

# Ismael Diaz

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Communication technology: Pros and cons of constant connection to work. <i>Journal of Vocational Behavior</i> , 2012, 80, 500-508.	1.9	199
2	Ionic liquids for post-combustion CO <sub>2</sub> capture by physical absorption: Thermodynamic, kinetic and process analysis. <i>International Journal of Greenhouse Gas Control</i> , 2017, 61, 61-70.	2.3	103
3	Sustainability footprints of a renewable carbon transition for the petrochemical sector within planetary boundaries. <i>One Earth</i> , 2021, 4, 565-583.	3.6	87
4	Role of life-cycle externalities in the valuation of protic ionic liquids – a case study in biomass pretreatment solvents. <i>Green Chemistry</i> , 2020, 22, 3132-3140.	4.6	76
5	Enterprise Ionic Liquids Database (ILUAM) for Use in Aspen ONE Programs Suite with COSMO-Based Property Methods. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 980-989.	1.8	71
6	Aspen Plus supported conceptual design of the aromatic–aliphatic separation from low aromatic content naphtha using 4-methyl-N-butylpyridinium tetrafluoroborate ionic liquid. <i>Fuel Processing Technology</i> , 2016, 146, 29-38.	3.7	67
7	Ionic liquids as entrainers for the separation of aromatic–aliphatic hydrocarbon mixtures by extractive distillation. <i>Chemical Engineering Research and Design</i> , 2016, 115, 382-393.	2.7	62
8	Employee alienation: relationships with careerism and career satisfaction. <i>Journal of Managerial Psychology</i> , 2013, 28, 4-20.	1.3	55
9	On the behavior of imidazolium versus pyrrolidinium ionic liquids as extractants of phenolic compounds from water: Experimental and computational analysis. <i>Separation and Purification Technology</i> , 2018, 201, 214-222.	3.9	55
10	Overview of neoteric solvents as extractants in food industry: A focus on phenolic compounds separation from liquid streams. <i>Food Research International</i> , 2020, 136, 109558.	2.9	43
11	Hydrophobic eutectic solvents for extraction of natural phenolic antioxidants from winery wastewater. <i>Separation and Purification Technology</i> , 2021, 254, 117590.	3.9	41
12	Does Psychological Contract Breach Decrease Proactive Behaviors? The Moderating Effect of Emotion Regulation. <i>Group and Organization Management</i> , 2011, 36, 722-758.	2.7	39
13	Understanding childcare satisfaction and its effect on workplace outcomes: The convenience factor and the mediating role of work–family conflict. <i>Journal of Occupational and Organizational Psychology</i> , 2012, 85, 225-244.	2.6	38
14	Motivational active learning: An integrated approach to teaching and learning process control. <i>Education for Chemical Engineers</i> , 2018, 24, 7-12.	2.8	38
15	Industrial Methanol from Syngas: Kinetic Study and Process Simulation. <i>International Journal of Chemical Reactor Engineering</i> , 2013, 11, 469-477.	0.6	34
16	Job insecurity and job satisfaction. <i>Career Development International</i> , 2014, 19, 426-446.	1.3	31
17	SEBS triblock copolymer–solvent interaction parameters from inverse gas chromatography measurements. <i>European Polymer Journal</i> , 2009, 45, 590-594.	2.6	25
18	A systematic and integral hazards analysis technique applied to the process industry. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 43, 721-729.	1.7	24

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19	Polymer-solvent interaction parameters of SBS rubbers by inverse gas chromatography measurements. <i>Fluid Phase Equilibria</i> , 2011, 308, 107-113.	1.4	23
20	Green solvent screening using modeling and simulation. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 29, 100469.	3.2	21
21	Social and economic exchanges with the organization: do leader behaviors matter?. <i>Leadership and Organization Development Journal</i> , 2011, 32, 442-461.	1.6	20
22	Comparison between three predictive methods for the calculation of polymer solubility parameters. <i>Fluid Phase Equilibria</i> , 2013, 337, 6-10.	1.4	20
23	Enhancing aqueous systems fermentability using hydrophobic eutectic solvents as extractants of inhibitory compounds. <i>Separation and Purification Technology</i> , 2020, 250, 117184.	3.9	20
24	A control strategy for extractive and reactive dividing wall columns. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 113, 14-19.	1.8	19
25	An integrated approach for sustainable valorization of winery wastewater using bio-based solvents for recovery of natural antioxidants. <i>Journal of Cleaner Production</i> , 2022, 334, 130181.	4.6	19
26	Sustainable Recovery of High Added-Value Vanilla Compounds from Wastewater Using Green Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4850-4862.	3.2	18
27	A simple and reliable procedure to accurately estimate NRTL interaction parameters from liquid-liquid equilibrium data. <i>Chemical Engineering Science</i> , 2019, 193, 370-378.	1.9	17
28	Evaluation of bio-based solvents for phenolic acids extraction from aqueous matrices. <i>Journal of Molecular Liquids</i> , 2021, 338, 116930.	2.3	17
29	Hansen solubility parameter: from polyethylene and poly(vinyl acetate) homopolymers to ethylene-vinyl acetate copolymers. <i>Polymer International</i> , 2017, 66, 1013-1020.	1.6	16
30	Turbidimetric and intrinsic viscosity study of EVA copolymer-solvent systems. <i>Polymer Bulletin</i> , 2014, 71, 193-206.	1.7	15
31	Thermodynamic interactions of three SBS (styrene-butadiene-styrene) triblock copolymers with different solvents, by means of intrinsic viscosity measurements. <i>European Polymer Journal</i> , 2010, 46, 2261-2268.	2.6	14
32	Thermodynamic interactions of EVA copolymer-solvent systems by inverse gas chromatography measurements. <i>Journal of Applied Polymer Science</i> , 2013, 128, 481-486.	1.3	14
33	Reprint of: Motivational active learning: An integrated approach to teaching and learning process control. <i>Education for Chemical Engineers</i> , 2019, 26, 8-13.	2.8	14
34	Thermodynamic Modeling and Simulation of Styrene-Butadiene Rubbers (SBR) Solvent Equilibrium Staged Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 7713-7723.	1.8	12
35	Separation of low molecular weight alcohols from water with deep eutectic solvents: Liquid-liquid equilibria and process simulations. <i>Fluid Phase Equilibria</i> , 2021, 533, 112949.	1.4	12
36	Feasibility of 1,3-butanediol as solvent for limonene and linalool separation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 1183-1187.	1.8	10

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37	It's Not Us, It's You: Why Isn't Research on Minority Workers Appearing in Our "Top-Tier" Journals?. <i>Industrial and Organizational Psychology</i> , 2013, 6, 70-75.	0.5	10
38	Assessment of bio-ionic liquids as promising solvents in industrial separation processes: Computational screening using COSMO-RS method. <i>Fluid Phase Equilibria</i> , 2022, 560, 113495.	1.4	10
39	Isobaric Vapor-Liquid Equilibrium for the Binary Systems 1-Pentanol + Cyclohexane and 1-Pentanol + n-Hexane at Low Alcohol Compositions. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 1984-1987.	1.0	9
40	Purification process design in the production of styrene monomer. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 367-375.	1.8	9
41	Mutual Solubility of Aromatic Hydrocarbons in Pyrrolidinium and Ammonium-Based Ionic Liquids and Its Modeling Using the Cubic-Plus-Association (CPA) Equation of State. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 633-642.	1.0	9
42	Biomass pyrolysis kinetics through thermogravimetric analysis. <i>Computer Aided Chemical Engineering</i> , 2013, 32, 1-6.	0.3	7
43	System theory based hazard analysis applied to the process industry. <i>International Journal of Reliability and Safety</i> , 2016, 10, 72.	0.2	7
44	Selection of a minimum toxicity and high performance ionic liquid mixture for the separation of aromatic - aliphatic mixtures by extractive distillation. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2209-2214.	0.3	7
45	PC-SAFT thermodynamics of EVA copolymer " Solvent systems. <i>Fluid Phase Equilibria</i> , 2017, 449, 10-17.	1.4	6
46	Role of the cation on the liquid extraction of levulinic acid from water using NTF2-based ionic liquids: Experimental data and computational analysis. <i>Journal of Molecular Liquids</i> , 2020, 302, 112561.	2.3	6
47	A pathway to improve detoxification processes by selective extraction of phenols and sugars from aqueous media using sustainable solvents. <i>Separation and Purification Technology</i> , 2022, 299, 121675.	3.9	5
48	Model Based Engineering of Process Plants using SysML. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 1281-1286.	0.3	4
49	COSMO-derived descriptors applied in ionic liquids physical property modelling using machine learning algorithms. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 121-126.	0.3	4
50	Catching the Attention of Generation Z Chemical Engineering Students for Particle Technology. <i>Journal of Formative Design in Learning</i> , 2019, 3, 146-157.	0.7	4
51	Valorization of citrus waste through sustainable extraction processes. , 2020, , 113-133.		4
52	Bentonite as an Alternative Adsorbent for the Purification of Styrene Monomer: Adsorption Kinetics, Equilibrium and Process Design. <i>Adsorption Science and Technology</i> , 2010, 28, 101-123.	1.5	3
53	Vapor-Liquid Equilibrium at p/kPa = 101.3 of the Binary Mixtures of Ethenyl Acetate with Methanol and Butan-1-ol. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 3198-3202.	1.0	3
54	A New Functional Systems Theory based Methodology for Process Hazards Analysis. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 703-708.	0.3	3

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55	Motivational Active Learning in Chemical Engineering. Computer Aided Chemical Engineering, 2020, , 2017-2022.	0.3	3
56	Fault-Tolerant Self-Reconfigurable Control System. Computer Aided Chemical Engineering, 2013, , 901-906.	0.3	3
57	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
58	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
59	Predictions of high pressure phase equilibria of CO2-containing mixtures with the NRCOSMO model. Fluid Phase Equilibria, 2012, 313, 203-210.	1.4	1
60	Comparative Study of Surrogate Modelling Techniques Applied to Three Different Chemical Processes. Computer Aided Chemical Engineering, 2020, , 145-150.	0.3	1
61	Model transformations and integration for process plant simulation, optimization and visualization. Computer Aided Chemical Engineering, 2018, 43, 285-286.	0.3	1
62	Control strategy for the Super Heat Integrated Distillation Column. Computer Aided Chemical Engineering, 2018, , 1257.	0.3	1
63	On-line Fault Diagnosis by Combining Functional and Dynamic Modelling of Chemical Plants. Computer Aided Chemical Engineering, 2014, 33, 679-684.	0.3	0
64	Ionic Liquids Role in Multifeedstock / Multiproduct Integrated Biorefineries. Computer Aided Chemical Engineering, 2016, 38, 1219-1224.	0.3	0
65	Active Learning of Process Control. Computer Aided Chemical Engineering, 2018, 43, 1693-1698.	0.3	0
66	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
67	Automating HAZOP studies using D-higraphs. Computer Aided Chemical Engineering, 2019, 46, 553-558.	0.3	0