

Davide Bonalumi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4366520/publications.pdf>

Version: 2024-02-01

45
papers

1,216
citations

471509

17
h-index

377865

34
g-index

45
all docs

45
docs citations

45
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Monitoring and Modeling of the Solvent-Mediated Polymorphic Transformation of L-Glutamic Acid. <i>Crystal Growth and Design</i> , 2006, 6, 881-891.	3.0	245
2	Life Cycle Assessment for supercritical pulverized coal power plants with post-combustion carbon capture and storage. <i>Journal of Cleaner Production</i> , 2017, 157, 10-21.	9.3	114
3	A parametric investigation of the Chilled Ammonia Process from energy and economic perspectives. <i>Fuel</i> , 2012, 101, 74-83.	6.4	74
4	Energy and exergy analyses for the carbon capture with the Chilled Ammonia Process (CAP). <i>Energy Procedia</i> , 2009, 1, 1059-1066.	1.8	69
5	Amine-based post-combustion CO ₂ capture in air-blown IGCC systems with cold and hot gas clean-up. <i>Applied Energy</i> , 2013, 110, 44-54.	10.1	65
6	CO ₂ mixtures as innovative working fluid in power cycles applied to solar plants. Techno-economic assessment. <i>Solar Energy</i> , 2019, 181, 530-544.	6.1	60
7	Comparison of two electrolyte models for the carbon capture with aqueous ammonia. <i>International Journal of Greenhouse Gas Control</i> , 2012, 8, 61-72.	4.6	53
8	Energetic evaluation of a power plant integrated with a piperazine-based CO ₂ capture process. <i>International Journal of Greenhouse Gas Control</i> , 2014, 28, 343-355.	4.6	51
9	A comprehensive modeling of the hybrid temperature electric swing adsorption process for CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2018, 74, 155-173.	4.6	45
10	Effect of a partial thermal decomposition of the working fluid on the performances of ORC power plants. <i>Energy</i> , 2017, 133, 1013-1026.	8.8	37
11	Investigations of an air-blown integrated gasification combined cycle fired with high-sulphur coal with post-combustion carbon capture by aqueous ammonia. <i>Energy</i> , 2016, 117, 439-449.	8.8	34
12	Titanium tetrachloride as novel working fluid for high temperature Rankine Cycles: Thermodynamic analysis and experimental assessment of the thermal stability. <i>Applied Thermal Engineering</i> , 2016, 107, 21-27.	6.0	30
13	A Layout for the Carbon Capture with Aqueous Ammonia without Salt Precipitation. <i>Energy Procedia</i> , 2016, 86, 134-143.	1.8	27
14	Rate-based simulation and techno-economic analysis of coal-fired power plants with aqueous ammonia carbon capture. <i>Energy Conversion and Management</i> , 2019, 199, 111966.	9.2	25
15	CO ₂ -TiCl ₄ working fluid for high-temperature heat source power cycles and solar application. <i>Renewable Energy</i> , 2020, 147, 2842-2854.	8.9	22
16	Alternative Layouts for the Carbon Capture with the Chilled Ammonia Process. <i>Energy Procedia</i> , 2013, 37, 2076-2083.	1.8	21
17	Thermodynamic and kinetic properties of NH ₃ -K ₂ CO ₃ -CO ₂ -H ₂ O system for carbon capture applications. <i>International Journal of Greenhouse Gas Control</i> , 2019, 85, 121-131.	4.6	21
18	Modeling of ultra super critical power plants integrated with the chilled ammonia process. <i>Energy Procedia</i> , 2011, 4, 1721-1728.	1.8	18

#	ARTICLE	IF	CITATIONS
19	Techno-economic Comparison of Combined Cycle Gas Turbines with Advanced Membrane Configuration and Monoethanolamine Solvent at Part Load Conditions. <i>Energy & Fuels</i> , 2018, 32, 625-645.	5.1	17
20	A Study of CO ₂ Capture in Advanced IGCC Systems by Ammonia Scrubbing. <i>Energy Procedia</i> , 2014, 45, 663-670.	1.8	16
21	Techno-economic assessment of the FReSMe technology for CO ₂ emissions mitigation and methanol production from steel plants. <i>Journal of CO₂ Utilization</i> , 2022, 56, 101852.	6.8	16
22	Thermal stability of organic fluids for Organic Rankine Cycle systems. , 2017, , 121-151.		15
23	Concentrated Aqueous Piperazine as CO ₂ Capture Solvent: Detailed Evaluation of the Integration with a Power Plant. <i>Energy Procedia</i> , 2014, 63, 1218-1222.	1.8	12
24	Results from Process Modeling of the Mixed-salt Technology for CO ₂ Capture from Post-combustion-related Applications. <i>Energy Procedia</i> , 2017, 114, 771-780.	1.8	12
25	Thermodynamic Assessment of Cooled and Chilled Ammonia-based CO ₂ Capture in Air-Blown IGCC Plants. <i>Energy Procedia</i> , 2016, 86, 272-281.	1.8	10
26	Thermo-chemical engines: Unexploited high-potential energy converters. <i>Energy Conversion and Management</i> , 2021, 229, 113685.	9.2	10
27	Experimental study of the aqueous CO ₂ -NH ₃ rate of reaction for temperatures from 15°C to 35°C, NH ₃ concentrations from 5% to 15% and CO ₂ loadings from 0.2 to 0.6. <i>International Journal of Greenhouse Gas Control</i> , 2018, 70, 117-127.	4.6	9
28	Zero Emission Geothermal Flash Power Plant. <i>Energy Procedia</i> , 2017, 126, 698-705.	1.8	8
29	The design of CO ₂ -based working fluids for high-temperature heat source power cycles. <i>Energy Procedia</i> , 2017, 129, 947-954.	1.8	8
30	Preliminary Study of Pyrolysis and Gasification of Biomass and Thermosetting Resins for Energy Production. <i>Energy Procedia</i> , 2016, 101, 432-439.	1.8	7
31	Potential performance of environmental friendly application of ORC and Flash technology in geothermal power plants. <i>Energy Procedia</i> , 2017, 129, 621-628.	1.8	7
32	Parametric investigation of CO ₂ capture from industrial flue gases using aqueous mixtures of ammonia (NH ₃) and potassium carbonate (K ₂ CO ₃). <i>International Journal of Greenhouse Gas Control</i> , 2022, 114, 103567.	4.6	7
33	Techno-economic investigations of supercritical CO ₂ -based partial heating cycle as bottoming system of a small gas turbine. <i>Energy</i> , 2022, 252, 124066.	8.8	7
34	Simulation Comparison of PEMFC Micro-Cogeneration Units With Conventional and Innovative Fuel Processing. , 2010, , .		6
35	Performance Improvement of Cooled Ammonia-based CO ₂ Capture in Combined Cycles with Gasification of High-sulfur Coal. <i>Energy Procedia</i> , 2017, 114, 6440-6447.	1.8	6
36	Innovative Process Cycle with Zeolite (MS13X) for Post Combustion Adsorption. <i>Energy Procedia</i> , 2017, 114, 2211-2218.	1.8	6

#	ARTICLE	IF	CITATIONS
37	Rate-based Approaches for the Carbon Capture with Aqueous Ammonia Without Salt Precipitation. Energy Procedia, 2016, 101, 400-407.	1.8	5
38	Techno-economic performance of the 2-propanol/1-butanol zeotropic mixture and 2-propanol/water azeotropic mixture as a working fluid in Organic Rankine Cycles. Energy, 2022, 246, 123316.	8.8	5
39	Kinetic study of a Layout for the Carbon Capture with Aqueous Ammonia without Salt Precipitation. Energy Procedia, 2017, 114, 1352-1359.	1.8	4
40	Enhanced Geothermal System with captured CO2. Energy Procedia, 2018, 148, 744-750.	1.8	4
41	Considerations on CO2 and pollutants emissions of modern cars. AIP Conference Proceedings, 2019, , .	0.4	4
42	Isobaric Vapor-Liquid Equilibrium Data for the Isopropanol-Water System. Journal of Chemical & Engineering Data, 0, , .	1.9	2
43	Experimental data of the aqueous NH3 and CO2 absorption at temperatures from 15°C to 35°C, NH3 concentrations from 5% to 15% and CO2 loadings from 0.2 to 0.6 measured with the Wetted Wall Column. Data in Brief, 2018, 17, 1240-1244.	1.0	1
44	A case study of cascade supercritical CO2 power cycle for waste heat recovery from a small gas turbine. Energy Conversion and Management: X, 2022, 14, 100212.	1.6	1
45	Chemical Absorption by Aqueous Solution of Ammonia. , 0, , .		0