Sameer Mhatre

List of Publications by Year
in descending order

16 papers	571 citations	840776 11 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	387 citing authors

#	Article	IF	Citations
1	Electrostatic phase separation: A review. Chemical Engineering Research and Design, 2015, 96, 177-195.	5.6	181
2	Electrocoalescence of water drop trains in oil under constant and pulsatile electric fields. Chemical Engineering Research and Design, 2015, 104, 658-668.	5.6	58
3	Drop motion, deformation, and cyclic motion in a non-uniform electric field in the viscous limit. Physics of Fluids, 2013, 25, 072105.	4.0	52
4	Electrocoalescence in non-uniform electric fields: An experimental study. Chemical Engineering and Processing: Process Intensification, 2015, 96, 28-38.	3.6	52
5	Demulsifier assisted film thinning and coalescence in crude oil emulsions under DC electric fields. Chemical Engineering Research and Design, 2018, 134, 117-129.	5.6	51
6	Electrocoalescence of a drop pair. Physics of Fluids, 2015, 27, .	4.0	50
7	Emulsions in external electric fields. Advances in Colloid and Interface Science, 2021, 294, 102455.	14.7	24
8	Demulsification of crude oil emulsions tracked by pulsed field gradient NMR. Part II: Influence of chemical demulsifiers in external AC electric field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124188.	4.7	22
9	Pinâ€“Plate Electrode System for Emulsification of a Higher Conductivity Leaky Dielectric Liquid into a Low Conductivity Medium. Industrial & Engineering Chemistry Research, 2014, 53, 13488-13496.	3.7	16
10	Influence of a Propagating Megahertz Surface Acoustic Wave on the Pattern Deposition of Solute Mass off an Evaporating Solution. Langmuir, 2016, 32, 9611-9618.	3.5	16
11	Dielectrophoretic motion and deformation of a liquid drop in an axisymmetric non-uniform AC electric field. Sensors and Actuators B: Chemical, 2017, 239, 1098-1108.	7.8	15
12	Shape evolution of a water drop in asphaltene solution under weak DC electric fields. Chemical Engineering Research and Design, 2019, 141, 540-549.	5.6	11
13	Stability of a charged drop near a conductor wall. European Physical Journal E, 2012, 35, 39.	1.6	8
14	Experimental Evidence of Enhanced Adsorption Dynamics at Liquidâ€“Liquid Interfaces under an Electric Field. Analytical Chemistry, 2020, 92, 12860-12870.	6.5	6
15	Coalescence Behavior of Stable Pendent Drop Pairs Held at Different Electric Potentials. Langmuir, 2020, 36, 1642-1650.	3.5	6
16	Methodology to calculate interfacial tension under electric field using pendent drop profile analysis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180852.	2.1	3