# Basavaraj Madivala

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6355597/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 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 | Exploiting particle shape in solid stabilized emulsions. Soft Matter, 2009, 5, 1717. | 2.7 | 375 |
| 2 | Self-Assembly and Rheology of Ellipsoidal Particles at Interfaces. Langmuir, 2009, 25, 2718-2728. | 3.5 | 298 |
| 3 | Shape anisotropic colloids: synthesis, packing behavior, evaporation driven assembly, and their application in emulsion stabilization. Soft Matter, 2013, 9, 6711. | 2.7 | 159 |
| 4 | Packing, Flipping, and Buckling Transitions in Compressed Monolayers of Ellipsoidal Latex Particles. Langmuir, 2006, 22, 6605-6612. | 3.5 | 156 |
| 5 | Control over Coffee-Ring Formation in Evaporating Liquid Drops Containing Ellipsoids. Langmuir, 2014, 30, 8680-8686. | 3.5 | 133 |
| 6 | 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 |
| 7 | 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 |
| 8 | A Model for the Prediction of Droplet Size in Pickering Emulsions Stabilized by Oppositely Charged Particles. Langmuir, 2014, 30, 9336-9345. | 3.5 | 65 |
| 9 | 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 |
| 10 | Spontaneous Thermoreversible Formation of Cationic Vesicles in a Protic Ionic Liquid. Journal of the American Chemical Society, 2012, 134, 20728-20732. | 13.7 | 50 |
| 11 | 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 |
| 12 | Role of particle shape anisotropy on crack formation in drying of colloidal suspension. Scientific Reports, 2016, 6, 30708. | 3.3 | 43 |
| 13 | Shape-Anisotropic Colloids at Interfaces. Langmuir, 2019, 35, 3-20. | 3.5 | 42 |
| 14 | Kinetic stability of surfactant stabilized water-in-diesel emulsion fuels. Fuel, 2019, 236, 1415-1422. | 6.4 | 41 |
| 15 | Tailoring pore distribution in polymer films via evaporation induced phase separation. RSC Advances, 2019, 9, 15593-15605. | 3.6 | 37 |
| 16 | Influence of pH and Salt Concentration on Pickering Emulsions Stabilized by Colloidal Peanuts. Langmuir, 2018, 34, 13312-13321. | 3.5 | 36 |
| 17 | Local liquid holdups and hysteresis in a 2-D packed bed using X-ray radiography. AICHE Journal, 2005, 51, 2178-2189. | 3.6 | 35 |
| 18 | Tailoring crack morphology in coffee-ring deposits via substrate heating. Soft Matter, 2017, 13, 5445-5452. | 2.7 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hetero-aggregation of oppositely charged nanoparticles. Journal of Colloid and Interface Science, 2017, 492, 92-100. | 9.4 | 34 |
| 20 | 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 |
| 21 | Patterns in Drying Drops Dictated by Curvature-Driven Particle Transport. Langmuir, 2018, 34, 11473-11483. | 3.5 | 33 |
| 22 | Unsupervised Segmentation of Cervical Cell Images Using Gaussian Mixture Model. , 2016, , . | | 31 |
| 23 | Emulsions Stabilized by Silica Rods via Arrested Demixing. Langmuir, 2015, 31, 6649-6654. | 3.5 | 28 |
| 24 | 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 |
| 25 | Loosely packed monolayer coffee stains in dried drops of soft colloids. Nanoscale, 2017, 9, 18798-18803. | 5.6 | 27 |
| 26 | Aggregation and Stabilization of Colloidal Spheroids by Oppositely Charged Spherical Nanoparticles. Langmuir, 2018, 34, 6511-6521. | 3.5 | 27 |
| 27 | Visualization of the equilibrium position of colloidal particles at fluidâ€“water interfaces by deposition of nanoparticles. Nanoscale, 2015, 7, 13868-13876. | 5.6 | 24 |
| 28 | Doubly pH Responsive Emulsions by Exploiting Aggregation of Oppositely Charged Nanoparticles and Polyelectrolytes. Langmuir, 2018, 34, 5060-5071. | 3.5 | 23 |
| 29 | 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 |
| 30 | Robust Method to Determine Critical Micelle Concentration via Spreading Oil Drops on Surfactant Solutions. Langmuir, 2020, 36, 8100-8110. | 3.5 | 22 |
| 31 | Pickering emulsions stabilized by oppositely charged colloids: Stability and pattern formation. Physical Review E, 2015, 92, 052314. | 2.1 | 21 |
| 32 | Viscoelastic Particleâ€“Laden Interface Inhibits Coffee-Ring Formation. Langmuir, 2018, 34, 14294-14301. | 3.5 | 21 |
| 33 | Spray drying of colloidal dispersions containing ellipsoids. Journal of Colloid and Interface Science, 2019, 551, 242-250. | 9.4 | 20 |
| 34 | Beyond Coffee Rings: Drying Drops of Colloidal Dispersions on Inclined Substrates. ACS Omega, 2020, 5, 11262-11270. | 3.5 | 20 |
| 35 | Self-assembly of nano-ellipsoids into ordered structures via vertical deposition. RSC Advances, 2015, 5, 60079-60084. | 3.6 | 19 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | General destabilization mechanism of pH-responsive Pickering emulsions. Physical Chemistry Chemical Physics, 2017, 19, 30790-30797. | 2.8 | 19 |
| 38 | Porous Ceramics via Processable Pickering Emulsion Stabilized by Oppositely Charged Colloids. Langmuir, 2020, 36, 11645-11654. | 3.5 | 19 |
| 39 | Shape-Induced Deformation, Capillary Bridging, and Self-Assembly of Cuboids at the Fluidâ€“Fluid Interface. Langmuir, 2017, 33, 791-801. | 3.5 | 18 |
| 40 | Magnetic-field-driven crack formation in an evaporated anisotropic colloidal assembly. Physical Review E, 2016, 94, 012618. | 2.1 | 17 |
| 41 | Conversion of expanded polystyrene waste to nanoparticles via nanoprecipitation. Journal of Applied Polymer Science, 2016, 133, . | 2.6 | 16 |
| 42 | Modulation of Central Depletion Zone in Evaporated Sessile Drops via Substrate Heating. Langmuir, 2020, 36, 4737-4744. | 3.5 | 16 |
| 43 | On the origin and evolution of the depletion zone in coffee stains. Soft Matter, 2019, 15, 4170-4177. | 2.7 | 15 |
| 44 | Nanovesicle formation and microstructure in aqueous ditallowethylesterdimethylammonium chloride (DEEDMAC) solutions. Journal of Colloid and Interface Science, 2014, 429, 17-24. | 9.4 | 14 |
| 45 | Synthesis of Single and Multipatch Particles by Dip-Coating Method and Self-Assembly Thereof. Langmuir, 2015, 31, 1255-1261. | 3.5 | 14 |
| 46 | 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 |
| 47 | Diesel Emulsion Fuels with Ultralong Stability. Energy & Fuels, 2019, 33, 12227-12235. | 5.1 | 13 |
| 48 | 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 |
| 49 | Orientation, elastic interaction and magnetic response of asymmetric colloids in a nematic liquid crystal. Scientific Reports, 2019, 9, 81. | 3.3 | 11 |
| 50 | Patterns from drops drying on inclined substrates. Soft Matter, 2021, 17, 7670-7681. | 2.7 | 11 |
| 51 | Phase Inversion of Ellipsoid-Stabilized Emulsions. Langmuir, 2021, 37, 7295-7304. | 3.5 | 11 |
| 52 | 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 |
| 53 | Evaporative self-assembly of the binary mixture of soft colloids. Physical Chemistry Chemical Physics, 2021, 23, 7115-7124. | 2.8 | 10 |
| 54 | Synergy between the crack pattern and substrate elasticity in colloidal deposits. Physical Review E, 2021, 103, 032602. | 2.1 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Desiccation cracks in dispersion of ellipsoids: Effect of aspect ratio and applied fields. Physical Review Materials, 2018, 2, . | 2.4 | 10 |
| 56 | Patterning of colloids into spirals via confined drying. Soft Matter, 2020, 16, 3753-3761. | 2.7 | 9 |
| 57 | Self assembly of oppositely charged latex particles at oil-water interface. Journal of Colloid and Interface Science, 2017, 486, 325-336. | 9.4 | 8 |
| 58 | Porous materials from oppositely charged nanoparticle gel emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 544, 172-178. | 4.7 | 8 |
| 59 | Engineering polymer film porosity for solvent triggered actuation. Soft Matter, 2021, 17, 2900-2912. | 2.7 | 8 |
| 60 | Macroporous Ceramic Monolith from Nanoparticleâ€“Polyelectrolyte-Stabilized Pickering Emulsions. Journal of Physical Chemistry B, 2021, 125, 13575-13584. | 2.6 | 8 |
| 61 | Nanoindentation of clay colloidosomes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 550, 167-175. | 4.7 | 6 |
| 62 | Colloidal monolayers with cell-like tessellations via interface assisted evaporative assembly. Journal of Colloid and Interface Science, 2021, 583, 683-691. | 9.4 | 6 |
| 63 | Evaporative self-assembly of soft colloidal monolayers: the role of particle softness. Soft Matter, 2021, 17, 7921-7931. | 2.7 | 6 |
| 64 | Further Insights into Patterns from Drying Particle Laden Sessile Drops. Langmuir, 2021, 37, 4395-4402. | 3.5 | 6 |
| 65 | Particle size and substrate wettability dependent patterns in dried pendant drops. Journal of Physics Condensed Matter, 2021, 33, 024003. | 1.8 | 6 |
| 66 | Pickering emulsions stabilized by sphere-spheroid mixtures. Journal of Dispersion Science and Technology, 2021, 42, 2022-2031. | 2.4 | 5 |
| 67 | Drops spreading on fluid surfaces: Transition from Laplace to Marangoni regime. Physical Review Fluids, 2021, 6, . | 2.5 | 5 |
| 68 | Flow Alignment of Prolate Particles on a Rotating Disk Electrode. Journal of the Electrochemical Society, 2006, 153, C660. | 2.9 | 4 |
| 69 | Controlling the yield behavior of fat-oil mixtures using cooling rate. Rheologica Acta, 2017, 56, 971-982. | 2.4 | 4 |
| 70 | A versatile major axis voted method for efficient ellipse detection. Pattern Recognition Letters, 2018, 104, 45-52. | 4.2 | 4 |
| 71 | 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 |
| 72 | Controlling the microstructure of emulsions by exploiting particle-polyelectrolyte association. Journal of Colloid and Interface Science, 2021, 597, 409-421. | 9.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Statics and dynamics of drops spreading on a liquid-liquid interface. Physical Review Fluids, 2020, 5, . | 2.5 | 4 |
| 74 | 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 |
| 75 | Semi-batch and continuous production of Pickering emulsion via direct contact steam condensation. Soft Matter, 2021, 17, 9636-9643. | 2.7 | 3 |
| 76 | 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 |
| 77 | Exploiting Heteroaggregation to Quantify the Contact Angle of Charged Colloids at Interfaces. Langmuir, 2022, 38, 7433-7441. | 3.5 | 3 |
| 78 | MEASUREMENT OF AXIAL DISPERSION COEFFICIENT IN A PACKED BED USING X-RAY. Materials and Manufacturing Processes, 2002, 17, 683-692. | 4.7 | 2 |
| 79 | 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 |
| 80 | 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 |
| 81 | Colloidal Particle-Induced Microstructural Transition in Cellulose/Ionic Liquid/Water Mixtures. Langmuir, 2019, 35, 12428-12438. | 3.5 | 2 |
| 82 | An experimental and theoretical study of the inward particle drift in contact line deposits. Soft Matter, 2022, 18, 2414-2421. | 2.7 | 2 |
| 83 | 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 |
| 84 | Confinement effect on spatio-temporal growth of spherulites from cellulose/ionic liquid solutions. Polymer, 2019, 185, 121927. | 3.8 | 1 |
| 85 | Self-Assembly and Surface Rheology of 2D Suspension of Ellipsoids. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 86 | Order-to-disorder transition in colored microgel monolayers. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |