Alexis Cantizano

List of Publications by Year
in descending order

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21 papers	464 citations	759233 12 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	364 citing authors

#	Article	IF	Citations
1	A novel supercritical CO2 recompression Brayton power cycle for power tower concentrating solar plants. Applied Energy, 2020, 263, 114644.	10.1	82
2	Modeling and sizing of the heat exchangers of a new supercritical CO2 Brayton power cycle for energy conversion for fusion reactors. Fusion Engineering and Design, 2014, 89, 1905-1908.	1.9	55
3	Supercritical CO2 Brayton power cycles for DEMO fusion reactor based on Helium Cooled Lithium Lead blanket. Applied Thermal Engineering, 2015, 76, 123-133.	6.0	46
4	Numerical simulation of wear-mechanism maps. Computational Materials Science, 2002, 25, 54-60.	3.0	39
5	Supercritical CO2 Brayton power cycles for DEMO (demonstration power plant) fusion reactor based on dual coolant lithium lead blanket. Energy, 2016, 98, 271-283.	8.8	36
6	Influence of atrium roof geometries on the numerical predictions of fire tests under natural ventilation conditions. Energy and Buildings, 2013, 65, 382-390.	6.7	34
7	Fire Experiments and Simulations in a Full-scale Atrium Under Transient and Asymmetric Venting Conditions. Fire Technology, 2016, 52, 51-78.	3.0	25
8	Enhanced arrangement for recuperators in supercritical CO2 Brayton power cycle for energy conversion in fusion reactors. Fusion Engineering and Design, 2014, 89, 1909-1912.	1.9	24
9	Recuperated versus single-recuperator re-compressed supercritical CO2 Brayton power cycles for DEMO fusion reactor based on dual coolant lithium lead blanket. Energy, 2017, 140, 307-317.	8.8	24
10	Sizing of a recuperative supercritical CO2 Brayton cycle as power conversion system for DEMO fusion reactor based on Dual Coolant Lithium Lead blanket. Fusion Engineering and Design, 2018, 134, 79-91.	1.9	18
11	The Use of Fractional Factorial Design for Atrium Fires Prediction. Fire Technology, 2017, 53, 893-916.	3.0	13
12	A Novel Supercritical CO₂ Power Cycle for Energy Conversion in Fusion Power Plants. Fusion Science and Technology, 2013, 64, 483-487.	1.1	12
13	Review and Validation of the Current Smoke Plume Entrainment Models for Large-Volume Buildings. Fire Technology, 2019, 55, 789-816.	3.0	12
14	Numerical modeling and design of supercritical CO2 pre-cooler for fusion nuclear reactors. Fusion Engineering and Design, 2012, 87, 1329-1332.	1.9	10
15	Factors Affecting the Make-Up Air and Their Influence on the Dynamics of Atrium Fires. Fire Technology, 2018, 54, 1067-1091.	3.0	10
16	Experimental and computational study of smoke dynamics from multiple fire sources inside a large-volume building. Building Simulation, 2021, 14, 1147-1161.	5.6	10
17	A coupled hybrid numerical study of tunnel longitudinal ventilation under fire conditions. Case Studies in Thermal Engineering, 2022, 36, 102202.	5.7	6
18	A Modelica dynamic model of a supercritical CO2 energy conversion system for EU-DEMO. Fusion Engineering and Design, 2021, 173, 112826.	1.9	3

#	Article	IF	Citations
19	Efficient Multi-objective Optimization for Gas Turbine Discs. Advanced Structured Materials, 2014, , 227-255.	0.5	3
20	Human Factors in the Model of Urban Fire Spread in Madrid (Spain) Focused on the Poor Population. Sustainability, 2022, 14, 4486.	3.2	2
21	Proposal and sizing of a molten Salt-to-sCO2 heat exchanger in supercritical solar thermal power plants. AIP Conference Proceedings, 2022, , .	0.4	0