

Rubem MÃ¡rio Vargas

List of Publications by Year in descending order

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61
papers

1,017
citations

430874

18
h-index

477307

29
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62
all docs

62
docs citations

62
times ranked

1259
citing authors

#	ARTICLE	IF	CITATIONS
1	Steam distillation modeling for essential oil extraction process. <i>Industrial Crops and Products</i> , 2009, 29, 171-176.	5.2	155
2	Mathematical modeling for extraction of essential oil from <i>Baccharis</i> spp. by steam distillation. <i>Industrial Crops and Products</i> , 2011, 33, 599-604.	5.2	53
3	Supercritical fluid extraction of alkaloids from <i>Ilex paraguariensis</i> St. Hil.. <i>Journal of Food Engineering</i> , 2010, 100, 656-661.	5.2	45
4	Antidepressant-like effect of <i>Valeriana glechomifolia</i> Meyer (Valerianaceae) in mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2012, 36, 101-109.	4.8	45
5	Chemical composition and amoebicidal activity of <i>Piper hispidinervum</i> (Piperaceae) essential oil. <i>Industrial Crops and Products</i> , 2012, 40, 292-295.	5.2	45
6	Biocidal effects of <i>Piper hispidinervum</i> (Piperaceae) essential oil and synergism among its main components. <i>Food and Chemical Toxicology</i> , 2017, 109, 1086-1092.	3.6	44
7	Anti- <i>Trichomonas vaginalis</i> activity of <i>Hypericum polyanthemum</i> extract obtained by supercritical fluid extraction and isolated compounds. <i>Parasitology International</i> , 2013, 62, 112-117.	1.3	33
8	Supercritical extraction of <i>Hypericum caprifoliatum</i> using carbon dioxide and ethanol+water as co-solvent. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 70, 95-102.	3.6	31
9	Determination of antibacterial activity of vacuum distillation fractions of lemongrass essential oil. <i>Phytochemistry Reviews</i> , 2012, 11, 405-412.	6.5	30
10	Supercritical extraction of carqueja essential oil: experiments and modeling. <i>Brazilian Journal of Chemical Engineering</i> , 2006, 23, 375-382.	1.3	28
11	Supercritical fluid extraction of volatile and non-volatile compounds from <i>Schinus molle</i> L.. <i>Brazilian Journal of Chemical Engineering</i> , 2011, 28, 305-312.	1.3	26
12	Supercritical fluid extraction from <i>Syzygium aromaticum</i> buds: Phase equilibrium, mathematical modeling and antimicrobial activity. <i>Journal of Supercritical Fluids</i> , 2014, 92, 223-230.	3.2	26
13	Supercritical fluid (CO ₂ +ethanol) extraction of chlorophylls and carotenoids from <i>Chlorella sorokiniana</i> : COSMO-SAC assisted prediction of properties and experimental approach. <i>Journal of CO₂ Utilization</i> , 2021, 51, 101649.	6.8	25
14	Supercritical fluid extraction and high performance liquid chromatographic determination of benzopyrans and phloroglucinol derivative in <i>Hypericum polyanthemum</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 83-87.	2.3	24
15	Supercritical fluid extraction of vinblastine from <i>Catharanthus roseus</i> . <i>Journal of Supercritical Fluids</i> , 2017, 129, 9-15.	3.2	24
16	Analysis of supercritical fluid extraction of lycopodine using response surface methodology and process mathematical modeling. <i>Chemical Engineering Research and Design</i> , 2015, 100, 353-361.	5.6	22
17	Fluid phase equilibria and mass transfer studies applied to supercritical fluid extraction of <i>Illicium verum</i> volatile oil. <i>Fluid Phase Equilibria</i> , 2016, 417, 203-211.	2.5	20
18	Crystallization of Caffeine by Supercritical Antisolvent (SAS) Process: Analysis of Process Parameters and Control of Polymorphism. <i>Crystal Growth and Design</i> , 2012, 12, 1943-1951.	3.0	19

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19	Evaluation of the key odorants of <i>Baccharis anomala</i> DC essential oil: New applications for known products. <i>Industrial Crops and Products</i> , 2013, 49, 492-496.	5.2	19
20	Natural products obtained by subcritical and supercritical fluid extraction from <i>Achyrocline satureioides</i> (Lam) D.C. using CO ₂ . <i>Industrial Crops and Products</i> , 2013, 50, 430-435.	5.2	17
21	Evaluation and mathematical modeling of processing variables for a supercritical fluid extraction of aromatic compounds from <i>Anethum graveolens</i> . <i>Industrial Crops and Products</i> , 2017, 95, 733-741.	5.2	17
22	Supercritical extraction of phloroglucinol and benzophenone derivatives from <i>Hypericum carinatum</i> : Quantification and mathematical modeling. <i>Journal of Separation Science</i> , 2011, 34, 3107-3113.	2.5	16
23	Supercritical CO ₂ extraction of <i>Schinus molle</i> L with co-solvents: mathematical modeling and antimicrobial applications. <i>Brazilian Archives of Biology and Technology</i> , 2013, 56, 513-519.	0.5	16
24	A CLOSED-FORM SOLUTION FOR THE ONE-DIMENSIONAL RADIATIVE CONDUCTIVE PROBLEM BY THE DECOMPOSITION AND LTSN METHODS. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999, 61, 303-308.	2.3	15
25	Lipid-polymer hybrid nanoparticles as a targeted drug delivery system for melanoma treatment. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2022, 71, 127-138.	3.4	14
26	Supercritical CO ₂ extraction as a selective method for the obtainment of coumarins from <i>Pterocaulon balansae</i> (Asteraceae). <i>Journal of CO₂ Utilization</i> , 2017, 18, 303-308.	6.8	13
27	Decaffeination of yerba mate by supercritical fluid extraction: Improvement, mathematical modelling and infusion analysis. <i>Journal of Supercritical Fluids</i> , 2021, 168, 105096.	3.2	13
28	Effects of Diene Valepotriates from <i>Valeriana glechomifolia</i> on Na ⁺ /K ⁺ -ATPase Activity in the Cortex and Hippocampus of Mice. <i>Planta Medica</i> , 2015, 81, 200-207.	1.3	12
29	Effect of Storage Time and Conditions on the Diene Valepotriates Content of the Extract of <i>Valeriana glechomifolia</i> Obtained by Supercritical Carbon Dioxide. <i>Phytochemical Analysis</i> , 2012, 23, 222-227.	2.4	11
30	Extraction process of the <i>Achyrocline satureioides</i> (Lam) DC. essential oil by steam distillation: modeling, aromatic potential and fractionation. <i>Journal of Essential Oil Research</i> , 2019, 31, 286-296.	2.7	11
31	Solution of the radiative heat transfer equation with internal energy sources in a slab by the method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 105, 1-7.	2.3	10
32	Mathematical Modeling of Essential Oil Extraction by Steam Distillation for Native Plants from Southern Brazil. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2012, 15, 839-846.	1.9	10
33	Chromenes from <i>Ageratum conyzoides</i> : Steam distillation, supercritical extraction, and mathematical modeling. <i>Separation Science and Technology</i> , 2016, 51, 307-315.	2.5	10
34	Sequential extraction methods applied to <i>Piper hispidinervum</i> : An improvement in the processing of natural products. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 756-762.	1.7	10
35	Polyprenylated benzophenone-enriched extracts obtained using SC-CO ₂ from the dry ethanolic extract of Brazilian red propolis. <i>Separation Science and Technology</i> , 2018, 53, 1724-1731.	2.5	9
36	SEQUENTIAL PROCESSING OF <i>Psidium guajava</i> L. LEAVES: STEAM DISTILLATION AND SUPERCRITICAL FLUID EXTRACTION. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 487-496.	1.3	9

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37	Comparison of Different Extraction Techniques of Zingiber officinale Essential Oil. Brazilian Archives of Biology and Technology, 0, 63, .	0.5	9
38	Image reconstruction using simulated annealing in electrical impedance tomography: a new approach. Inverse Problems in Science and Engineering, 2018, 26, 834-854.	1.2	7
39	On the decomposition method applied to linear and non-linear discrete ordinates problems in slab geometry. Progress in Nuclear Energy, 2003, 42, 439-456.	2.9	6
40	A solution for the non-linear SN radiative-conductive problem in a grey plane-parallel participating medium. International Journal of Thermal Sciences, 2010, 49, 1493-1499.	4.9	6
41	Evaluation of different extraction techniques in the processing of Anethum graveolens L. seeds for phytochemicals recovery. Journal of Applied Research on Medicinal and Aromatic Plants, 2020, 18, 100263.	1.5	6
42	Influence of the supercritical CO2 extraction in the stability of the coumarins of Pterocaulon lorentzii (Asteraceae). Journal of CO2 Utilization, 2020, 39, 101165.	6.8	6
43	On the production and release of Hedychium coronarium essential oil from nanoformulations. Industrial Crops and Products, 2021, 171, 113984.	5.2	6
44	Olfactometry evaluation and antimicrobial analysis of essential oils from Baccharis dentata (Vell.) G.M. Barroso and Baccharis uncinella DC.. Journal of Essential Oil Research, 2017, 29, 137-144.	2.7	5
45	Vapor pressure and vapor-liquid equilibrium data for eugenol/caryophyllene binary system at low pressures by experimental and predictive methods. Journal of Chemical Thermodynamics, 2022, 168, 106725.	2.0	5
46	Selective extraction of saponins from Ilex paraguariensis St.-Hil. unripe fruits. Food and Bioproducts Processing, 2018, 111, 72-82.	3.6	4
47	Analytical solution of the discrete ordinates problem by the decomposition method. Annals of Nuclear Energy, 1997, 24, 785-791.	1.8	3
48	A new approach in extracting active acylphloroglucinol derivatives from Dryopteris wallichiana and Elaphoglossum erinaceum. Journal of Supercritical Fluids, 2015, 101, 222-230.	3.2	3
49	A valepotriate-enriched fraction from Valeriana glechomifolia Meyer inhibits leukocytes migration and nociception in formalin test in rodents. Revista Brasileira De Farmacognosia, 2019, 29, 477-482.	1.4	3
50	Use of supercritical CO2 to obtain Baccharis uncinella extracts with antioxidant and antitumor activity. Journal of CO2 Utilization, 2021, 49, 101563.	6.8	3
51	The Response Surface Optimization of Supercritical CO2 Modified with Ethanol Extraction of p-Anisic Acid from Acacia mearnsii Flowers and Mathematical Modeling of the Mass Transfer. Molecules, 2022, 27, 970.	3.8	3
52	Solution of the radiative transfer equation in an inhomogeneous plane-parallel atmosphere by the decomposition method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 92, 121-127.	2.3	2
53	Supercritical Extraction of Essential Oil from Ilex Paraguariensis Leaves. Natural Product Communications, 2008, 3, 1934578X0800300.	0.5	2
54	Permeability coefficients and vapour pressure determination for fragrance materials. International Journal of Cosmetic Science, 2021, 43, 225-234.	2.6	2

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55	Radial diffusion model for fragrance materials: Prediction and validation. <i>AICHE Journal</i> , 2021, 67, e17351.	3.6	2
56	Oral Acute and Repeated-Doses Toxicity Study of Valepotriates from <i>Valeriana glechomifolia</i> (Meyer) in Mice. <i>Current Drug Discovery Technologies</i> , 2019, 16, 96-103.	1.2	2
57	On the analytical representation for the S radiative-conductive transfer solution in inhomogeneous plane parallel atmosphere with convergence analysis. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 132-139.	2.3	1
58	Virtual Learning Environments: The Challenge of New Outlines in the Creative Production of Knowledge. , 2003, , 51-62.		1
59	Essential oil and residual distillation water of <i>Pterocaulon polystachyum</i> DC:Âcomposition, antifungal activity, and mathematical modeling of steam distillation. <i>Plant Biosystems</i> , 2022, 156, 1470-1477.	1.6	1
60	The determination of the transient wall pipe temperature by fractional calculus theory. <i>International Communications in Heat and Mass Transfer</i> , 1992, 19, 79-88.	5.6	0
61	On the Analytical Solution of the S _N Radiative Transport Equation in a Slab for a Space-dependent Albedo Coefficient. <i>Journal of Physics: Conference Series</i> , 2012, 369, 012018.	0.4	0