Ismael Diaz

List of Publications by Year
in descending order

67 papers	1,512 citations	361296 20 h-index	345118 36 g-index
67 all docs	67 docs citations	67 times ranked	1448 citing authors

#	Article	IF	Citations
1	An integrated approach for sustainable valorization of winery wastewater using bio-based solvents for recovery of natural antioxidants. Journal of Cleaner Production, 2022, 334, 130181.	4.6	19
2	Assessment of bio-ionic liquids as promising solvents in industrial separation processes: Computational screening using COSMO-RS method. Fluid Phase Equilibria, 2022, 560, 113495.	1.4	10
3	A pathway to improve detoxification processes by selective extraction of phenols and sugars from aqueous media using sustainable solvents. Separation and Purification Technology, 2022, 299, 121675.	3.9	5
4	Hydrophobic eutectic solvents for extraction of natural phenolic antioxidants from winery wastewater. Separation and Purification Technology, 2021, 254, 117590.	3.9	41
5	Sustainable Recovery of High Added-Value Vanilla Compounds from Wastewater Using Green Solvents. ACS Sustainable Chemistry and Engineering, 2021, 9, 4850-4862.	3.2	18
6	Sustainability footprints of a renewable carbon transition for the petrochemical sector within planetary boundaries. One Earth, 2021, 4, 565-583.	3.6	87
7	Separation of low molecular weight alcohols from water with deep eutectic solvents: Liquid-liquid equilibria and process simulations. Fluid Phase Equilibria, 2021, 533, 112949.	1.4	12
8	Green solvent screening using modeling and simulation. Current Opinion in Green and Sustainable Chemistry, 2021, 29, 100469.	3.2	21
9	Evaluation of bio-based solvents for phenolic acids extraction from aqueous matrices. Journal of Molecular Liquids, 2021, 338, 116930.	2.3	17
10	Comparative Study of Surrogate Modelling Techniques Applied to Three Different Chemical Processes. Computer Aided Chemical Engineering, 2020, , 145-150.	0.3	1
11	Motivational Active Learning in Chemical Engineering. Computer Aided Chemical Engineering, 2020, , 2017-2022.	0.3	3
12	Overview of neoteric solvents as extractants in food industry: A focus on phenolic compounds separation from liquid streams. Food Research International, 2020, 136, 109558.	2.9	43
13	Valorization of citrus waste through sustainable extraction processes. , 2020, , 113-133.		4
14	Enhancing aqueous systems fermentability using hydrophobic eutectic solvents as extractans of inhibitory compounds. Separation and Purification Technology, 2020, 250, 117184.	3.9	20
15	Role of the cation on the liquid extraction of levulinic acid from water using NTf2-based ionic liquids: Experimental data and computational analysis. Journal of Molecular Liquids, 2020, 302, 112561.	2.3	6
16	Role of life-cycle externalities in the valuation of protic ionic liquids â€" a case study in biomass pretreatment solvents. Green Chemistry, 2020, 22, 3132-3140.	4.6	76
17	Catching the Attention of Generation Z Chemical Engineering Students for Particle Technology. Journal of Formative Design in Learning, 2019, 3, 146-157.	0.7	4
18	Reprint of: Motivational active learning: An integrated approach to teaching and learning process control. Education for Chemical Engineers, 2019, 26, 8-13.	2.8	14

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19	A simple and reliable procedure to accurately estimate NRTL interaction parameters from liquid-liquid equilibrium data. Chemical Engineering Science, 2019, 193, 370-378.	1.9	17
20	Automating HAZOP studies using D-higraphs. Computer Aided Chemical Engineering, 2019, 46, 553-558.	0.3	0
21	On the behavior of imidazolium versus pyrrolidinium ionic liquids as extractants of phenolic compounds from water: Experimental and computational analysis. Separation and Purification Technology, 2018, 201, 214-222.	3.9	55
22	Enterprise Ionic Liquids Database (ILUAM) for Use in Aspen ONE Programs Suite with COSMO-Based Property Methods. Industrial & Engineering Chemistry Research, 2018, 57, 980-989.	1.8	71
23	Active Learning of Process Control. Computer Aided Chemical Engineering, 2018, 43, 1693-1698.	0.3	0
24	COSMO-derived descriptors applied in ionic liquids physical property modelling using machine learning algorithms. Computer Aided Chemical Engineering, 2018, 43, 121-126.	0.3	4
25	Motivational active learning: An integrated approach to teaching and learning process control. Education for Chemical Engineers, 2018, 24, 7-12.	2.8	38
26	Model transformations and integration for process plant simulation, optimization and visualization. Computer Aided Chemical Engineering, 2018, 43, 285-286.	0.3	1
27	Control strategy for the Super Heat Integrated Distillation Column. Computer Aided Chemical Engineering, 2018, , 1257.	0.3	1
28	Mutual Solubility of Aromatic Hydrocarbons in Pyrrolidinium and Ammonium-Based Ionic Liquids and Its Modeling Using the Cubic-Plus-Association (CPA) Equation of State. Journal of Chemical & Engineering Data, 2017, 62, 633-642.	1.0	9
29	Hansen solubility parameter: from polyethylene and poly(vinyl acetate) homopolymers to ethylene–vinyl acetate copolymers. Polymer International, 2017, 66, 1013-1020.	1.6	16
30	Ionic liquids for post-combustion CO_2 capture by physical absorption: Thermodynamic, kinetic and process analysis. International Journal of Greenhouse Gas Control, 2017, 61, 61-70.	2.3	103
31	PC-SAFT thermodynamics of EVA copolymer – Solvent systems. Fluid Phase Equilibria, 2017, 449, 10-17.	1.4	6
32	A control strategy for extractive and reactive dividing wall columns. Chemical Engineering and Processing: Process Intensification, 2017, 113, 14-19.	1.8	19
33	Selection of a minimum toxicity and high performance ionic liquid mixture for the separation of aromatic - aliphatic mixtures by extractive distillation. Computer Aided Chemical Engineering, 2017, 40, 2209-2214.	0.3	7
34	Integral Management of Process Plants Systems through their Lifecycle using a Model-Based Engineering Approach. Computer Aided Chemical Engineering, 2017, , 2035-2040.	0.3	0
35	Ionic Liquids Role in Multifeedstock / Multiproduct Integrated Biorefineries. Computer Aided Chemical Engineering, 2016, 38, 1219-1224.	0.3	0
36	Model Based Engineering of Process Plants using SysML. Computer Aided Chemical Engineering, 2016, 38, 1281-1286.	0.3	4

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37	Ionic liquids as entrainers for the separation of aromatic–aliphatic hydrocarbon mixtures by extractive distillation. Chemical Engineering Research and Design, 2016, 115, 382-393.	2.7	62
38	System theory based hazard analysis applied to the process industry. International Journal of Reliability and Safety, 2016, 10, 72.	0.2	7
39	A systematic and integral hazards analysis technique applied to the process industry. Journal of Loss Prevention in the Process Industries, 2016, 43, 721-729.	1.7	24
40	Aspen Plus supported conceptual design of the aromatic–aliphatic separation from low aromatic content naphtha using 4-methyl-N-butylpyridinium tetrafluoroborate ionic liquid. Fuel Processing Technology, 2016, 146, 29-38.	3.7	67
41	Job insecurity and job satisfaction. Career Development International, 2014, 19, 426-446.	1.3	31
42	A New Functional Systems Theory based Methodology for Process Hazards Analysis. Computer Aided Chemical Engineering, 2014, 33, 703-708.	0.3	3
43	Turbidimetric and intrinsic viscosity study of EVA copolymer–solvent systems. Polymer Bulletin, 2014, 71, 193-206.	1.7	15
44	On-line Fault Diagnosis by Combining Functional and Dynamic Modelling of Chemical Plants. Computer Aided Chemical Engineering, 2014, 33, 679-684.	0.3	0
45	Thermodynamic interactions of EVA copolymer–solvent systems by inverse gas chromatography measurements. Journal of Applied Polymer Science, 2013, 128, 481-486.	1.3	14
46	Industrial Methanol from Syngas: Kinetic Study and Process Simulation. International Journal of Chemical Reactor Engineering, 2013, 11, 469-477.	0.6	34
47	Biomass pyrolysis kinetics through thermogravimetric analysis. Computer Aided Chemical Engineering, 2013, 32, 1-6.	0.3	7
48	Comparison between three predictive methods for the calculation of polymer solubility parameters. Fluid Phase Equilibria, 2013, 337, 6-10.	1.4	20
49	Employee alienation: relationships with careerism and career satisfaction. Journal of Managerial Psychology, 2013, 28, 4-20.	1.3	55
50	It's Not Us, It's You: Why Isn't Research on Minority Workers Appearing in Our "Top-Tier" Journals?. Industrial and Organizational Psychology, 2013, 6, 70-75.	0.5	10
51	Fault-Tolerant Self-Reconfigurable Control System. Computer Aided Chemical Engineering, 2013, , 901-906.	0.3	3
52	Vapor–Liquid Equilibrium at p/kPa = 101.3 of the Binary Mixtures of Ethenyl Acetate with Methanol and Butan-1-ol. Journal of Chemical & Engineering Data, 2012, 57, 3198-3202.	1.0	3
53	Predictions of high pressure phase equilibria of CO_2-containing mixtures with the NRCOSMO model. Fluid Phase Equilibria, 2012, 313, 203-210.	1.4	1
54	Communication technology: Pros and cons of constant connection to work. Journal of Vocational Behavior, 2012, 80, 500-508.	1.9	199

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55	Understanding childcare satisfaction and its effect on workplace outcomes: The convenience factor and the mediating role of work–family conflict. Journal of Occupational and Organizational Psychology, 2012, 85, 225-244.	2.6	38
56	Does Psychological Contract Breach Decrease Proactive Behaviors? The Moderating Effect of Emotion Regulation. Group and Organization Management, 2011, 36, 722-758.	2.7	39
57	Social and economic exchanges with the organization: do leader behaviors matter?. Leadership and Organization Development Journal, 2011, 32, 442-461.	1.6	20
58	Polymer–solvent interaction parameters of SBS rubbers by inverse gas chromatography measurements. Fluid Phase Equilibria, 2011, 308, 107-113.	1.4	23
59	Effect of final products on the kinetics of 1-phenylethanol oxidation with air. Chemical Engineering Research and Design, 2011, 89, 2442-2447.	2.7	1
60	Bentonite as an Alternative Adsorbent for the Purification of Styrene Monomer: Adsorption Kinetics, Equilibrium and Process Design. Adsorption Science and Technology, 2010, 28, 101-123.	1.5	3
61	Thermodynamic interactions of three SBS (styrene–butadiene–styrene) triblock copolymers with different solvents, by means of intrinsic viscosity measurements. European Polymer Journal, 2010, 46, 2261-2268.	2.6	14
62	Purification process design in the production of styrene monomer. Chemical Engineering and Processing: Process Intensification, 2010, 49, 367-375.	1.8	9
63	Feasibility of 1,3-butanediol as solvent for limonene and linalool separation. Chemical Engineering and Processing: Process Intensification, 2010, 49, 1183-1187.	1.8	10
64	SEBS triblock copolymer–solvent interaction parameters from inverse gas chromatography measurements. European Polymer Journal, 2009, 45, 590-594.	2.6	25
65	Thermodynamic Modeling and Simulation of Styrene˜Butadiene Rubbers (SBR) Solvent Equilibrium Staged Processes. Industrial & Engineering Chemistry Research, 2009, 48, 7713-7723.	1.8	12
66	Evaluation of (vapor+liquid) equilibria for the binary systems (1-octanol+cyclohexane) and (1-octanol+n-hexane), at low alcohol compositions. Journal of Chemical Thermodynamics, 2008, 40, 1617-1620.	1.0	2
67	Isobaric Vapor˜Liquid Equilibrium for the Binary Systems 1-Pentanol + Cyclohexane and 1-Pentanol + <i>n</i>-Hexane at Low Alcohol Compositions. Journal of Chemical & Engineering Data, 2007, 52, 1984-1987.	1.0	9