Bhuvnesh Bharti

List of Publications by Year
in descending order

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59 papers	2,597 citations	236925 25 h-index	189892 50 g-index
62 all docs	62 docs citations	62 times ranked	3866 citing authors

#	Article	IF	Citations
1	Microplastics through the Lens of Colloid Science. ACS Environmental Au, 2022, 2, 3-10.	7.0	54
2	Controlled adhesion, membrane pinning and vesicle transport by Janus particles. Chemical Communications, 2022, 58, 3055-3058.	4.1	6
3	Adsorption and Catalytic Activity of Gold Nanoparticles in Mesoporous Silica: Effect of Pore Size and Dispersion Salinity. Journal of Physical Chemistry C, 2022, 126, 2531-2541.	3.1	12
4	Topologically Precise and Discrete Bottlebrush Polymers: Synthesis, Characterization, and Structureâ€“Property Relationships. Jacs Au, 2022, 2, 898-905.	7.9	23
5	Field-Induced Assembly and Propulsion of Colloids. Langmuir, 2022, 38, 3001-3016.	3.5	27
6	Dual nature of magnetic nanoparticle dispersions enables control over short-range attraction and long-range repulsion interactions. Communications Chemistry, 2022, 5, .	4.5	8
7	Lignināˆ“Zein Composite: Synthesis, Three-Dimensional Printing, and Microbial Degradation. ACS Sustainable Chemistry and Engineering, 2021, 9, 1781-1789.	6.7	17
8	Characterisation of nano-assemblies inside mesopores using neutron scattering*. Molecular Physics, 2021, 119, .	1.7	2
9	Nano-enhanced Bioremediation for Oil Spills: A Review. ACS ES&T Engineering, 2021, 1, 928-946.	7.6	49
10	Fabrication and Electric Field-Driven Active Propulsion of Patchy Microellipsoids. Journal of Physical Chemistry B, 2021, 125, 4232-4240.	2.6	25
11	Synthesis and characterization of ZEin-based Low Density Porous Absorbent (ZELDA) for oil spill recovery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126148.	4.7	8
12	Field-Driven Reversible Alignment and Gelation of Magneto-Responsive Soft Anisotropic Microbeads. Journal of Physical Chemistry B, 2021, 125, 7900-7910.	2.6	6
13	Elucidating the impact of side chain dispersity on the assembly of bottlebrush polymers at the <scp>airâ€“water</scp> interface. Journal of Polymer Science, 2021, 59, 2458-2467.	3.8	5
14	Foamitizer: High ethanol content foams using fatty acid crystalline particles. Journal of Colloid and Interface Science, 2021, 600, 882-886.	9.4	6
15	Adsorption of Myoglobin and Corona Formation on Silica Nanoparticles. Langmuir, 2020, 36, 14157-14165.	3.5	33
16	Increasing aspect ratio of particles suppresses buckling in shells formed by drying suspensions. Soft Matter, 2020, 16, 9643-9647.	2.7	7
17	Magnetic fieldâ€“driven assembly and reconfiguration of multicomponent supraparticles. Science Advances, 2020, 6, eaba5337.	10.3	37
18	Adsorption of Fatty Acid Molecules on Amine-Functionalized Silica Nanoparticles: Surface Organization and Foam Stability. Langmuir, 2020, 36, 3703-3712.	3.5	24

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19	Active Reversible Swimming of Magnetically Assembled â€œMicroscallopsâ€•in Non-Newtonian Fluids. Langmuir, 2020, 36, 7148-7154.	3.5	30
20	pH-Induced reorientation of cytochrome c on silica nanoparticles. Soft Matter, 2019, 15, 350-354.	2.7	26
21	Directed Printing and Reconfiguration of Thermoresponsive Silicaâ€pNIPAM Nanocomposites. Macromolecular Rapid Communications, 2019, 40, e1900191.	3.9	9
22	Directed propulsion of spherical particles along three dimensional helical trajectories. Nature Communications, 2019, 10, 2575.	12.8	59
23	Directed Pore Uptake and Phase Separation of Surfactant Solutions under Confinement. Journal of Physical Chemistry C, 2019, 123, 9957-9966.	3.1	11
24	Smart soft materials based on fatty acids. Inform, 2019, 30, 17-23.	0.1	0
25	Magnetic Field-Driven Convection for Directed Surface Patterning of Colloids. Langmuir, 2018, 34, 15416-15424.	3.5	15
26	Binding of Lignin Nanoparticles at Oilâ€“Water Interfaces: An Ecofriendly Alternative to Oil Spill Recovery. ACS Applied Materials & Interfaces, 2018, 10, 43282-43289.	8.0	53
27	Fabrication of Photoreactive Biocomposite Coatings via Electric Field-Assisted Assembly of Cyanobacteria. Langmuir, 2017, 33, 5304-5313.	3.5	14
28	3D Printing by Multiphase Silicone/Water Capillary Inks. Advanced Materials, 2017, 29, 1701554.	21.0	140
29	Sequence-encoded colloidal origami and microbot assemblies from patchy magnetic cubes. Science Advances, 2017, 3, e1701108.	10.3	90
30	Bending of Responsive Hydrogel Sheets Guided by Fieldâ€Assembled Microparticle Endoskeleton Structures. Small, 2016, 12, 2283-2290.	10.0	62
31	Multidirectional colloidal assembly in concurrent electric and magnetic fields. Soft Matter, 2016, 12, 7747-7758.	2.7	45
32	Capillary Bridging as a Tool for Assembling Discrete Clusters of Patchy Particles. Journal of the American Chemical Society, 2016, 138, 14948-14953.	13.7	53
33	Synthesis and Characterization of Biodegradable Lignin Nanoparticles with Tunable Surface Properties. Langmuir, 2016, 32, 6468-6477.	3.5	220
34	Magnetophoretic assembly of flexible nanoparticles/lipid microfilaments. Faraday Discussions, 2015, 181, 437-448.	3.2	21
35	Characterization of protein adsorption onto silica nanoparticles: influence of pH and ionic strength. Colloid and Polymer Science, 2015, 293, 3381-3391.	2.1	136
36	Protein Immobilization in Surface-Functionalized SBA-15: Predicting the Uptake Capacity from the Pore Structure. Journal of Physical Chemistry C, 2015, 119, 2438-2446.	3.1	24

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37	Assembly of Reconfigurable Colloidal Structures by Multidirectional Field-Induced Interactions. Langmuir, 2015, 31, 7897-7908.	3.5	89
38	Nanocapillarity-mediated magnetic assembly ofÂnanoparticles into ultraflexible filaments andÂreconfigurable networks. Nature Materials, 2015, 14, 1104-1109.	27.5	89
39	Solâ€“gel chemistry mediated Zn/Al-based complex dispersant for SWCNT in water without foam formation. Carbon, 2015, 94, 518-523.	10.3	18
40	An environmentally benign antimicrobial nanoparticle based on a silver-infused lignin core. Nature Nanotechnology, 2015, 10, 817-823.	31.5	493
41	Bioinspired Reversibly Crossâ€linked Hydrogels Comprising Polypeptide Micelles Exhibit Enhanced Mechanical Properties. Advanced Functional Materials, 2015, 25, 3122-3130.	14.9	59
42	Multidirectional, Multicomponent Electric Field Driven Assembly of Complex Colloidal Chains. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1075-1088.	2.8	9
43	Modulating SWCNTâ€“silica interactions for enhanced dispersibility and hybrid cryogel formation. Colloids and Interface Science Communications, 2014, 3, 13-17.	4.1	3
44	Surfactant Adsorption and Aggregate Structure at Silica Nanoparticles. Springer Theses, 2014, , 47-61.	0.1	0
45	Bridging interactions of proteins with silica nanoparticles: The influence of pH, ionic strength and protein concentration. Soft Matter, 2014, 10, 718-728.	2.7	91
46	Analysis of the Field-Assisted Permanent Assembly of Oppositely Charged Particles. Langmuir, 2014, 30, 6577-6587.	3.5	19
47	Adsorption, Aggregation and Structure Formation in Systems of Charged Particles. Springer Theses, 2014, , .	0.1	4
48	Permanent Supracolloidal Biparticle Assembly Triggered by an Electric Field. Springer Theses, 2014, , 131-139.	0.1	0
49	Theory and Modeling. Springer Theses, 2014, , 29-43.	0.1	0
50	Protein-Specific Effects of Binding to Silica Nanoparticles. Springer Theses, 2014, , 121-128.	0.1	1
51	Effect of pH and Salinity on Silicaâ€“Lysozyme Hetero-Aggregation. Springer Theses, 2014, , 103-119.	0.1	0
52	Assembling Wormlike Micelles in Tubular Nanopores by Tuning Surfactant-Wall Interactions. Springer Theses, 2014, , 63-78.	0.1	0
53	Field-directed assembly of patchy anisotropic microparticles with defined shape. Soft Matter, 2013, 9, 9219.	2.7	66
54	Co-Assembly of Oppositely Charged Particles into Linear Clusters and Chains of Controllable Length. Scientific Reports, 2012, 2, 1004.	3.3	41

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55	Protein-specific Effects of Binding to Silica Nanoparticles. Chemistry Letters, 2012, 41, 1122-1124.	1.3	6
56	Assembling Wormlike Micelles in Tubular Nanopores by Tuning Surfactantâ€“Wall Interactions. Journal of the American Chemical Society, 2012, 134, 14756-14759.	13.7	25
57	Surfactant adsorption and aggregate structure at silica nanoparticles: Effects of particle size and surface modification. Soft Matter, 2012, 8, 6573.	2.7	43
58	Correspondence via Electron and Charge Carrier Dynamics of Silver Nanoparticles with Organic Dyes. Science of Advanced Materials, 2012, 4, 78-92.	0.7	3
59	Aggregation of Silica Nanoparticles Directed by Adsorption of Lysozyme. Langmuir, 2011, 27, 9823-9833.	3.5	176