

# Basavaraj Madivala

## List of Publications by Year in descending order

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86  
papers

2,599  
citations

236612

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197535

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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. <i>Soft Matter</i> , 2022, 18, 2414-2421.	1.2	2
2	Jamming of Nano-Ellipsoids in a Microsphere: A Quantitative Analysis of Packing Fraction by Small-Angle Scattering. <i>Langmuir</i> , 2022, 38, 3832-3843.	1.6	3
3	Formation and suppression of secondary cracks in deposits of colloidal ellipsoids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128579.	2.3	4
4	Exploiting Heteroaggregation to Quantify the Contact Angle of Charged Colloids at Interfaces. <i>Langmuir</i> , 2022, 38, 7433-7441.	1.6	3
5	Effect of the Shape of the Confining Boundary and Particle Shape Anisotropy on the Morphology of Desiccation Cracks. <i>Langmuir</i> , 2022, 38, 7906-7913.	1.6	2
6	Pickering emulsions stabilized by sphere-spheroid mixtures. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 2022-2031.	1.3	5
7	Colloidal monolayers with cell-like tessellations via interface assisted evaporative assembly. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 683-691.	5.0	6
8	Evaporative self-assembly of soft colloidal monolayers: the role of particle softness. <i>Soft Matter</i> , 2021, 17, 7921-7931.	1.2	6
9	Evaporative self-assembly of the binary mixture of soft colloids. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7115-7124.	1.3	10
10	Patterns from drops drying on inclined substrates. <i>Soft Matter</i> , 2021, 17, 7670-7681.	1.2	11
11	Engineering polymer film porosity for solvent triggered actuation. <i>Soft Matter</i> , 2021, 17, 2900-2912.	1.2	8
12	Synergy between the crack pattern and substrate elasticity in colloidal deposits. <i>Physical Review E</i> , 2021, 103, 032602.	0.8	10
13	Further Insights into Patterns from Drying Particle Laden Sessile Drops. <i>Langmuir</i> , 2021, 37, 4395-4402.	1.6	6
14	Phase Inversion of Ellipsoid-Stabilized Emulsions. <i>Langmuir</i> , 2021, 37, 7295-7304.	1.6	11
15	Controlling the microstructure of emulsions by exploiting particle-polyelectrolyte association. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 409-421.	5.0	4
16	Semi-batch and continuous production of Pickering emulsion via direct contact steam condensation. <i>Soft Matter</i> , 2021, 17, 9636-9643.	1.2	3
17	Particle size and substrate wettability dependent patterns in dried pendant drops. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 024003.	0.7	6
18	Drops spreading on fluid surfaces: Transition from Laplace to Marangoni regime. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	5

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19	Macroporous Ceramic Monolith from Nanoparticle- <sup>TM</sup> Polyelectrolyte-Stabilized Pickering Emulsions. Journal of Physical Chemistry B, 2021, 125, 13575-13584.	1.2	8
20	Ice templated nanocomposites containing rod-like hematite particles: Interplay between particle anisotropy and particle-matrix interactions. Journal of Applied Physics, 2020, 128, 034702.	1.1	4
21	Porous Ceramics via Processable Pickering Emulsion Stabilized by Oppositely Charged Colloids. Langmuir, 2020, 36, 11645-11654.	1.6	19
22	Beyond Coffee Rings: Drying Drops of Colloidal Dispersions on Inclined Substrates. ACS Omega, 2020, 5, 11262-11270.	1.6	20
23	Patterning of colloids into spirals via confined drying. Soft Matter, 2020, 16, 3753-3761.	1.2	9
24	Robust Method to Determine Critical Micelle Concentration via Spreading Oil Drops on Surfactant Solutions. Langmuir, 2020, 36, 8100-8110.	1.6	22
25	Modulation of Central Depletion Zone in Evaporated Sessile Drops via Substrate Heating. Langmuir, 2020, 36, 4737-4744.	1.6	16
26	Statics and dynamics of drops spreading on a liquid-liquid interface. Physical Review Fluids, 2020, 5, .	1.0	4
27	Shape-Anisotropic Colloids at Interfaces. Langmuir, 2019, 35, 3-20.	1.6	42
28	Influence of the drying configuration on the patterning of ellipsoids - <sup>TM</sup> concentric rings and concentric cracks. Physical Chemistry Chemical Physics, 2019, 21, 20045-20054.	1.3	12
29	Reply to - <sup>TM</sup> Comment on - <sup>TM</sup> Patterns in Drying Drops Dictated by Curvature-Driven Particle Transport <sup>TM</sup> . Langmuir, 2019, 35, 9991-9993.	1.6	2
30	Order-to-disorder transition in colored microgel monolayers. AIP Conference Proceedings, 2019, , .	0.3	0
31	Confinement effect on spatio-temporal growth of spherulites from cellulose/ionic liquid solutions. Polymer, 2019, 185, 121927.	1.8	1
32	Colloidal Particle-Induced Microstructural Transition in Cellulose/Ionic Liquid/Water Mixtures. Langmuir, 2019, 35, 12428-12438.	1.6	2
33	Tailoring pore distribution in polymer films - <sup>TM</sup> evaporation induced phase separation. RSC Advances, 2019, 9, 15593-15605.	1.7	37
34	On the origin and evolution of the depletion zone in coffee stains. Soft Matter, 2019, 15, 4170-4177.	1.2	15
35	Spray drying of colloidal dispersions containing ellipsoids. Journal of Colloid and Interface Science, 2019, 551, 242-250.	5.0	20
36	Diesel Emulsion Fuels with Ultralong Stability. Energy & Fuels, 2019, 33, 12227-12235.	2.5	13

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37	Orientation, elastic interaction and magnetic response of asymmetric colloids in a nematic liquid crystal. <i>Scientific Reports</i> , 2019, 9, 81.	1.6	11
38	Kinetic stability of surfactant stabilized water-in-diesel emulsion fuels. <i>Fuel</i> , 2019, 236, 1415-1422.	3.4	41
39	Nanoindentation of clay colloidosomes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 550, 167-175.	2.3	6
40	Doubly pH Responsive Emulsions by Exploiting Aggregation of Oppositely Charged Nanoparticles and Polyelectrolytes. <i>Langmuir</i> , 2018, 34, 5060-5071.	1.6	23
41	A versatile major axis voted method for efficient ellipse detection. <i>Pattern Recognition Letters</i> , 2018, 104, 45-52.	2.6	4
42	Porous materials from oppositely charged nanoparticle gel emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 544, 172-178.	2.3	8
43	Cracks in dried deposits of hematite ellipsoids: Interplay between magnetic and hydrodynamic torques. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 172-180.	5.0	14
44	Influence of pH and Salt Concentration on Pickering Emulsions Stabilized by Colloidal Peanuts. <i>Langmuir</i> , 2018, 34, 13312-13321.	1.6	36
45	Viscoelastic Particle-Laden Interface Inhibits Coffee-Ring Formation. <i>Langmuir</i> , 2018, 34, 14294-14301.	1.6	21
46	Patterns in Drying Drops Dictated by Curvature-Driven Particle Transport. <i>Langmuir</i> , 2018, 34, 11473-11483.	1.6	33
47	Aggregation and Stabilization of Colloidal Spheroids by Oppositely Charged Spherical Nanoparticles. <i>Langmuir</i> , 2018, 34, 6511-6521.	1.6	27
48	Rheology and microstructure of concentrated microcrystalline cellulose (MCC)/1-allyl-3-methylimidazolium chloride (AmimCl)/water mixtures. <i>Soft Matter</i> , 2018, 14, 7615-7624.	1.2	10
49	Desiccation cracks in dispersion of ellipsoids: Effect of aspect ratio and applied fields. <i>Physical Review Materials</i> , 2018, 2, .	0.9	10
50	Hetero-aggregation of oppositely charged nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 492, 92-100.	5.0	34
51	Phase Behavior and Microstructure of Fat-Oil Mixtures: Engineering the Shape of Fat Clusters. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2017, 94, 121-132.	0.8	2
52	Shape-Induced Deformation, Capillary Bridging, and Self-Assembly of Cuboids at the Fluid-Fluid Interface. <i>Langmuir</i> , 2017, 33, 791-801.	1.6	18
53	General destabilization mechanism of pH-responsive Pickering emulsions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30790-30797.	1.3	19
54	Controlling the yield behavior of fat-oil mixtures using cooling rate. <i>Rheologica Acta</i> , 2017, 56, 971-982.	1.1	4

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55	Synergistic stabilization of Pickering emulsions by in situ modification of kaolinite with non ionic surfactant. <i>Applied Clay Science</i> , 2017, 148, 68-76.	2.6	46
56	Loosely packed monolayer coffee stains in dried drops of soft colloids. <i>Nanoscale</i> , 2017, 9, 18798-18803.	2.8	27
57	Tailoring crack morphology in coffee-ring deposits via substrate heating. <i>Soft Matter</i> , 2017, 13, 5445-5452.	1.2	35
58	Self assembly of oppositely charged latex particles at oil-water interface. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 325-336.	5.0	8
59	Conversion of expanded polystyrene waste to nanoparticles via nanoprecipitation. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	16
60	Role of particle shape anisotropy on crack formation in drying of colloidal suspension. <i>Scientific Reports</i> , 2016, 6, 30708.	1.6	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. <i>Physical Review E</i> , 2016, 94, 012618.	0.8	17
63	Synthesis of non-spherical patchy particles at fluidâ€“fluid interfaces via differential deformation and their self-assembly. <i>Soft Matter</i> , 2016, 12, 5950-5958.	1.2	19
64	Contact angle and detachment energy of shape anisotropic particles at fluid-fluid interfaces. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 63-71.	5.0	33
65	Role of electrostatic interactions in the adsorption kinetics of nanoparticles at fluidâ€“fluid interfaces. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5499-5508.	1.3	67
66	Nano ellipsoids at the fluidâ€“fluid interface: effect of surface charge on adsorption, buckling and emulsification. <i>Faraday Discussions</i> , 2016, 186, 419-434.	1.6	22
67	Pickering emulsions stabilized by oppositely charged colloids: Stability and pattern formation. <i>Physical Review E</i> , 2015, 92, 052314.	0.8	21
68	Emulsions Stabilized by Silica Rods via Arrested Demixing. <i>Langmuir</i> , 2015, 31, 6649-6654.	1.6	28
69	Synthesis of Single and Multipatch Particles by Dip-Coating Method and Self-Assembly Thereof. <i>Langmuir</i> , 2015, 31, 1255-1261.	1.6	14
70	Evaporation of Sessile Drops Containing Colloidal Rods: Coffee-Ring and Orderâ€“Disorder Transition. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3860-3867.	1.2	59
71	Visualization of the equilibrium position of colloidal particles at fluidâ€“water interfaces by deposition of nanoparticles. <i>Nanoscale</i> , 2015, 7, 13868-13876.	2.8	24
72	Self-assembly of nano-ellipsoids into ordered structures via vertical deposition. <i>RSC Advances</i> , 2015, 5, 60079-60084.	1.7	19

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73	Stabilization of Pickering Emulsions with Oppositely Charged Latex Particles: Influence of Various Parameters and Particle Arrangement around Droplets. <i>Langmuir</i> , 2015, 31, 11200-11208.	1.6	80
74	A Model for the Prediction of Droplet Size in Pickering Emulsions Stabilized by Oppositely Charged Particles. <i>Langmuir</i> , 2014, 30, 9336-9345.	1.6	65
75	Control over Coffee-Ring Formation in Evaporating Liquid Drops Containing Ellipsoids. <i>Langmuir</i> , 2014, 30, 8680-8686.	1.6	133
76	Nanovesicle formation and microstructure in aqueous ditallowethylesterdimethylammonium chloride (DEEDMAC) solutions. <i>Journal of Colloid and Interface Science</i> , 2014, 429, 17-24.	5.0	14
77	Shape anisotropic colloids: synthesis, packing behavior, evaporation driven assembly, and their application in emulsion stabilization. <i>Soft Matter</i> , 2013, 9, 6711.	1.2	159
78	Sponge-to-Lamellar Transition in a Double-Tail Cationic Surfactant/Protic Ionic Liquid System: Structural and Rheological Analysis. <i>Journal of Physical Chemistry B</i> , 2012, 116, 813-822.	1.2	27
79	Spontaneous Thermoreversible Formation of Cationic Vesicles in a Protic Ionic Liquid. <i>Journal of the American Chemical Society</i> , 2012, 134, 20728-20732.	6.6	50
80	Exploiting particle shape in solid stabilized emulsions. <i>Soft Matter</i> , 2009, 5, 1717.	1.2	375
81	Self-Assembly and Rheology of Ellipsoidal Particles at Interfaces. <i>Langmuir</i> , 2009, 25, 2718-2728.	1.6	298
82	Self-Assembly and Surface Rheology of 2D Suspension of Ellipsoids. <i>AIP Conference Proceedings</i> , 2008, , ,	0.3	0
83	Packing, Flipping, and Buckling Transitions in Compressed Monolayers of Ellipsoidal Latex Particles. <i>Langmuir</i> , 2006, 22, 6605-6612.	1.6	156
84	Flow Alignment of Prolate Particles on a Rotating Disk Electrode. <i>Journal of the Electrochemical Society</i> , 2006, 153, C660.	1.3	4
85	Local liquid holdups and hysteresis in a 2-D packed bed using X-ray radiography. <i>AIChE Journal</i> , 2005, 51, 2178-2189.	1.8	35
86	MEASUREMENT OF AXIAL DISPERSION COEFFICIENT IN A PACKED BED USING X-RAY. <i>Materials and Manufacturing Processes</i> , 2002, 17, 683-692.	2.7	2