

Joan Llorens

List of Publications by Year in descending order

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112
papers

2,904
citations

147801

31
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197818

49
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115
all docs

115
docs citations

115
times ranked

3187
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating best available technique for CO ₂ chemical absorption: solvent selection based on empirical surrogate model and exergy loss. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 333-350.	4.1	2
2	Effect of ultrasonication on waste activated sludge rheological properties and process economics. <i>Water Research</i> , 2022, 208, 117855.	11.3	13
3	Impact of a new functionalization of multiwalled carbon nanotubes on antifouling and permeability of PVDF nanocomposite membranes for dye wastewater treatment. <i>Chemosphere</i> , 2022, 294, 133699.	8.2	66
4	Experimental Behavior of Thin-Tile Masonry under Uniaxial Compression. Multi-Leaf Case Study. <i>Materials</i> , 2021, 14, 2785.	2.9	2
5	Vanillin production from lignin: Rigorous process simulation results for ethyl acetate versus aliphatic-alcohol-specific process designs. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100133.	4.0	3
6	Bioethanol dehydration and mixing by heterogeneous azeotropic distillation. <i>Journal of Cleaner Production</i> , 2021, 320, 128810.	9.3	12
7	Experimental Behavior of Brick Masonry under Uniaxial Compression on Parallel-to-Face Brick. Single-Leaf Case Study. <i>International Journal of Architectural Heritage</i> , 2020, 14, 23-37.	3.1	4
8	Experimental study on the vertical interface of thin-tile masonry. <i>Construction and Building Materials</i> , 2020, 261, 119976.	7.2	5
9	Influence of chemical speciation on the separation of metal ions from chelating agents by nanofiltration membranes. <i>Separation Science and Technology</i> , 2019, 54, 143-152.	2.5	6
10	On the Path to a New Generation of Cement-Based Composites through the Use of Lignocellulosic Micro/Nanofibers. <i>Materials</i> , 2019, 12, 1584.	2.9	6
11	Pressure selection for non-reactive and reactive pressure-swing distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 135, 9-21.	3.6	13
12	Distillation Sequence Efficiency (DSE) for Suitable Liquid-Liquid Extraction Solvents: Acetic Acid Extraction with TOA. <i>Computer Aided Chemical Engineering</i> , 2017, , 397-402.	0.5	3
13	Software Tool for Computing and Visualization of Enhanced Residue Curve Maps. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 199-204.	0.5	1
14	Computational Fluid Dynamics (CFD) Simulation of Fuel Gas and Steam Mixtures to Decrease NO _x Emissions of Industrial Burners. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 565-570.	0.5	2
15	Distillation Sequence Efficiency (DSE) Applied to Trains of Columns with Recycle Streams. <i>Computer Aided Chemical Engineering</i> , 2017, , 751-756.	0.5	1
16	Enhanced Distillation Based on Feed Impurities. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1923-1928.	0.5	1
17	Distillation Energy Assessment for Solvent Recovery from Carbon Dioxide Absorption. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1917-1922.	0.5	3
18	Effect of Hydrodynamic Forces on meso-(4-sulfonatophenyl)-substituted Porphyrin Aggregate Nanoparticles: Elasticity, Plasticity and Breaking. <i>Chemistry - A European Journal</i> , 2016, 22, 9740-9749.	3.3	37

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19	Ultrasound, thermal and alkali treatments affect extracellular polymeric substances (EPSs) and improve waste activated sludge dewatering. <i>Process Biochemistry</i> , 2015, 50, 438-446.	3.7	73
20	Fast solvent screening for counter-current liquid-liquid extraction columns. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 1227-1238.	4.1	8
21	Preliminary technical feasibility analysis of carbon dioxide absorption by ecological residual solvents rich in ammonia to be used in fertigation. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 1313-1321.	4.1	7
22	Shortcut assessment of alternative distillation sequence schemes for process intensification. <i>Computers and Chemical Engineering</i> , 2015, 83, 58-71.	3.8	9
23	Structural model to study the influence of thermal treatment on the thixotropic behaviour of waste activated sludge. <i>Chemical Engineering Journal</i> , 2015, 262, 242-249.	12.7	27
24	Process intensification in biodiesel production with energy reduction by pinch analysis. <i>Energy</i> , 2015, 79, 273-287.	8.8	17
25	Advantages of Process Integration Evaluated by Gibbs Energy: Biodiesel Synthesis Case. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 1627-1632.	0.5	1
26	Yield and kinetic constants estimation in the production of hydroxy fatty acids from oleic acid in a bioreactor by <i>Pseudomonas aeruginosa</i> 42A2. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9609-9621.	3.6	12
27	Simple Equation for Suitability of Heat Pump Use in Distillation. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 1327-1332.	0.5	81
28	Seawater disinfection by chlorine dioxide and sodium hypochlorite. A comparison of biofilm formation. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	20
29	Effect of ultrasound, thermal and alkali treatments on the rheological profile and water distribution of waste activated sludge. <i>Chemical Engineering Journal</i> , 2014, 255, 14-22.	12.7	58
30	Effect of ultrasound, low-temperature thermal and alkali pre-treatments on waste activated sludge rheology, hygienization and methane potential. <i>Water Research</i> , 2014, 61, 119-129.	11.3	101
31	Comparison of DMF and UF pre-treatments for particulate material and dissolved organic matter removal in SWRO desalination. <i>Desalination</i> , 2013, 322, 144-150.	8.2	41
32	Study of Seawater Biofiltration by Measuring Adenosine Triphosphate (ATP) and Turbidity. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	2
33	Dewaterability of sewage sludge by ultrasonic, thermal and chemical treatments. <i>Chemical Engineering Journal</i> , 2013, 230, 102-110.	12.7	126
34	Permeation of organic solutes in water-ethanol mixtures with nanofiltration membranes. <i>Desalination</i> , 2013, 315, 83-90.	8.2	18
35	Effects of inorganic nitrogen (NH ₄ Cl) and biodegradable organic carbon (CH ₃ COONa) additions on a pilot-scale seawater biofilter. <i>Chemosphere</i> , 2013, 91, 1297-1303.	8.2	0
36	Biological activity in expanded clay (EC) and granulated activated carbon (GAC) seawater filters. <i>Desalination</i> , 2013, 328, 67-73.	8.2	8

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37	Minimum number of transfer units and reboiler duty for multicomponent distillation columns. <i>Applied Thermal Engineering</i> , 2013, 61, 67-79.	6.0	11
38	Study on the removal of biodegradable NOM from seawater using biofiltration. <i>Desalination</i> , 2013, 316, 8-16.	8.2	21
39	NOM characterization by LC-OCD in a SWRO desalination line. <i>Desalination and Water Treatment</i> , 2013, 51, 1776-1780.	1.0	30
40	Characterization of natural organic matter from Mediterranean coastal seawater. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2013, 62, 42-51.	1.4	32
41	Effect of pH and Salt Concentration on the Nanofiltration of Glycine and Triglycine. <i>Procedia Engineering</i> , 2012, 44, 585-587.	1.2	2
42	Nanofiltration of Fatty Acids and Triglycerides. <i>Procedia Engineering</i> , 2012, 44, 1234-1236.	1.2	0
43	Improvement of the analysis of the biochemical oxygen demand (BOD) of Mediterranean seawater by seeding control. <i>Talanta</i> , 2011, 85, 527-532.	5.5	27
44	Study of Cr(III) desorption process from a water-soluble polymer by ultrafiltration. <i>Desalination</i> , 2011, 281, 165-171.	8.2	10
45	Flow Effects in Supramolecular Chirality. <i>Israel Journal of Chemistry</i> , 2011, 51, 1007-1016.	2.3	23
46	Chirality generated by flows in pseudocyanine dye aggregates: Revisiting 40 years old reports. <i>Chirality</i> , 2011, 23, 585-592.	2.6	22
47	Experimental and modeling study of the adsorption of single and binary dye solutions with an ion-exchange membrane adsorber. <i>Chemical Engineering Journal</i> , 2011, 166, 536-543.	12.7	94
48	Emergence of Supramolecular Chirality by Flows. <i>ChemPhysChem</i> , 2010, 11, 3511-3516.	2.1	66
49	Effect of ultrasonic waves on the rheological features of secondary sludge. <i>Biochemical Engineering Journal</i> , 2010, 52, 131-136.	3.6	35
50	Evaluation of confinement effects in zeolites under Henry's adsorption regime. <i>Applied Surface Science</i> , 2010, 256, 5305-5310.	6.1	12
51	High-density YSZ tapes fabricated via the multi-folding lamination process. <i>Ceramics International</i> , 2009, 35, 1219-1226.	4.8	13
52	Surface charge and rheological properties of raw porcelain gres suspension with acrylic copolymers bearing carboxylic groups. <i>Journal of the European Ceramic Society</i> , 2009, 29, 559-564.	5.7	11
53	Modeling of the dynamic adsorption of an anionic dye through ion-exchange membrane adsorber. <i>Journal of Membrane Science</i> , 2009, 340, 234-240.	8.2	86
54	Separation of metal ions and chelating agents by nanofiltration. <i>Journal of Membrane Science</i> , 2009, 345, 31-35.	8.2	27

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55	Influence of coion and counterion size on multi-ionic solution nanofiltration. <i>Journal of Membrane Science</i> , 2009, 345, 298-304.	8.2	16
56	A thermodynamic analysis of gas adsorption on microporous materials: Evaluation of energy heterogeneity. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 302-311.	9.4	15
57	Technical and economical feasibility of zeolite NaA membrane-based reactors in liquid-phase etherification reactions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1072-1079.	3.6	22
58	Influence of surface heterogeneity on hydrogen adsorption on activated carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 350, 63-72.	4.7	18
59	Separation of phosphoric acid from an industrial rinsing water by means of nanofiltration. <i>Desalination</i> , 2009, 243, 218-228.	8.2	37
60	Feasibility study on the recovery of chromium (III) by polymer enhanced ultrafiltration. <i>Desalination</i> , 2009, 249, 577-581.	8.2	65
61	Reversible Mechanical Induction of Optical Activity in Solutions of Soft Matter Nanophases. <i>Chemistry - an Asian Journal</i> , 2009, 4, 1687-1696.	3.3	34
62	Stabilization of raw porcelain gres suspensions with sodium naphthalene sulfonate formaldehyde condensates. <i>Applied Clay Science</i> , 2009, 42, 473-477.	5.2	7
63	Membrane separation technology for the reduction of alcoholic degree of a white model wine. <i>LWT - Food Science and Technology</i> , 2009, 42, 1390-1395.	5.2	63
64	Preparation of inner-side tubular zeolite NaA membranes in a continuous flow system. <i>Separation and Purification Technology</i> , 2008, 59, 141-150.	7.9	46
65	Nanofiltration of biogenic amines in acidic conditions: Influence of operation variables and modeling. <i>Journal of Membrane Science</i> , 2008, 310, 594-601.	8.2	8
66	Influence of pH and operation variables on biogenic amines nanofiltration. <i>Separation and Purification Technology</i> , 2008, 58, 424-428.	7.9	16
67	Effect of aging time on the rheology of Laponite dispersions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 329, 1-6.	4.7	18
68	Wool scouring waste treatment by a combination of coagulation-flocculation process and membrane separation technology. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 1061-1068.	3.6	18
69	On a rapid method to characterize intercrystalline defects in zeolite membranes using pervaporation data. <i>Chemical Engineering Science</i> , 2008, 63, 2367-2377.	3.8	14
70	Modeling Pervaporation of Ethanol/Water Mixtures within 'Real' Zeolite NaA Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3213-3224.	3.7	47
71	Rheology changes of Laponite aqueous dispersions due to the addition of sodium polyacrylates of different molecular weights. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 301, 8-15.	4.7	37
72	Poly 3-(hydroxyalkanoates) produced from oily substrates by <i>Pseudomonas aeruginosa</i> 47T2 (NCBIM) Tj ETQq0 0 0 rgBT /Overlock 10 T <i>Engineering Journal</i> , 2007, 35, 99-106.	3.6	88

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73	Understanding of naphthalene sulfonate formaldehyde condensates as a dispersing agent to stabilise raw porcelain gres suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 299, 180-185.	4.7	15
74	Study of the dissolution of dealuminated kaolin in sodium-potassium hydroxide during the gel formation step in zeolite X synthesis. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 302-311.	4.4	36
75	Characterization of meso- and macroporous ceramic membranes in terms of flux measurement: A moment-based analysis. <i>Journal of Membrane Science</i> , 2007, 302, 218-234.	8.2	5
76	Rheological characterization of the gel point in sol-gel transition. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2220-2225.	3.1	27
77	Poly(3-hydroxyalkanoate) produced from <i>Pseudomonas aeruginosa</i> 42A2 (NCBIM 40045): Effect of fatty acid nature as nutrient. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2259-2263.	3.1	9
78	Description of the pervaporation dehydration performance of A-type zeolite membranes: A modeling approach based on the Maxwell-Stefan theory. <i>Catalysis Today</i> , 2006, 118, 73-84.	4.4	55
79	Simulation of a continuous metal separation process by polymer enhanced ultrafiltration. <i>Journal of Membrane Science</i> , 2006, 268, 37-47.	8.2	27
80	A structural model for thixotropy of colloidal dispersions. <i>Rheologica Acta</i> , 2006, 45, 305-314.	2.4	40
81	Preparation of inner-side tubular zeolite NaA membranes in a semi-continuous synthesis system. <i>Journal of Membrane Science</i> , 2006, 278, 401-409.	8.2	53
82	A simple model to describe the thixotropic behavior of paints. <i>Progress in Organic Coatings</i> , 2006, 57, 229-235.	3.9	31
83	Influence of sodium polyacrylate on the rheology of aqueous Laponite dispersions. <i>Journal of Colloid and Interface Science</i> , 2005, 289, 86-93.	9.4	51
84	Improvement of the deflocculating power of polyacrylates in ceramic slips by small additions of quaternary ammonium salts. <i>Powder Technology</i> , 2005, 155, 181-186.	4.2	13
85	Preparation of zeolite NaA membranes on the inner side of tubular supports by means of a controlled seeding technique. <i>Catalysis Today</i> , 2005, 104, 281-287.	4.4	77
86	Adsorption of some linear copolymers onto kaolin particles in concentrated suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 270-271, 291-295.	4.7	17
87	Agro-industrial oily wastes as substrates for PHA production by the new strain <i>Pseudomonas aeruginosa</i> NCIB 40045: Effect of culture conditions. <i>Biochemical Engineering Journal</i> , 2005, 26, 159-167.	3.6	143
88	Prediction of Polymer Molecular Weight Distribution from Rheology: Polydimethylsiloxane Blends. <i>Materials Science Forum</i> , 2005, 480-481, 281-286.	0.3	3
89	The effects of some polyelectrolyte chemical compositions on the rheological behaviour of kaolin suspensions. <i>Powder Technology</i> , 2004, 148, 43-47.	4.2	23
90	Separation of cadmium from aqueous streams by polymer enhanced ultrafiltration: a two-phase model for complexation binding. <i>Journal of Membrane Science</i> , 2004, 239, 173-181.	8.2	62

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91	Rheological model to predict the thixotropic behaviour of colloidal dispersions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 249, 123-126.	4.7	29
92	Rheology of Laponite colloidal dispersions modified by sodium polyacrylates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 249, 127-129.	4.7	17
93	Polydispersity index from linear viscoelastic data: unimodal and bimodal linear polymer melts. Polymer, 2003, 44, 1741-1750.	3.8	30
94	Viability of the Use of Polymer-Assisted Ultrafiltration for Continuous Water Softening. Separation Science and Technology, 2003, 38, 295-322.	2.5	6
95	Comparison of Polysulfone and Ceramic Membranes for the Separation of Phenol in Micellar-Enhanced Ultrafiltration. Journal of Colloid and Interface Science, 2002, 246, 157-163.	9.4	51
96	Two-phases model for calcium removal from aqueous solution by polymer enhanced ultrafiltration. Journal of Membrane Science, 2002, 204, 139-152.	8.2	20
97	Crystallization and properties of poly(ethylene terephthalate) copolymers containing 5-tert-butyl isophthalic units. Polymer, 2002, 43, 7529-7537.	3.8	13
98	Rheological properties of an apatitic bone cement during initial setting. Journal of Materials Science: Materials in Medicine, 2001, 12, 905-909.	3.6	41
99	Unimodal molecular weight distribution of commercial polymers from viscoelastic data. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1539-1546.	2.1	9
100	Nitrogen Sorption Studies of Silica Particles Obtained in Emulsion and Microemulsion Media. Journal of Colloid and Interface Science, 2000, 225, 291-298.	9.4	12
101	Seguimiento continuo del proceso de gelificación de alcóxidos de silicio y titanio mediante ensayos reológicos. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2000, 39, 717-724.	1.9	0
102	Determination of equilibrium distribution constants of phenol between surfactant micelles and water using ultrafiltering centrifuge tubes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 150, 229-245.	4.7	34
103	Rheological Gel Point Determinations in Silica and Titanium Based Sol-Gel Systems. , 1998, , 613-614.		4
104	Prediction of Molecular Weight Distribution from Rheology: Poly(Dimethylsiloxanes)s Blends. , 1998, , 326-327.		0
105	Relaxation Spectrum Evolution in Polymerization Reactions. , 1998, , 615-616.		0
106	Viscoelastic properties in the course of hydrolysis and condensation reactions of modified titanium alkoxides leading to gelation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 119, 57-65.	4.7	9
107	Molecular weight distributions from viscoelastic parameters in polymeric sols as the reaction proceeds. Journal of Non-Crystalline Solids, 1993, 162, 188-196.	3.1	3
108	Ceramic membranes from sol-gel technology. Journal of Non-Crystalline Solids, 1992, 147-148, 518-522.	3.1	13

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109	Rheology of alumina sols. Journal of Non-Crystalline Solids, 1992, 147-148, 690-694.	3.1	6
110	Discrimination of the effects of surfactants in gas absorption. Chemical Engineering Science, 1988, 43, 443-450.	3.8	31
111	Design of absorption columns in the presence of surfactants. Industrial & Engineering Chemistry Process Design and Development, 1986, 25, 305-307.	0.6	2
112	Mass and Volume efficient CO ₂ Removal and O ₂ Generation System. , 0, , .		0