# Himiyage C H Bandulasena

List of Publications by Year
in descending order



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|---|---|---|---|
| 43 papers | 1,423 citations | 471509 17 h-index | 330143 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. | 7.4 | 185 |
| 2 | Microflotation performance for algal separation. Biotechnology and Bioengineering, 2012, 109, 1663-1673. | 3.3 | 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. | 3.6 | 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. | 10.1 | 118 |
| 5 | Microbubble Generation. Recent Patents on Engineering, 2008, 2, 1-8. | 0.4 | 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. | 7.5 | 83 |
| 7 | Production of polymeric nanoparticles by micromixing in a co-flow microfluidic glass capillary device. Chemical Engineering Journal, 2015, 280, 316-329. | 12.7 | 62 |
| 8 | CO<sub>2</sub> Mass Transfer Induced through an Airlift Loop by a Microbubble Cloud Generated by Fluidic Oscillation. Industrial & Engineering Chemistry Research, 2012, 51, 1864-1877. | 3.7 | 52 |
| 9 | Evaporation dynamics of microbubbles. Chemical Engineering Science, 2013, 101, 865-877. | 3.8 | 51 |
| 10 | Bistable diverter valve in microfluidics. Experiments in Fluids, 2011, 50, 1225-1233. | 2.4 | 48 |
| 11 | Oil emulsion separation with fluidic oscillator generated microbubbles. International Journal of Multiphase Flow, 2013, 56, 119-125. | 3.4 | 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. | 4.7 | 42 |
| 13 | Dielectric barrier discharge plasma microbubble reactor for pretreatment of lignocellulosic biomass. AICHE Journal, 2018, 64, 3803-3816. | 3.6 | 42 |
| 14 | Aerator design for microbubble generation. Chemical Engineering Research and Design, 2017, 123, 367-376. | 5.6 | 31 |
| 15 | Microbubble-enhanced DBD plasma reactor: Design, characterisation and modelling. Chemical Engineering Research and Design, 2019, 144, 159-173. | 5.6 | 29 |
| 16 | Harvesting and dewatering yeast by microflotation. Biochemical Engineering Journal, 2014, 82, 174-182. | 3.6 | 26 |
| 17 | Azimuthally oscillating membrane emulsification for controlled droplet production. AICHE Journal, 2015, 61, 3607-3615. | 3.6 | 24 |
| 18 | Microbubble-enhanced dielectric barrier discharge pretreatment of microcrystalline cellulose. Biomass and Bioenergy, 2018, 118, 46-54. | 5.7 | 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. | 2.2 | 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. | 5.2 | 12 |
| 21 | Influence of the On-time on the Ozone Production in Pulsed Dielectric Barrier Discharges. Plasma, 2019, 2, 39-50. | 1.8 | 12 |
| 22 | Continuous removal of ethanol from dilute ethanol-water mixtures using hot microbubbles. Chemical Engineering Journal, 2021, 424, 130511. | 12.7 | 12 |
| 23 | Microalgae recovery by microflotation for biofuel production using metallic coagulants. Biofuels, 2013, 4, 363-369. | 2.4 | 11 |
| 24 | An inverse method for rheometry of power-law fluids. Measurement Science and Technology, 2011, 22, 125402. | 2.6 | 9 |
| 25 | Electroosmotic flow measurements in a freely suspended liquid film: Experimhents and numerical simulations. Electrophoresis, 2017, 38, 2554-2560. | 2.4 | 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. | 3.1 | 9 |
| 27 | Plasma-assisted pre-treatment of lignocellulosic biomass for anaerobic digestion. Food and Bioproducts Processing, 2020, 124, 287-295. | 3.6 | 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. | 2.1 | 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. | 2.6 | 7 |
| 30 | Creeping flow analysis of an integrated microfluidic device for rheometry. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1302-1308. | 2.4 | 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. | 8.2 | 7 |
| 32 | Hot Microbubble Air Stripping of Dilute Ethanolâ€“Water Mixtures. Industrial & Engineering Chemistry Research, 2020, 59, 19392-19405. | 3.7 | 7 |
| 33 | Electroosmotic Flow in Free Liquid Films: Understanding Flow in Foam Plateau Borders. Colloids and Interfaces, 2018, 2, 8. | 2.1 | 6 |
| 34 | Electrokinetic Transport of a Charged Dye in a Freely Suspended Liquid Film: Experiments and Numerical Simulations. Langmuir, 2020, 36, 1183-1191. | 3.5 | 6 |
| 35 | Epoxidation of trans-stilbene in a microfluidic plasma reactor. Chemical Engineering Science, 2021, 240, 116665. | 3.8 | 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. | 7.4 | 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. | 5.6 | 5 |
| 38 | Deformation and dewetting of liquid films under gas jets. Journal of Fluid Mechanics, 2020, 905, . | 3.4 | 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. | 2.4 | 4 |
| 40 | Experimental and Computational Analysis of Mixing Inside Droplets for Microfluidic Fabrication of Gold Nanoparticles. Industrial & Engineering Chemistry Research, 2021, 60, 13967-13978. | 3.7 | 4 |
| 41 | Stability of Two-Dimensional Liquid Foams under Externally Applied Electric Fields. Langmuir, 2022, 38, 6305-6321. | 3.5 | 4 |
| 42 | Growth of carbon nanotubes from waste blast furnace gases at atmospheric pressure. Crystal Research and Technology, 2016, 51, 466-474. | 1.3 | 3 |
| 43 | Deformation of a Liquid Film by an Impinging Gas Jet: Modelling and Experiments. , 0, , . | | 0 |