Basavaraj Madivala

List of Publications by Year
in descending order

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86 papers	2,599 citations	236925 25 h-index	197818 49 g-index
86 all docs	86 docs citations	86 times ranked	2702 citing authors

#	Article	IF	Citations
1	An experimental and theoretical study of the inward particle drift in contact line deposits. Soft Matter, 2022, 18, 2414-2421.	2.7	2
2	Jamming of Nano-Ellipsoids in a Microsphere: A Quantitative Analysis of Packing Fraction by Small-Angle Scattering. Langmuir, 2022, 38, 3832-3843.	3.5	3
3	Formation and suppression of secondary cracks in deposits of colloidal ellipsoids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128579.	4.7	4
4	Exploiting Heteroaggregation to Quantify the Contact Angle of Charged Colloids at Interfaces. Langmuir, 2022, 38, 7433-7441.	3.5	3
5	Effect of the Shape of the Confining Boundary and Particle Shape Anisotropy on the Morphology of Desiccation Cracks. Langmuir, 2022, 38, 7906-7913.	3.5	2
6	Pickering emulsions stabilized by sphere-spheroid mixtures. Journal of Dispersion Science and Technology, 2021, 42, 2022-2031.	2.4	5
7	Colloidal monolayers with cell-like tessellations via interface assisted evaporative assembly. Journal of Colloid and Interface Science, 2021, 583, 683-691.	9.4	6
8	Evaporative self-assembly of soft colloidal monolayers: the role of particle softness. Soft Matter, 2021, 17, 7921-7931.	2.7	6
9	Evaporative self-assembly of the binary mixture of soft colloids. Physical Chemistry Chemical Physics, 2021, 23, 7115-7124.	2.8	10
10	Patterns from drops drying on inclined substrates. Soft Matter, 2021, 17, 7670-7681.	2.7	11
11	Engineering polymer film porosity for solvent triggered actuation. Soft Matter, 2021, 17, 2900-2912.	2.7	8
12	Synergy between the crack pattern and substrate elasticity in colloidal deposits. Physical Review E, 2021, 103, 032602.	2.1	10
13	Further Insights into Patterns from Drying Particle Laden Sessile Drops. Langmuir, 2021, 37, 4395-4402.	3.5	6
14	Phase Inversion of Ellipsoid-Stabilized Emulsions. Langmuir, 2021, 37, 7295-7304.	3.5	11
15	Controlling the microstructure of emulsions by exploiting particle-polyelectrolyte association. Journal of Colloid and Interface Science, 2021, 597, 409-421.	9.4	4
16	Semi-batch and continuous production of Pickering emulsion via direct contact steam condensation. Soft Matter, 2021, 17, 9636-9643.	2.7	3
17	Particle size and substrate wettability dependent patterns in dried pendant drops. Journal of Physics Condensed Matter, 2021, 33, 024003.	1.8	6
18	Drops spreading on fluid surfaces: Transition from Laplace to Marangoni regime. Physical Review Fluids, 2021, 6, .	2.5	5

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19	Macroporous Ceramic Monolith from Nanoparticleâ€“Polyelectrolyte-Stabilized Pickering Emulsions. Journal of Physical Chemistry B, 2021, 125, 13575-13584.	2.6	8
20	Ice templated nanocomposites containing rod-like hematite particles: Interplay between particle anisotropy and particleâ€“matrix interactions. Journal of Applied Physics, 2020, 128, 034702.	2.5	4
21	Porous Ceramics via Processable Pickering Emulsion Stabilized by Oppositely Charged Colloids. Langmuir, 2020, 36, 11645-11654.	3.5	19
22	Beyond Coffee Rings: Drying Drops of Colloidal Dispersions on Inclined Substrates. ACS Omega, 2020, 5, 11262-11270.	3.5	20
23	Patterning of colloids into spirals via confined drying. Soft Matter, 2020, 16, 3753-3761.	2.7	9
24	Robust Method to Determine Critical Micelle Concentration via Spreading Oil Drops on Surfactant Solutions. Langmuir, 2020, 36, 8100-8110.	3.5	22
25	Modulation of Central Depletion Zone in Evaporated Sessile Drops via Substrate Heating. Langmuir, 2020, 36, 4737-4744.	3.5	16
26	Statics and dynamics of drops spreading on a liquid-liquid interface. Physical Review Fluids, 2020, 5, .	2.5	4
27	Shape-Anisotropic Colloids at Interfaces. Langmuir, 2019, 35, 3-20.	3.5	42
28	Influence of the drying configuration on the patterning of ellipsoids â€“ concentric rings and concentric cracks. Physical Chemistry Chemical Physics, 2019, 21, 20045-20054.	2.8	12
29	Reply to â€œComment on â€˜Patterns in Drying Drops Dictated by Curvature-Driven Particle Transportâ€™â€: Langmuir, 2019, 35, 9991-9993.	3.5	2
30	Order-to-disorder transition in colored microgel monolayers. AIP Conference Proceedings, 2019, , .	0.4	0
31	Confinement effect on spatio-temporal growth of spherulites from cellulose/ionic liquid solutions. Polymer, 2019, 185, 121927.	3.8	1
32	Colloidal Particle-Induced Microstructural Transition in Cellulose/Ionic Liquid/Water Mixtures. Langmuir, 2019, 35, 12428-12438.	3.5	2
33	Tailoring pore distribution in polymer films via evaporation induced phase separation. RSC Advances, 2019, 9, 15593-15605.	3.6	37
34	On the origin and evolution of the depletion zone in coffee stains. Soft Matter, 2019, 15, 4170-4177.	2.7	15
35	Spray drying of colloidal dispersions containing ellipsoids. Journal of Colloid and Interface Science, 2019, 551, 242-250.	9.4	20
36	Diesel Emulsion Fuels with Ultralong Stability. Energy & Fuels, 2019, 33, 12227-12235.	5.1	13

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37	Orientation, elastic interaction and magnetic response of asymmetric colloids in a nematic liquid crystal. Scientific Reports, 2019, 9, 81.	3.3	11
38	Kinetic stability of surfactant stabilized water-in-diesel emulsion fuels. Fuel, 2019, 236, 1415-1422.	6.4	41
39	Nanoindentation of clay colloidosomes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 550, 167-175.	4.7	6
40	Doubly pH Responsive Emulsions by Exploiting Aggregation of Oppositely Charged Nanoparticles and Polyelectrolytes. Langmuir, 2018, 34, 5060-5071.	3.5	23
41	A versatile major axis voted method for efficient ellipse detection. Pattern Recognition Letters, 2018, 104, 45-52.	4.2	4
42	Porous materials from oppositely charged nanoparticle gel emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 544, 172-178.	4.7	8
43	Cracks in dried deposits of hematite ellipsoids: Interplay between magnetic and hydrodynamic torques. Journal of Colloid and Interface Science, 2018, 510, 172-180.	9.4	14
44	Influence of pH and Salt Concentration on Pickering Emulsions Stabilized by Colloidal Peanuts. Langmuir, 2018, 34, 13312-13321.	3.5	36
45	Viscoelastic Particleâ€“Laden Interface Inhibits Coffee-Ring Formation. Langmuir, 2018, 34, 14294-14301.	3.5	21
46	Patterns in Drying Drops Dictated by Curvature-Driven Particle Transport. Langmuir, 2018, 34, 11473-11483.	3.5	33
47	Aggregation and Stabilization of Colloidal Spheroids by Oppositely Charged Spherical Nanoparticles. Langmuir, 2018, 34, 6511-6521.	3.5	27
48	Rheology and microstructure of concentrated microcrystalline cellulose (MCC)/1-allyl-3-methylimidazolium chloride (AmimCl)/water mixtures. Soft Matter, 2018, 14, 7615-7624.	2.7	10
49	Desiccation cracks in dispersion of ellipsoids: Effect of aspect ratio and applied fields. Physical Review Materials, 2018, 2, .	2.4	10
50	Hetero-aggregation of oppositely charged nanoparticles. Journal of Colloid and Interface Science, 2017, 492, 92-100.	9.4	34
51	Phase Behavior and Microâ€Structure of Fatâ€“Oil Mixtures: Engineering the Shape of Fat Clusters. JAOCS, Journal of the American Oil Chemists' Society, 2017, 94, 121-132.	1.9	2
52	Shape-Induced Deformation, Capillary Bridging, and Self-Assembly of Cuboids at the Fluidâ€“Fluid Interface. Langmuir, 2017, 33, 791-801.	3.5	18
53	General destabilization mechanism of pH-responsive Pickering emulsions. Physical Chemistry Chemical Physics, 2017, 19, 30790-30797.	2.8	19
54	Controlling the yield behavior of fat-oil mixtures using cooling rate. Rheologica Acta, 2017, 56, 971-982.	2.4	4

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55	Synergistic stabilization of Pickering emulsions by in situ modification of kaolinite with non ionic surfactant. Applied Clay Science, 2017, 148, 68-76.	5.2	46
56	Loosely packed monolayer coffee stains in dried drops of soft colloids. Nanoscale, 2017, 9, 18798-18803.	5.6	27
57	Tailoring crack morphology in coffee-ring deposits via substrate heating. Soft Matter, 2017, 13, 5445-5452.	2.7	35
58	Self assembly of oppositely charged latex particles at oil-water interface. Journal of Colloid and Interface Science, 2017, 486, 325-336.	9.4	8
59	Conversion of expanded polystyrene waste to nanoparticles via nanoprecipitation. Journal of Applied Polymer Science, 2016, 133, .	2.6	16
60	Role of particle shape anisotropy on crack formation in drying of colloidal suspension. Scientific Reports, 2016, 6, 30708.	3.3	43
61	Unsupervised Segmentation of Cervical Cell Images Using Gaussian Mixture Model. , 2016, , .		31
62	Magnetic-field-driven crack formation in an evaporated anisotropic colloidal assembly. Physical Review E, 2016, 94, 012618.	2.1	17
63	Synthesis of non-spherical patchy particles at fluidâ€“fluid interfaces via differential deformation and their self-assembly. Soft Matter, 2016, 12, 5950-5958.	2.7	19
64	Contact angle and detachment energy of shape anisotropic particles at fluid-fluid interfaces. Journal of Colloid and Interface Science, 2016, 478, 63-71.	9.4	33
65	Role of electrostatic interactions in the adsorption kinetics of nanoparticles at fluidâ€“fluid interfaces. Physical Chemistry Chemical Physics, 2016, 18, 5499-5508.	2.8	67
66	Nano ellipsoids at the fluidâ€“fluid interface: effect of surface charge on adsorption, buckling and emulsification. Faraday Discussions, 2016, 186, 419-434.	3.2	22
67	Pickering emulsions stabilized by oppositely charged colloids: Stability and pattern formation. Physical Review E, 2015, 92, 052314.	2.1	21
68	Emulsions Stabilized by Silica Rods via Arrested Demixing. Langmuir, 2015, 31, 6649-6654.	3.5	28
69	Synthesis of Single and Multipatch Particles by Dip-Coating Method and Self-Assembly Thereof. Langmuir, 2015, 31, 1255-1261.	3.5	14
70	Evaporation of Sessile Drops Containing Colloidal Rods: Coffee-Ring and Orderâ€“Disorder Transition. Journal of Physical Chemistry B, 2015, 119, 3860-3867.	2.6	59
71	Visualization of the equilibrium position of colloidal particles at fluidâ€“water interfaces by deposition of nanoparticles. Nanoscale, 2015, 7, 13868-13876.	5.6	24
72	Self-assembly of nano-ellipsoids into ordered structures via vertical deposition. RSC Advances, 2015, 5, 60079-60084.	3.6	19

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73	Stabilization of Pickering Emulsions with Oppositely Charged Latex Particles: Influence of Various Parameters and Particle Arrangement around Droplets. Langmuir, 2015, 31, 11200-11208.	3.5	80
74	A Model for the Prediction of Droplet Size in Pickering Emulsions Stabilized by Oppositely Charged Particles. Langmuir, 2014, 30, 9336-9345.	3.5	65
75	Control over Coffee-Ring Formation in Evaporating Liquid Drops Containing Ellipsoids. Langmuir, 2014, 30, 8680-8686.	3.5	133
76	Nanovesicle formation and microstructure in aqueous ditallowethylesterdimethylammonium chloride (DEEDMAC) solutions. Journal of Colloid and Interface Science, 2014, 429, 17-24.	9.4	14
77	Shape anisotropic colloids: synthesis, packing behavior, evaporation driven assembly, and their application in emulsion stabilization. Soft Matter, 2013, 9, 6711.	2.7	159
78	Sponge-to-Lamellar Transition in a Double-Tail Cationic Surfactant/Protic Ionic Liquid System: Structural and Rheological Analysis. Journal of Physical Chemistry B, 2012, 116, 813-822.	2.6	27
79	Spontaneous Thermoreversible Formation of Cationic Vesicles in a Protic Ionic Liquid. Journal of the American Chemical Society, 2012, 134, 20728-20732.	13.7	50
80	Exploiting particle shape in solid stabilized emulsions. Soft Matter, 2009, 5, 1717.	2.7	375
81	Self-Assembly and Rheology of Ellipsoidal Particles at Interfaces. Langmuir, 2009, 25, 2718-2728.	3.5	298
82	Self-Assembly and Surface Rheology of 2D Suspension of Ellipsoids. AIP Conference Proceedings, 2008, , .	0.4	0
83	Packing, Flipping, and Buckling Transitions in Compressed Monolayers of Ellipsoidal Latex Particles. Langmuir, 2006, 22, 6605-6612.	3.5	156
84	Flow Alignment of Prolate Particles on a Rotating Disk Electrode. Journal of the Electrochemical Society, 2006, 153, C660.	2.9	4
85	Local liquid holdups and hysteresis in a 2-D packed bed using X-ray radiography. AICHE Journal, 2005, 51, 2178-2189.	3.6	35
86	MEASUREMENT OF AXIAL DISPERSION COEFFICIENT IN A PACKED BED USING X-RAY. Materials and Manufacturing Processes, 2002, 17, 683-692.	4.7	2