Marco Binotti

List of Publications by Year
in descending order

36 papers	1,261 citations	361296 20 h-index	377752 34 g-index
37 all docs	37 docs citations	37 times ranked	1093 citing authors

#	Article	IF	Citations
1	Techno-economic analysis of CSP incorporating sCO2 brayton power cycles: Trade-off between cost and performance. AIP Conference Proceedings, 2022, , .	0.3	5
2	Dynamic thermal analysis of an external cylindrical receiver in an object-oriented modelling paradigm. AIP Conference Proceedings, 2022, , .	0.3	5
3	Adoption of CO2 blended with C6F6 as working fluid in CSP plants. AIP Conference Proceedings, 2022, , .	0.3	4
4	Off-design performance of closed OTEC cycles for power generation. Renewable Energy, 2021, 170, 1353-1366.	4.3	25
5	sCO2 power plants for waste heat recovery: design optimization and part-load operation strategies. Applied Thermal Engineering, 2021, 195, 117013.	3.0	40
6	A two-step procedure for the selection of innovative high temperature heat transfer fluids in solar tower power plants. Renewable Energy, 2021, 177, 807-822.	4.3	22
7	Small scale solar tower coupled with micro gas turbine. Renewable Energy, 2020, 147, 570-583.	4.3	34
8	Optimization of cleaning strategies for heliostat fields in solar tower plants. Solar Energy, 2020, 204, 501-514.	2.9	24
9	SCARABEUS: Supercritical carbon dioxide/alternative fluid blends for efficiency upgrade of solar power plants. AIP Conference Proceedings, 2020, , .	0.3	5
10	Object-oriented modelling of an external receiver for solar tower application: Dynamic simulation and impact of soiling. AIP Conference Proceedings, 2020, , .	0.3	2
11	Techno-economic analysis of closed OTEC cycles for power generation. Renewable Energy, 2019, 132, 1018-1033.	4.3	69
12	Water Mixtures as Working Fluids in Organic Rankine Cycles. Energies, 2019, 12, 2629.	1.6	8
13	Off-design model of concentrating solar power plant with thermochemical energy storage based on calcium-looping. AIP Conference Proceedings, 2019, , .	0.3	10
14	Modelling the soiling of heliostats: Assessment of the optical efficiency and impact of cleaning operations. AIP Conference Proceedings, 2019, , .	0.3	11
15	Techno-Economic Assessment in a Fluidized Bed Membrane Reactor for Small-Scale H2 Production: Effect of Membrane Support Thickness. Membranes, 2019, 9, 116.	1.4	8
16	Life Cycle Assessment and Economic Analysis of an Innovative Biogas Membrane Reformer for Hydrogen Production. Processes, 2019, 7, 86.	1.3	26
17	CO2 mixtures as innovative working fluid in power cycles applied to solar plants. Techno-economic assessment. Solar Energy, 2019, 181, 530-544.	2.9	60
18	Dinitrogen tetroxide and carbon dioxide mixtures as working fluids in solar tower plants. Solar Energy, 2019, 181, 203-213.	2.9	29

#	Article	IF	Citations
19	Multi Objective Optimization of Flexible Supercritical CO2 Coal-Fired Power Plants. , 2019, , .		4
20	Process integration of Calcium-Looping thermochemical energy storage system in concentrating solar power plants. Energy, 2018, 155, 535-551.	4.5	112
21	Comparison of sodium and KCl-MgCl2 as heat transfer fluids in CSP solar tower with sCO2 power cycles. Solar Energy, 2018, 162, 510-524.	2.9	66
22	Innovative fluids for gas power cycles coupled with solar tower systems. AIP Conference Proceedings, 2018, , .	0.3	2
23	Green Hydrogen Production from Raw Biogas: A Techno-Economic Investigation of Conventional Processes Using Pressure Swing Adsorption Unit. Processes, 2018, 6, 19.	1.3	71
24	Heliostat aiming point optimization for external tower receiver. Solar Energy, 2017, 157, 1114-1129.	2.9	41
25	Solar hydrogen production with cerium oxides thermochemical cycle. AIP Conference Proceedings, 2017, , .	0.3	10
26	Preliminary Assessment of sCO 2 Power Cycles for Application to CSP Solar Tower Plants. Energy Procedia, 2017, 105, 1116-1122.	1.8	42
27	Preliminary assessment of sCO2 cycles for power generation in CSP solar tower plants. Applied Energy, 2017, 204, 1007-1017.	5.1	126
28	Comparison of Different Strategies for Heliostats Aiming Point in Cavity and External Tower Receivers. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.1	21
29	An alternative methodology to treat solar radiation data for the optical efficiency estimate of different types of collectors. Solar Energy, 2014, 110, 807-817.	2.9	20
30	Comparison of Linear and Point Focus Collectors in Solar Power Plants. Energy Procedia, 2014, 49, 1491-1500.	1.8	39
31	Comparison of Two Linear Collectors in Solar Thermal Plants: Parabolic Trough Versus Fresnel. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	68
32	Geometric analysis of three-dimensional effects of parabolic trough collectors. Solar Energy, 2013, 88, 88-96.	2.9	36
33	Comparison of different solar plants based on parabolic trough technology. Solar Energy, 2012, 86, 1208-1221.	2.9	139
34	Integration of SEWGS for carbon capture in natural gas combined cycle. Part A: Thermodynamic performances. International Journal of Greenhouse Gas Control, 2011, 5, 200-213.	2.3	25
35	Integration of SEWGS for carbon capture in Natural Gas Combined Cycle. Part B: Reference case comparison. International Journal of Greenhouse Gas Control, 2011, 5, 214-225.	2.3	34
36	Comparison of Two Linear Collectors in Solar Thermal Plants: Parabolic Trough vs Fresnel. , 2011, , .		17