

Silvio A B Vieira De Melo

List of Publications by Year in descending order

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62
papers

946
citations

430874

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526287

27
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64
all docs

64
docs citations

64
times ranked

1083
citing authors

#	ARTICLE	IF	CITATIONS
1	Torrefaction as a Pre-Treatment of Biomass: A Bibliometric Analysis. International Journal for Innovation Education and Research, 2021, 9, 289-313.	0.1	0
2	A Comparative Study of Biofuels and Fischer-Tropsch Diesel Blends on the Engine Combustion Performance for Reducing Exhaust Gaseous and Particulate Emissions. Energies, 2021, 14, 1538.	3.1	7
3	Valorization of Prosopis juliflora Woody Biomass in Northeast Brazilian through Dry Torrefaction. Energies, 2021, 14, 3465.	3.1	7
4	Fischer-Tropsch Diesel and Biofuels Exergy and Energy Analysis for Low Emissions Vehicles. Applied Sciences (Switzerland), 2021, 11, 5958.	2.5	4
5	Biopesticide Encapsulation Using Supercritical CO ₂ : A Comprehensive Review and Potential Applications. Molecules, 2021, 26, 4003.	3.8	10
6	Multicriteria Decision-Making System for Supplier Selection Considering Risk: A Computational Fuzzy AHP-Based Approach. IEEE Latin America Transactions, 2021, 19, 1564-1572.	1.6	15
7	Catalytic Properties and Recycling of NiFe ₂ O ₄ Catalyst for Hydrogen Production by Supercritical Water Gasification of Eucalyptus Wood Chips. Energies, 2020, 13, 4553.	3.1	17
8	Supply chain risk management modelling: A systematic literature network analysis review. IMA Journal of Management Mathematics, 2020, 31, 387-416.	1.6	9
9	Dispersion Polymerization of Methyl Methacrylate in Supercritical CO ₂ : A Preliminary Evaluation of In Situ Incorporation of Copaiba Oil. Industrial & Engineering Chemistry Research, 2020, 59, 9398-9407.	3.7	7
10	Decision-making models and support systems for supply chain risk: literature mapping and future research agenda. European Research on Management and Business Economics, 2020, 26, 63-70.	6.9	31
11	Bioactive compounds of Copaifera sp. impregnated into three-dimensional gelatin dressings. Drug Delivery and Translational Research, 2020, 10, 1537-1551.	5.8	4
12	Correlation and prediction of surface tension in single and mixed aqueous electrolyte solutions based on the mean ionic activity coefficient: A comparative analysis of Pitzer, E-NRTL and E-UNIQUAC models. Fluid Phase Equilibria, 2020, 516, 112618.	2.5	4
13	Catalytic supercritical water gasification of eucalyptus wood chips in a batch reactor. Fuel, 2019, 255, 115804.	6.4	31
14	A novel method to predict the risk of asphaltene precipitation due to CO ₂ displacement in oil reservoirs. Journal of Petroleum Science and Engineering, 2019, 176, 1008-1017.	4.2	7
15	A comparative study of CPA and PC-SAFT equations of state to calculate the asphaltene onset pressure and phase envelope. Fluid Phase Equilibria, 2019, 494, 74-92.	2.5	21
16	Dense CO ₂ technology: Overview of recent applications for drug processing/formulation/delivery. Chemical Engineering and Processing: Process Intensification, 2019, 140, 64-77.	3.6	17
17	Calculation of Bubble Pressure for Crude Oils: The Effect of q-Weibull Distribution for Splitting the Heavy Fraction. Journal of Chemical & Engineering Data, 2019, 64, 1885-1897.	1.9	1
18	Modeling the Saturation Pressure of Systems Containing Crude Oils and CO ₂ Using the SRK Equation of State. Journal of Chemical & Engineering Data, 2019, 64, 2134-2142.	1.9	3

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19	High pressure phase equilibrium data for carbon dioxide, methyl methacrylate and poly (dimethylsiloxane) systems. <i>Journal of Supercritical Fluids</i> , 2019, 143, 346-352.	3.2	10
20	Modeling of the Asphaltene Onset Pressure from Few Experimental Data: A Comparative Evaluation of the Hirschberg Method and the Cubic-Plus-Association Equation of State. <i>Energy & Fuels</i> , 2019, 33, 3733-3742.	5.1	14
21	Improvement of the Expanded Fluid Viscosity Model for Crude Oils: Effects of the Plus-Fraction Characterization Method and Density. <i>Energy & Fuels</i> , 2018, 32, 1624-1633.	5.1	10
22	Supercritical solvent impregnation/deposition of spilanthol-enriched extracts into a commercial collagen/cellulose-based wound dressing. <i>Journal of Supercritical Fluids</i> , 2018, 133, 503-511.	3.2	24
23	CHANGING ENERGY GEOPOLITICS: WHAT IS THE ROLE OF SUSTAINABILITY IN THE GLOBAL ENERGY GEOPOLITICS?. <i>Austral: Brazilian Journal of Strategy and International Relations</i> , 2018, 6, .	0.1	0
24	Copaiba oil-loaded commercial wound dressings using supercritical CO ₂ : A potential alternative topical antileishmanial treatment. <i>Journal of Supercritical Fluids</i> , 2017, 129, 106-115.	3.2	25
25	Evaluation and Improvement of Screening Methods Applied to Asphaltene Precipitation. <i>Energy & Fuels</i> , 2017, 31, 3380-3391.	5.1	22
26	High-Pressure Modeling of Asphaltene Precipitation during Oil Depletion Based on the Solid Model. <i>Energy & Fuels</i> , 2017, 31, 7911-7918.	5.1	3
27	Effect of scCO ₂ sorption capacity on the total amount of borage oil loaded by scCO ₂ impregnation/deposition into a polyurethane-based wound dressing. <i>Journal of Supercritical Fluids</i> , 2016, 115, 1-9.	3.2	9
28	Aerobic, Anaerobic Treatability and Biogas Production Potential of a Wastewater from a Biodiesel Industry. <i>Waste and Biomass Valorization</i> , 2016, 7, 691-702.	3.4	6
29	Assessment of the liquid mixture density effect on the prediction of supercritical carbon dioxide volume expansion of organic solvents by Peng-Robinson equation of state. <i>Fluid Phase Equilibria</i> , 2016, 425, 196-205.	2.5	8
30	Efficient encapsulation of proteins in submicro liposomes using a supercritical fluid assisted continuous process. <i>Journal of Supercritical Fluids</i> , 2016, 107, 163-169.	3.2	50
31	Curcumin-loaded solid lipid particles by PGSS technology. <i>Journal of Supercritical Fluids</i> , 2016, 107, 534-541.	3.2	32
32	Liposomes Size Engineering by Combination of Ethanol Injection and Supercritical Processing. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3842-3850.	3.3	26
33	Modeling failure rate of a robotic welding station using generalized q-distributions. <i>International Journal of Quality and Reliability Management</i> , 2015, 32, 156-166.	2.0	8
34	CO ₂ oil saturation pressure and onset asphaltene precipitation. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1697-1704.	1.7	2
35	Process integration for industrial water reuse: A case study from a Brazilian biodiesel commercial plant. <i>Revista Ibero-americana De Ciências Ambientais</i> , 2015, 6, 125-131.	0.1	0
36	Solubility and Solubility Modeling of Polycyclic Aromatic Hydrocarbons in Subcritical Ethanol and Water Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10238-10248.	3.7	15

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37	Modelling solubility of solid active principle ingredients in sc-CO ₂ with and without cosolvents: A comparative assessment of semiempirical models based on Chrastil's equation and its modifications. <i>Journal of Supercritical Fluids</i> , 2014, 93, 91-102.	3.2	15
38	Liposomes preparation using a supercritical fluid assisted continuous process. <i>Chemical Engineering Journal</i> , 2014, 249, 153-159.	12.7	73
39	Dense CO ₂ antisolvent precipitation of levothyroxine sodium: A comparative study of GAS and ARISE techniques based on morphology and particle size distributions. <i>Journal of Supercritical Fluids</i> , 2014, 93, 112-120.	3.2	23
40	Modeling high pressure vapor-liquid equilibrium of ternary systems containing supercritical CO ₂ and mixed organic solvents using Peng-Robinson equation of state. <i>Journal of Supercritical Fluids</i> , 2014, 93, 82-90.	3.2	10
41	A new approach to select solvents and operating conditions for supercritical antisolvent precipitation processes by using solubility parameter and group contribution methods. <i>Journal of Supercritical Fluids</i> , 2013, 81, 128-146.	3.2	20
42	Transesterification of waste frying oil using a zinc aluminate catalyst. <i>Fuel Processing Technology</i> , 2013, 106, 102-107.	7.2	46
43	Solubility and Solubility Modeling of Polycyclic Aromatic Hydrocarbons in Subcritical Water. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 5806-5814.	3.7	29
44	Generalized Weibull model and the bathtub curve. <i>International Journal of Quality and Reliability Management</i> , 2013, 30, 720-736.	2.0	20
45	Stress analysis using BEM as support for fatigue life prediction in the automotive industry. <i>International Journal of Vehicle Systems Modelling and Testing</i> , 2013, 8, 88.	0.1	2
46	Failure analysis and design of a front bumper using finite element method along with durability and rig tests. <i>International Journal of Vehicle Design</i> , 2012, 60, 71.	0.3	9
47	Transesterification of Waste Frying Oils Using ZnAl ₂ O ₄ as Heterogeneous Catalyst. <i>Procedia Engineering</i> , 2012, 42, 1928-1945.	1.2	32
48	Kinetics of Toluene Disproportionation: Modeling and Experiments. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 171-183.	3.7	8
49	Stress analysis of a front bumper fascia using the boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 1296-1300.	3.7	6
50	Modeling of solid-liquid equilibria for polyethylene and polypropylene solutions with equations of state. <i>Journal of Applied Polymer Science</i> , 2011, 121, 1832-1849.	2.6	14
51	Calculation of Pressure-Temperature Diagrams and Distance for Phase Transition in Polyethylene Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12242-12253.	3.7	9
52	Valuation of Clean Technology Projects: An Application of Real Options Theory. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 2079-2084.	0.5	1
53	Solid pure component property effects on modeling upper crossover pressure for supercritical fluid process synthesis: A case study for the separation of Annatto pigments using SC-CO ₂ . <i>Journal of Supercritical Fluids</i> , 2009, 49, 1-8.	3.2	22
54	Simulation of Flash Separation in Polyethylene Industrial Processing: Comparison of SRK and SL Equations of State. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8613-8628.	3.7	12

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55	Computational Aspects for Optimization of High Pressure Phase Equilibrium for Polymer Industrial Systems. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 405-410.	0.5	2
56	Prediction of vapor-liquid and liquid-liquid equilibria for polymer systems: Comparison of activity coefficient models. <i>Fluid Phase Equilibria</i> , 2008, 267, 140-149.	2.5	12
57	Extraction of caffeine, chlorogenic acids and lipids from green coffee beans using supercritical carbon dioxide and co-solvents. <i>Brazilian Journal of Chemical Engineering</i> , 2008, 25, 543-552.	1.3	62
58	Supercritical CO ₂ recovery of caffeine from green coffee oil: new experimental solubility data and modeling. <i>Quimica Nova</i> , 2008, 31, .	0.3	13
59	Safety Assessment of Highly Integrated and Complex Mechatronic Systems. , 2008, , .		0
60	Solubility of l-Dopa in supercritical carbon dioxide: prediction using a cubic equation of state. <i>Journal of Supercritical Fluids</i> , 2005, 34, 231-236.	3.2	7
61	Modeling high-pressure vapor-liquid equilibrium of limonene, linalool and carbon dioxide systems. <i>Journal of Supercritical Fluids</i> , 1999, 16, 107-117.	3.2	21
62	HIGH-PRESSURE VAPOR-LIQUID EQUILIBRIUM DATA FOR BINARY AND TERNARY SYSTEMS FORMED BY SUPERCritical CO ₂ , LIMONENE AND LINALOOL. <i>Brazilian Journal of Chemical Engineering</i> , 1999, 16, 7-17.	1.3	17