

Julian D Osorio

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

407
citations

687363

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all docs

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19
times ranked

369
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic analysis of concentrated solar supercritical CO ₂ -based power generation closed-loop cycle. <i>Applied Thermal Engineering</i> , 2016, 93, 920-934.	6.0	88
2	Performance analysis of Parabolic Trough Collectors with Double Glass Envelope. <i>Renewable Energy</i> , 2019, 130, 1092-1107.	8.9	40
3	Effect of multi-tank thermal energy storage, recuperator effectiveness, and solar receiver conductance on the performance of a concentrated solar supercritical CO ₂ -based power plant operating under different seasonal conditions. <i>Energy</i> , 2016, 115, 353-368.	8.8	39
4	Integration of transparent insulation materials into solar collector devices. <i>Solar Energy</i> , 2017, 147, 8-21.	6.1	39
5	Microstructure characterization of thermal barrier coating systems after controlled exposure to a high temperature. <i>Ceramics International</i> , 2014, 40, 4663-4671.	4.8	32
6	Efficiency enhancement of spark-ignition engines using a Continuous Variable Valve Timing system for load control. <i>Energy</i> , 2018, 161, 649-662.	8.8	22
7	Correlations Between Microstructure and Mechanical Properties of Air Plasma-Sprayed Thermal Barrier Coatings Exposed to a High Temperature. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3901-3907.	3.8	19
8	Forecasting solar-thermal systems performance under transient operation using a data-driven machine learning approach based on the deep operator network architecture. <i>Energy Conversion and Management</i> , 2022, 252, 115063.	9.2	19
9	Extracting energy from ocean thermal and salinity gradients to power unmanned underwater vehicles: State of the art, current limitations, and future outlook. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 160, 112283.	16.4	17
10	Effect of the concentration ratio on energetic and exergetic performance of concentrating solar collectors with integrated transparent insulation materials. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 32, 58-70.	2.7	15
11	Enabling thermal efficiency improvement and waste heat recovery using liquid air harnessed from offshore renewable energy sources. <i>Applied Energy</i> , 2020, 275, 115351.	10.1	15
12	Influence of the concentration ratio on the thermal and economic performance of parabolic trough collectors. <i>Renewable Energy</i> , 2022, 181, 786-802.	8.9	15
13	Diffusion reaction of aluminum and oxygen in thermally grown Al ₂ O ₃ oxide layers. <i>Heat and Mass Transfer</i> , 2014, 50, 483-492.	2.1	13
14	Phase transformations in air plasma-sprayed yttria-stabilized zirconia thermal barrier coatings. <i>DYNA (Colombia)</i> , 2014, 81, 13.	0.4	12
15	Shape optimization of thin flat plate fins with geometries defined by linear piecewise functions. <i>Applied Thermal Engineering</i> , 2017, 112, 572-584.	6.0	6
16	Grid-Scale Ternary-Pumped Thermal Electricity Storage for Flexible Operation of Nuclear Power Generation under High Penetration of Renewable Energy Sources. <i>Energies</i> , 2021, 14, 3858.	3.1	5
17	Predicting the Slope of the Temperature-Entropy Vapor Saturation Curve for Working Fluid Selection Based on Lee-Kesler Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 956-969.	3.7	4
18	Comparative analysis of natural gas cogeneration incentives on electricity production in Latin America. <i>Energy Policy</i> , 2020, 142, 111466.	8.8	4

#	ARTICLE	IF	CITATIONS
19	Thermodynamic Modeling of Heat Engines Including Heat Transfer and Compressionâ€“Expansion Irreversibilities. Journal of Thermal Science and Engineering Applications, 2022, 14, .	1.5	3