

Fernando Z Sierra

List of Publications by Year in descending order

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papers

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times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulent cylinder-stirred flow heat and momentum transfer research in batch operated single-phase square reactor. <i>International Journal of Thermal Sciences</i> , 2022, 172, 107325.	4.9	3
2	Power characteristics of a 70/30 wt.% PVDF/PMMA film in roadway electricity generation. <i>Sensors and Actuators A: Physical</i> , 2021, 317, 112461.	4.1	5
3	Enhanced thermal efficiency organic Rankine cycle for renewable power generation. <i>Applied Thermal Engineering</i> , 2021, 189, 116706.	6.0	4
4	Thermal effectiveness of wind-tower with heated exit-wall and inlet-air humidification: Effects of winter and summertime. <i>Building and Environment</i> , 2021, 204, 108110.	6.9	6
5	Experimental study of piezoelectric polymeric film as energy harvester. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115366.	3.5	10
6	<i>E. coli</i> Inactivation Kinetics Modeling in a Taylor-Couette UV Disinfection Reactor. <i>International Journal of Photoenergy</i> , 2020, 2020, 1-11.	2.5	1
7	Experimental data and numerical predictions of a single-phase flow in a batch square stirred tank reactor with a rotating cylinder agitator. <i>Heat and Mass Transfer</i> , 2017, 53, 2933-2949.	2.1	12
8	Experimental study of dynamic porosity and its effects on simulation of the coffee beans roasting. <i>Journal of Food Engineering</i> , 2017, 199, 100-112.	5.2	24
9	Effect of the Modification of the Start-Up Sequence on the Thermal Stresses for a Microgas Turbine. <i>International Journal of Rotating Machinery</i> , 2016, 2016, 1-8.	0.8	0
10	Fenton Process Coupled to Ultrasound and UV Light Irradiation for the Oxidation of a Model Pollutant. <i>Journal of Chemistry</i> , 2016, 2016, 1-7.	1.9	20
11	Theoretical and experimental analysis of the heat transfer in a helical condenser for a heat transformer integrated to a water purification system. <i>Desalination and Water Treatment</i> , 2016, 57, 23132-23146.	1.0	0
12	Hydrodynamic design of electrochemical reactors based on computational fluid dynamics. <i>Desalination and Water Treatment</i> , 2016, 57, 22968-22979.	1.0	10
13	CFD prediction and experimental validation of surface cathode concentration in filter press parallel plate electrolyzers. <i>Catalysis Today</i> , 2016, 271, 227-234.	4.4	7
14	Experimental study of air-water up-flow in a packed column using laser Doppler anemometry. <i>Desalination and Water Treatment</i> , 2015, 55, 3676-3682.	1.0	0
15	Flow field obtained by PIV technique for a scaled building-wind tower model in a wind tunnel. <i>Energy and Buildings</i> , 2015, 107, 424-433.	6.7	23
16	Modeling methylene blue oxidation by means of Fenton chemistry enhanced by UV irradiation at mild conditions. <i>Desalination and Water Treatment</i> , 2015, 55, 3646-3652.	1.0	2
17	Cyclic strain rate in tyres as power source to augment automobile autonomy. <i>International Journal of Vehicle Design</i> , 2014, 65, 270.	0.3	8
18	A study of air flow and heat transfer in building-wind tower passive cooling systems applied to arid and semi-arid regions of Mexico. <i>Energy and Buildings</i> , 2013, 66, 211-221.	6.7	36

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19	CFD evaluation of internal manifold effects on mass transport distribution in a laboratory filter-press flow cell. Journal of Applied Electrochemistry, 2013, 43, 453-465.	2.9	23
20	Experimental and Numerical Study of Gap Size and Cooling Flow Rate Effects on Tip Flow of Gas Turbine Blade. International Journal of Turbo and Jet Engines, 2013, 30, .	0.7	1
21	Instabilities on Nozzle-Wake Loads due to Axial Clearance and Throat Variations in a First Stage Turbine. International Journal of Turbo and Jet Engines, 2013, 30, .	0.7	1
22	Vibration failure in admission pipe of a steam turbine due to flow instability. Engineering Failure Analysis, 2013, 27, 30-40.	4.0	12
23	Measurement and Modelling of Blade Tip Cooling in Gas Turbines. , 2013, , .		0
24	Modeling and Validation of Heat and Mass Transfer in Individual Coffee Beans during the Coffee Roasting Process Using Computational Fluid Dynamics (CFD). Chimia, 2013, 67, 291.	0.6	11
25	Thermomechanical Stress Distributions in a Gas Turbine Blade Under the Effect of Cooling Flow Variations. Journal of Turbomachinery, 2013, 135, .	1.7	7
26	Prediction of mass transport profiles in a laboratory filter-press electrolyser by computational fluid dynamics modelling. Electrochimica Acta, 2010, 55, 3446-3453.	5.2	18
27	Simulation of velocity profiles in a laboratory electrolyser using computational fluid dynamics. Electrochimica Acta, 2010, 55, 3437-3445.	5.2	33
28	Heat Transfer and Thermal Mechanical Stress Distributions in Gas Turbine Blades. , 2009, , .		4
29	Failure analysis of the 350MW steam turbine blade root. Engineering Failure Analysis, 2009, 16, 1270-1281.	4.0	28
30	Influence of Cooling Flow Rate Variation on Gas Turbine Blade Temperature Distributions. , 2008, , .		2
31	Numerical Analysis of the Blade Forces Caused by Wake/Blade Interaction in the Last Stage of a Steam Turbine. , 2007, , 283.		3
32	Failure analysis of steam turbine last stage blade tenon and shroud. Engineering Failure Analysis, 2007, 14, 1476-1487.	4.0	23
33	Concept on thermoeconomic evaluation of steam turbines. Applied Thermal Engineering, 2007, 27, 457-466.	6.0	29
34	Definition of the flow dynamics by numerical analysis in a filterpress reactor. International Journal of Hydrogen Energy, 2007, 32, 3126-3132.	7.1	1
35	3-Dimensional Pressure Driven Temperature Field in a Gas Turbine Combustion Chamber. , 2006, , .		0
36	Prediction of temperature front in a gas turbine combustion chamber. Applied Thermal Engineering, 2005, 25, 1127-1140.	6.0	8

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37	Special Instrumentation and Hydraulic Turbine Flow Measurements Using a Pressure-Time Method. , 2005, , 433.		4
38	Rotating Effects on Heat Transfer Rate in a Cooling Air Passage of a Gas Turbine Blade. , 2004, , 237.		0
39	Temperature distribution in an oscillatory flow with a sinusoidal wall temperature. International Journal of Heat and Mass Transfer, 2004, 47, 4929-4938.	4.8	13
40	Pressure Driven Temperature Field in a Combustion Chamber. , 2004, , .		0
41	Steady natural convection in a cylindrical cavity. International Communications in Heat and Mass Transfer, 2002, 29, 213-221.	5.6	14
42	Numerical analysis of erosion of the rotor labyrinth seal in a geothermal turbine. Geothermics, 2002, 31, 563-577.	3.4	8
43	Modelling of the flow at the rotor disc in a geothermal turbine of 110 MW. Applied Thermal Engineering, 2001, 21, 599-611.	6.0	1
44	Turbulent flow in a 90° pipe junction. Computers and Fluids, 2000, 29, 215-233.	2.5	24
45	Modelling of the flow at the last stage blade tenon in a geothermal turbine using renormalization group theory turbulence model. Applied Thermal Engineering, 2000, 20, 81-101.	6.0	9
46	Turbulent flow in a 90° pipe junction. Computers and Fluids, 2000, 29, 197-213.	2.5	24
47	Experiments on an absorption refrigeration system powered by a solar pond. Heat Recovery Systems & CHP, 1993, 13, 401-408.	0.3	24
48	Development of a submersible shadowgraph for the study of interfaces in salt-gradient solar ponds. Solar Energy, 1989, 43, 145-151.	6.1	0
49	Experimental study of inlet effects on mass transport in electrochemical filter-press parallel reactors. , 0, 73, 127-136.		5
50	Simulation and experimental validation of Taylor-Couette flow in square cross-section container for water treatment reactor. , 0, 73, 353-372.		2