

# Gustavo Mendes Platt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7423093/publications.pdf>

Version: 2024-02-01

38  
papers

371  
citations

1040056

9  
h-index

839539

18  
g-index

41  
all docs

41  
docs citations

41  
times ranked

386  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of an optimal control strategy for vaccine administration in COVID-19 pandemic treatment. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105664.	4.7	108
2	Prediction of critical points: A new methodology using global optimization. <i>AIChE Journal</i> , 2004, 50, 1300-1314.	3.6	35
3	Novel approach for the calculation of critical points in binary mixtures using global optimization. <i>Fluid Phase Equilibria</i> , 2004, 225, 29-37.	2.5	25
4	Supercritical fluid flow in porous media: modeling and simulation. <i>Chemical Engineering Science</i> , 2005, 60, 1797-1808.	3.8	25
5	Characterization of coating produced on titanium surface by a designed solution containing calcium and phosphate ions. <i>Materials Chemistry and Physics</i> , 2008, 109, 429-435.	4.0	25
6	Theoretical study of Tris and Bistris effects on simulated body fluids. <i>Journal of Molecular Liquids</i> , 2008, 139, 121-130.	4.9	22
7	Finding more than one root of nonlinear equations via a polarization technique: An application to double retrograde vaporization. <i>Chemical Engineering Research and Design</i> , 2010, 88, 551-561.	5.6	22
8	A study of equivalent electrical circuit fitting to electrochemical impedance using a stochastic method. <i>Applied Soft Computing Journal</i> , 2017, 50, 183-193.	7.2	16
9	Identification of an Epidemiological Model to Simulate the COVID-19 Epidemic Using Robust Multiobjective Optimization and Stochastic Fractal Search. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-8.	1.3	14
10	Mathematical modelling of the second wave of COVID-19 infections using deterministic and stochastic SIRD models. <i>Nonlinear Dynamics</i> , 2021, 106, 1359-1373.	5.2	8
11	Prediction of azeotropic behaviour by the inversion of functions from the plane to the plane. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 914-928.	1.7	7
12	Vapor-liquid equilibria of multi-indexed continuous mixtures using an equation of state and group contribution methods. <i>Chemical Engineering Journal</i> , 2000, 77, 179-187.	12.7	6
13	The Luus-Jaakola algorithm applied to a nuclear reactor core design optimisation. <i>International Journal of Nuclear Energy Science and Technology</i> , 2008, 4, 1.	0.0	6
14	Double Azeotropy: calculations with Newton-like methods and continuous GRASP (C-GRASP). <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2011, 2, 387.	0.2	6
15	Phase rule calculations and the thermodynamics of reactive systems under chemical equilibrium. <i>Brazilian Journal of Chemical Engineering</i> , 1999, 16, 247-265.	1.3	6
16	Modeling of Closed-Vessel Experiments and Ballistic Parameter Estimation. <i>Journal of Energetic Materials</i> , 2005, 23, 59-73.	2.0	5
17	Adaptive second order step length algorithm for inverse reliability analysis. <i>Advances in Engineering Software</i> , 2020, 146, 102831.	3.8	5
18	Analytical reconstruction scheme for the coarse-mesh solution generated by the spectral nodal method for neutral particle discrete ordinates transport model in slab geometry. <i>Annals of Nuclear Energy</i> , 2010, 37, 1461-1466.	1.8	4

#	ARTICLE	IF	CITATIONS
19	Application of the Firefly and Luus-Jaakola algorithms in the calculation of a double reactive azeotrope. <i>Computational Science &amp; Discovery</i> , 2014, 7, 015002.	1.5	4
20	Numerical experiments with new metaheuristic algorithms in phase equilibrium problems. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2016, 7, 189.	0.2	4
21	Calculation of a double reactive azeotrope using stochastic optimization approaches. <i>Journal of Physics: Conference Series</i> , 2013, 410, 012020.	0.4	3
22	Multiple solution algorithm with applications to robot kinematics. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 1313-1321.	1.6	3
23	Azeotropy in a refrigerant system: a useful scenario to test and compare metaheuristics. <i>International Journal of Metaheuristics</i> , 2018, 7, 43.	0.1	3
24	Geometry of Phase Equilibrium with an Application to Double Retrograde Vaporization Prediction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4651-4663.	3.7	2
25	Robust Prediction of Double Retrograde Vaporization by Numerical Inversion of Functions. <i>International Review of Mechanical Engineering</i> , 2016, 10, 452.	0.2	2
26	Determination of critical conditions for the esterification of acetic acid with ethanol in the presence of carbon dioxide. <i>Brazilian Journal of Chemical Engineering</i> , 2006, 23, 359-364.	1.3	1
27	Designed Solution to Coat Titanium Sheets with Octacalcium Phosphate. <i>Key Engineering Materials</i> , 2007, 361-363, 665-668.	0.4	1
28	Basins of Attraction in the Calculation of Critical Points. <i>International Review of Chemical Engineering (IRECHE)</i> , 2017, 9, 55.	0.0	1
29	Estudo teórico e experimental da Solução Avaliadora de Bioatividade (SAB). <i>Revista Materia</i> , 2007, 12, 358-366.	0.2	1
30	A Novel Reliability-Based Robust Design Multiobjective Optimization Formulation Applied in Chemical Engineering. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 3483-3501.	3.7	1
31	Characterization and Dissolution Dynamics of Tricalcium Phosphates in Acidified Solution. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 2013, 18, 61-71.	0.7	0
32	Hyper-heuristic applied to nuclear reactor core design. <i>Journal of Physics: Conference Series</i> , 2013, 410, 012021.	0.4	0
33	An Overview of the Use of Metaheuristics in Two Phase Equilibrium Calculation Problems. , 2019, , 1-27.		0
34	Evaluation of a New Multimodal Optimization Algorithm in Fluid Phase Equilibrium Problems. <i>Ingenieria E Investigacion</i> , 2020, 40, 27-33.	0.4	0
35	Basins of attraction and critical curves for Newton-type methods in a phase equilibrium problem. <i>International Journal of Computational Science and Engineering</i> , 2020, 23, 91.	0.5	0
36	Critical point calculations by numerical inversion of functions. <i>Chemical Engineering Communications</i> , 2021, 208, 1245-1259.	2.6	0

#	ARTICLE	IF	CITATIONS
37	Thermodynamic Simulation of Phosphate Precipitation based on Ion-Selective Microelectrode Measurements. Journal of the Brazilian Chemical Society, 2013, , .	0.6	0
38	Novas Abordagens sobre o Problema de Otimizaçã~o do Projeto do N~ucleo do Reator. Vektor, 2021, 31, .	0.0	0