

# Claudia Gutiérrez-Antonio

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

893  
citations

471509

17  
h-index

501196

28  
g-index

65  
all docs

65  
docs citations

65  
times ranked

589  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extractive Dividing Wall Column: Design and Optimization. Industrial & Engineering Chemistry Research, 2010, 49, 3672-3688.	3.7	142
2	Production and characterization of fuel pellets from rice husk and wheat straw. Renewable Energy, 2020, 145, 500-507.	8.9	95
3	Pareto front of ideal Petlyuk sequences using a multiobjective genetic algorithm with constraints. Computers and Chemical Engineering, 2009, 33, 454-464.	3.8	78
4	Simultaneous energy integration and intensification of the hydrotreating process to produce biojet fuel from jatropha curcas. Chemical Engineering and Processing: Process Intensification, 2016, 110, 134-145.	3.6	43
5	Intensification of a hydrotreating process to produce biojet fuel using thermally coupled distillation. Chemical Engineering and Processing: Process Intensification, 2015, 88, 29-36.	3.6	41
6	Strategic planning for the use of waste biomass pellets in Mexican power plants. Renewable Energy, 2019, 130, 622-632.	8.9	31
7	Energy Integration of a Hydrotreatment Process for Sustainable Biojet Fuel Production. Industrial & Engineering Chemistry Research, 2016, 55, 8165-8175.	3.7	29
8	Intensification of the hydrotreating process to produce renewable aviation fuel through reactive distillation. Chemical Engineering and Processing: Process Intensification, 2018, 124, 122-130.	3.6	29
9	Intensification of the alcohol-to-jet process to produce renewable aviation fuel. Chemical Engineering and Processing: Process Intensification, 2021, 160, 108270.	3.6	28
10	Modeling, simulation and intensification of hydroprocessing of micro-algae oil to produce renewable aviation fuel. Clean Technologies and Environmental Policy, 2018, 20, 1589-1598.	4.1	27
11	Optimal planning for the supply chain of biofuels for aviation in Mexico. Clean Technologies and Environmental Policy, 2017, 19, 1387-1402.	4.1	21
12	Optimal plant layout considering the safety instrumented system design for hazardous equipment. Chemical Engineering Research and Design, 2019, 124, 97-120.	5.6	20
13	Simulation and optimization of a biojet fuel production process. Computer Aided Chemical Engineering, 2013, 32, 13-18.	0.5	19
14	Analysis of Dynamic Performance for Multiple Dividing Wall Distillation Columns. Industrial & Engineering Chemistry Research, 2013, 52, 9922-9929.	3.7	18
15	Strategic Planning for the Supply Chain of Aviation Biofuel with Consideration of Hydrogen Production. Industrial & Engineering Chemistry Research, 2017, 56, 13812-13830.	3.7	17
16	A MILP approach for optimal storage vessels layout based on the quantitative risk analysis methodology. Chemical Engineering Research and Design, 2018, 120, 1-13.	5.6	17
17	Modelling of production processes for liquid biofuels through CFD: A review of conventional and intensified technologies. Chemical Engineering and Processing: Process Intensification, 2019, 143, 107629.	3.6	17
18	Modelling, simulation and intensification of the hydroprocessing of chicken fat to produce renewable aviation fuel. Chemical Engineering and Processing: Process Intensification, 2021, 159, 108250.	3.6	17

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19	Multiobjective Stochastic Optimization of Dividing-wall Distillation Columns Using a Surrogate Model Based on Neural Networks. <i>Chemical and Biochemical Engineering Quarterly</i> , 2016, 29, 491-504.	0.9	17
20	Hybrid Distillation/Melt Crystallization Process Using Thermally Coupled Arrangements: Optimization with evolutive algorithms. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 67, 25-38.	3.6	14
21	Speeding up a multiobjective genetic algorithm with constraints through artificial neuronal networks. <i>Computer Aided Chemical Engineering</i> , 2010, 28, 391-396.	0.5	13
22	Analysis of alternative non-catalytic processes for the production of biodiesel fuel. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 2041-2054.	4.1	13
23	Controllability Analysis of Distillation Sequences for the Separation of Biojet Fuel and Green Diesel Fractions. <i>Chemical Engineering and Technology</i> , 2016, 39, 2273-2283.	1.5	13
24	Method for the Design of Azeotropic Distillation Columns. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 6635-6644.	3.7	10
25	Design of non-equilibrium stage separation systems by a stochastic optimization approach for a class of mixtures. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 88, 58-69.	3.6	9
26	The integration of pelletized agricultural residues into electricity grid: Perspectives from the human, environmental and economic aspects. <i>Journal of Cleaner Production</i> , 2021, 321, 128932.	9.3	8
27	Synthesis and intensification of a biorefinery to produce renewable aviation fuel, biofuels, bioenergy and chemical products from <i>Jatropha Curcas</i> fruit. <i>IET Renewable Power Generation</i> , 2022, 16, 2988-3008.	3.1	8
28	EFFECT OF DIFFERENT THERMODYNAMIC MODELS ON THE DESIGN OF HOMOGENEOUS AZEOTROPIC DISTILLATION COLUMNS. <i>Chemical Engineering Communications</i> , 2008, 195, 1059-1075.	2.6	7
29	Design of a low-cost process for the production of biodiesel using waste oil as raw material. <i>Computer Aided Chemical Engineering</i> , 2018, , 1529-1534.	0.5	7
30	Energy integration of a hydrotreating process for the production of biojet fuel. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 127-132.	0.5	6
31	Development of a biorefinery scheme to produce biofuels from waste cooking oil. <i>Computer Aided Chemical Engineering</i> , 2019, , 289-294.	0.5	6
32	A thermal-hydrodynamic model to evaluate the potential of different tray designs for production of renewable aviation fuel through reactive distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 166, 108482.	3.6	6
33	A Fast Method To Calculate Residue Curve Maps. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 4429-4432.	3.7	5
34	Design of Reactive Distillation with Thermal Coupling for the Synthesis of Biodiesel using Genetic Algorithms. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 549-554.	0.5	5
35	Optimal design of distillation systems with less than $N+1$ columns for a class of four component mixtures. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1425-1447.	5.6	5
36	Effect of Using Adjusted Parameters, Local and Global Optimums, for Phase Equilibrium Prediction on the Synthesis of Azeotropic Distillation Columns. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 1489-1502.	3.7	5

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37	Process integration for the supercritical production of biodiesel and the production of lignocellulosic bioethanol. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 931-936.	0.5	5
38	Dividing wall distillation columns for separation of azeotropic mixtures: feasibility procedure and rigorous optimization. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 555-560.	0.5	4
39	Hydrotreating of Triglyceride Feedstock to Produce Renewable Aviation Fuel. <i>Recent Innovations in Chemical Engineering</i> , 2018, 11, 77-89.	0.4	4
40	Optimal design and control of trains of dividing wall columns for the separation of petrochemical mixtures. <i>Computer Aided Chemical Engineering</i> , 2012, 30, 742-746.	0.5	3
41	Energy Integration and Optimization of the Separation Section in a Hydrotreating Process for the Production of Biojet Fuel. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 661-666.	0.5	3
42	Production of renewable aviation fuel from microalgae. , 2022, , 639-664.		3
43	Energy consumption maps for quaternary distillation sequences. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 121-126.	0.5	2
44	Feasibility of energy integration for high-pressure biofuels production processes. <i>Computer Aided Chemical Engineering</i> , 2018, , 1523-1528.	0.5	2
45	Feasibility study of using reactive distillation for the production of renewable aviation fuel. <i>Computer Aided Chemical Engineering</i> , 2018, , 639-644.	0.5	2
46	Biojet fuel: Driving the aviation sector to sustainability. , 2021, , 1-31.		2
47	Supply chain for the production of biojet fuel. , 2021, , 201-240.		2
48	Modelling and simulation of a multiple feedstock integrated biorefinery for the production of aviation biofuel and other biofuels. <i>Computer Aided Chemical Engineering</i> , 2021, , 1885-1890.	0.5	2
49	The future trends in the production of biojet fuel. , 2021, , 241-254.		2
50	Production of fuel pellets from bean crop residues ( <i>Phaseolus vulgaris</i> ). <i>IET Renewable Power Generation</i> , 0, , .	3.1	2
51	Mechanical Design and Hydraulic Analysis of Sieve Trays in Dividing Wall Columns. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 1375-1380.	0.5	1
52	Modelling and Simulation of the Conversion of Chicken Fat to Produce Renewable Aviation Fuel through the Hydrotreating Process. <i>Computer Aided Chemical Engineering</i> , 2020, , 1399-1404.	0.5	1
53	Renewable feedstock and its conversion routes to biojet fuel. , 2021, , 33-54.		1
54	Production of renewable aviation fuel at industrial scale: opportunities and challenges. , 2021, , 247-267.		1

#	ARTICLE	IF	CITATIONS
55	Estudio comparativo de modelos matemáticos para predecir el poder calorífico de residuos agrícolas mexicanos. <i>Tecnológicas</i> , 2022, 25, e2142.	0.3	1
56	Advanced biorefineries for the production of renewable aviation fuel. , 2022, , 103-124.		1
57	Mass and energy integration for the supercritical process for biodiesel production and a bioethanol dehydration train. <i>Computer Aided Chemical Engineering</i> , 2016, , 487-492.	0.5	0
58	Stochastic Optimization for Process Intensification. , 2016, , 261-277.		0
59	5. Optimal design methodology for homogeneous azeotropic distillation columns. , 2019, , 125-143.		0
60	Production processes for the conversion of triglyceride feedstock. , 2021, , 55-91.		0
61	Production processes for the conversion of sugar and starchy feedstock. , 2021, , 93-127.		0
62	Process intensification and integration in the production of biojet fuel. , 2021, , 171-199.		0
63	Optimal design of multiple dividing wall columns based on genetic programming. <i>Computer Aided Chemical Engineering</i> , 2011, , 176-180.	0.5	0
64	Opportunities in the intensification of the production of biofuels for the generation of electrical and thermal energy. , 2022, , 157-196.		0