

Triblock Colloids for Directed Self-Assembly

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Fabrication of Binary and Ternary Hybrid Particles Based on Colloidal Lithography. <i>Chemistry of Materials</i> , 2012, 24, 4549-4555.	6.7	24
3	Template-Assisted Fabrication of Patchy Particles with Uniform Patches. <i>Langmuir</i> , 2012, 28, 9915-9919.	3.5	45
4	Staged Self-Assembly of Colloidal Metastructures. <i>Journal of the American Chemical Society</i> , 2012, 134, 11080-11083.	13.7	93
5	Bifunctional Janus beads made by "sandwich" microcontact printing using click chemistry. <i>Journal of Materials Chemistry</i> , 2012, 22, 6190.	6.7	42
7	Tunable Supermicelle Architectures from the Hierarchical Self-Assembly of Amphiphilic Cylindrical B ₂ A ₂ B Triblock Co ₂ Micelles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11882-11885.	13.8	72
8	Janus and Multiblock Colloidal Particles. <i>Langmuir</i> , 2012, 28, 13555-13561.	3.5	117
9	Chapter 5. Particle Replication in Non-wetting Templates: a Platform for Engineering Shape- and Size-specific Janus Particles. <i>RSC Smart Materials</i> , 2012, , 90-107.	0.1	1
10	Tuning Multiphase Amphiphilic Rods to Direct Self-Assembly. <i>Journal of the American Chemical Society</i> , 2012, 134, 5801-5806.	13.7	55
11	Self-assembly of amphiphilic patchy particles with different cross-linking densities. <i>Soft Matter</i> , 2012, 8, 7073.	2.7	10
12	Efficient Synthesis of Single Gold Nanoparticle Hybrid Amphiphilic Triblock Copolymers and Their Controlled Self-Assembly. <i>Journal of the American Chemical Society</i> , 2012, 134, 7624-7627.	13.7	156
13	Fabrication, properties and applications of Janus particles. <i>Chemical Society Reviews</i> , 2012, 41, 4356.	38.1	570
14	Janus Colloidal Matchsticks. <i>Journal of the American Chemical Society</i> , 2012, 134, 12901-12903.	13.7	75
15	A simulation model for soft triblock Janus particles and their ordered packing. <i>RSC Advances</i> , 2013, 3, 813-822.	3.6	33
16	Stable cluster phase of Janus particles in two dimensions. <i>Soft Matter</i> , 2013, 9, 10694.	2.7	51
17	A vesicle cell under collision with a Janus or homogeneous nanoparticle: translocation dynamics and late-stage morphology. <i>Nanoscale</i> , 2013, 5, 9089.	5.6	50
18	Entropy favours open colloidal lattices. <i>Nature Materials</i> , 2013, 12, 217-222.	27.5	166
19	Self-Assembly of Triblock Janus Nanoparticle in Nanotube. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 179-187.	5.3	34
20	Organized Self-Assembly of Janus Micromotors with Hydrophobic Hemispheres. <i>Journal of the American Chemical Society</i> , 2013, 135, 998-1001.	13.7	189

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21	Emerging chirality in nanoscience. <i>Chemical Society Reviews</i> , 2013, 42, 2930-2962.	38.1	468
22	Self-consistent phonon theory of the crystallization and elasticity of attractive hard spheres. <i>Journal of Chemical Physics</i> , 2013, 138, 084510.	3.0	5
23	Brownian dynamics method for simulation of binding kinetics of patterned colloidal spheres with hydrodynamic interactions. <i>Journal of Chemical Physics</i> , 2013, 138, 174904.	3.0	4
24	Asymmetric organic/metal(oxide) hybrid nanoparticles: synthesis and applications. <i>Nanoscale</i> , 2013, 5, 5151.	5.6	50
25	Template-Assisted GLAD: Approach to Single and Multipatch Patchy Particles with Controlled Patch Shape. <i>Langmuir</i> , 2013, 29, 15755-15761.	3.5	29
26	Entropic effects in the self-assembly of open lattices from patchy particles. <i>Physical Review E</i> , 2013, 87, 062319.	2.1	26
27	Colloidal Lithography. , 2013, , .		5
28	Morphing Metal-Polymer Janus Particles. <i>Advanced Materials</i> , 2014, 26, 899-904.	21.0	36
29	Spatially Controlled Channel Entrances Functionalization of Zeolites L. <i>Advanced Materials</i> , 2014, 26, 3248-3252.	21.0	15
30	Theory of two-dimensional self-assembly of Janus colloids: crystallization and orientational ordering. <i>Soft Matter</i> , 2014, 10, 262-274.	2.7	49
31	Self-assembly of two-patch particles in solution: a Brownian dynamics simulation study. <i>Molecular Simulation</i> , 2014, 40, 449-457.	2.0	8
32	Soft Janus particles: ideal building blocks for template-free fabrication of two-dimensional exotic nanostructures. <i>Soft Matter</i> , 2014, 10, 5472.	2.7	19
33	Orientational order of one-patch colloidal particles in two dimensions. <i>Soft Matter</i> , 2014, 10, 7170-7181.	2.7	43
34	Designing patchy particles for optimum interfacial activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8283.	2.8	19
35	Reconfigurable assemblies of Janus rods in AC electric fields. <i>Soft Matter</i> , 2014, 10, 1320-1324.	2.7	45
36	Harnessing nonlinear rubber swelling for bulk synthesis of anisotropic hybrid nanoparticles. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8745-8749.	5.5	10
37	Self-assembly of three-dimensional open structures using patchy colloidal particles. <i>Soft Matter</i> , 2014, 10, 7569-7576.	2.7	32
38	Self-assembly of kagome lattices, entangled webs and linear fibers with vibrating patchy particles in two dimensions. <i>Soft Matter</i> , 2014, 10, 9167-9176.	2.7	17

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40	Self-Assembly Behavior of Hairy Colloidal Particles with Different Architectures: Mixed versus Janus. <i>Langmuir</i> , 2014, 30, 12765-12774.	3.5	18
41	Design principles for Bernal spirals and helices with tunable pitch. <i>Nanoscale</i> , 2014, 6, 9448-9456.	5.6	25
42	Natural amphiphilic proteins as tri-block Janus particles: Self-sorting into thermo-responsive gels. <i>Europhysics Letters</i> , 2014, 107, 58003.	2.0	27
43	Hidden Structural Features of Multicompartment Micelles Revealed by Cryogenic Transmission Electron Tomography. <i>ACS Nano</i> , 2014, 8, 11330-11340.	14.6	56
44	Reconfigurable multi-scale colloidal assembly on excluded volume patterns. <i>Scientific Reports</i> , 2015, 5, 13612.	3.3	13
45	Preparation of Highly Monodisperse Monopatch Particles with Orthogonal Click-Type Functionalization and Biorecognition. <i>Small</i> , 2015, 11, 4540-4548.	10.0	21
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47	Reversible Janus particle assembly via responsive host-guest interactions. <i>Chemical Communications</i> , 2015, 51, 2725-2727.	4.1	62
48	Self-assembly of patchy colloidal dumbbells. <i>Journal of Chemical Physics</i> , 2015, 142, 084905.	3.0	43
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54	Influences of Substrate Adhesion and Particle Size on the Shape Memory Effect of Polystyrene Particles. <i>Langmuir</i> , 2016, 32, 3691-3698.	3.5	35
55	Colloidal Recycling: Reconfiguration of Random Aggregates into Patchy Particles. <i>ACS Nano</i> , 2016, 10, 4322-4329.	14.6	44
56	Electric double layer of anisotropic dielectric colloids under electric fields. <i>European Physical Journal: Special Topics</i> , 2016, 225, 685-698.	2.6	5

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58	Supracolloidal fullerene-like cages: design principles and formation mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32534-32540.	2.8	4
59	Spatial confinement governs orientational order in patchy particles. <i>Scientific Reports</i> , 2016, 6, 27599.	3.3	27
60	Crystals of Janus colloids at various interaction ranges. <i>Journal of Chemical Physics</i> , 2016, 145, .	3.0	20
61	Uniform Plasmonic Response of Colloidal Ag Patchy Particles Prepared by Swinging Oblique Angle Deposition. <i>Langmuir</i> , 2016, 32, 4969-4974.	3.5	14
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63	Dynamics of dissipative self-assembly of particles interacting through oscillatory forces. <i>Faraday Discussions</i> , 2016, 186, 399-418.	3.2	15
64	A versatile model for soft patchy particles with various patch arrangements. <i>Soft Matter</i> , 2016, 12, 741-749.	2.7	37
65	Synthesis and assembly of patchy particles: Recent progress and future prospects. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 30, 45-53.	7.4	92
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67	Density dependence of orientational order in one-patch particles. <i>Soft Matter</i> , 2017, 13, 4997-5007.	2.7	11
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69	Polymerization-Like Co-Assembly of Silver Nanoplates and Patchy Spheres. <i>ACS Nano</i> , 2017, 11, 7626-7633.	14.6	39
70	Limiting the valence: advancements and new perspectives on patchy colloids, soft functionalized nanoparticles and biomolecules. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19847-19868.	2.8	64
71	Seeing the unseen: Imaging rotation in cells with designer anisotropic particles. <i>Micron</i> , 2017, 101, 123-131.	2.2	10
72	Perspective: Outstanding theoretical questions in polymer-nanoparticle hybrids. <i>Journal of Chemical Physics</i> , 2017, 147, 020901.	3.0	154
73	Janus Particle Synthesis, Assembly, and Application. <i>Langmuir</i> , 2017, 33, 6964-6977.	3.5	251
74	Colloidal molecules assembled from binary spheres under an AC electric field. <i>Soft Matter</i> , 2017, 13, 436-444.	2.7	17
76	Crystal growth kinetics of triblock Janus colloids. <i>Journal of Chemical Physics</i> , 2018, 148, 124506.	3.0	16

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78	Surface self-assembly of colloidal crystals for micro- and nano-patterning. <i>Advances in Colloid and Interface Science</i> , 2018, 251, 97-114.	14.7	124
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81	Cargos Rotate at Microtubule Intersections during Intracellular Trafficking. <i>Biophysical Journal</i> , 2018, 114, 2900-2909.	0.5	20
82	Controlled armoring of metal surfaces with metallodielectric patchy particles. <i>Journal of Chemical Physics</i> , 2019, 150, 174903.	3.0	4
83	Staged Surface Patterning and Self-Assembly of Nanoparticles Functionalized with End-Grafted Block Copolymer Ligands. <i>Angewandte Chemie</i> , 2019, 131, 9370-9375.	2.0	2
84	Engineering Surface Patterning of Colloidal Rings through Plateau-Rayleigh Instability. <i>Angewandte Chemie</i> , 2019, 131, 17040-17044.	2.0	2
85	Engineering Surface Patterning of Colloidal Rings through Plateau-Rayleigh Instability. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16884-16888.	13.8	10
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92	A Label-free aptasensor based on Aptamer/NH ₂ Janus particles for ultrasensitive electrochemical detection of Ochratoxin A. <i>Talanta</i> , 2019, 199, 310-316.	5.5	42
93	Self-assembled multi-layer simple cubic photonic crystals of oppositely charged colloids in confinement. <i>Soft Matter</i> , 2019, 15, 3104-3110.	2.7	6
94	Inverse design of self-assembling colloidal crystals with omnidirectional photonic bandgaps. <i>Soft Matter</i> , 2019, 15, 8808-8826.	2.7	20

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96	Engineering porous two-dimensional lattices <i>via</i> self-assembly of non-convex hexagonal platelets. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 376-384.	3.4	8
97	Polymer-guided assembly of inorganic nanoparticles. <i>Chemical Society Reviews</i> , 2020, 49, 465-508.	38.1	196
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100	Molecular Patchy Clusters with Controllable Symmetry Breaking for Structural Engineering. <i>ACS Nano</i> , 2020, 14, 13816-13823.	14.6	16
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106	Hierarchically Chiral Lattice Self-Assembly Induced Circularly Polarized Luminescence. <i>ACS Nano</i> , 2020, 14, 3190-3198.	14.6	52
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108	Viscosity of polyelectrolyte-grafted nanoparticle solutions. <i>Soft Matter</i> , 2021, 17, 3455-3462.	2.7	6
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114	Triphasic Polymer Particles Assembled via Microphase Separation with Multiple Functions. <i>Langmuir</i> , 2021, 37, 11818-11834.	3.5	0
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126	Impact of Inverse Squeezing Flow on the Self-Assembly of Oppositely Charged Colloidal Particles under Electric Field. <i>Physical Review Letters</i> , 2022, 129, .	7.8	3
127	Molecular Alignment-Induced Chemically Patchy Uniaxial Nanoparticles and Their Applications in Anti-Counterfeiting and Self-Assembled Superstructures. <i>Angewandte Chemie</i> , 2023, 135, .	2.0	0
128	Programmed Self-Assembly of Single Colloidal Gyroids for Chiral Photonic Crystals. <i>Advanced Materials</i> , 2023, 35, .	21.0	2
129	Bottom-Up Construction of the Interaction between Janus Particles. <i>Journal of Physical Chemistry B</i> , 2023, 127, 1664-1673.	2.6	1
130	Molecular Alignment-Induced Chemically Patchy Uniaxial Nanoparticles and Their Applications in Anti-Counterfeiting and Self-Assembled Superstructures. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	2
131	Molecular Engineering of Colloidal Atoms. <i>Small</i> , 2023, 19, .	10.0	12

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133	Inverse design of triblock Janus spheres for self-assembly of complex structures in the crystallization slot via digital alchemy. Soft Matter, 2023, 19, 2726-2736.	2.7	1
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140	Depletion-induced crystallization of anisotropic triblock colloids. Nanoscale, 2024, 16, 4724-4736.	5.6	0
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