Pilar Lisbona

List of Publications by Year in descending order

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304743 223800 2,233 61 22 46 citations h-index g-index papers 65 65 65 1972 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	Non-stoichiometric methanation as strategy to overcome the limitations of green hydrogen injection into the natural gas grid. Applied Energy, 2022, 309, 118462.	10.1	24
2	Synthetic natural gas production in a 1ÂkW reactor using Ni–Ce/Al2O3 and Ru–Ce/Al2O3: Kinetics, catalyst degradation and process design. Energy, 2022, 256, 124720.	8.8	6
3	Performance of MnCl2 doped magnetic iron-carbon sorbent on mercury removal from flue gas: The effect of O2 and SO2. Fuel, 2021, 285, 119064.	6.4	14
4	Evaluation of Synergies of a Biomass Power Plant and a Biogas Station with a Carbon Capture System. Energies, 2021, 14, 908.	3.1	7
5	Design and operational performance maps of calcium looping thermochemical energy storage for concentrating solar power plants. Energy, 2021, 220, 119715.	8.8	21
6	A review on CO2 mitigation in the Iron and Steel industry through Power to X processes. Journal of CO2 Utilization, 2021, 46, 101456.	6.8	83
7	Modelling calcium looping at industrial scale for energy storage in concentrating solar power plants. Energy, 2021, 225, 120306.	8.8	18
8	Lab-scale experimental tests of power to gas-oxycombustion hybridization: System design and preliminary results. Energy, 2021, 226, 120375.	8.8	11
9	Techno-economic assessment of an industrial carbon capture hub sharing a cement rotary kiln as sorbent regenerator. International Journal of Greenhouse Gas Control, 2021, 112, 103524.	4.6	16
10	Improved Flexibility and Economics of Combined Cycles by Power to Gas. Frontiers in Energy Research, 2020, 8, .	2.3	6
11	Energy consumption minimization for a solar lime calciner operating in a concentrated solar power plant for thermal energy storage. Renewable Energy, 2020, 156, 1019-1027.	8.9	19
12	Calcium looping as chemical energy storage in concentrated solar power plants: Carbonator modelling and configuration assessment. Applied Thermal Engineering, 2020, 172, 115186.	6.0	19
13	Syngas Production From the Reforming of Typical Biogas Compositions in an Inert Porous Media Reactor. Frontiers in Chemistry, 2020, 8, 145.	3 . 6	17
14	The Role of Energy Storage and Carbon Capture in Electricity Markets. , 2020, , 1-37.		1
15	Integration of Amine Scrubbing and Power to Gas. , 2020, , 109-135.		3
16	Reducing cycling costs in coal fired power plants through power to hydrogen. International Journal of Hydrogen Energy, 2020, 45, 25838-25850.	7.1	10
17	Integration of CO2 capture and conversion. , 2020, , 503-522.		2
18	Integration of Power to Gas and Carbon Capture. , 2020, , 39-60.		1

#	Article	IF	Citations
19	Status Review of PtG-CCU Hybridization. , 2020, , 61-84.		O
20	Combined carbon capture cycles: An opportunity for size and energy penalty reduction. International Journal of Greenhouse Gas Control, 2019, 88, 290-298.	4.6	11
21	Avoidance of partial load operation at coal-fired power plants by storing nuclear power through power to gas. International Journal of Hydrogen Energy, 2019, 44, 26063-26075.	7.1	10
22	Renewable energy sources and power-to-gas aided cogeneration for non-residential buildings. Energy, 2019, 181, 226-238.	8.8	17
23	Techno-economic feasibility of power to gas–oxy-fuel boiler hybrid system under uncertainty. International Journal of Hydrogen Energy, 2019, 44, 9505-9516.	7.1	17
24	FROM TERMOGRAF TO THERMONATOR: DESIGN AND DEVELOPMENT OF AN APP FOR E-LEARNING BASED ON PROBLEMS IN THE FIELD OF THERMAL ENGINEERING. EDULEARN Proceedings, 2019, , .	0.0	0
25	ENHANCING THE ACQUISITION OF COMPETENCES THROUGH THE FLIPPED CLASSROOM MODEL. , 2019, , .		0
26	Efficiency and Energy Analysis of Power Plants with Amineâ€Impregnated Solid Sorbents CO ₂ Capture. Energy Technology, 2018, 6, 1649-1659.	3.8	14
27	Energy storage in Spain: Forecasting electricity excess and assessment of power-to-gas potential up to 2050. Energy, 2018, 143, 900-910.	8.8	46
28	Power-to-Gas: Analysis of potential decarbonization of Spanish electrical system in long-term prospective. Energy, 2018, 159, 656-668.	8.8	28
29	Decision-making methodology for managing photovoltaic surplus electricity through Power to Gas: Combined heat and power in urban buildings. Applied Energy, 2018, 228, 1032-1045.	10.1	39
30	Power to gas-electrochemical industry hybrid systems: A case study. Applied Energy, 2017, 202, 435-446.	10.1	41
31	Future applications of hydrogen production and CO2 utilization for energy storage: Hybrid Power to Gas-Oxycombustion power plants. International Journal of Hydrogen Energy, 2017, 42, 13625-13632.	7.1	41
32	Power to Gas technology under Spanish Future Energy Scenario. Energy Procedia, 2017, 114, 6880-6885.	1.8	3
33	Energy Integration of High and Low Temperature Solid Sorbents for CO2 Capture. Energy Procedia, 2017, 114, 2380-2389.	1.8	8
34	Power to Gas projects review: Lab, pilot and demo plants for storing renewable energy and CO2. Renewable and Sustainable Energy Reviews, 2017, 69, 292-312.	16.4	475
35	Heat integration of alternative Ca-looping configurations for CO2 capture. Energy, 2016, 116, 956-962.	8.8	11
36	Energy Assessment of Ethanol-Enhanced Steam Reforming by Means of Li ₄ SiO ₄ Carbon Capture. Energy &	5.1	26

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37	The Calcium-Looping technology for CO2 capture: On the important roles of energy integration and sorbent behavior. Applied Energy, 2016, 162, 787-807.	10.1	286
38	Power to Gas–biomass oxycombustion hybrid system: Energy integration and potential applications. Applied Energy, 2016, 167, 221-229.	10.1	44
39	Energy and exergy pertaining toÂsolid looping cycles. , 2015, , 15-38.		0
40	Power to gas-oxyfuel boiler hybrid systems. International Journal of Hydrogen Energy, 2015, 40, 10168-10175.	7.1	44
41	Energy Intensity Reduction of Ca-Looping CO2 Capture by Applying Mixing Loop Seals and Cyclonic Systems. International Journal of Chemical Reactor Engineering, 2015, 13, 523-532.	1.1	0
42	Operation of a Mixing Seal Valve in Calcium Looping for CO ₂ Capture. Energy & Samp; Fuels, 2014, 28, 2059-2068.	5.1	28
43	A systematic approach for high temperature looping cycles integration. Fuel, 2014, 127, 4-12.	6.4	19
44	Design and analysis of heat exchanger networks for integrated Ca-looping systems. Applied Energy, 2013, 111, 690-700.	10.1	49
45	Hydrodynamical model and experimental results of a calcium looping cycle for CO2 capture. Applied Energy, 2013, 101, 317-322.	10.1	42
46	Operation of a Cyclonic Preheater in the Ca-Looping for CO ₂ Capture. Environmental Science & Environmental Science	10.0	44
47	Energy penalty reduction in the calcium looping cycle. International Journal of Greenhouse Gas Control, 2012, 7, 74-81.	4.6	81
48	A PDE model for microscopic simulation of solid oxide fuel cells. Journal of Power Sources, 2012, 201, 184-195.	7.8	3
49	Reduction of greenhouse gas emissions by integration of cement plants, power plants, and CO ₂ capture systems., 2011, 1, 72-82.		75
50	Carbonate looping cycle for CO2 capture: Hydrodynamic of complex CFB systems. Energy Procedia, 2011, 4, 410-416.	1.8	5
51	Using the second law of thermodynamic to improve CO2 capture systems. Energy Procedia, 2011, 4, 1043-1050.	1.8	17
52	Integration of Carbonate CO ₂ Capture Cycle and Coal-Fired Power Plants. A Comparative Study for Different Sorbents. Energy & Study for Different Sorbents. Energy & Study for Different Sorbents. Energy & Study for Different Sorbents.	5.1	88
53	Optimizing make-up flow in a CO2 capture system using CaO. Chemical Engineering Journal, 2009, 147, 252-258.	12.7	112
54	Economical assessment of competitive enhanced limestones for CO2 capture cycles in power plants. Fuel Processing Technology, 2009, 90, 803-811.	7.2	79

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#	Article	IF	CITATIONS
55	Comparative study of optimized purge flow in a CO2 capture system using different sorbents. Energy Procedia, 2009, 1, 1359-1366.	1.8	4
56	Enhanced coal gasification heated by unmixed combustion integrated with an hybrid system of SOFC/GT. International Journal of Hydrogen Energy, 2008, 33, 5755-5764.	7.1	47
57	Thermodynamic Analysis of a SOFC Aystem for CHP Applications: Influence of Operation Parameters on Global Efficiency. ECS Transactions, 2007, 7, 1811-1820.	0.5	0
58	Oriented-Control Lumped Model of a SOFC Stack: Thermal and Electrochemical Response to External Perturbations. ECS Transactions, 2007, 7, 1995-2003.	0.5	0
59	Analysis of a solid oxide fuel cell system for combined heat and power applications under non-nominal conditions. Electrochimica Acta, 2007, 53, 1920-1930.	5.2	74
60	High-temperature fuel cells for fresh water production. Desalination, 2005, 182, 471-482.	8.2	15
61	Ab initio investigations of the C2F4S isomers and of their interconversions. Journal of Fluorine Chemistry, 2003, 124, 99-104.	1.7	5