

# Ofelia Araujo

## List of Publications by Year in descending order

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144  
papers

2,209  
citations

201674

27  
h-index

289244

40  
g-index

150  
all docs

150  
docs citations

150  
times ranked

2103  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of temperature and light intensity on triacylglycerol accumulation in marine microalgae. <i>Biomass and Bioenergy</i> , 2015, 72, 280-287.	5.7	89
2	Supersonic separation in onshore natural gas dew point plant. <i>Journal of Natural Gas Science and Engineering</i> , 2012, 6, 43-49.	4.4	84
3	Carbon capture and storage technologies: present scenario and drivers of innovation. <i>Current Opinion in Chemical Engineering</i> , 2017, 17, 22-34.	7.8	80
4	Optimization of a sequencing batch reactor for biological nitrogen removal. <i>Water Research</i> , 2000, 34, 2809-2817.	11.3	79
5	Natural gas dehydration by molecular sieve in offshore plants: Impact of increasing carbon dioxide content. <i>Energy Conversion and Management</i> , 2017, 149, 760-773.	9.2	66
6	Offshore processing of CO <sub>2</sub> rich natural gas with supersonic separator versus conventional routes. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 199-221.	4.4	63
7	A techno-economic analysis of thermochemical pathways for corn-cob-to-energy: Fast pyrolysis to bio-oil, gasification to methanol and combustion to electricity. <i>Fuel Processing Technology</i> , 2019, 193, 102-113.	7.2	63
8	Comparative analysis of separation technologies for processing carbon dioxide rich natural gas in ultra-deepwater oil fields. <i>Journal of Cleaner Production</i> , 2017, 155, 12-22.	9.3	56
9	Carbon dioxide management by chemical conversion to methanol: HYDROGENATION and BI-REFORMING. <i>Energy Conversion and Management</i> , 2016, 125, 320-335.	9.2	52
10	Recovery of thermodynamic hydrate inhibitors methanol, ethanol and MEG with supersonic separators in offshore natural gas processing. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 52, 166-186.	4.4	52
11	Cultivation of <i>Spirulina maxima</i> in medium supplemented with sugarcane vinasse. <i>Bioresource Technology</i> , 2016, 204, 38-48.	9.6	50
12	Production of DMC from CO <sub>2</sub> via Indirect Route: Technical, Economical, Environmental Assessment and Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 62-69.	6.7	48
13	Effects of CO <sub>2</sub> enrichment and nutrients supply intermittency on batch cultures of <i>Isochrysis galbana</i> . <i>Bioresource Technology</i> , 2013, 143, 242-250.	9.6	47
14	Carbon dioxide management via exergy-based sustainability assessment: Carbon Capture and Storage versus conversion to methanol. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 720-732.	16.4	46
15	Bioenergy and full carbon dioxide sinking in sugarcane-biorefinery with post-combustion capture and storage: Techno-economic feasibility. <i>Applied Energy</i> , 2019, 254, 113633.	10.1	42
16	The potential of microalgal biomass production for biotechnological purposes using wastewater resources. <i>Journal of Applied Phycology</i> , 2017, 29, 821-832.	2.8	40
17	Fluidized bed treatment of residues of semi-dry flue gas desulfurization units of coal-fired power plants for conversion of sulfites to sulfates. <i>Energy Conversion and Management</i> , 2017, 143, 173-187.	9.2	37
18	A methodology for screening of microalgae as a decision making tool for energy and green chemical process applications. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 275-291.	4.1	35

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19	Carbon dioxide utilization in a microalga-based biorefinery: Efficiency of carbon removal and economic performance under carbon taxation. <i>Journal of Environmental Management</i> , 2017, 203, 988-998.	7.8	35
20	Sustainability metrics for eco-technologies assessment, part I: preliminary screening. <i>Clean Technologies and Environmental Policy</i> , 2009, 11, 209-214.	4.1	34
21	Growth model and prediction of oxygen transfer rate for xylitol production from d-xylose by <i>C. guilliermondii</i> . <i>Biochemical Engineering Journal</i> , 2002, 12, 49-59.	3.6	32
22	Land use change (LUC) analysis and life cycle assessment (LCA) of Brazilian soybean biodiesel. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1655-1673.	4.1	31
23	Speed of sound of multiphase and multi-reactive equilibrium streams: A numerical approach for natural gas applications. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 222-241.	4.4	31
24	Model-based optimization of a sequencing batch reactor for biological nitrogen removal. <i>Bioresource Technology</i> , 2008, 99, 3213-3223.	9.6	30
25	Metrics for sustainability analysis of post-combustion abatement of CO <sub>2</sub> emissions: Microalgae mediated routes and CCS (carbon capture and storage). <i>Energy</i> , 2015, 92, 556-568.	8.8	30
26	Assessment of greenhouse gases (GHG) emissions from the tallow biodiesel production chain including land use change (LUC). <i>Journal of Cleaner Production</i> , 2017, 151, 578-591.	9.3	28
27	Exergy Analysis of Monoethylene glycol recovery processes for hydrate inhibition in offshore natural gas fields. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 798-813.	4.4	27
28	Low-emission offshore Gas-To-Wire from natural gas with carbon dioxide: Supersonic separator conditioning and post-combustion decarbonation. <i>Energy Conversion and Management</i> , 2019, 195, 1334-1349.	9.2	27
29	A novel cryogenic vapor-recompression air separation unit integrated to oxyfuel combined-cycle gas-to-wire plant with carbon dioxide enhanced oil recovery: Energy and economic assessments. <i>Energy Conversion and Management</i> , 2019, 189, 202-214.	9.2	27
30	Managing offshore drill cuttings waste for improved sustainability. <i>Journal of Cleaner Production</i> , 2017, 165, 143-156.	9.3	26
31	Greenhouse gas emissions related to biodiesel from traditional soybean farming compared to integrated crop-livestock systems. <i>Journal of Cleaner Production</i> , 2018, 179, 81-92.	9.3	26
32	Equilibrium Approach for CO <sub>2</sub> and H <sub>2</sub> S Absorption with Aqueous Solutions of Alkanolamines: Theory and Parameter Estimation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 9203-9226.	3.7	25
33	Supersonic separator for cleaner offshore processing of natural gas with high carbon dioxide content: Environmental and economic assessments. <i>Journal of Cleaner Production</i> , 2019, 233, 510-521.	9.3	25
34	Optimal determination of chemical plant layout via minimization of risk to general public using Monte Carlo and Simulated Annealing techniques. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 41, 202-214.	3.3	23
35	Ethylic or methylic route to soybean biodiesel? Tracking environmental answers through life cycle assessment. <i>Applied Energy</i> , 2016, 184, 1246-1263.	10.1	23
36	Social and environmental impacts of replacing transesterification agent in soybean biodiesel production: Multi-criteria and principal component analyses. <i>Journal of Cleaner Production</i> , 2017, 168, 149-162.	9.3	23

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37	Economic leverage affords post-combustion capture of 43% of carbon emissions: Supersonic separators for methanol hydrate inhibitor recovery from raw natural gas and CO <sub>2</sub> drying. <i>Journal of Environmental Management</i> , 2019, 236, 534-550.	7.8	23
38	Carbon dioxide and ethanol from sugarcane biorefinery as renewable feedstocks to environment-oriented integrated chemical plants.. <i>Journal of Cleaner Production</i> , 2018, 172, 1232-1242.	9.3	22
39	Thermodynamic, financial and resource assessments of a large-scale sugarcane-biorefinery: Prelude of full bioenergy carbon capture and storage scenario. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109251.	16.4	21
40	A new concept of air pre-purification unit for cryogenic separation: Low-pressure supersonic separator coupled to finishing adsorption. <i>Separation and Purification Technology</i> , 2019, 215, 173-189.	7.9	20
41	On small-scale liquefaction of natural gas with supersonic separator: Energy and second law analyses. <i>Energy Conversion and Management</i> , 2020, 221, 113117.	9.2	20
42	Dynamic analysis of sustainable biogas-combined-cycle plant: Time-varying demand and bioenergy with carbon capture and storage. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 109997.	16.4	20
43	Sustainability metrics for eco-technologies assessment, Part II. Life cycle analysis. <i>Clean Technologies and Environmental Policy</i> , 2009, 11, 459-472.	4.1	17
44	Carbon capture and adjustment of water and hydrocarbon dew-points via absorption with ionic liquid [Bmim][NTf <sub>2</sub> ] in offshore processing of CO <sub>2</sub> -rich natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 26-41.	4.4	17
45	Assessment of Methods to Pretreat Microalgal Biomass for Enhanced Biogas Production. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2018, 6, 394-404.	1.9	17
46	A zero-emission sustainable landfill-gas-to-wire oxyfuel process: Bioenergy with carbon capture and sequestration. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110686.	16.4	16
47	Dynamic simulation of flash drums using rigorous physical property calculations. <i>Brazilian Journal of Chemical Engineering</i> , 2007, 24, 277-286.	1.3	15
48	Impact of solid waste treatment from spray dryer absorber on the levelized cost of energy of a coal-fired power plant. <i>Journal of Cleaner Production</i> , 2017, 164, 1623-1634.	9.3	15
49	Supersonic separator for cleaner offshore processing of supercritical fluid with ultra-high carbon dioxide content: Economic and environmental evaluation. <i>Journal of Cleaner Production</i> , 2019, 234, 1385-1398.	9.3	15
50	Upstream and downstream processing of microalgal biogas: Emissions, energy and economic performances under carbon taxation. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 508-520.	16.4	15
51	Sustainability assessment for the chemical industry: Onwards to integrated system analysis. <i>Journal of Cleaner Production</i> , 2021, 278, 123966.	9.3	15
52	Bioenergy production from sugarcane bagasse with carbon capture and storage: Surrogate models for techno-economic decisions. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111486.	16.4	15
53	Electrical stimulation of <i>saccharomyces cerevisiae</i> cultures. <i>Brazilian Journal of Microbiology</i> , 2004, 35, 97-103.	2.0	14
54	Assessment of the impact of salinity and irradiance on the combined carbon dioxide sequestration and carotenoids production by <i>Dunaliella salina</i> : A mathematical model. <i>Biotechnology and Bioengineering</i> , 2009, 102, 425-435.	3.3	14

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55	ARX modeling approach to leak detection and diagnosis. <i>Journal of Loss Prevention in the Process Industries</i> , 2010, 23, 462-475.	3.3	14
56	Upgrading of natural gas ultra-rich in carbon dioxide: Optimal arrangement of membrane skids and polishing with chemical absorption. <i>Journal of Cleaner Production</i> , 2017, 165, 1013-1024.	9.3	14
57	Deep seawater intake for primary cooling in tropical offshore processing of natural gas with high carbon dioxide content: Energy, emissions and economic assessments. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 56, 193-211.	4.4	14
58	State observers for a biological wastewater nitrogen removal process in a sequential batch reactor. <i>Bioresource Technology</i> , 2001, 79, 1-14.	9.6	13
59	Automatized Monte-Carlo analysis of offshore processing of CO <sub>2</sub> -rich natural gas: Conventional versus supersonic separator routes. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 69, 102943.	4.4	13
60	Biogas from microalgae: an overview emphasizing pretreatment methods and their energy return on investment (EROI). <i>Biotechnology Letters</i> , 2019, 41, 193-201.	2.2	13
61	A cleaner and more sustainable decarbonation process via ionic-liquid absorption for natural gas with high carbon dioxide content. <i>Journal of Cleaner Production</i> , 2020, 242, 118421.	9.3	13
62	Simulation of an Offshore Natural Gas Purification Process for CO <sub>2</sub> Removal with Gas-Liquid Contactors Employing Aqueous Solutions of Ethanolamines. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 7074-7089.	3.7	12
63	Carbon capture and high-capacity supercritical fluid processing with supersonic separator: Natural gas with ultra-high CO <sub>2</sub> content. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 265-283.	4.4	12
64	Low-pressure supersonic separator with finishing adsorption: Higher exergy efficiency in air pre-purification for cryogenic fractionation. <i>Separation and Purification Technology</i> , 2020, 248, 116969.	7.9	12
65	Second Law analysis of large-scale sugarcane-ethanol biorefineries with alternative distillation schemes: Bioenergy carbon capture scenario. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110181.	16.4	12
66	Sewage-Water Treatment and Sewage-Sludge Management with Power Production as Bioenergy with Carbon Capture System: A Review. <i>Processes</i> , 2022, 10, 788.	2.8	12
67	A kinetic model for the first stage of pygas upgrading. <i>Brazilian Journal of Chemical Engineering</i> , 2007, 24, 119-133.	1.3	10
68	An age-structured population balance model for microbial dynamics. <i>Brazilian Journal of Chemical Engineering</i> , 2003, 20, 1-6.	1.3	10
69	Production of methanol and organic carbonates for chemical sequestration of CO <sub>2</sub> from an NGCC power plant. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1095.	4.1	9
70	How is the transition away from fossil fuels doing, and how will the low-carbon future unfold?. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 1385-1388.	4.1	9
71	Sewage-water treatment with bio-energy production and carbon capture and storage. <i>Chemosphere</i> , 2022, 286, 131763.	8.2	9
72	Lifetime oriented design of natural gas offshore processing for cleaner production and sustainability: High carbon dioxide content. <i>Journal of Cleaner Production</i> , 2018, 200, 269-281.	9.3	8

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73	Offshore Processing of CO <sub>2</sub> -Rich Natural Gas with Supersonic Separator. , 2019, , .		8
74	Sustainable Gas-to-Wire via dry reforming of carbonated natural gas: Ionic-liquid pre-combustion capture and thermodynamic efficiency. Renewable and Sustainable Energy Reviews, 2021, 151, 111534.	16.4	8
75	Screening biorefinery pathways to biodiesel, green-diesel and propylene-glycol: A hierarchical sustainability assessment of process. Journal of Environmental Management, 2021, 300, 113772.	7.8	7
76	The importance of control considerations for heat exchanger network synthesis: a case study. Brazilian Journal of Chemical Engineering, 2001, 18, 195-210.	1.3	7
77	Pareto optimization of an industrial ecosystem: sustainability maximization. Brazilian Journal of Chemical Engineering, 2010, 27, 429-440.	1.3	6
78	Low-emission pre-combustion gas-to-wire via ionic-liquid [Bmim][NTf <sub>2</sub> ] absorption with high-pressure stripping. Renewable and Sustainable Energy Reviews, 2020, 131, 109995.	16.4	6
79	Protected supersonic separator performance against variable CO <sub>2</sub> content on natural gas processing: Energy and sustainability analyses. Journal of Natural Gas Science and Engineering, 2020, 78, 103282.	4.4	6
80	Process Studies on Indirect Electrosynthesis of 1,4-Naphthoquinone. Journal of the Electrochemical Society, 1992, 139, 737-744.	2.9	5
81	Robust soft sensors for SBR monitoring. Water Science and Technology, 2001, 43, 101-105.	2.5	5
82	Dynamic Simulation and Analysis of Slug Flow Impact on Offshore Natural Gas Processing: TEG Dehydration, Joule-Thomson Expansion and Membrane Separation. Computer Aided Chemical Engineering, 2015, , 1775-1780.	0.5	5
83	Sulfite removal from flue-gas desulfurization residues of coal-fired power plants: Oxidation experiments and kinetic parameters estimation. Energy Reports, 2021, 7, 8142-8151.	5.1	5
84	Monoethylene Glycol as Hydrate Inhibitor in Offshore Natural Gas Processing. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , .	0.3	5
85	Soft sensors with white- and black-box approaches for a wastewater treatment process. Brazilian Journal of Chemical Engineering, 2000, 17, 433-440.	1.3	5
86	Carbon-dioxide-to-methanol intensification with supersonic separators: Extra-carbonated natural gas purification via carbon capture and utilization. Renewable and Sustainable Energy Reviews, 2022, 161, 112424.	16.4	5
87	Flowsheet optimization of a lubricant base oil hydrotreatment process. Brazilian Journal of Chemical Engineering, 2004, 21, 317-324.	1.3	4
88	Exergy Analysis of Monoethylene Glycol (MEG) Recovery Systems. Computer Aided Chemical Engineering, 2015, 37, 533-538.	0.5	4
89	Analysis of Natural Gas Production in Pre-Salt via Pipelines with MEG and Onshore Processing. Applied Mechanics and Materials, 2016, 830, 85-92.	0.2	4
90	Integration of Post-Combustion Capture and Reinjection Plant to Power Generation Cycle Using CO <sub>2</sub> -Rich Natural Gas in Offshore Oil and Gas Installation. Materials Science Forum, 0, 965, 49-58.	0.3	4

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91	Novel ethylene oxide production with improved sustainability: Loss prevention via supersonic separator and carbon capture. <i>Journal of Environmental Management</i> , 2020, 269, 110782.	7.8	4
92	Exergy comparison of single-shaft and multiple-paralleled compressor schemes in offshore processing of CO <sub>2</sub> -Rich natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 81, 103390.	4.4	4
93	Upgrading exergy utilization and sustainability via supersonic separators: Offshore processing of carbonated natural gas. <i>Journal of Cleaner Production</i> , 2021, 310, 127524.	9.3	4
94	Emission Minimization of a Two-Stage Sour Water Stripping Unit Using Surrogate Models for Improving Heat Duty Control. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2019, 7, 305-324.	1.9	4
95	The Role of Coagulation-flocculation in the Pretreatment of Reverse Osmosis in Power Plant. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2020, 8, 118-131.	1.9	4
96	Sustainable offshore natural gas processing with thermodynamic gas-hydrate inhibitor reclamation: Supersonic separation affords carbon capture. <i>Chemical Engineering Research and Design</i> , 2022, 181, 55-73.	5.6	4
97	Modeling of Flowcharts of Permeation Through Membranes for Removal of CO <sub>2</sub> of Natural Gas. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1875-1880.	0.5	3
98	A Comparative Economical Analysis of Technologies for CO <sub>2</sub> Removal from Offshore Natural Gas. <i>Computer Aided Chemical Engineering</i> , 2012, , 800-804.	0.5	3
99	Viability of Technologies for CO <sub>2</sub> Capture and Reuse in a FPSO: Technical, Economic and Environmental Analysis. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 1385-1390.	0.5	3
100	Technical Evaluation of the Applicability of Gas-Liquid Membrane Contactors for CO <sub>2</sub> Removal from CO <sub>2</sub> Rich Natural Gas Streams in Offshore Rigs. <i>Materials Science Forum</i> , 2019, 965, 29-38.	0.3	3
101	On the sustainability of small-scale expansion-based natural gas liquefaction: Supersonic separator, Joule-Thomson, and turbo-expander. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104212.	4.4	3
102	A Monte Carlo Methodology for Environmental Assessment Applied to Offshore Processing of Natural Gas with High Carbon Dioxide Content. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2020, 8, 35-55.	1.9	3
103	A Maxwell-Stefan Approach for Predicting Mixing Effects in Contiguous Batches of Multi-Product Pipelines. , 2002, , 1005.		2
104	Ionic Liquid [Bmim][NTf <sub>2</sub> ] as Solvent for CO <sub>2</sub> Removal in Offshore Processing of Natural Gas. <i>Materials Science Forum</i> , 0, 965, 21-28.	0.3	2
105	Regional and temporal sustainability assessment of agricultural-based biodiesel. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 965-978.	4.1	2
106	A Dynamic Modeling of Pipeline Networks for Dense Compressible Fluids Tuned With Time Series of Plant Data. , 2002, , 1015.		1
107	Slug Control Structures for Mitigation of Disturbances to Offshore Units. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1305-1310.	0.5	1
108	Simulation of an Off-shore Natural Gas Purification Process for CO <sub>2</sub> Removal with Gas-Liquid Contactors Employing Aqueous Solutions of Ethanolamines. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 795-799.	0.5	1

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109	Water and Power Consumption, Ethanol Production and CO <sub>2</sub> Emissions: High-Scale Sugarcane-Based Biorefinery Toward Neutrality in Carbon. <i>Materials Science Forum</i> , 2019, 965, 87-95.	0.3	1
110	Offshore Processing of CO <sub>2</sub> -Rich Natural Gas and the Role of Supersonic Separators—Introduction. , 2019, , 1-9.		1
111	A Lifecycle Sustainability Assessment of CO <sub>2</sub> Emissions, Energy Consumption and Social Aspects of Methylic and Ethylic Biodiesel Using Principal Component Analysis. <i>Materials Science Forum</i> , 0, 965, 1-12.	0.3	1
112	Environmental Performance of a Solid Waste Monetization Process Applied to a Coal-Fired Power Plant with Semi-Dry Flue Gas Desulfurization. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 0, , .	1.9	1
113	Thermodynamic Efficiency of Steady State Operations of MRUs. <i>SpringerBriefs in Petroleum Geoscience &amp; Engineering</i> , 2018, , 41-74.	0.3	1
114	Soft sensor development and experimental application to a wastewater treatment process. <i>Computer Aided Chemical Engineering</i> , 2000, 8, 943-948.	0.5	0
115	Failure Diagnostics Using Data Mining Tools. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1539-1544.	0.5	0
116	Pareto Optimization of an Industrial Ecosystem: Sustainability Maximization. <i>Computer Aided Chemical Engineering</i> , 2009, , 1917-1922.	0.5	0
117	Model for the First-Stage of Pygas Upgrading: Experimental Procedure and Parameter Estimation. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 627-632.	0.5	0
118	NGL Recovery from CO <sub>2</sub> -EOR Streams. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 590-594.	0.5	0
119	Enlightening the dark side of <i>Arthrospira maxima</i> cultivation: evaluation of carbon supply modes and performance at optimal growth conditions. <i>Journal of Applied Phycology</i> , 2019, 31, 9-19.	2.8	0
120	CO <sub>2</sub> Rich Natural Gas Processing: Technical, Power Consumption and Emission Comparisons of Conventional and Supersonic Technologies. <i>Materials Science Forum</i> , 2019, 965, 79-86.	0.3	0
121	Thermodynamic Speed of Sound for Multiphase Multi-Reactive Equilibrium Systems. , 2019, , 97-162.		0
122	Recovery of Thermodynamic Hydrate Inhibitors with Supersonic Separators in Offshore Processing of Natural Gas: The Cases of Methanol, Ethanol, and Monoethylene Glycol. , 2019, , 299-348.		0
123	Overview of Natural Gas Processing with Supersonic Separator. , 2019, , 41-53.		0
124	Sustainability Assessment of an Ethylene Oxide Process with Carbon Capture. <i>Computer Aided Chemical Engineering</i> , 2019, 47, 433-438.	0.5	0
125	Feasibility Study of CO <sub>2</sub> Mitigation with Methanol Production through Hydrogenation and Bi-Reforming of Natural Gas. <i>Materials Science Forum</i> , 2019, 965, 117-123.	0.3	0
126	Achieving Negative Emissions: Integration of Sugarcane Crop, Ethanol Biorefinery, Post-Combustion Capture and CO <sub>2</sub> Pipeline for Enhanced Oil Recovery. <i>Materials Science Forum</i> , 0, 965, 39-48.	0.3	0



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127	CO <sub>2</sub> Emission and Energy Assessments of a Novel Pre-Purification Unit for Cryogenic Air Separation Using Supersonic Separator. Materials Science Forum, 0, 965, 59-67.	0.3	0
128	Offshore Natural Gas Conditioning and Recovery of Methanol as Hydrate Inhibitor with Supersonic Separators: Increasing Energy Efficiency with Lower CO <sub>2</sub> Emissions. Materials Science Forum, 2019, 965, 97-105.	0.3	0
129	Supersonic Separators for Offshore Processing of CO <sub>2</sub> -Rich Natural Gas: Comparison with Conventional Routes. , 2019, , 277-297.		0
130	Modeling of CO <sub>2</sub> Freeze-Out in the Processing of CO <sub>2</sub> -Rich Natural Gas. , 2019, , 215-275.		0
131	Sugarcane-based ethanol biorefineries with bioenergy production from bagasse: thermodynamic, economic, and emissions assessments. , 2021, , 125-158.		0
132	A Time Series Approach for Pipe Network Simulation. , 2002, , .		0
133	Caracterizaç�o composicional e transesterificaç�o de �leo de microalga: uma abordagem computacional. Quimica Nova, 2012, 35, 1336-1342.	0.3	0
134	Energy Performance Versus Exergy Performance of MRU Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 101-105.	0.3	0
135	Exergy Analysis of Chemical Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 75-82.	0.3	0
136	Energy Consumption and CO <sub>2</sub> Emission of MRU Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 31-39.	0.3	0
137	MRU Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 25-30.	0.3	0
138	MEG Loops in Offshore Natural Gas Fields. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 15-18.	0.3	0
139	Thermodynamics of Glycol Systems. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 19-24.	0.3	0
140	Exergy Analysis of MRU Processes in Offshore Platforms. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 83-96.	0.3	0
141	Thermodynamic Modeling of CO <sub>2</sub> -Rich Natural Gas Fluid Systems. , 2019, , 55-96.		0
142	A Novel Tool for Computer-Aided Sustainability Assessment Under Uncertainty: A Design Case of Natural Gas Offshore Processing. Computer Aided Chemical Engineering, 2019, 47, 305-310.	0.5	0
143	Membrane-Permeation Modeling for Carbon Capture from CO <sub>2</sub> -Rich Natural Gas. Advances in Science, Technology and Innovation, 2021, , 143-175.	0.4	0
144	Novel air dehydration for life-support systems of manned-spacecraft: Supersonic separator technology. Applied Thermal Engineering, 2022, 213, 118731.	6.0	0