Himiyage C H Bandulasena

List of Publications by Year
in descending order

43 papers	1,423 citations	471061 17 h-index	329751 37 g-index
45 all docs	45 docs citations	45 times ranked	1334 citing authors

#	Article	IF	Citations
1	Towards energy efficient nanobubble generation with fluidic oscillation. Current Opinion in Colloid and Interface Science, 2011, 16, 350-356.	3.4	185
2	Microflotation performance for algal separation. Biotechnology and Bioengineering, 2012, 109, 1663-1673.	1.7	151
3	On the design and simulation of an airlift loop bioreactor with microbubble generation by fluidic oscillation. Food and Bioproducts Processing, 2009, 87, 215-227.	1.8	126
4	Design of an airlift loop bioreactor and pilot scales studies with fluidic oscillator induced microbubbles for growth of a microalgae Dunaliella salina. Applied Energy, 2011, 88, 3357-3369.	5.1	118
5	Microbubble Generation. Recent Patents on Engineering, 2008, 2, 1-8.	0.3	117
6	Fluidic oscillator-mediated microbubble generation to provide cost effective mass transfer and mixing efficiency to the wastewater treatment plants. Environmental Research, 2015, 137, 32-39.	3.7	83
7	Production of polymeric nanoparticles by micromixing in a co-flow microfluidic glass capillary device. Chemical Engineering Journal, 2015, 280, 316-329.	6.6	62
8	CO₂ Mass Transfer Induced through an Airlift Loop by a Microbubble Cloud Generated by Fluidic Oscillation. Industrial & Engineering Chemistry Research, 2012, 51, 1864-1877.	1.8	52
9	Evaporation dynamics of microbubbles. Chemical Engineering Science, 2013, 101, 865-877.	1.9	51
10	Bistable diverter valve in microfluidics. Experiments in Fluids, 2011, 50, 1225-1233.	1.1	48
11	Oil emulsion separation with fluidic oscillator generated microbubbles. International Journal of Multiphase Flow, 2013, 56, 119-125.	1.6	44
12	Production of liposomes using microengineered membrane and co-flow microfluidic device. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 458, 168-177.	2.3	42
13	Dielectric barrier discharge plasma microbubble reactor for pretreatment of lignocellulosic biomass. AICHE Journal, 2018, 64, 3803-3816.	1.8	42
14	Aerator design for microbubble generation. Chemical Engineering Research and Design, 2017, 123, 367-376.	2.7	31
15	Microbubble-enhanced DBD plasma reactor: Design, characterisation and modelling. Chemical Engineering Research and Design, 2019, 144, 159-173.	2.7	29
16	Harvesting and dewatering yeast by microflotation. Biochemical Engineering Journal, 2014, 82, 174-182.	1.8	26
17	Azimuthally oscillating membrane emulsification for controlled droplet production. AICHE Journal, 2015, 61, 3607-3615.	1.8	24
18	Microbubble-enhanced dielectric barrier discharge pretreatment of microcrystalline cellulose. Biomass and Bioenergy, 2018, 118, 46-54.	2.9	13

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19	An integrated microfluidic chip for generation and transfer of reactive species using gas plasma. Microfluidics and Nanofluidics, 2020, 24, 1.	1.0	13
20	Differentiation of Bioengineered Skeletal Muscle within a 3D Printed Perfusion Bioreactor Reduces Atrophic and Inflammatory Gene Expression. ACS Biomaterials Science and Engineering, 2019, 5, 5525-5538.	2.6	12
21	Influence of the On-time on the Ozone Production in Pulsed Dielectric Barrier Discharges. Plasma, 2019, 2, 39-50.	0.7	12
22	Continuous removal of ethanol from dilute ethanol-water mixtures using hot microbubbles. Chemical Engineering Journal, 2021, 424, 130511.	6.6	12
23	Microalgae recovery by microflotation for biofuel production using metallic coagulants. Biofuels, 2013, 4, 363-369.	1.4	11
24	An inverse method for rheometry of power-law fluids. Measurement Science and Technology, 2011, 22, 125402.	1.4	9
25	Electroosmotic flow measurements in a freely suspended liquid film: Experimhents and numerical simulations. Electrophoresis, 2017, 38, 2554-2560.	1.3	9
26	Influence of the voltage waveformâ€™s shape and on-time duration on the dissolved ozone produced by a DBD bubble reactor. Plasma Sources Science and Technology, 2019, 28, 035001.	1.3	9
27	Plasma-assisted pre-treatment of lignocellulosic biomass for anaerobic digestion. Food and Bioproducts Processing, 2020, 124, 287-295.	1.8	8
28	An inverse methodology for the rheology of a power-law non-Newtonian fluid. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008, 222, 761-768.	1.1	7
29	Microfluidic rheometry of a polymer solution by micron resolution particle image velocimetry: a model validation study. Measurement Science and Technology, 2009, 20, 115404.	1.4	7
30	Creeping flow analysis of an integrated microfluidic device for rheometry. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1302-1308.	1.0	7
31	A comparison of azimuthal and axial oscillation microfiltration using surface and matrix types of microfilters with a cake-slurry shear plane exhibiting non-Newtonian behaviour. Journal of Membrane Science, 2018, 550, 357-364.	4.1	7
32	Hot Microbubble Air Stripping of Dilute Ethanolâ€“Water Mixtures. Industrial & Engineering Chemistry Research, 2020, 59, 19392-19405.	1.8	7
33	Electroosmotic Flow in Free Liquid Films: Understanding Flow in Foam Plateau Borders. Colloids and Interfaces, 2018, 2, 8.	0.9	6
34	Electrokinetic Transport of a Charged Dye in a Freely Suspended Liquid Film: Experiments and Numerical Simulations. Langmuir, 2020, 36, 1183-1191.	1.6	6
35	Epoxidation of trans-stilbene in a microfluidic plasma reactor. Chemical Engineering Science, 2021, 240, 116665.	1.9	6
36	Procedures used in electrokinetic investigations of surfactant-laden interfaces, liquid films and foam system. Current Opinion in Colloid and Interface Science, 2018, 37, 128-135.	3.4	5

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37	Effect of humic acid on E. coli disinfection in a microbubble-gas plasma reactor. Journal of Water Process Engineering, 2019, 31, 100881.	2.6	5
38	Deformation and dewetting of liquid films under gas jets. Journal of Fluid Mechanics, 2020, 905, .	1.4	5
39	Quantification of the Ozone Dose Delivered into a Liquid by Indirect Plasma Treatments: Method and Calibration of the Pittsburgh Green Fluorescence Probe. Plasma Chemistry and Plasma Processing, 2018, 38, 1169-1179.	1.1	4
40	Experimental and Computational Analysis of Mixing Inside Droplets for Microfluidic Fabrication of Gold Nanoparticles. Industrial & Engineering Chemistry Research, 2021, 60, 13967-13978.	1.8	4
41	Stability of Two-Dimensional Liquid Foams under Externally Applied Electric Fields. Langmuir, 2022, 38, 6305-6321.	1.6	4
42	Growth of carbon nanotubes from waste blast furnace gases at atmospheric pressure. Crystal Research and Technology, 2016, 51, 466-474.	0.6	3
43	Deformation of a Liquid Film by an Impinging Gas Jet: Modelling and Experiments. , 0, , .		0