

Francisco J Collado

List of Publications by Year in descending order

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28
papers

948
citations

758635

12
h-index

500791

28
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28
all docs

28
docs citations

28
times ranked

474
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of optimized design layouts for solar power tower plants with campo code. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 20, 142-154.	8.2	169
2	Campo: Generation of regular heliostat fields. <i>Renewable Energy</i> , 2012, 46, 49-59.	4.3	149
3	One-point fitting of the flux density produced by a heliostat. <i>Solar Energy</i> , 2010, 84, 673-684.	2.9	97
4	An analytic function for the flux density due to sunlight reflected from a heliostat. <i>Solar Energy</i> , 1986, 37, 215-234.	2.9	94
5	Preliminary design of surrounding heliostat fields. <i>Renewable Energy</i> , 2009, 34, 1359-1363.	4.3	80
6	Calculation of the annual thermal energy supplied by a defined heliostat field. <i>Solar Energy</i> , 1989, 42, 149-165.	2.9	77
7	Quick evaluation of the annual heliostat field efficiency. <i>Solar Energy</i> , 2008, 82, 379-384.	2.9	70
8	Two-stages optimised design of the collector field of solar power tower plants. <i>Solar Energy</i> , 2016, 135, 884-896.	2.9	46
9	Quick design of regular heliostat fields for commercial solar tower power plants. <i>Energy</i> , 2019, 178, 115-125.	4.5	36
10	Fast and reliable flux map on cylindrical receivers. <i>Solar Energy</i> , 2018, 169, 556-564.	2.9	20
11	A two-parameter aiming strategy to reduce and flatten the flux map in solar power tower plants. <i>Solar Energy</i> , 2019, 188, 185-189.	2.9	20
12	The entropy balance for boiling flow. <i>Fusion Engineering and Design</i> , 2001, 56-57, 199-203.	1.0	12
13	The law of stable equilibrium and the entropy-based boiling curve for flow boiling. <i>Energy</i> , 2005, 30, 807-819.	4.5	11
14	Thermodynamics of Void Fraction in Saturated Flow Boiling. <i>Journal of Heat Transfer</i> , 2006, 128, 611-615.	1.2	9
15	New one-dimensional hydrodynamics of circulating fluidized bed risers. <i>Granular Matter</i> , 2016, 18, 1.	1.1	9
16	Hydrodynamics model for the dilute zone of circulating fluidized beds. <i>Powder Technology</i> , 2018, 328, 108-113.	2.1	8
17	Reynolds transport theorem for a two-phase flow. <i>Applied Physics Letters</i> , 2007, 90, 024101.	1.5	5
18	Hyperbolic conservation laws for continuous two-phase flow without mass exchange. <i>Computers and Mathematics With Applications</i> , 2014, 67, 1622-1630.	1.4	5

#	ARTICLE	IF	CITATIONS
19	Improved heliostat field design for solar tower plants. AIP Conference Proceedings, 2017, , .	0.3	5
20	New considerations on the mass and energy balances in one-dimensional two-phase flow at steady state. Powder Technology, 1997, 92, 195-204.	2.1	4
21	Changes of enthalpy slope in subcooled flow boiling. Heat and Mass Transfer, 2006, 42, 437-448.	1.2	4
22	Scaling campo code to commercial solar tower plants. AIP Conference Proceedings, 2018, , .	0.3	4
23	Comparison of in-furnace dry sorbent injection full-scale tests with laboratory-scale sulfation correlations. Environmental Progress, 2003, 22, 189-198.	0.8	3
24	Thermodynamics of Flow Boiling Heat Transfer. Journal of Non-Equilibrium Thermodynamics, 2003, 28, .	2.4	3
25	A new heat balance for flow boiling. AIChE Journal, 2007, 53, 2123-2130.	1.8	3
26	Thermodynamics of gas-solid flow. AIChE Journal, 2002, 48, 1100-1108.	1.8	2
27	Critical heat flux thermodynamics. Fusion Engineering and Design, 2002, 61-62, 165-170.	1.0	2
28	Void fraction in horizontal bulk flow boiling at high flow qualities. Energy Conversion and Management, 2008, 49, 644-651.	4.4	1