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	An environmentally benign antimicrobial nanoparticle based on a silver-infused lignin core. Nature Nanotechnology, 2015, 10, 817-823.	31.5	493
2	Synthesis and Characterization of Biodegradable Lignin Nanoparticles with Tunable Surface Properties. Langmuir, 2016, 32, 6468-6477.	3.5	220
3	Aggregation of Silica Nanoparticles Directed by Adsorption of Lysozyme. Langmuir, 2011, 27, 9823-9833.	3.5	176
4	3D Printing by Multiphase Silicone/Water Capillary Inks. Advanced Materials, 2017, 29, 1701554.	21.0	140
5	Characterization of protein adsorption onto silica nanoparticles: influence of pH and ionic strength. Colloid and Polymer Science, 2015, 293, 3381-3391.	2.1	136
6	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
7	Sequence-encoded colloidal origami and microbot assemblies from patchy magnetic cubes. Science Advances, 2017, 3, e1701108.	10.3	90
8	Assembly of Reconfigurable Colloidal Structures by Multidirectional Field-Induced Interactions. Langmuir, 2015, 31, 7897-7908.	3.5	89
9	Nanocapillarity-mediated magnetic assembly ofÂnanoparticles into ultraflexible filaments andÂreconfigurable networks. Nature Materials, 2015, 14, 1104-1109.	27.5	89
10	Field-directed assembly of patchy anisotropic microparticles with defined shape. Soft Matter, 2013, 9, 9219.	2.7	66
11	Bending of Responsive Hydrogel Sheets Guided by Fieldâ€Assembled Microparticle Endoskeleton Structures. Small, 2016, 12, 2283-2290.	10.0	62
12	Bioinspired Reversibly Crossâ€linked Hydrogels Comprising Polypeptide Micelles Exhibit Enhanced Mechanical Properties. Advanced Functional Materials, 2015, 25, 3122-3130.	14.9	59
13	Directed propulsion of spherical particles along three dimensional helical trajectories. Nature Communications, 2019, 10, 2575.	12.8	59
14	Microplastics through the Lens of Colloid Science. ACS Environmental Au, 2022, 2, 3-10.	7.0	54
15	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
16	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
17	Nano-enhanced Bioremediation for Oil Spills: A Review. ACS ES&T Engineering, 2021, 1, 928-946.	7.6	49
18	Multidirectional colloidal assembly in concurrent electric and magnetic fields. Soft Matter, 2016, 12, 7747-7758.	2.7	45

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19	Surfactant adsorption and aggregate structure at silica nanoparticles: Effects of particle size and surface modification. Soft Matter, 2012, 8, 6573.	2.7	43
20	Co-Assembly of Oppositely Charged Particles into Linear Clusters and Chains of Controllable Length. Scientific Reports, 2012, 2, 1004.	3.3	41
21	Magnetic fieldâ€“driven assembly and reconfiguration of multicomponent supraparticles. Science Advances, 2020, 6, eaba5337.	10.3	37
22	Adsorption of Myoglobin and Corona Formation on Silica Nanoparticles. Langmuir, 2020, 36, 14157-14165.	3.5	33
23	Active Reversible Swimming of Magnetically Assembled â€œMicroscallopsâ€•in Non-Newtonian Fluids. Langmuir, 2020, 36, 7148-7154.	3.5	30
24	Field-Induced Assembly and Propulsion of Colloids. Langmuir, 2022, 38, 3001-3016.	3.5	27
25	pH-Induced reorientation of cytochrome c on silica nanoparticles. Soft Matter, 2019, 15, 350-354.	2.7	26
26	Assembling Wormlike Micelles in Tubular Nanopores by Tuning Surfactantâ€“Wall Interactions. Journal of the American Chemical Society, 2012, 134, 14756-14759.	13.7	25
27	Fabrication and Electric Field-Driven Active Propulsion of Patchy Microellipsoids. Journal of Physical Chemistry B, 2021, 125, 4232-4240.	2.6	25
28	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
29	Adsorption of Fatty Acid Molecules on Amine-Functionalized Silica Nanoparticles: Surface Organization and Foam Stability. Langmuir, 2020, 36, 3703-3712.	3.5	24
30	Topologically Precise and Discrete Bottlebrush Polymers: Synthesis, Characterization, and Structureâ€“Property Relationships. Jacs Au, 2022, 2, 898-905.	7.9	23
31	Magnetophoretic assembly of flexible nanoparticles/lipid microfilaments. Faraday Discussions, 2015, 181, 437-448.	3.2	21
32	Analysis of the Field-Assisted Permanent Assembly of Oppositely Charged Particles. Langmuir, 2014, 30, 6577-6587.	3.5	19
33	Solâ€“gel chemistry mediated Zn/Al-based complex dispersant for SWCNT in water without foam formation. Carbon, 2015, 94, 518-523.	10.3	18
34	Lignināˆ“Zein Composite: Synthesis, Three-Dimensional Printing, and Microbial Degradation. ACS Sustainable Chemistry and Engineering, 2021, 9, 1781-1789.	6.7	17
35	Magnetic Field-Driven Convection for Directed Surface Patterning of Colloids. Langmuir, 2018, 34, 15416-15424.	3.5	15
36	Fabrication of Photoreactive Biocomposite Coatings via Electric Field-Assisted Assembly of Cyanobacteria. Langmuir, 2017, 33, 5304-5313.	3.5	14

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37	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
38	Directed Pore Uptake and Phase Separation of Surfactant Solutions under Confinement. Journal of Physical Chemistry C, 2019, 123, 9957-9966.	3.1	11
39	Multidirectional, Multicomponent Electric Field Driven Assembly of Complex Colloidal Chains. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1075-1088.	2.8	9
40	Directed Printing and Reconfiguration of Thermoresponsive Silicaâ€pNIPAM Nanocomposites. Macromolecular Rapid Communications, 2019, 40, e1900191.	3.9	9
41	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
42	Dual nature of magnetic nanoparticle dispersions enables control over short-range attraction and long-range repulsion interactions. Communications Chemistry, 2022, 5, .	4.5	8
43	Increasing aspect ratio of particles suppresses buckling in shells formed by drying suspensions. Soft Matter, 2020, 16, 9643-9647.	2.7	7
44	Protein-specific Effects of Binding to Silica Nanoparticles. Chemistry Letters, 2012, 41, 1122-1124.	1.3	6
45	Field-Driven Reversible Alignment and Gelation of Magneto-Responsive Soft Anisotropic Microbeads. Journal of Physical Chemistry B, 2021, 125, 7900-7910.	2.6	6
46	Foamitizer: High ethanol content foams using fatty acid crystalline particles. Journal of Colloid and Interface Science, 2021, 600, 882-886.	9.4	6
47	Controlled adhesion, membrane pinning and vesicle transport by Janus particles. Chemical Communications, 2022, 58, 3055-3058.	4.1	6
48	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
49	Adsorption, Aggregation and Structure Formation in Systems of Charged Particles. Springer Theses, 2014, , .	0.1	4
50	Modulating SWCNTâ€“silica interactions for enhanced dispersibility and hybrid cryogel formation. Colloids and Interface Science Communications, 2014, 3, 13-17.	4.1	3
51	Correspondence via Electron and Charge Carrier Dynamics of Silver Nanoparticles with Organic Dyes. Science of Advanced Materials, 2012, 4, 78-92.	0.7	3
52	Characterisation of nano-assemblies inside mesopores using neutron scattering*. Molecular Physics, 2021, 119, .	1.7	2
53	Protein-Specific Effects of Binding to Silica Nanoparticles. Springer Theses, 2014, , 121-128.	0.1	1
54	Surfactant Adsorption and Aggregate Structure at Silica Nanoparticles. Springer Theses, 2014, , 47-61.	0.1	0

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55	Permanent Supracolloidal Biparticle Assembly Triggered by an Electric Field. Springer Theses, 2014, , 131-139.	0.1	0
56	Theory and Modeling. Springer Theses, 2014, , 29-43.	0.1	0
57	Effect of pH and Salinity on Silicaâ€“Lysozyme Hetero-Aggregation. Springer Theses, 2014, , 103-119.	0.1	0
58	Assembling Wormlike Micelles in Tubular Nanopores by Tuning Surfactant-Wall Interactions. Springer Theses, 2014, , 63-78.	0.1	0
59	Smart soft materials based on fatty acids. Inform, 2019, 30, 17-23.	0.1	0