

Jcb Lopes

List of Publications by Year in descending order

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85
papers

1,814
citations

236833

25
h-index

302012

39
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87
docs citations

87
times ranked

1486
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanohydroxyapatite (n-HAp) as a pickering stabilizer in oil-in-water (O/W) emulsions: a stability study. <i>Journal of Dispersion Science and Technology</i> , 2022, 43, 814-826.	1.3	6
2	Flow Regimes and Mixing of Dissimilar Fluids in Jets Mixers. <i>Chemical Engineering and Technology</i> , 2022, 45, 355-364.	0.9	5
3	Development of water-in-oil Pickering emulsions from sodium oleate surface-modified nano-hydroxyapatite. <i>Surfaces and Interfaces</i> , 2022, 29, 101759.	1.5	3
4	Continuous production of cellulose acetate microspheres for textile impregnation using a mesostructured reactor. <i>Cellulose</i> , 2022, 29, 3595.	2.4	2
5	Carbon Capture and Storage Toward Industrialization: A Novel Continuous Process for the Production of Carbon Dioxide Clathrates. <i>Energy Technology</i> , 2022, 10, .	1.8	4
6	Effect of temperature, pH and ionic strength on hydroxyapatite stabilised Pickering emulsions produced in batch and continuous mode. <i>Food Biophysics</i> , 2022, 17, 422-436.	1.4	5
7	Effective mixing of dissimilar fluids in asymmetric Confined Impinging Jets mixers. <i>Chemical Engineering Science</i> , 2022, 258, 117756.	1.9	6
8	Small-scale GTL Applications with Heat Integration in Reforming and Fischer-Tropsch Stages. <i>Computer Aided Chemical Engineering</i> , 2021, , 203-208.	0.3	0
9	Continuous production of hydroxyapatite Pickering emulsions using a mesostructured reactor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126365.	2.3	14
10	Striation Thickness Distribution in Split-and-Recombine Mixers in the Stokes Regime. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 170, 108714.	1.8	1
11	Mixing in the NETmix Reactor. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	3
12	Fully resolved modelling and simulation of micromixing in confined impinging jets. <i>Chemical Engineering Science</i> , 2020, 211, 115299.	1.9	11
13	Continuous Production of Melamine-Formaldehyde Microcapsules Using a Mesostructured Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18510-18519.	1.8	13
14	Numerical study of transient flow dynamics in a core-type transformer windings. <i>Electric Power Systems Research</i> , 2020, 187, 106423.	2.1	9
15	Diffusive lagrangian mixing simulation. <i>Chemical Engineering Research and Design</i> , 2020, 163, 307-319.	2.7	1
16	Proper Orthogonal Decomposition and Statistical Analysis of 2D Confined Impinging Jets Chaotic Flow. <i>Chemical Engineering and Technology</i> , 2019, 42, 1709-1716.	0.9	5
17	Ozonation and ozone-enhanced photocatalysis for VOC removal from air streams: Process optimization, synergy and mechanism assessment. <i>Science of the Total Environment</i> , 2019, 687, 1357-1368.	3.9	62
18	Removal of bromate from drinking water using a heterogeneous photocatalytic mili-reactor: impact of the reactor material and water matrix. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33281-33293.	2.7	5

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19	Overcoming limitations in photochemical UVC/H ₂ O ₂ systems using a mili-photoreactor (NETmix): Oxytetracycline oxidation. <i>Science of the Total Environment</i> , 2019, 660, 982-992.	3.9	16
20	Intensification of heterogeneous TiO ₂ photocatalysis using the NETmix mili-photoreactor under microscale illumination for oxytetracycline oxidation. <i>Science of the Total Environment</i> , 2019, 681, 467-474.	3.9	37
21	New insights into nanohydroxyapatite/chitosan nanocomposites for bone tissue regeneration. , 2019, , 331-371.		2
22	Intensifying heterogeneous TiO ₂ photocatalysis for bromate reduction using the NETmix photoreactor. <i>Science of the Total Environment</i> , 2019, 664, 805-816.	3.9	24
23	Selecting the best piping arrangement for scaling-up an annular channel reactor: An experimental and computational fluid dynamics study. <i>Science of the Total Environment</i> , 2019, 667, 821-832.	3.9	25
24	Estimation of k_L Values in Bench-Scale Stirred Tank Reactors with Self-Inducing Impeller by Multiphase CFD Simulations. <i>Chemical Engineering and Technology</i> , 2019, 42, 1545-1554.	0.9	7
25	Effect of catalyst coated surface, illumination mechanism and light source in heterogeneous TiO ₂ photocatalysis using a mili-photoreactor for n-decane oxidation at gas phase. <i>Chemical Engineering Journal</i> , 2019, 366, 560-568.	6.6	26
26	3D Mixing Dynamics in T-jet Mixers. <i>Chemical Engineering and Technology</i> , 2019, 42, 119-128.	0.9	9
27	Strategies to reduce mass and photons transfer limitations in heterogeneous photocatalytic processes: Hexavalent chromium reduction studies. <i>Journal of Environmental Management</i> , 2018, 217, 555-564.	3.8	29
28	Supercritical CO ₂ assisted process for the production of high-purity and sterile nano-hydroxyapatite/chitosan hybrid scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 965-975.	1.6	15
29	Preparation of nano-hydroxyapatite/chitosan aqueous dispersions: From lab scale to continuous production using an innovative static mixer. <i>Carbohydrate Polymers</i> , 2018, 202, 20-28.	5.1	16
30	Lagrangian mixing simulation and quantification of scales. <i>Chemical Engineering Science</i> , 2018, 192, 199-210.	1.9	9
31	Application of a micro-meso-structured reactor (NETmix) to promote photochemical UVC/H ₂ O ₂ processes – oxidation of As(III) to As(V). <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1179-1188.	1.6	5
32	Mixing of fluids with dissimilar viscosities in Confined Impinging Jets. <i>Chemical Engineering Research and Design</i> , 2018, 134, 392-404.	2.7	8
33	Homogeneous and heterogeneous photo-Fenton degradation of antibiotics using an innovative static mixer photoreactor. <i>Chemical Engineering Journal</i> , 2017, 310, 342-351.	6.6	94
34	Intensification of heterogeneous TiO ₂ photocatalysis using an innovative micro-meso-structured-reactor for Cr(VI) reduction under simulated solar light. <i>Chemical Engineering Journal</i> , 2017, 318, 76-88.	6.6	76
35	Heat transfer performance of NETmix – A novel micro-meso structured mixer and reactor. <i>AIChE Journal</i> , 2017, 63, 2496-2508.	1.8	18
36	On the 2D nature of flow dynamics in opposed jets mixers. <i>AIChE Journal</i> , 2017, 63, 2335-2347.	1.8	14

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37	Intensification of heterogeneous TiO ₂ photocatalysis using an innovative micro-meso-structured-photoreactor for n-decane oxidation at gas phase. <i>Chemical Engineering Journal</i> , 2017, 310, 331-341.	6.6	56
38	An elastic analog model for controlling the impingement point position in confined impinging jets. <i>AIChE Journal</i> , 2016, 62, 2200-2212.	1.8	12
39	Numerical study of active mixing over a dynamic flow field in a T-jets mixer – Induction of resonance. <i>Chemical Engineering Research and Design</i> , 2016, 106, 74-91.	2.7	23
40	Spray drying as a viable process to produce nano-hydroxyapatite/chitosan (n-HAp/CS) hybrid microparticles mimicking bone composition. <i>Advanced Powder Technology</i> , 2016, 27, 575-583.	2.0	43
41	Real time control of mixing in Reaction Injection Moulding. <i>Chemical Engineering Research and Design</i> , 2016, 105, 31-43.	2.7	9
42	An innovative static mixer photoreactor: Proof of concept. <i>Chemical Engineering Journal</i> , 2016, 287, 419-424.	6.6	14
43	Spray-drying microencapsulation of synergistic antioxidant mushroom extracts and their use as functional food ingredients. <i>Food Chemistry</i> , 2015, 188, 612-618.	4.2	55
44	Monitoring in real time the production of Fe-oxide nanoparticles. <i>Chemical Engineering Science</i> , 2015, 138, 600-606.	1.9	3
45	Flow imbalance and Reynolds number impact on mixing in Confined Impinging Jets. <i>Chemical Engineering Journal</i> , 2015, 260, 316-330.	6.6	56
46	Prediction of the Induced Gas Flow Rate from a Self-Inducing Impeller with CFD. <i>Chemical Engineering and Technology</i> , 2014, 37, 571-579.	0.9	12
47	Study of different designs of methanol steam reformers: Experiment and modeling. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19970-19981.	3.8	26
48	Continuous flow photo-Fenton treatment of ciprofloxacin in aqueous solutions using homogeneous and magnetically recoverable catalysts. <i>Environmental Science and Pollution Research</i> , 2014, 21, 11116-11125.	2.7	28
49	The NETmix reactor: Pressure drop measurements and 3D CFD modeling. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2250-2258.	2.7	27
50	High-Throughput T-jets Mixers: An Innovative Scale-Up Concept. <i>Chemical Engineering and Technology</i> , 2013, 36, 323-331.	0.9	25
51	Experimental study of flow regime and mixing in T-jets mixers. <i>Chemical Engineering Science</i> , 2012, 73, 388-399.	1.9	62
52	Characterization of mixing in T-jets mixers. <i>Chemical Engineering Journal</i> , 2012, 207-208, 931-937.	6.6	31
53	Micromixing assessment of confined impinging jet mixers used in RIM. <i>Chemical Engineering Science</i> , 2012, 74, 276-286.	1.9	24
54	Mixing Through Half a Century of Chemical Engineering. , 2012, , 79-112.		1

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55	Activated Sludge Models Coupled to CFD Simulations. , 2012, , 153-173.		3
56	NETmix [®] , a new type of static mixer: Experimental characterization and model validation. AICHE Journal, 2011, 57, 1020-1032.	1.8	37
57	Quantification of Mixing in RIM Using a Non-Diffusive Two-Phase Flow Numerical Model. International Journal of Chemical Reactor Engineering, 2011, 9, .	0.6	7
58	Validation of a 2D CFD Model for Hydrodynamics' Studies in CIJ Mixers. International Journal of Chemical Reactor Engineering, 2010, 8, .	0.6	16
59	Dynamic behavior of the flow field in a RIM machine mixing chamber. AICHE Journal, 2009, 55, 1338-1351.	1.8	34
60	NETmix [®] , a new type of static mixer: Modeling, simulation, macromixing, and micromixing characterization. AICHE Journal, 2009, 55, 2226-2243.	1.8	39
61	A Highly Reproducible Continuous Process for Hydroxyapatite Nanoparticles Synthesis. Journal of Nanoscience and Nanotechnology, 2009, 9, 3387-3395.	0.9	23
62	Hydrodynamics of the mixing chamber in RIM: PIV flow-field characterization. AICHE Journal, 2008, 54, 1153-1163.	1.8	46
63	Network modeling of flow in a packed bed. AICHE Journal, 2007, 53, 91-107.	1.8	21
64	Mixing dynamics control in RIM machines. Chemical Engineering Science, 2007, 62, 5276-5281.	1.9	18
65	Modelling of Self-Induced Oscillations in the Mixing Head of a RIM Machine. Canadian Journal of Chemical Engineering, 2007, 85, 45-54.	0.9	8
66	Onset of Turbulence in T-jet Mixers. , 2007, , 728-728.		0
67	Mass Transport Modelling in Porous Media Using Delay Differential Equations. Defect and Diffusion Forum, 2006, 258-260, 586-591.	0.4	1
68	Hydrodynamics of the mixing head in RIM: LDA flow-field characterization. AICHE Journal, 2005, 51, 1608-1619.	1.8	38
69	Study of mixing and chemical reaction in RIM. Chemical Engineering Science, 2005, 60, 2381-2398.	1.9	53
70	Operational and Design Study of RIM Machines. International Polymer Processing, 2002, 17, 387-394.	0.3	28
71	Porous Media Characterization Using Mercury Porosimetry Simulation. 2. An Iterative Method for the Determination of the Real Pore Size Distribution and the Mean Coordination Number. Industrial & Engineering Chemistry Research, 2001, 40, 4836-4843.	1.8	11
72	Porous Media Characterization Using Mercury Porosimetry Simulation. 1. Description of the Simulator and Its Sensitivity to Model Parameters. Industrial & Engineering Chemistry Research, 2001, 40, 3511-3522.	1.8	11

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73	Gas-liquid flow in a 2D column: Comparison between experimental data and CFD modelling. <i>Chemical Engineering Science</i> , 2001, 56, 6367-6383.	1.9	34
74	Effect of Coke in the Equilibrium and Kinetics of Sorption on 5A Molecular Sieve Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 1030-1034.	1.8	7
75	Hydrodynamics of gas-liquid flow in 2D packed/unpacked rectangular reactor. <i>Chemical Engineering Science</i> , 1999, 54, 5127-5137.	1.9	10
76	Diffusion, convection and reaction in catalyst particles: analogy between slab and cylinder geometries. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1996, 61, 113-122.	0.1	2
77	Flow Field and Non-Isothermal Effects on Diffusion, Convection, and Reaction in Permeable Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 148-157.	1.8	15
78	The effect of intraparticle convection on conversion in heterogeneous isothermal fixed-bed reactors with large-pore catalysts for first-order reactions. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1994, 54, 41-50.	0.1	10
79	Diffusion, convection, and reaction in catalyst particles: analogy between slab and sphere geometries. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 1839-1852.	1.8	21
80	Diffusion and convection in permeable particles: Analogy between slab and sphere geometries. <i>Separation and Purification Technology</i> , 1992, 2, 208-211.	0.7	10
81	Importance of intraparticle convection in the performance of chromatographic processes. <i>Journal of Chromatography A</i> , 1992, 590, 93-100.	1.8	104
82	Droplet dynamics in vertical gas-liquid annular flow. <i>AIChE Journal</i> , 1987, 33, 1013-1024.	1.8	21
83	Droplet entrainment in vertical annular flow and its contribution to momentum transfer. <i>AIChE Journal</i> , 1986, 32, 1500-1515.	1.8	60
84	Computational aspects of the dynamics of sorption operations. <i>Computers and Chemical Engineering</i> , 1979, 3, 548.	2.0	0
85	Rheokinematics for Product Development - Formulation Screening in Rotational Rheometers. <i>AIChE Journal</i> , 0, , e17597.	1.8	0