

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	The use of LDS as a tool to evaluate flocculation mechanisms. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 1323-1332.	3.6	86
2	Effects of additives on the activity of a covalently immobilised lipase in organic media. <i>Journal of Biotechnology</i> , 1998, 66, 61-67.	3.8	48
3	Evaluation of flocs resistance and reflocculation capacity using the LDS technique. <i>Powder Technology</i> , 2008, 183, 231-238.	4.2	42
4	LABVIRTUAL – A virtual platform to teach chemical processes. <i>Education for Chemical Engineers</i> , 2009, 4, e9-e19.	4.8	37
5	Modelling PCC flocculation by bridging mechanism using population balances: Effect of polymer characteristics on flocculation. <i>Chemical Engineering Science</i> , 2010, 65, 3798-3807.	3.8	37
6	Use of New Branched Cationic Polyacrylamides to Improve Retention and Drainage in Papermaking. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9370-9375.	3.7	35
7	Effect of Water Cationic Content on Flocculation, Flocs Resistance and Reflocculation Capacity of PCC Induced by Polyelectrolytes. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 6006-6013.	3.7	35
8	Electrical Tomography: a review of Configurations and Applications to Particulate Processes. <i>KONA Powder and Particle Journal</i> , 2011, 29, 67-80.	1.7	35
9	Lipase immobilisation on to polymeric membranes. <i>Biotechnology Letters</i> , 1999, 13, 403-409.	0.5	32
10	Continuous lipolysis in a reversed micellar membrane bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 1994, 10, 21-27.	0.5	30
11	Hydrophobic interaction chromatography of <i>Chromobacterium viscosum</i> lipase on polyethylene glycol immobilized on Sepharose. <i>Journal of Chromatography A</i> , 1996, 734, 213-219.	3.7	27
12	Physical Characterization Of Porous Materials And Correlation With The Activity Of Immobilized Enzyme In Organic Medium. <i>Biocatalysis and Biotransformation</i> , 1998, 16, 67-85.	2.0	24
13	Particle Distribution Studies in Highly Concentrated Solid-liquid Flows in Pipe Using the Mixture Model. <i>Procedia Engineering</i> , 2015, 102, 1016-1025.	1.2	22
14	Correlation between flocculation and adsorption of cationic polyacrylamides on precipitated calcium carbonate. <i>Chemical Engineering Research and Design</i> , 2015, 95, 298-306.	5.6	21
15	Applying LDS to Monitor Flocculation in Papermaking. <i>Particulate Science and Technology</i> , 2007, 25, 303-308.	2.1	20
16	Characterization of solid-liquid settling suspensions using Electrical Impedance Tomography: A comparison between numerical, experimental and visual information. <i>Chemical Engineering Research and Design</i> , 2016, 111, 223-242.	5.6	20
17	Evaluation of the Flocculation and Reflocculation Performance of a System with Calcium Carbonate, Cationic Acrylamide Co-polymers, and Bentonite Microparticles. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 198-206.	3.7	19
18	Oil/water stratified flow in a horizontal pipe: Simulated and experimental studies using EIT. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 1179-1193.	4.2	19

#	ARTICLE	IF	CITATIONS
19	Using Light Scattering to Screen Polyelectrolytes (PEL) Performance in Flocculation. <i>Polymers</i> , 2011, 3, 915-927.	4.5	18
20	Imaging Particulate Two-Phase Flow in Liquid Suspensions with Electric Impedance Tomography. <i>Particulate Science and Technology</i> , 2012, 30, 329-342.	2.1	16
21	Flocculation of PCC filler in papermaking: Influence of the particle characteristics. <i>Chemical Engineering Research and Design</i> , 2008, 86, 1155-1160.	5.6	15
22	Stability performance of <i>Cynara cardunculus</i> L. acid protease in aqueous-organic biphasic systems. <i>Biotechnology Letters</i> , 1992, 14, 179-184.	2.2	14
23	Application of Different Low-Reynolds $k-\epsilon$ Turbulence Models to Model the Flow of Concentrated Pulp Suspensions in Pipes. <i>Procedia Engineering</i> , 2015, 102, 1326-1335.	1.2	14
24	Modeling the Turbulent Flow of Pulp Suspensions. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 9735-9742.	3.7	13
25	Electrical Tomography: A Review of Configurations, and Application to Fibre Flow Suspensions Characterisation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2355.	2.5	13
26	An experimental design methodology to evaluate the importance of different parameters on flocculation by polyelectrolytes. <i>Powder Technology</i> , 2013, 238, 2-13.	4.2	12
27	Flocculation by cationic polyelectrolytes: Relating efficiency with polyelectrolyte characteristics. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3603-3612.	2.6	11
28	Solution viscosity and flocculation characteristics of linear polymeric flocculants in various media. <i>Chemical Engineering Research and Design</i> , 2011, 89, 1037-1044.	5.6	10
29	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. <i>Journal of Computational Multiphase Flows</i> , 2015, 7, 241-257.	0.8	10
30	Validating dilute settling suspensions numerical data through MRI, UVP and EIT measurements. <i>Flow Measurement and Instrumentation</i> , 2016, 50, 35-48.	2.0	10
31	Synthesis of N-Octyl Oleate with Lipase from <i>Mucor miehei</i> Immobilized onto Polyethylene Based Graft Copolymers. <i>Biocatalysis</i> , 1994, 9, 157-167.	0.9	9
32	CFD simulation of a turbulent fiber suspension flow â€” a modified near-wall treatment. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015, 9, 233-246.	3.1	6
33	Experimental Study and Computational Fluid Dynamics Modeling of Pulp Suspensions Flow in a Pipe. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017, 139, .	1.5	5
34	Evaluation of Polyelectrolyte Performance on PCC Flocculation Using the LDS Technique. <i>Particulate Science and Technology</i> , 2010, 28, 426-441.	2.1	4
35	Evaluation of the Performance of Dual Polyelectrolyte Systems on the Re-Flocculation Ability of Calcium Carbonate Aggregates in Turbulent Environment. <i>Polymers</i> , 2016, 8, 174.	4.5	4
36	Modelling of concentrated fibre suspension pipe flow with low-Reynolds-number $k-\epsilon$ turbulence models: new damping function. <i>Nordic Pulp and Paper Research Journal</i> , 2017, 32, 132-147.	0.7	3

#	ARTICLE	IF	CITATIONS
37	Effect of aot concentration on the colorimetric determination of free fatty acids in a reverse micellar system. <i>Biotechnology Letters</i> , 1992, 6, 131-132.	0.5	2
38	Correlating Aggregates Structure with PEL Characteristics Using an Experimental Design Methodology. <i>Procedia Engineering</i> , 2015, 102, 1697-1706.	1.2	2
39	Computational Fluid Dynamic Modelling of Fully-Suspended Slurry Flows in Horizontal Pipes with Different Solids Concentrations. <i>KONA Powder and Particle Journal</i> , 2023, 40, 219-235.	1.7	0