JosÃ© Luiz de Medeiros

List of Publications by Year
in descending order

134 papers	1,865 citations	270111 25 h-index	371746 37 g-index
140 all docs	140 docs citations	140 times ranked	1815 citing authors

#	Article	IF	Citations
1	Sewage-water treatment with bio-energy production and carbon capture and storage. Chemosphere, 2022, 286, 131763.	4.2	9
2	Sustainable offshore natural gas processing with thermodynamic gas-hydrate inhibitor reclamation: Supersonic separation affords carbon capture. Chemical Engineering Research and Design, 2022, 181, 55-73.	2.7	4
3	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.	8.2	5
4	Sewage-Water Treatment and Sewage-Sludge Management with Power Production as Bioenergy with Carbon Capture System: A Review. Processes, 2022, 10, 788.	1.3	12
5	Novel air dehydration for life-support systems of manned-spacecraft: Supersonic separator technology. Applied Thermal Engineering, 2022, 213, 118731.	3.0	0
6	Second Law analysis of large-scale sugarcane-ethanol biorefineries with alternative distillation schemes: Bioenergy carbon capture scenario. Renewable and Sustainable Energy Reviews, 2021, 135, 110181.	8.2	12
7	Sustainability assessment for the chemical industry: Onwards to integrated system analysis. Journal of Cleaner Production, 2021, 278, 123966.	4.6	15
8	Sugarcane-based ethanol biorefineries with bioenergy production from bagasse: thermodynamic, economic, and emissions assessments. , 2021, , 125-158.		0
9	A zero-emission sustainable landfill-gas-to-wire oxyfuel process: Bioenergy with carbon capture and sequestration. Renewable and Sustainable Energy Reviews, 2021, 138, 110686.	8.2	16
10	How is the transition away from fossil fuels doing, and how will the low-carbon future unfold?. Clean Technologies and Environmental Policy, 2021, 23, 1385-1388.	2.1	9
11	Sulfite removal from flue-gas desulfurization residues of coal-fired power plants: Oxidation experiments and kinetic parameters estimation. Energy Reports, 2021, 7, 8142-8151.	2.5	5
12	Upgrading exergy utilization and sustainability via supersonic separators: Offshore processing of carbonated natural gas. Journal of Cleaner Production, 2021, 310, 127524.	4.6	4
13	Bioenergy production from sugarcane bagasse with carbon capture and storage: Surrogate models for techno-economic decisions. Renewable and Sustainable Energy Reviews, 2021, 150, 111486.	8.2	15
14	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.	8.2	8
15	On the sustainability of small-scale expansion-based natural gas liquefaction: Supersonic separator, Joule-Thomson, and turbo-expander. Journal of Natural Gas Science and Engineering, 2021, 95, 104212.	2.1	3
16	Screening biorefinery pathways to biodiesel, green-diesel and propylene-glycol: A hierarchical sustainability assessment of process. Journal of Environmental Management, 2021, 300, 113772.	3.8	7
17	Membrane-Permeation Modeling for Carbon Capture from CO2-Rich Natural Gas. Advances in Science, Technology and Innovation, 2021, , 143-175.	0.2	0
18	A cleaner and more sustainable decarbonation process via ionic-liquid absorption for natural gas with high carbon dioxide content. Journal of Cleaner Production, 2020, 242, 118421.	4.6	13

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19	Low-pressure supersonic separator with finishing adsorption: Higher exergy efficiency in air pre-purification for cryogenic fractionation. Separation and Purification Technology, 2020, 248, 116969.	3.9	12
20	On small-scale liquefaction of natural gas with supersonic separator: Energy and second law analyses. Energy Conversion and Management, 2020, 221, 113117.	4.4	20
21	Novel ethylene oxide production with improved sustainability: Loss prevention via supersonic separator and carbon capture. Journal of Environmental Management, 2020, 269, 110782.	3.8	4
22	Low-emission pre-combustion gas-to-wire via ionic-liquid [Bmim][NTf2] absorption with high-pressure stripping. Renewable and Sustainable Energy Reviews, 2020, 131, 109995.	8.2	6
23	Exergy comparison of single-shaft and multiple-paralleled compressor schemes in offshore processing of CO2-Rich natural gas. Journal of Natural Gas Science and Engineering, 2020, 81, 103390.	2.1	4
24	Dynamic analysis of sustainable biogas-combined-cycle plant: Time-varying demand and bioenergy with carbon capture and storage. Renewable and Sustainable Energy Reviews, 2020, 131, 109997.	8.2	20
25	Protected supersonic separator performance against variable CO2 content on natural gas processing: Energy and sustainability analyses. Journal of Natural Gas Science and Engineering, 2020, 78, 103282.	2.1	6
26	A Monte Carlo Methodology for Environmental Assessment Applied to Offshore Processing of Natural Gas with High Carbon Dioxide Content. Journal of Sustainable Development of Energy, Water and Environment Systems, 2020, 8, 35-55.	0.9	3
27	Enlightening the dark side of Arthrospira maxima cultivation: evaluation of carbon supply modes and performance at optimal growth conditions. Journal of Applied Phycology, 2019, 31, 9-19.	1.5	0
28	Bioenergy and full carbon dioxide sinking in sugarcane-biorefinery with post-combustion capture and storage: Techno-economic feasibility. Applied Energy, 2019, 254, 113633.	5.1	42
29	Supersonic separator for cleaner offshore processing of supercritical fluid with ultra-high carbon dioxide content: Economic and environmental evaluation. Journal of Cleaner Production, 2019, 234, 1385-1398.	4.6	15
30	Automatized Monte-Carlo analysis of offshore processing of CO2-rich natural gas: Conventional versus supersonic separator routes. Journal of Natural Gas Science and Engineering, 2019, 69, 102943.	2.1	13
31	Water and Power Consumption, Ethanol Production and CO₂ Emissions: High-Scale Sugarcane-Based Biorefinery Toward Neutrality in Carbon. Materials Science Forum, 2019, 965, 87-95.	0.3	1
32	Thermodynamic, financial and resource assessments of a large-scale sugarcane-biorefinery: Prelude of full bioenergy carbon capture and storage scenario. Renewable and Sustainable Energy Reviews, 2019, 113, 109251.	8.2	21
33	CO₂ Rich Natural Gas Processing: Technical, Power Consumption and Emission Comparisons of Conventional and Supersonic Technologies. Materials Science Forum, 2019, 965, 79-86.	0.3	0
34	Offshore Processing of CO2-Rich Natural Gas and the Role of Supersonic Separatorsâ€"Introduction. , 2019, , 1-9.		1
35	Upstream and downstream processing of microalgal biogas: Emissions, energy and economic performances under carbon taxation. Renewable and Sustainable Energy Reviews, 2019, 112, 508-520.	8.2	15
36	Supersonic separator for cleaner offshore processing of natural gas with high carbon dioxide content: Environmental and economic assessments. Journal of Cleaner Production, 2019, 233, 510-521.	4.6	25

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37	Carbon dioxide management via exergy-based sustainability assessment: Carbon Capture and Storage versus conversion to methanol. Renewable and Sustainable Energy Reviews, 2019, 112, 720-732.	8.2	46
38	Low-emission offshore Gas-To-Wire from natural gas with carbon dioxide: Supersonic separator conditioning and post-combustion decarbonation. Energy Conversion and Management, 2019, 195, 1334-1349.	4.4	27
39	A techno-economic analysis of thermochemical pathways for corncob-to-energy: Fast pyrolysis to bio-oil, gasification to methanol and combustion to electricity. Fuel Processing Technology, 2019, 193, 102-113.	3.7	63
40	Thermodynamic Speed of Sound for Multiphase Multi-Reactive Equilibrium Systems. , 2019, , 97-162.		0
41	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
42	Overview of Natural Gas Processing with Supersonic Separator. , 2019, , 41-53.		0
43	Carbon capture and high-capacity supercritical fluid processing with supersonic separator: Natural gas with ultra-high CO2 content. Journal of Natural Gas Science and Engineering, 2019, 66, 265-283.	2.1	12
44	Carbon capture and adjustment of water and hydrocarbon dew-points via absorption with ionic liquid [Bmim][NTf2] in offshore processing of CO2-rich natural gas. Journal of Natural Gas Science and Engineering, 2019, 66, 26-41.	2.1	17
45	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. Energy Conversion and Management, 2019, 189, 202-214.	4.4	27
46	Economic leverage affords post-combustion capture of 43% of carbon emissions: Supersonic separators for methanol hydrate inhibitor recovery from raw natural gas and CO2 drying. Journal of Environmental Management, 2019, 236, 534-550.	3.8	23
47	Sustainability Assessment of an Ethylene Oxide Process with Carbon Capture. Computer Aided Chemical Engineering, 2019, 47, 433-438.	0.3	0
48	Technical Evaluation of the Applicability of Gas-Liquid Membrane Contactors for CO₂ Removal from CO₂ Rich Natural Gas Streams in Offshore Rigs. Materials Science Forum, 2019, 965, 29-38.	0.3	3
49	Offshore Natural Gas Conditioning and Recovery of Methanol as Hydrate Inhibitor with Supersonic Separators: Increasing Energy Efficiency with Lower CO₂ Emissions. Materials Science Forum, 2019, 965, 97-105.	0.3	0
50	Offshore Processing of CO2-Rich Natural Gas with Supersonic Separator. , 2019, , .		8
51	Supersonic Separators for Offshore Processing of CO2-Rich Natural Gas: Comparison with Conventional Routes. , 2019, , 277-297.		0
52	A new concept of air pre-purification unit for cryogenic separation: Low-pressure supersonic separator coupled to finishing adsorption. Separation and Purification Technology, 2019, 215, 173-189.	3.9	20
53	Emission Minimization of a Two-Stage Sour Water Stripping Unit Using Surrogate Models for Improving Heat Duty Control. Journal of Sustainable Development of Energy, Water and Environment Systems, 2019, 7, 305-324.	0.9	4
54	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.	0.3	0

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55	Recovery of thermodynamic hydrate inhibitors methanol, ethanol and MEG with supersonic separators in offshore natural gas processing. Journal of Natural Gas Science and Engineering, 2018, 52, 166-186.	2.1	52
56	Carbon dioxide and ethanol from sugarcane biorefinery as renewable feedstocks to environment-oriented integrated chemical plants.. Journal of Cleaner Production, 2018, 172, 1232-1242.	4.6	22
57	Lifetime oriented design of natural gas offshore processing for cleaner production and sustainability: High carbon dioxide content. Journal of Cleaner Production, 2018, 200, 269-281.	4.6	8
58	Deep seawater intake for primary cooling in tropical offshore processing of natural gas with high carbon dioxide content: Energy, emissions and economic assessments. Journal of Natural Gas Science and Engineering, 2018, 56, 193-211.	2.1	14
59	Monoethylene Glycol as Hydrate Inhibitor in Offshore Natural Gas Processing. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , .	0.1	5
60	Energy Performance Versus Exergy Performance of MRU Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 101-105.	0.1	0
61	Exergy Analysis of Chemical Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 75-82.	0.1	0
62	Energy Consumption and CO2 Emission of MRU Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 31-39.	0.1	0
63	MRU Processes. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 25-30.	0.1	0
64	MEG Loops in Offshore Natural Gas Fields. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 15-18.	0.1	0
65	Thermodynamic Efficiency of Steady State Operations of MRUs. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 41-74.	0.1	1
66	Thermodynamics of Glycol Systems. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 19-24.	0.1	0
67	Exergy Analysis of MRU Processes in Offshore Platforms. SpringerBriefs in Petroleum Geoscience & Engineering, 2018, , 83-96.	0.1	0
68	Comparative analysis of separation technologies for processing carbon dioxide rich natural gas in ultra-deepwater oil fields. Journal of Cleaner Production, 2017, 155, 12-22.	4.6	56
69	Carbon dioxide utilization in a microalga-based biorefinery: Efficiency of carbon removal and economic performance under carbon taxation. Journal of Environmental Management, 2017, 203, 988-998.	3.8	35
70	Carbon capture and storage technologies: present scenario and drivers of innovation. Current Opinion in Chemical Engineering, 2017, 17, 22-34.	3.8	80
71	Fluidized bed treatment of residues of semi-dry flue gas desulfurization units of coal-fired power plants for conversion of sulfites to sulfates. Energy Conversion and Management, 2017, 143, 173-187.	4.4	37
72	Natural gas dehydration by molecular sieve in offshore plants: Impact of increasing carbon dioxide content. Energy Conversion and Management, 2017, 149, 760-773.	4.4	66

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73	Social and environmental impacts of replacing transesterification agent in soybean biodiesel production: Multi-criteria and principal component analyses. Journal of Cleaner Production, 2017, 168, 149-162.	4.6	23
74	Impact of solid waste treatment from spray dryer absorber on the levelized cost of energy of a coal-fired power plant. Journal of Cleaner Production, 2017, 164, 1623-1634.	4.6	15
75	Upgrading of natural gas ultra-rich in carbon dioxide: Optimal arrangement of membrane skids and polishing with chemical absorption. Journal of Cleaner Production, 2017, 165, 1013-1024.	4.6	14
76	Speed of sound of multiphase and multi-reactive equilibrium streams: A numerical approach for natural gas applications. Journal of Natural Gas Science and Engineering, 2017, 46, 222-241.	2.1	31
77	Offshore processing of CO2 rich natural gas with supersonic separator versus conventional routes. Journal of Natural Gas Science and Engineering, 2017, 46, 199-221.	2.1	63
78	Managing offshore drill cuttings waste for improved sustainability. Journal of Cleaner Production, 2017, 165, 143-156.	4.6	26
79	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
80	Optimal determination of chemical plant layout via minimization of risk to general public using Monte Carlo and Simulated Annealing techniques. Journal of Loss Prevention in the Process Industries, 2016, 41, 202-214.	1.7	23
81	Carbon dioxide management by chemical conversion to methanol: HYDROGENATION and BI-REFORMING. Energy Conversion and Management, 2016, 125, 320-335.	4.4	52
82	Ethylic or methylic route to soybean biodiesel? Tracking environmental answers through life cycle assessment. Applied Energy, 2016, 184, 1246-1263.	5.1	23
83	Exergy Analysis of Monoethylene glycol recovery processes for hydrate inhibition in offshore natural gas fields. Journal of Natural Gas Science and Engineering, 2016, 35, 798-813.	2.1	27
84	Cultivation of Spirulina maxima in medium supplemented with sugarcane vinasse. Bioresource Technology, 2016, 204, 38-48.	4.8	50
85	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.	0.3	5
86	Viability of Technologies for CO2 Capture and Reuse in a FPSO: Technical, Economic and Environmental Analysis. Computer Aided Chemical Engineering, 2015, 37, 1385-1390.	0.3	3
87	Metrics for sustainability analysis of post-combustion abatement of CO2 emissions: Microalgae mediated routes and CCS (carbon capture and storage). Energy, 2015, 92, 556-568.	4.5	30
88	Exergy Analysis of Monoethylene Glycol (MEG) Recovery Systems. Computer Aided Chemical Engineering, 2015, 37, 533-538.	0.3	4
89	Production of methanol and organic carbonates for chemical sequestration of CO2 from an NGCC power plant. Clean Technologies and Environmental Policy, 2014, 16, 1095.	2.1	9
90	Production of DMC from CO₂ via Indirect Route: Technicalâ€“Economicalâ€“Environmental Assessment and Analysis. ACS Sustainable Chemistry and Engineering, 2014, 2, 62-69.	3.2	48

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91	Simulation of an Offshore Natural Gas Purification Process for CO2 Removal with Gasâ€“Liquid Contactors Employing Aqueous Solutions of Ethanolamines. Industrial & Engineering Chemistry Research, 2013, 52, 7074-7089.	1.8	12
92	Equilibrium Approach for CO2 and H2S Absorption with Aqueous Solutions of Alkanolamines: Theory and Parameter Estimation. Industrial & Engineering Chemistry Research, 2013, 52, 9203-9226.	1.8	25
93	Effects of CO2 enrichment and nutrients supply intermittency on batch cultures of Isochrysis galbana. Bioresource Technology, 2013, 143, 242-250.	4.8	47
94	A methodology for screening of microalgae as a decision making tool for energy and green chemical process applications. Clean Technologies and Environmental Policy, 2013, 15, 275-291.	2.1	35
95	Supersonic separation in onshore natural gas dew point plant. Journal of Natural Gas Science and Engineering, 2012, 6, 43-49.	2.1	84
96	NGL Recovery from CO2-EOR Streams. Computer Aided Chemical Engineering, 2012, 31, 590-594.	0.3	0
97	Simulation of an Off-shore Natural Gas Purification Process for CO2 Removal with Gas-Liquid Contactors Employing Aqueous Solutions of Ethanolamines. Computer Aided Chemical Engineering, 2012, 31, 795-799.	0.3	1
98	A Comparative Economical Analysis of Technologies for CO2 Removal from Offshore Natural Gas. Computer Aided Chemical Engineering, 2012, , 800-804.	0.3	3
99	CaracterizaÃ§Ã£o composicional e transesterificaÃ§Ã£o de Ã³leo de microalga: uma abordagem computacional. Quimica Nova, 2012, 35, 1336-1342.	0.3	0
100	ARX modeling approach to leak detection and diagnosis. Journal of Loss Prevention in the Process Industries, 2010, 23, 462-475.	1.7	14
101	Modeling, simulation and optimization of continuous gas lift systems for deepwater offshore petroleum production. Journal of Petroleum Science and Engineering, 2010, 72, 277-289.	2.1	23
102	Pareto optimization of an industrial ecosystem: sustainability maximization. Brazilian Journal of Chemical Engineering, 2010, 27, 429-440.	0.7	6
103	Failure Diagnostics Using Data Mining Tools. Computer Aided Chemical Engineering, 2009, 27, 1539-1544.	0.3	0
104	Pareto Optimization of an Industrial Ecosystem: Sustainability Maximization. Computer Aided Chemical Engineering, 2009, , 1917-1922.	0.3	0
105	Modeling of Flowcharts of Permeation Through Membranes for Removal of CO2 of Natural Gas. Computer Aided Chemical Engineering, 2009, 27, 1875-1880.	0.3	3
106	Sustainability metrics for eco-technologies assessment, part I: preliminary screening. Clean Technologies and Environmental Policy, 2009, 11, 209-214.	2.1	34
107	Sustainability metrics for eco-technologies assessment, Part II. Life cycle analysis. Clean Technologies and Environmental Policy, 2009, 11, 459-472.	2.1	17
108	Model for the First-Stage of Pygas Upgrading: Experimental Procedure and Parameter Estimation. Computer Aided Chemical Engineering, 2009, 27, 627-632.	0.3	0

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109	Slug Control Structures for Mitigation of Disturbances to Offshore Units. Computer Aided Chemical Engineering, 2009, 27, 1305-1310.	0.3	1
110	A kinetic model for the first stage of pygas upgrading. Brazilian Journal of Chemical Engineering, 2007, 24, 119-133.	0.7	10
111	Determination of critical conditions for the esterification of acetic acid with ethanol in the presence of carbon dioxide. Brazilian Journal of Chemical Engineering, 2006, 23, 359-364.	0.7	1
112	Flowsheet optimization of a lubricant base oil hydrotreatment process. Brazilian Journal of Chemical Engineering, 2004, 21, 317-324.	0.7	4
113	An age-structured population balance model for microbial dynamics. Brazilian Journal of Chemical Engineering, 2003, 20, 1-6.	0.7	10
114	A Dynamic Modeling of Pipeline Networks for Dense Compressible Fluids Tuned With Time Series of Plant Data. , 2002, , 1015.		1
115	A Maxwell-Stefan Approach for Predicting Mixing Effects in Contiguous Batches of Multi-Product Pipelines. , 2002, , 1005.		2
116	Detection, Localization and Quantification of Leaks in Pipeline Networks Using a Parameter Estimation Approach. , 2002, , 1029.		3
117	A Time Series Approach for Pipe Network Simulation. , 2002, , .		0
118	Global optimization of water distribution networks through a reduced space branch-and-bound search. Water Resources Research, 2001, 37, 1083-1090.	1.7	11
119	Optimal programming of ideal and extractive batch distillation: single vessel operations. Computers and Chemical Engineering, 2001, 25, 1115-1140.	2.0	10
120	Reactions in multiindexed continuous mixtures: Catalytic cracking of petroleum fractions. AICHE Journal, 2001, 47, 935-947.	1.8	23
121	Optimization of pressure relief header networks: a linear programming formulation. Computers and Chemical Engineering, 2000, 24, 153-156.	2.0	3
122	Optimization of pipe networks including pumps by simulated annealing. Brazilian Journal of Chemical Engineering, 2000, 17, 887-896.	0.7	29
123	MODELLING AND PARAMETER ESTIMATION IN REACTIVE CONTINUOUS MIXTURES: THE CATALYTIC CRACKING OF ALKANES. PART I. Brazilian Journal of Chemical Engineering, 1999, 16, 65-81.	0.7	4
124	Modelling and parameter estimation in reactive continuous mixtures: the catalytic cracking of alkanes - part II. Brazilian Journal of Chemical Engineering, 1999, 16, 229-236.	0.7	4
125	Phase rule calculations and the thermodynamics of reactive systems under chemical equilibrium. Brazilian Journal of Chemical Engineering, 1999, 16, 247-265.	0.7	6
126	On the derivation of thermodynamic equilibrium criteria. Fluid Phase Equilibria, 1997, 136, 1-13.	1.4	1

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127	CO2 Utilization: A Process Systems Engineering Vision. , 0, , .		6
128	CO₂ Pipelines: A Thermodynamic Modeling with Pre-Salt Applications. Applied Mechanics and Materials, 0, 830, 57-64.	0.2	1
129	A Lifecycle Sustainability Assessment of CO₂ Emissions, Energy Consumption and Social Aspects of Methylic and Ethylic Biodiesel Using Principal Component Analysis. Materials Science Forum, 0, 965, 1-12.	0.3	1
130	Ionic Liquid [Bmim][NTf₂] as Solvent for CO₂ Removal in Offshore Processing of Natural Gas. Materials Science Forum, 0, 965, 21-28.	0.3	2
131	Achieving Negative Emissions: Integration of Sugarcane Crop, Ethanol Biorefinery, Post-Combustion Capture and CO₂ Pipeline for Enhanced Oil Recovery. Materials Science Forum, 0, 965, 39-48.	0.3	0
132	Integration of Post-Combustion Capture and Reinjection Plant to Power Generation Cycle Using CO₂-Rich Natural Gas in Offshore Oil and Gas Installation. Materials Science Forum, 0, 965, 49-58.	0.3	4
133	CO₂ 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
134	Environmental Performance of a Solid Waste Monetization Process Applied to a Coal-Fired Power Plant with Semi-Dry Flue Gas Desulfurization. Journal of Sustainable Development of Energy, Water and Environment Systems, 0, , .	0.9	1