeptide biopolymer with polyhistidine domain and silver. 2014 , 119, 66-70		7
202	Dissipative assembly of a membrane transport system. 2014 , 5, 3396-3403		64
201	Three-dimensional hierarchical pompon-like Co ₃ O ₄ porous spheres for high-performance lithium-ion batteries. 2014 , 2, 13801-13804		70
200	Danus-type Ruthenium Complex Bearing Both Phosphonic Acids and Pyrene Groups for Functionalization of ITO and HOPG Surfaces. 2015 , 44, 160-162		4
199	Self-Directed Assembly of Nanoparticles: A Review on Various Approaches. 2015 , 297-335		1
198	Elastic Cheerios effect: Self-assembly of cylinders on a soft solid. <i>Europhysics Letters</i> , 2015 , 112, 54001	1.6	10

197	The Fluid Joint: The Soft Spot of Micro- and Nanosystems. <i>Advanced Materials</i> , 2015 , 27, 4254-72	24	30
196	Towards Supramolecular Catalysis with Small Self-assembled Peptides. 2015 , 55, 711-723		36
195	Mesoscopic Self-Assembly: A Shift to Complexity. 2015 , 1,		4
194	Tuning the self-assembly of surfactants by the confinement of carbon nanotube arrays: a cornucopia of lamellar phase variants. 2015 , 7, 6069-74		5
193	Self-assembly of "patchy" nanoparticles: a versatile approach to functional hierarchical materials. 2015 , 6, 3663-3673		109
192	Shape-sensitive crystallization in colloidal superball fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5286-90	11.5	89
191	Single-chain polymer nanoparticles: Mimic the proteins. <i>Polymer</i> , 2015 , 66, A11-A21	3.9	53
190	Understanding the forces acting in self-assembly and the implications for constructing three-dimensional (3D) supercrystals. 2015 , 8, 2445-2466		41
189	Anomalous lifetime statistics of ligand-receptor binding in a tethered polymer system. 2015 , 2015, P10012		
188	Purely hydrodynamic ordering of rotating disks at a finite Reynolds number. <i>Nature Communications</i> , 2015 , 6, 5994	17.4	46
187	Biocompatible Mesoporous and Soft Nanoarchitectures. 2015 , 25, 214-232		61
186	A Structural Model for a Self-Assembled Nanotube Provides Insight into Its Exciton Dynamics. 2015 , 119, 13948-13956		19
185	Design of a Kagome lattice from soft anisotropic particles. <i>Soft Matter</i> , 2015 , 11, 6663-8	3.6	5
184	Aggregation of inorganic nanoparticles mediated by biomimetic oligomers. 2015 , 13, 8978-92		6
183	Multiscale assembly for tissue engineering and regenerative medicine. 2015 , 33, 269-279		135
182	Lipase-catalyzed dissipative self-assembly of a thixotropic Peptide bolaamphiphile hydrogel for human umbilical cord stem-cell proliferation. <i>Biomacromolecules</i> , 2015 , 16, 1157-68	6.9	33
181	Kinetic Analysis as a Tool to Distinguish Pathway Complexity in Molecular Assembly: An Unexpected Outcome of Structures in Competition. 2015 , 137, 12677-88		71
180	Hyper Bio Assembler for 3D Cellular Systems. 2015 ,		0

179	Formation of nano-structured core-shell micro-granules by evaporation induced assembly. 2015 , 5, 85052-85060		
178	Transient signal generation in a self-assembled nanosystem fueled by ATP. <i>Nature Communications</i> , 2015 , 6, 7790	17.4	87
177	Fabrication of 3D Cellular Tissue Utilizing MEMS Technologies. 2015 , 177-202		2
176	Celebrating Soft Matter's 10th Anniversary: Approaches to program the time domain of self-assemblies. <i>Soft Matter</i> , 2015 , 11, 7857-66	3.6	65
175	Non-additive simple potentials for pre-programmed self-assembly. <i>Soft Matter</i> , 2015 , 11, 889-97	3.6	22
174	Light-powered autonomous and directional molecular motion of a dissipative self-assembling system. 2015 , 10, 70-5		285
173	Pressure sensitive adhesives based on interpolymer complexes. 2015 , 42, 79-153		47
172	Self-assembly of nanobiomaterials. 2016 , 57-90		3
171	Dissipative and Autonomous Square-Wave Self-Oscillation of a Macroscopic Hybrid Self-Assembly under Continuous Light Irradiation. 2016 , 128, 8379-8383		16
170	Building Blocks for Bottom-Up Neural Tissue Engineering: Tools for In Vitro Assembly and Interrogation of Neural Circuits. 2016 , 123-144		1
169	Dissipative and Autonomous Square-Wave Self-Oscillation of a Macroscopic Hybrid Self-Assembly under Continuous Light Irradiation. 2016 , 55, 8239-43		53
168	In situ contrast calibration to determine the height of individual diffusing nanoparticles in a tunable confinement. 2016 , 119, 024303		11
167	Learning the mechanisms of chemical disequilibria. <i>Journal of Chemical Physics</i> , 2016 , 145, 084112	3.9	10
166	Survey of plasmonic gaps tuned at sub-nanometer scale in self-assembled arrays. 2016 , 11, 1		1
165	Self-assembly of trimer colloids: effect of shape and interaction range. <i>Soft Matter</i> , 2016 , 12, 4170-9	3.6	18
164	Regulating Competing Supramolecular Interactions Using Ligand Concentration. 2016 , 138, 6852-60		13
163	Multi-stimuli responsive amine-containing polyethers: Novel building blocks for smart assemblies. <i>Polymer</i> , 2016 , 93, 221-239	3.9	14
162	The nature and implications of uniformity in the hierarchical organization of nanomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11717-11725	11.5	64

161	Maximizing Headgroup Repulsion: Hybrid Surfactants with Ultrahighly Charged Inorganic Heads and Their Unusual Self-Assembly. 2016 , 32, 10920-10927		6
160	Geometric Self-Assembly of Rigid Shapes: A Simple Voronoi Approach. 2016 , 76, 1101-1125		1
159	Exploitation of Self-Assembly Phenomena in Liquid-Crystalline Polymer Phases for Obtaining Multifunctional Materials. 2016 , 37-62		
158	Dynamic self-assembly of non-Brownian spheres studied by molecular dynamics simulations. 2016 , 93, 020902		8
157	Hydrazone Switch-Based Negative Feedback Loop. 2016 , 138, 15142-15145		65
156	Structure and Self-Assembly of Multicolored Naphthalene Diimides Semiconductor. 2016 , 06, 1642007		2
155	Polarized Raman scattering and SEM combined full characterization of self-assembled nematic thin films. 2016 , 8, 7672-82		6
154	Nanomanufacturing: A Perspective. <i>ACS Nano</i> , 2016 , 10, 2995-3014	16.7	126
153	Fundamental aspects in surface self-assembly: theoretical implications of molecular polarity and shape. 2016 , 18, 6498-508		1
152	Hierarchical organization and molecular diffusion in gold nanorod/silica supercrystal nanocomposites. 2016 , 8, 7914-22		31
151	Preparation of well-defined fibrous hydrogels via electrospinning and in situ click chemistry 2016 , 6, 27871-27878		6
150	Supramolecular Polymers in Aqueous Media. <i>Chemical Reviews</i> , 2016 , 116, 2414-77	68.1	494
149	Mimicking the Cell: Bio-Inspired Functions of Supramolecular Assemblies. <i>Chemical Reviews</i> , 2016 , 116, 2023-78	68.1	204
148	Sulphur-reduced self-assembly of flower-like vanadium pentoxide as superior cathode material for Li-ion battery. 2016 , 655, 79-85		12
147	2D or not 2D? Shape-programming polymer sheets. 2016 , 52, 79-106		242
146	Tailored stimuli-responsive interaction between particles adjusted by straightforward adsorption of mixed layers of Poly(lysine)-g-PEG and Poly(lysine)-g-PNIPAM on anionic beads. 2016 , 461, 50-55		13
145	On the role of alginate structure in complexing with lysozyme and application for enzyme delivery. 2016 , 53, 239-248		41
144	Comparison of technologies for nano device prototyping with a special focus on ion beams: A review. 2017 , 4, 011302		37

143	Phase behaviour and gravity-directed self assembly of hard convex spherical caps. <i>Soft Matter</i> , 2017 , 13, 2085-2098	3.6	3
142	Supramolecular Gel-Templated In Situ Synthesis and Assembly of CdS Quantum Dots Gels. 2017 , 12, 30		5
141	Well-Organized Inorganic Nanowire Films. <i>Springer Theses</i> , 2017 ,	0.1	
140	Computer simulations of self-assembled energy materials. 2017 , 43, 797-807		1
139	Magneto-Adaptive Surfactants Showing Anti-Curie Behavior and Tunable Surface Tension as Porogens for Mesoporous Particles with 12-Fold Symmetry. 2017 , 56, 5475-5479		6
138	Magneto-Adaptive Surfactants Showing Anti-Curie Behavior and Tunable Surface Tension as Porogens for Mesoporous Particles with 12-Fold Symmetry. 2017 , 129, 5567-5571		4
137	Supramolecular materials. <i>Chemical Society Reviews</i> , 2017 , 46, 2404-2420	58.5	391
136	Macroscopically Oriented Porous Materials with Periodic Ordered Structures: From Zeolites and Metal-Organic Frameworks to Liquid-Crystal-Templated Mesoporous Materials. <i>Advanced Materials</i> , 2017 , 29, 1605974	24	27
135	Emergence of an enslaved phononic bandgap in a non-equilibrium pseudo-crystal. 2017 , 16, 808-813		21
134	Temporal Control over Transient Chemical Systems using Structurally Diverse Chemical Fuels. 2017 , 23, 11549-11559		24
133	Clusters of anisotropic colloidal particles: From colloidal molecules to supracolloidal structures. 2017 , 30, 70-80		44
132	Hydrodynamic interactions between a self-rotation rotator and passive particles. 2017 , 29, 103301		11
131	Probing the Limits of Supramolecular G-Quadruplexes Using Atomistic Molecular Dynamics Simulations. 2017 , 468, 209-222		1
130	Non-equilibrium dissipative supramolecular materials with a tunable lifetime. <i>Nature Communications</i> , 2017 , 8, 15895	17.4	159
129	A comparison of open-loop and closed-loop strategies in colloidal self-assembly. 2017 , 60, 141-151		14
128	Nanoparticle Shape Influences the Magnetic Response of Ferro-Colloids. <i>ACS Nano</i> , 2017 , 11, 8153-8166	16.7	14
127	Nanoparticles assemblies on demand: Controlled aggregation of Ag(0) mediated by modified peptoid sequences. 2017 , 508, 56-64		16
126	Modeling shear-induced particle ordering and deformation in a dense soft particle suspension. 2017 , 29, 435101		3

125	Dynamic Density Functional Theories for Inhomogeneous Polymer Systems Compared to Brownian Dynamics Simulations. <i>Macromolecules</i> , 2017 , 50, 9831-9845	5.5	18
124	From dynamic self-assembly to networked chemical systems. <i>Chemical Society Reviews</i> , 2017 , 46, 5647-5688	58.5	176
123	Dissipative out-of-equilibrium assembly of man-made supramolecular materials. <i>Chemical Society Reviews</i> , 2017 , 46, 5519-5535	58.5	251
122	Dynamics of network fluids. 2017 , 247, 258-263		20
121	Fuel-Mediated Transient Clustering of Colloidal Building Blocks. 2017 , 139, 9763-9766		74
120	Controlling supramolecular polymerization through multicomponent self-assembly. 2017 , 55, 34-78		101
119	Yield prediction in parallel homogeneous assembly. <i>Soft Matter</i> , 2017 , 13, 7595-7608	3.6	5
118	Colloidal Crystals: Using Self-Assembly to Create Structures From Nanoparticle Building Blocks. 2017 , 109-127		
117	Programming Cells for Dynamic Assembly of Inorganic Nano-Objects with Spatiotemporal Control. <i>Advanced Materials</i> , 2018 , 30, e1705968	24	30
116	Two-Step Assembly of Thermo-responsive Gold Nanorods Coated with a Single Kind of Ligand. 2018 , 14, e1704230		20
115	Nano-Manufacturing of Supramolecular Structures of Bio-Inspired Naphthalene Diimide Bolaamphiphile via Solvophobic Controlled Self-Assembly. 2018 , 3, 1460-1465		5
114	Metalloporphyrin/polyelectrolyte assemblies in aqueous solution: Influence of the metal center and the polyelectrolyte architecture. 2018 , 56, 484-500		4
113	Small molecule self-assembly in polymer matrices. 2018 , 56, 451-478		5
112	Efficient mesoscale hydrodynamics: Multiparticulate collision dynamics with massively parallel GPU acceleration. 2018 , 230, 10-20		30
111	The Emergence of Structured, Living, and Conscious Matter in the Evolution of the Universe: A Theory of Structural Evolution and Interaction of Matter. 2018 , 231-262		0
110	Controlling the Functional Properties of Oligothiophene Crystalline Nano/Microfibers via Tailoring of the Self-Assembling Molecular Precursors. 2018 , 28, 1801946		17
109	Displaying biofunctionality on materials through templated self-assembly. 2018 , 341-370		1
108	. 2018 ,		6

107	Modelling the Plant Microtubule Cytoskeleton. 2018 , 53-67		
106	Nonequilibrium associative retrieval of multiple stored self-assembly targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E10531-E10538	11.5	14
105	Self-assembly of granular spheres under one-dimensional vibration. <i>Soft Matter</i> , 2018 , 14, 9856-9869	3.6	15
104	One-Pot Synthesis of Pd Nanorings Using a Soft Template of Spindle-Shaped Amphiphilic Molecular Assembly. 2018 , 122, 23165-23171		3
103	Application of Bio-nanotechnology to Electronic Packaging. 2018 , 907-920		
102	Surface morphology of F82H steel exposed to low-energy D plasma at elevated temperatures. 2018 , 510, 366-372		2
101	Unique properties of supramolecular biomaterials through nonequilibrium self-assembly. 2018 , 235-250		9
100	Stress relaxation in quasi-two-dimensional self-assembled nanoparticle monolayers. 2018 , 97, 052803		5
99	Controlled formation of chitosan particles by a clock reaction. <i>Soft Matter</i> , 2018 , 14, 6415-6418	3.6	15
98	Synthesis, Self-Assembly, and Drug-Release Properties of New Amphiphilic Liquid Crystal Polycarbonates. <i>Nanomaterials</i> , 2018 , 8,	5.4	10
97	Multicomponent self-assembly: Supramolecular design of complex hydrogels for biomedical applications. 2018 , 371-397		5
96	Light-Controlled Swarming and Assembly of Colloidal Particles. <i>Micromachines</i> , 2018 , 9,	3.3	29
95	Bimetallic Nanoframes and Nanoporous Structures. 2018 , 172-246		1
94	Reversible Self-Assembly (fcc-bcc) Crystallization of Confined Granular Spheres via a Shear Dimensionality Mechanism. 2018 , 121, 074302		7
93	Swarming and collective migration of micromotors under near infrared light. 2018 , 13, 45-53		64
92	Phase Behavior of Bowl-Shaped Colloids: Order and Dynamics in Plastic Crystals and Glasses. 2018 , 14, e1802049		22
91	Universal trapping in a three-beam optical lattice. 2018 , 98,		3
90	Applications of Dissipative Supramolecular Materials with a Tunable Lifetime. 2018 , 4, 710-719		41

89	Strain relaxation and epitaxial relationship of perylene overlayer on Ag(110). <i>Journal of Chemical Physics</i> , 2018 , 148, 214702	3.9	4
88	Theoretical insight to magnetic-field-induced structural transition in two-dimensional colloidal crystal. 2019 , 52, 465004		
87	Application and Perspectives. 2019 , 207-237		
86	Hierarchical self-assembly, spongy architecture, liquid crystalline behaviour and phase diagram of Laponite nanoplatelets in alcohol-water binary solvents. 2019 , 554, 731-742		2
85	Bimodal self-assembly of granular spheres under vertical vibration. <i>Soft Matter</i> , 2019 , 15, 5933-5944	3.6	10
84	Self-assembling outside equilibrium: emergence of structures mediated by dissipation. 2019 , 21, 17475-17493	15	
83	Modeling Supramolecular Polymerization: The Role of Steric Effects and Hydrophobic Interactions. <i>Macromolecules</i> , 2019 , 52, 7661-7667	5.5	8
82	Dynamic self-assembly of block copolymers regulated by time-varying building block composition via reversible chemical reaction. 2019 , 62, 1666-1674		1
81	Self-propulsion of symmetric chemically active particles: Point-source model and experiments on camphor disks. 2019 , 99, 062605		22
80	A New Hope: Self-Assembling Peptides with Antimicrobial Activity. 2019 , 11,		49
79	Tunable and switchable soft adsorption of polymer-coated microparticles on a flat substrate. 2019 , 575, 199-204		1
78	Depletion-driven morphological transitions in hexagonal crystallites of virus rods. <i>Soft Matter</i> , 2019 , 15, 9520-9527	3.6	4
77	Allosteric pathway selection in templated assembly. <i>Science Advances</i> , 2019 , 5, eaaw3353	14.3	3
76	Light-Responsive Size of Self-Assembled Spiropyran-Lysozyme Nanoparticles with Enzymatic Function. <i>Biomacromolecules</i> , 2019 , 20, 979-991	6.9	17
75	Molecular bionics - engineering biomaterials at the molecular level using biological principles. 2019 , 192, 26-50		18
74	Predicting the orientation of magnetic microgel rods for soft anisotropic biomimetic hydrogels. <i>Polymer Chemistry</i> , 2020 , 11, 496-507	4.9	21
73	The impact of metal coordination on the assembly of bis(indolyl)methane-naphthalene-diimide amphiphiles. 2020 , 49, 13685-13692		3
72	Hydrazones as New Molecular Tools. 2020 , 6, 2162-2173		27

71	Light-directed trapping of metastable intermediates in a self-assembly process. <i>Nature Communications</i> , 2020 , 11, 6260	17.4	4
70	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. 2020 , 132, 15253-15258		1
69	Precise Control Over Kinetics of Molecular Assembly: Production of Particles with Tunable Sizes and Crystalline Forms. 2020 , 59, 15141-15146		3
68	Interfaces and surfaces. 2020 , 51-87		2
67	Entropy and Random Walk Trails Water Confinement and Non-Thermal Equilibrium in Photon-Induced Nanocavities. <i>Nanomaterials</i> , 2020 , 10,	5.4	0
66	Light-controlled self-assembly of a dithienylethene bolaamphiphile in water. 2020 , 49, 8846-8849		1
65	Writable and Self-Erasable Hydrogel Based on Dissipative Assembly Process from Multiple Carboxyl Tetraphenylethylene Derivative. 2020 , 2, 425-429		18
64	Self-Assembly of Porphyrin Nanostructures at the Interface between Two Immiscible Liquids. 2020 , 124, 6929-6937		13
63	Self-assembly of small molecules at hydrophobic interfaces using group effect. 2020 , 12, 5452-5463		16
62	Biofunctionalization of Natural Fiber-Reinforced Biocomposites for Biomedical Applications. 2020 , 10,		43
61	AC Electric Field Mediated Assembly of Bacterial Tetrads. 2020 , 5, 5881-5887		2
60	Modelling non-equilibrium self-assembly from dissipation. 2020 , 118, e1761036		
59	A three-in-one crystal of mixed sized cucurbit[n]uril homologues. 2020 , 22, 2900-2903		0
58	The Inclusion of a Matrix Metalloproteinase-9 Responsive Sequence in Self-assembled Peptide-based Brain-Targeting Nanoparticles Improves the Efficiency of Nanoparticles Crossing the Blood-Brain Barrier at Elevated MMP-9 Levels. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 1349-1364	3.9	1
57	Self-assembly of colloidal inorganic nanocrystals: nanoscale forces, emergent properties and applications. <i>Chemical Society Reviews</i> , 2021 , 50, 2074-2101	58.5	16
56	A transient non-covalent hydrogel by a supramolecular gelator with dynamic covalent bonds. <i>New Journal of Chemistry</i> , 2021 , 45, 4773-4779	3.6	2
55	Construction of Janus dendrimers through a self-assembly approach involving chiral discrimination at a focal point. <i>Chemical Communications</i> , 2021 , 57, 6404-6407	5.8	1
54	Building Reversible Nanoraspberries. <i>Nano Letters</i> , 2021 , 21, 2232-2239	11.5	0

53	Kinetics of Ferritin Self-Assembly by Laser Light Scattering: Impact of Subunit Concentration, pH, and Ionic Strength. <i>Biomacromolecules</i> , 2021 , 22, 1389-1398	6.9	10
52	Dynamical effects of long-range interaction revealed in screened Coulomb interacting ring systems. <i>Europhysics Letters</i> , 2021 , 133, 54002	1.6	0
51	Regulating DNA Self-Assembly Dynamics with Controlled Nucleation. <i>ACS Nano</i> , 2021 , 15, 5384-5396	16.7	5
50	Deconvolution of dissipative pathways for the interpretation of tapping-mode atomic force microscopy from phase-contrast. <i>Communications Physics</i> , 2021 , 4,	5.4	1
49	Light-driven Rotary Molecular Motors for Out-of-Equilibrium Systems. 2021 , 337-377		
48	Mechanism of periodic field driven self-assembly process. <i>Journal of Chemical Physics</i> , 2021 , 154, 144904	3.9	0
47	In Situ Construction of Functional Assemblies in Living Cells for Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100381	10.1	2
46	Reversible self-assembly of gold nanoparticles in response to external stimuli. <i>Materials and Design</i> , 2021 , 205, 109694	8.1	8
45	Self-assembly using a retro Diels-Alder reaction. <i>Nature Communications</i> , 2021 , 12, 4207	17.4	7
44	Hierarchical self-assembly of polydisperse colloidal bananas into a two-dimensional vortex phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	0
43	Fabricating Soft Fluorescent Materials by a Supramolecular Method and a Cost-Effective Approach to Effectively Sense Amine Vapors during Fish Spoilage. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	0
42	Recent Notable Approaches to Study Self-Assembly of Nanoparticles with X-Ray Scattering and Electron Microscopy. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2100087	3.1	8
41	CHAPTER 1:Inorganic Nanocrystals and Surfaces: An Overview. <i>RSC Nanoscience and Nanotechnology</i> , 2021 , 1-46		1
40	Viewpoint: Pavlovian Materials-Functional Biomimetics Inspired by Classical Conditioning. <i>Advanced Materials</i> , 2020 , 32, e1906619	24	15
39	Formation of Colloidal Superstructures of Disc-like Particles Utilizing Hydrogen Bonding Interactions between Steric Stabilizers. <i>Macromolecules</i> , 2020 , 53, 11027-11032	5.5	1
38	Shear-induced interfacial assembly of Janus particles. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	7
37	Role of Marangoni forces in the velocity of symmetric interfacial swimmers. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	2
36	Dissipative morphological characteristics of photo-responsive block copolymers driven by time-oscillatory irradiations: An in silico study. <i>Polymer</i> , 2021 , 235, 124234	3.9	0

35	Molecules on Semiconductors. <i>The Electrical Engineering Handbook</i> , 2012 , 367-396		
34	Plasmonic Nanoparticle-Based Metamaterials: From Electric to Magnetic Response. <i>Nano-optics and Nanophotonics</i> , 2013 , 327-365	0	
33	Introduction. <i>Springer Theses</i> , 2017 , 1-31	0.1	
32	Introduction. <i>Springer Theses</i> , 2017 , 1-12	0.1	0
31	Peptide Design and Self-assembly into Targeted Nanostructure and Functional Materials. <i>Chemical Reviews</i> , 2021 , 121, 13915-13935	68.1	9
30	Nanobiomaterials for neural regenerative medicine. 2020 , 25-45		0
29	Precursor nuclei on the bottom of a vibrating container: The onset of granular self-assembly crystallization. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 126577	3.3	0
28	Biogenic Silver Nanoparticles: Synthesis and Application as Antibacterial and Antifungal Agents.. <i>Micromachines</i> , 2021 , 12,	3.3	9
27	Luminescence property switching in 1D supramolecular polymerization of organic donor-acceptor chromophores. <i>Polymer Chemistry</i> ,	4.9	1
26	Nanoscale self-assembly: concepts, applications and challenges. <i>Nanotechnology</i> , 2021 ,	3.4	5
25	Predictive Theoretical Framework for Dynamic Control of Bioinspired Hybrid Nanoparticle Self-Assembly.. <i>ACS Nano</i> , 2022 ,	16.7	2
24	Magnetowetting dynamics of sessile ferrofluid droplets: a review.. <i>Soft Matter</i> , 2022 ,	3.6	2
23	Elucidating the effect of intrinsic defects on the dosimetric properties of the MgB4O7 compound: an atomistic simulation approach. <i>New Journal of Chemistry</i> , 2022 , 46, 6403-6413	3.6	
22	Self-Assembled Nanocomposites and Nanostructures for Environmental and Energy Applications. <i>Crystals</i> , 2022 , 12, 274	2.3	
21	Bioactive Keratin and Fibroin Nanoparticles: An Overview of Their Preparation Strategies.. <i>Nanomaterials</i> , 2022 , 12,	5.4	1
20	A review on particle assembly in standing wave acoustic field. <i>Journal of Nanoparticle Research</i> , 2022 , 24, 1	2.3	
19	An in situ self-assembly strategy for exact-(110)-plane-controlled crystallization of high-performance YBa2Cu3O7 single grains. <i>Ceramics International</i> , 2022 ,	5.1	0
18	Formation of Colloidal Chains and Driven Clusters with Optical Binding. <i>Soft Matter</i> ,	3.6	

17	Nanoparticle Self-Assembly: From Design Principles to Complex Matter to Functional Materials. <i>ACS Applied Materials & Interfaces</i> ,	9.5	6
16	Instability mediated self-templating of drop crystals. <i>Science Advances</i> , 2022 , 8,	14.3	0
15	Self-Assembly at a Macroscale Using Aerodynamics. 2022 , 12, 7676		0
14	An introduction of self-assembled nanobiomaterials and their applications. 2022 , 1-7		0
13	Packing core-corona particles on a spherical surface. 2022 , 18, 6812-6824		1
12	Directed Assembly of Nanomaterials for Making Nanoscale Devices and Structures: Mechanisms and Applications.		1
11	Stochastic paths controlling speed and dissipation. 2022 , 106,		1
10	From Nanoscopic to Macroscopic Materials by Stimuli-Responsive Nanoparticle Aggregation. 2208995		0
9	Optimizing dynamical functions for speed with stochastic paths. 2022 , 157, 224101		0
8	Sequencing waves in single-transducer acoustophoretic patterning of microspheres. 2022 , 121, 244106		0
7	Multicomponent nanoparticle superlattices. 2022 ,		0
6	Chemical fuel-driven gelation with dissipative assembly-induced emission.		0
5	Active Control of Equilibrium, Near-Equilibrium, and Far-from-Equilibrium Colloidal Systems.		0
4	Keto-form directed hierarchical chiral self-assembly of Schiff base derivatives with amplified circularly polarized luminescence. 2023 , 108409		0
3	Self-Assembly of Pt ₃ Co Superlattice as a Catalyst for Oxygen Reduction Reaction. 2023 , 13, 406		0
2	Synthesis of patchy particles using gaseous ligands. 2023 , 35, 174003		0
1	Silica nanoparticles self-assembly process in polymer composites: Towards advanced materials. 2023 ,		0