

# Carolina Marugan-Cruz

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

692  
citations

516710

16  
h-index

552781

26  
g-index

31  
all docs

31  
docs citations

31  
times ranked

658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of simplified heat transfer models and CFD simulations for molten salt external receiver. Applied Thermal Engineering, 2014, 73, 993-1005.	6.0	83
2	Energy and exergy analysis in an asphalt plant's rotary dryer. Applied Thermal Engineering, 2011, 31, 1039-1049.	6.0	72
3	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
4	New Designs of Molten-salt Tubular-receiver for Solar Power Tower. Energy Procedia, 2014, 49, 504-513.	1.8	39
5	Flow patterns of external solar receivers. Solar Energy, 2015, 122, 940-953.	6.1	36
6	Dense-phase velocity fluctuation in a 2-D fluidized bed. Powder Technology, 2010, 200, 37-45.	4.2	35
7	Thermo-mechanical modelling of solar central receivers: Effect of incident solar flux resolution. Solar Energy, 2018, 165, 43-54.	6.1	29
8	Estimation and experimental validation of the circulation time in a 2D gas-solid fluidized beds. Powder Technology, 2013, 235, 669-676.	4.2	27
9	Thermal Stresses Analysis of a Circular Tube in a Central Receiver. Energy Procedia, 2014, 49, 354-362.	1.8	27
10	Defluidization and agglomeration of a fluidized bed reactor during Cynara cardunculus L. gasification using sepiolite as a bed material. Fuel Processing Technology, 2015, 131, 338-347.	7.2	26
11	Improving the efficiency of gas turbine systems with volumetric solar receivers. Energy Conversion and Management, 2017, 149, 579-592.	9.2	25
12	Solar multiple optimization of a DSG linear Fresnel power plant. Energy Conversion and Management, 2019, 184, 571-580.	9.2	24
13	District cooling network connected to a solar power tower. Applied Thermal Engineering, 2015, 79, 174-183.	6.0	22
14	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
15	Negatively buoyant starting jets. Physics of Fluids, 2009, 21, 117101.	4.0	19
16	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
17	Formation regimes of vortex rings in negatively buoyant starting jets. Journal of Fluid Mechanics, 2013, 716, 470-486.	3.4	17
18	Dynamics of large turbulent structures in a steady breaker. Experimental Thermal and Fluid Science, 2011, 35, 301-310.	2.7	15

#	ARTICLE	IF	CITATIONS
19	Saving assessment using the PERS in solar power towers. Energy Conversion and Management, 2014, 87, 810-819.	9.2	15
20	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
21	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
22	Towards zero water consumption in solar tower power plants. Applied Thermal Engineering, 2020, 178, 115505.	6.0	12
23	Thermodynamic and economic assessment of a new generation of subcritical and supercritical solar power towers. Energy, 2017, 118, 534-544.	8.8	9
24	District Cooling Using Central Tower Power Plant. Energy Procedia, 2014, 49, 1800-1809.	1.8	8
25	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
26	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
27	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
28	Heat transfer experiments with a central receiver tube subjected to unsteady and non-uniform heat flux. AIP Conference Proceedings, 2017, , .	0.4	3
29	Comparison of the heat transfer characteristics of molten salt, liquid sodium and supercritical CO2 in bayonet tubes of solar tower receivers. AIP Conference Proceedings, 2019, , .	0.4	2
30	Experimental test of tubular external molten salt receivers under non-steady state conditions. AIP Conference Proceedings, 2019, , .	0.4	2
31	Influence of Trailing Jet Instability on the Dynamics of Starting Jets. Mathematics in Industry, 2008, , 758-762.	0.3	0