

Elena de la Fuente González

List of Publications by Year in descending order

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53
papers

2,211
citations

236612

25
h-index

223531

46
g-index

53
all docs

53
docs citations

53
times ranked

2278
citing authors

#	ARTICLE	IF	CITATIONS
1	Waste management from pulp and paper production in the European Union. <i>Waste Management</i> , 2009, 29, 293-308.	3.7	476
2	Aggregation and breakage kinetics of fresh cement paste. <i>Cement and Concrete Research</i> , 2013, 50, 1-10.	4.6	107
3	Eucalyptus pulp fibres as alternative reinforcement to engineered cement-based composites. <i>Industrial Crops and Products</i> , 2010, 31, 225-232.	2.5	96
4	Improvement of deinked old newspaper/old magazine pulp suspensions by means of nanofibrillated cellulose addition. <i>Cellulose</i> , 2015, 22, 789-802.	2.4	88
5	Industrial Application of Nanocelluloses in Papermaking: A Review of Challenges, Technical Solutions, and Market Perspectives. <i>Molecules</i> , 2020, 25, 526.	1.7	86
6	Polyacrylamide induced flocculation of a cement suspension. <i>Chemical Engineering Science</i> , 2006, 61, 2522-2532.	1.9	85
7	Nanocelluloses: Natural-Based Materials for Fiber-Reinforced Cement Composites. A Critical Review. <i>Polymers</i> , 2019, 11, 518.	2.0	82
8	Use of cellulose fibers from hemp core in fiber-cement production. Effect on flocculation, retention, drainage and product properties. <i>Industrial Crops and Products</i> , 2012, 39, 89-96.	2.5	71
9	Enzymatic approaches in paper industry for pulp refining and biofilm control. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 327-344.	1.7	62
10	Corn stalk from agricultural residue used as reinforcement fiber in fiber-cement production. <i>Industrial Crops and Products</i> , 2013, 43, 832-839.	2.5	58
11	Peer Reviewed: The Challenges of Sustainable Papermaking. <i>Environmental Science & Technology</i> , 2004, 38, 414A-420A.	4.6	56
12	Effect of Shearing Forces and Flocculant Overdose on Filler Flocculation Mechanisms and Floc Properties. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 9105-9112.	1.8	56
13	Assessing the influence of refining, bleaching and TEMPO-mediated oxidation on the production of more sustainable cellulose nanofibers and their application as paper additives. <i>Industrial Crops and Products</i> , 2017, 97, 374-387.	2.5	55
14	Phenomenological kinetic model of the synthesis of glycerol carbonate assisted by focused beam reflectance measurements. <i>Chemical Engineering Journal</i> , 2015, 260, 434-443.	6.6	52
15	Effect of polyelectrolyte morphology and adsorption on the mechanism of nanocellulose flocculation. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 158-167.	5.0	44
16	Flocculation, Retention and Drainage in Papermaking: A Comparative Study of Polymeric Additives. <i>Canadian Journal of Chemical Engineering</i> , 2007, 85, 240-248.	0.9	43
17	Synergies between cellulose nanofibers and retention additives to improve recycled paper properties and the drainage process. <i>Cellulose</i> , 2017, 24, 2987-3000.	2.4	43
18	pH and Particle Structure Effects on Silica Removal by Coagulation. <i>Chemical Engineering and Technology</i> , 2012, 35, 1632-1640.	0.9	42

#	ARTICLE	IF	CITATIONS
19	Influence of flocculant molecular weight and anionic charge on flocculation behaviour and on the manufacture of fibre cement composites by the Hatschek process. <i>Cement and Concrete Research</i> , 2005, 35, 2095-2103.	4.6	41
20	Effect of fibre morphology on flocculation of fibre-cement suspensions. <i>Cement and Concrete Research</i> , 2009, 39, 1017-1022.	4.6	37
21	Flocculation mechanism induced by phenolic resin/PEO and floc properties. <i>AIChE Journal</i> , 2005, 51, 1022-1031.	1.8	34
22	Polymeric Branched Flocculant Effect on the Flocculation Process of Pulp Suspensions in the Papermaking Industry. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 4826-4836.	1.8	34
23	Valorization of Corn Stalk by the Production of Cellulose Nanofibers to Improve Recycled Paper Properties. <i>BioResources</i> , 2016, 11, .	0.5	31
24	Cellulose nanofibers and chitosan to remove flexographic inks from wastewaters. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1558-1567.	1.2	30
25	Interactions between cellulose nanofibers and retention systems in flocculation of recycled fibers. <i>Cellulose</i> , 2017, 24, 677-692.	2.4	28
26	Esterification of glycerol and ibuprofen in solventless media catalyzed by free CALB: Kinetic modelling. <i>Biochemical Engineering Journal</i> , 2015, 101, 228-236.	1.8	25
27	Cellulose nanofibers from residues to improve linting and mechanical properties of recycled paper. <i>Cellulose</i> , 2018, 25, 1339-1351.	2.4	25
28	Effect of sepiolite on the flocculation of suspensions of fibre-reinforced cement. <i>Cement and Concrete Research</i> , 2010, 40, 1524-1530.	4.6	24
29	Experimental and modelling approach to the catalytic coproduction of glycerol carbonate and ethylene glycol as a means to valorise glycerol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 89-100.	2.7	22
30	Application of cellulose nanofibers to remove water-based flexographic inks from wastewaters. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5049-5059.	2.7	22
31	Study of Filler Flocculation Mechanisms and Floc Properties Induced by Polyethylenimine. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 5616-5621.	1.8	21
32	Effects of flocculants and sizing agents on bending strength of fiber cement composites. <i>Cement and Concrete Research</i> , 2005, 35, 2104-2109.	4.6	20
33	Separation of Contaminants from Deinking Process Water by Dissolved Air Flotation: Effect of Flocculant Charge Density. <i>Separation Science and Technology</i> , 2008, 43, 3732-3754.	1.3	20
34	Microfibrillated cellulose as a model for soft colloid flocculation with polyelectrolytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 516, 325-335.	2.3	20
35	Optimal use of flocculants on the manufacture of fibre cement materials by the Hatschek process. <i>Construction and Building Materials</i> , 2010, 24, 158-164.	3.2	16
36	Sustainable joint solventless coproduction of glycerol carbonate and ethylene glycol via thermal transesterification of glycerol. <i>RSC Advances</i> , 2014, 4, 53206-53215.	1.7	16

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37	NANOCELLULOSE AND ITS POTENTIAL USE FOR SUSTAINABLE INDUSTRIAL APPLICATIONS. Latin American Applied Research, 2020, 50, 59-64.	0.2	15
38	Monitoring of Dissolved Air Flotation by Focused Beam Reflectance Measurement. Industrial & Engineering Chemistry Research, 2006, 45, 7256-7263.	1.8	14
39	Recycled Fibers for Sustainable Hybrid Fiber Cement Based Material: A Review. Materials, 2021, 14, 2408.	1.3	14
40	Influence of Cationic Starch Adsorption on Fiber Flocculation. Chemical Engineering and Technology, 2009, 32, 1259-1265.	0.9	13
41	Influence of Water Quality on the Efficiency of Retention Aids Systems for the Paper Industry. Industrial & Engineering Chemistry Research, 2009, 48, 10247-10252.	1.8	13
42	Rotor selection for a Searle-type device to study the rheology of paper pulp suspensions. Chemical Engineering and Processing: Process Intensification, 2007, 46, 37-44.	1.8	12
43	Effect of sepiolite on retention and drainage of suspensions of fiber-reinforced cement. Construction and Building Materials, 2010, 24, 2117-2123.	3.2	12
44	Evaluation of an Alternative Flocculation System for Manufacture of Fiber-reinforced Cement Composites. Industrial & Engineering Chemistry Research, 2006, 45, 6672-6678.	1.8	11
45	Micro- and Nanofibrillated Cellulose from Annual Plant-Sourced Fibers: Comparison between Enzymatic Hydrolysis and Mechanical Refining. Nanomaterials, 2022, 12, 1612.	1.9	11
46	New Tool To Monitor Biofilm Growth in Industrial Process Waters. Industrial & Engineering Chemistry Research, 2011, 50, 5766-5773.	1.8	8
47	Learning by doing: Chem-E-Car® motivating experience. Education for Chemical Engineers, 2019, 26, 24-29.	2.8	8
48	Effect of sepiolite addition on fibre-cement based on MgO-SiO ₂ systems. Cement and Concrete Research, 2019, 124, 105816.	4.6	4
49	Fiber reinforced cement based composites. , 2021, , 597-648.		4
50	Evaluation of a flocculation dual system as a novel alternative for fiber-cement manufacture: Effect on product strength. Chemical Engineering and Processing: Process Intensification, 2008, 47, 755-760.	1.8	3
51	Effect of chemical flocculation mechanisms on rheology of fibre pulp suspensions. Nordic Pulp and Paper Research Journal, 2006, 21, 336-341.	0.3	1
52	Hatschek process as a way to valorize agricultural wastes. , 2017, , 267-290.		0
53	Effect of Sepiolite on Mechanical and Physical Properties of Fiber Cement. ACI Materials Journal, 2014, 111, .	0.3	0