

Himiyage C H Bandulasena

List of Publications by Year in descending order

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43
papers

1,423
citations

471061

17
h-index

329751

37
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45
all docs

45
docs citations

45
times ranked

1334
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of Two-Dimensional Liquid Foams under Externally Applied Electric Fields. <i>Langmuir</i> , 2022, 38, 6305-6321.	1.6	4
2	Epoxidation of trans-stilbene in a microfluidic plasma reactor. <i>Chemical Engineering Science</i> , 2021, 240, 116665.	1.9	6
3	Experimental and Computational Analysis of Mixing Inside Droplets for Microfluidic Fabrication of Gold Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13967-13978.	1.8	4
4	Continuous removal of ethanol from dilute ethanol-water mixtures using hot microbubbles. <i>Chemical Engineering Journal</i> , 2021, 424, 130511.	6.6	12
5	Plasma-assisted pre-treatment of lignocellulosic biomass for anaerobic digestion. <i>Food and Bioproducts Processing</i> , 2020, 124, 287-295.	1.8	8
6	Hot Microbubble Air Stripping of Dilute Ethanol-Water Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19392-19405.	1.8	7
7	Deformation and dewetting of liquid films under gas jets. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	1.4	5
8	Electrokinetic Transport of a Charged Dye in a Freely Suspended Liquid Film: Experiments and Numerical Simulations. <i>Langmuir</i> , 2020, 36, 1183-1191.	1.6	6
9	An integrated microfluidic chip for generation and transfer of reactive species using gas plasma. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	13
10	Effect of humic acid on E. coli disinfection in a microbubble-gas plasma reactor. <i>Journal of Water Process Engineering</i> , 2019, 31, 100881.	2.6	5
11	Differentiation of Bioengineered Skeletal Muscle within a 3D Printed Perfusion Bioreactor Reduces Atrophic and Inflammatory Gene Expression. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5525-5538.	2.6	12
12	Influence of the voltage waveform's shape and on-time duration on the dissolved ozone produced by a DBD bubble reactor. <i>Plasma Sources Science and Technology</i> , 2019, 28, 035001.	1.3	9
13	Influence of the On-time on the Ozone Production in Pulsed Dielectric Barrier Discharges. <i>Plasma</i> , 2019, 2, 39-50.	0.7	12
14	Microbubble-enhanced DBD plasma reactor: Design, characterisation and modelling. <i>Chemical Engineering Research and Design</i> , 2019, 144, 159-173.	2.7	29
15	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. <i>Journal of Membrane Science</i> , 2018, 550, 357-364.	4.1	7
16	Procedures used in electrokinetic investigations of surfactant-laden interfaces, liquid films and foam system. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 37, 128-135.	3.4	5
17	Microbubble-enhanced dielectric barrier discharge pretreatment of microcrystalline cellulose. <i>Biomass and Bioenergy</i> , 2018, 118, 46-54.	2.9	13
18	Dielectric barrier discharge plasma microbubble reactor for pretreatment of lignocellulosic biomass. <i>AIChE Journal</i> , 2018, 64, 3803-3816.	1.8	42

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19	Electroosmotic Flow in Free Liquid Films: Understanding Flow in Foam Plateau Borders. <i>Colloids and Interfaces</i> , 2018, 2, 8.	0.9	6
20	Quantification of the Ozone Dose Delivered into a Liquid by Indirect Plasma Treatments: Method and Calibration of the Pittsburgh Green Fluorescence Probe. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 1169-1179.	1.1	4
21	Aerator design for microbubble generation. <i>Chemical Engineering Research and Design</i> , 2017, 123, 367-376.	2.7	31
22	Electroosmotic flow measurements in a freely suspended liquid film: Experiments and numerical simulations. <i>Electrophoresis</i> , 2017, 38, 2554-2560.	1.3	9
23	Growth of carbon nanotubes from waste blast furnace gases at atmospheric pressure. <i>Crystal Research and Technology</i> , 2016, 51, 466-474.	0.6	3
24	Azimuthally oscillating membrane emulsification for controlled droplet production. <i>AIChE Journal</i> , 2015, 61, 3607-3615.	1.8	24
25	Production of polymeric nanoparticles by micromixing in a co-flow microfluidic glass capillary device. <i>Chemical Engineering Journal</i> , 2015, 280, 316-329.	6.6	62
26	Fluidic oscillator-mediated microbubble generation to provide cost effective mass transfer and mixing efficiency to the wastewater treatment plants. <i>Environmental Research</i> , 2015, 137, 32-39.	3.7	83
27	Production of liposomes using microengineered membrane and co-flow microfluidic device. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 458, 168-177.	2.3	42
28	Harvesting and dewatering yeast by microflotation. <i>Biochemical Engineering Journal</i> , 2014, 82, 174-182.	1.8	26
29	Oil emulsion separation with fluidic oscillator generated microbubbles. <i>International Journal of Multiphase Flow</i> , 2013, 56, 119-125.	1.6	44
30	Evaporation dynamics of microbubbles. <i>Chemical Engineering Science</i> , 2013, 101, 865-877.	1.9	51
31	Microalgae recovery by microflotation for biofuel production using metallic coagulants. <i>Biofuels</i> , 2013, 4, 363-369.	1.4	11
32	CO ₂ Mass Transfer Induced through an Airlift Loop by a Microbubble Cloud Generated by Fluidic Oscillation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1864-1877.	1.8	52
33	Microflotation performance for algal separation. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1663-1673.	1.7	151
34	Towards energy efficient nanobubble generation with fluidic oscillation. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 350-356.	3.4	185
35	Bistable diverter valve in microfluidics. <i>Experiments in Fluids</i> , 2011, 50, 1225-1233.	1.1	48
36	Design of an airlift loop bioreactor and pilot scales studies with fluidic oscillator induced microbubbles for growth of a microalgae <i>Dunaliella salina</i> . <i>Applied Energy</i> , 2011, 88, 3357-3369.	5.1	118

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37	An inverse method for rheometry of power-law fluids. Measurement Science and Technology, 2011, 22, 125402.	1.4	9
38	Creeping flow analysis of an integrated microfluidic device for rheometry. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1302-1308.	1.0	7
39	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
40	On the design and simulation of an airlift loop bioreactor with microbubble generation by fluidic oscillation. Food and Bioprocess Processing, 2009, 87, 215-227.	1.8	126
41	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
42	Microbubble Generation. Recent Patents on Engineering, 2008, 2, 1-8.	0.3	117
43	Deformation of a Liquid Film by an Impinging Gas Jet: Modelling and Experiments. , 0, , .		0