

Carolina Marugan-Cruz

List of Publications by Year in descending order

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31
papers

692
citations

516710

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552781

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31
all docs

31
docs citations

31
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658
citing authors

#	ARTICLE	IF	CITATIONS
1	Alkali-activated and hybrid materials: Alternative to Portland cement as a storage media for solar thermal energy. Boletín De La Sociedad Espanola De Ceramica Y Vidrio, 2023, 62, 160-173.	1.9	5
2	The water cost effect of hybrid-parallel condensing systems in the thermo-economical performance of solar tower plants. Applied Thermal Engineering, 2021, 202, 117801.	6.0	5
3	Towards zero water consumption in solar tower power plants. Applied Thermal Engineering, 2020, 178, 115505.	6.0	12
4	Experimental and numerical study of the heat transfer process during the startup of molten salt tower receivers. Applied Thermal Engineering, 2020, 178, 115528.	6.0	21
5	Comparison of the heat transfer characteristics of molten salt, liquid sodium and supercritical CO ₂ in bayonet tubes of solar tower receivers. AIP Conference Proceedings, 2019, , .	0.4	2
6	Experimental test of tubular external molten salt receivers under non-steady state conditions. AIP Conference Proceedings, 2019, , .	0.4	2
7	Inverse heat problem of determining unknown surface heat flux in a molten salt loop. International Journal of Heat and Mass Transfer, 2019, 139, 503-516.	4.8	19
8	Solar multiple optimization of a DSG linear Fresnel power plant. Energy Conversion and Management, 2019, 184, 571-580.	9.2	24
9	Distributor performance in a bubbling fluidized bed: Effects of multiple gas inlet jet and bubble generation. Chemical Engineering Science, 2019, 195, 367-380.	3.8	13
10	Thermo-mechanical modelling of solar central receivers: Effect of incident solar flux resolution. Solar Energy, 2018, 165, 43-54.	6.1	29
11	Improving the efficiency of gas turbine systems with volumetric solar receivers. Energy Conversion and Management, 2017, 149, 579-592.	9.2	25
12	Thermodynamic and economic assessment of a new generation of subcritical and supercritical solar power towers. Energy, 2017, 118, 534-544.	8.8	9
13	Heat transfer experiments with a central receiver tube subjected to unsteady and non-uniform heat flux. AIP Conference Proceedings, 2017, , .	0.4	3
14	Heat transfer and thermal stresses in a circular tube with a non-uniform heat flux. International Journal of Heat and Mass Transfer, 2016, 96, 256-266.	4.8	66
15	Flow patterns of external solar receivers. Solar Energy, 2015, 122, 940-953.	6.1	36
16	District cooling network connected to a solar power tower. Applied Thermal Engineering, 2015, 79, 174-183.	6.0	22
17	Defluidization and agglomeration of a fluidized bed reactor during <i>Cynara cardunculus</i> L. gasification using sepiolite as a bed material. Fuel Processing Technology, 2015, 131, 338-347.	7.2	26
18	District Cooling Using Central Tower Power Plant. Energy Procedia, 2014, 49, 1800-1809.	1.8	8

#	ARTICLE	IF	CITATIONS
19	Comparison of simplified heat transfer models and CFD simulations for molten salt external receiver. Applied Thermal Engineering, 2014, 73, 993-1005.	6.0	83
20	Saving assessment using the PERS in solar power towers. Energy Conversion and Management, 2014, 87, 810-819.	9.2	15
21	Simulation and experimental study on the motion of non-reacting objects in the freeboard of a fluidized bed. Powder Technology, 2014, 263, 112-120.	4.2	13
22	New Designs of Molten-salt Tubular-receiver for Solar Power Tower. Energy Procedia, 2014, 49, 504-513.	1.8	39
23	Thermal Stresses Analysis of a Circular Tube in a Central Receiver. Energy Procedia, 2014, 49, 354-362.	1.8	27
24	Plunging to spilling transition in corner surface waves in the wake of a partially submerged vertical plate. Experiments in Fluids, 2013, 54, 1.	2.4	3
25	Formation regimes of vortex rings in negatively buoyant starting jets. Journal of Fluid Mechanics, 2013, 716, 470-486.	3.4	17
26	Estimation and experimental validation of the circulation time in a 2D gas-solid fluidized beds. Powder Technology, 2013, 235, 669-676.	4.2	27
27	Energy and exergy analysis in an asphalt plant's rotary dryer. Applied Thermal Engineering, 2011, 31, 1039-1049.	6.0	72
28	Dynamics of large turbulent structures in a steady breaker. Experimental Thermal and Fluid Science, 2011, 35, 301-310.	2.7	15
29	Dense-phase velocity fluctuation in a 2-D fluidized bed. Powder Technology, 2010, 200, 37-45.	4.2	35
30	Negatively buoyant starting jets. Physics of Fluids, 2009, 21, 117101.	4.0	19
31	Influence of Trailing Jet Instability on the Dynamics of Starting Jets. Mathematics in Industry, 2008, , 758-762.	0.3	0