Fernando Ap Garcia

List of Publications by Year
in descending order

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39 papers	780 citations	471509 17 h-index	526287 27 g-index
39 all docs	39 docs citations	39 times ranked	763 citing authors

#	Article	IF	Citations
1	Computational Fluid Dynamic Modelling of Fully-Suspended Slurry Flows in Horizontal Pipes with Different Solids Concentrations. KONA Powder and Particle Journal, 2023, 40, 219-235.	1.7	0
2	Electrical Tomography: A Review of Configurations, and Application to Fibre Flow Suspensions Characterisation. Applied Sciences (Switzerland), 2020, 10, 2355.	2.5	13
3	Oil/water stratified flow in a horizontal pipe: Simulated and experimental studies using EIT. Journal of Petroleum Science and Engineering, 2019, 174, 1179-1193.	4.2	19
4	Experimental Study and Computational Fluid Dynamics Modeling of Pulp Suspensions Flow in a Pipe. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	5
5	Modelling of concentrated fibre suspension pipe flow with low-Reynolds-number k-Îµ turbulence models: new damping function. Nordic Pulp and Paper Research Journal, 2017, 32, 132-147.	0.7	3
6	Evaluation of the Performance of Dual Polyelectrolyte Systems on the Re-Flocculation Ability of Calcium Carbonate Aggregates in Turbulent Environment. Polymers, 2016, 8, 174.	4.5	4
7	Characterization of solidâ€“liquid settling suspensions using Electrical Impedance Tomography: A comparison between numerical, experimental and visual information. Chemical Engineering Research and Design, 2016, 111, 223-242.	5.6	20
8	Validating dilute settling suspensions numerical data through MRI, UVP and EIT measurements. Flow Measurement and Instrumentation, 2016, 50, 35-48.	2.0	10
9	CFD simulation of a turbulent fiber suspension flow â€“ a modified near-wall treatment. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 233-246.	3.1	6
10	Evaluating the Performance of the Mixture Model Coupled with High and Low Reynolds Turbulence Closures in the Numerical Description of Concentrated Solid-Liquid Flows of Settling Particles. Journal of Computational Multiphase Flows, 2015, 7, 241-257.	0.8	10
11	Particle Distribution Studies in Highly Concentrated Solid-liquid Flows in Pipe Using the Mixture Model. Procedia Engineering, 2015, 102, 1016-1025.	1.2	22
12	Application of Different Low-Reynolds k-É› Turbulence Models to Model the Flow of Concentrated Pulp Suspensions in Pipes. Procedia Engineering, 2015, 102, 1326-1335.	1.2	14
13	Correlating Aggregates Structure with PEL Characteristics Using an Experimental Design Methodology. Procedia Engineering, 2015, 102, 1697-1706.	1.2	2
14	Evaluation of the Flocculation and Reflocculation Performance of a System with Calcium Carbonate, Cationic Acrylamide Co-polymers, and Bentonite Microparticles. Industrial & Engineering Chemistry Research, 2015, 54, 198-206.	3.7	19
15	Correlation between flocculation and adsorption of cationic polyacrylamides on precipitated calcium carbonate. Chemical Engineering Research and Design, 2015, 95, 298-306.	5.6	21
16	An experimental design methodology to evaluate the importance of different parameters on flocculation by polyelectrolytes. Powder Technology, 2013, 238, 2-13.	4.2	12
17	Imaging Particulate Two-Phase Flow in Liquid Suspensions with Electric Impedance Tomography. Particulate Science and Technology, 2012, 30, 329-342.	2.1	16
18	Modeling the Turbulent Flow of Pulp Suspensions. Industrial & Engineering Chemistry Research, 2011, 50, 9735-9742.	3.7	13

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19	Electrical Tomography: a review of Configurations and Applications to Particulate Processes. KONA Powder and Particle Journal, 2011, 29, 67-80.	1.7	35
20	Solution viscosity and flocculation characteristics of linear polymeric flocculants in various media. Chemical Engineering Research and Design, 2011, 89, 1037-1044.	5.6	10
21	Using Light Scattering to Screen Polyelectrolytes (PEL) Performance in Flocculation. Polymers, 2011, 3, 915-927.	4.5	18
22	Flocculation by cationic polyelectrolytes: Relating efficiency with polyelectrolyte characteristics. Journal of Applied Polymer Science, 2010, 116, 3603-3612.	2.6	11
23	Modelling PCC flocculation by bridging mechanism using population balances: Effect of polymer characteristics on flocculation. Chemical Engineering Science, 2010, 65, 3798-3807.	3.8	37
24	Evaluation of Polyelectrolyte Performance on PCC Flocculation Using the LDS Technique. Particulate Science and Technology, 2010, 28, 426-441.	2.1	4
25	LABVIRTUALâ€"A virtual platform to teach chemical processes. Education for Chemical Engineers, 2009, 4, e9-e19.	4.8	37
26	Evaluation of flocs resistance and reflocculation capacity using the LDS technique. Powder Technology, 2008, 183, 231-238.	4.2	42
27	The use of LDS as a tool to evaluate flocculation mechanisms. Chemical Engineering and Processing: Process Intensification, 2008, 47, 1323-1332.	3.6	86
28	Flocculation of PCC filler in papermaking: Influence of the particle characteristics. Chemical Engineering Research and Design, 2008, 86, 1155-1160.	5.6	15
29	Use of New Branched Cationic Polyacrylamides to Improve Retention and Drainage in Papermaking. Industrial & Engineering Chemistry Research, 2008, 47, 9370-9375.	3.7	35
30	Effect of Water Cationic Content on Flocculation, Flocs Resistance and Reflocculation Capacity of PCC Induced by Polyelectrolytes. Industrial & Engineering Chemistry Research, 2008, 47, 6006-6013.	3.7	35
31	Applying LDS to Monitor Flocculation in Papermaking. Particulate Science and Technology, 2007, 25, 303-308.	2.1	20
32	Lipase immobilisation on to polymeric membranes. Biotechnology Letters, 1999, 13, 403-409.	0.5	32
33	Effects of additives on the activity of a covalently immobilised lipase in organic media. Journal of Biotechnology, 1998, 66, 61-67.	3.8	48
34	Physical Characterization Of Porous Materials And Correlation With The Activity Of Immobilized Enzyme In Organic Medium. Biocatalysis and Biotransformation, 1998, 16, 67-85.	2.0	24
35	Hydrophobic interaction chromatography of Chromobacterium viscosum lipase on polyethylene glycol immobilized on Sepharose. Journal of Chromatography A, 1996, 734, 213-219.	3.7	27
36	Synthesis of N-Octyl Oleate with Lipase from Mucor miehei Immobilized onto Polyethylene Based Graft Copolymers. Biocatalysis, 1994, 9, 157-167.	0.9	9

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37	Continuous lipolysis in a reversed micellar membrane bioreactor. Bioprocess and Biosystems Engineering, 1994, 10, 21-27.	0.5	30
38	Stability performance ofCynara cardunculus L. acid protease in aqueous-organic biphasic systems. Biotechnology Letters, 1992, 14, 179-184.	2.2	14
39	Effect of aot concentration on the colorimetric determination of free fatty acids in a reverse micellar system. Biotechnology Letters, 1992, 6, 131-132.	0.5	2