

Javier F UrchueguÃ-a

List of Publications by Year in descending order

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53
papers

1,540
citations

331670

21
h-index

315739

38
g-index

53
all docs

53
docs citations

53
times ranked

1572
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Recent Passive Heat Transfer Enhancement Methods. <i>Energies</i> , 2022, 15, 986.	3.1	60
2	Laboratory and numerical study on innovative grouting materials applicable to borehole heat exchangers (BHE) and borehole thermal energy storage (BTES) systems. <i>Renewable Energy</i> , 2022, 194, 788-804.	8.9	10
3	Impact of Employing Hybrid Nanofluids as Heat Carrier Fluid on the Thermal Performance of a Borehole Heat Exchanger. <i>Energies</i> , 2021, 14, 2892.	3.1	18
4	A Case Study of Thermal Evolution in the Vicinity of Geothermal Probes Following a Distributed TRT Method. <i>Energies</i> , 2021, 14, 2632.	3.1	3
5	Evaluation of the Shallow Geothermal Potential for Heating and Cooling and Its Integration in the Socioeconomic Environment: A Case Study in the Region of Murcia, Spain. <i>Energies</i> , 2021, 14, 5740.	3.1	9
6	Exploration with Process Mining on How Temperature Change Affects Hospital Emergency Departments. <i>Lecture Notes in Business Information Processing</i> , 2021, , 368-379.	1.0	1
7	Heterologous Production of Glycine Betaine Using <i>Synechocystis</i> sp. PCC 6803-Based Chassis Lacking Native Compatible Solutes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 821075.	4.1	3
8	A review of the legal framework in shallow geothermal energy in selected European countries: Need for guidelines. <i>Renewable Energy</i> , 2020, 147, 2556-2571.	8.9	62
9	Effect of thermal loads on pre-cast concrete thermopile in Valencia, Spain. <i>Environmental Geotechnics</i> , 2020, 7, 208-222.	2.3	4
10	Theoretical and Experimental Cost-Benefit Assessment of Borehole Heat Exchangers (BHEs) According to Working Fluid Flow Rate. <i>Energies</i> , 2020, 13, 4925.	3.1	12
11	Evaluation of electrical signals in pine trees in a mediterranean forest ecosystem. <i>Plant Signaling and Behavior</i> , 2020, 15, 1795580.	2.4	3
12	Numerical Study on the Thermal Performance of a Single U-Tube Borehole Heat Exchanger Using Nano-Enhanced Phase Change Materials. <i>Energies</i> , 2020, 13, 5156.	3.1	38
13	Rational Design of a Genetic Finite State Machine: Combining Biology, Engineering, and Mathematics for Bio-Computer Research. <i>Mathematics</i> , 2020, 8, 1362.	2.2	1
14	Development of advanced materials guided by numerical simulations to improve performance and cost-efficiency of borehole heat exchangers (BHEs). <i>Energy</i> , 2020, 201, 117628.	8.8	31
15	A European Database of Building Energy Profiles to Support the Design of Ground Source Heat Pumps. <i>Energies</i> , 2019, 12, 2496.	3.1	13
16	On the Influence of Renewable Energy Sources in Electricity Price Forecasting in the Iberian Market. <i>Energies</i> , 2019, 12, 2082.	3.1	12
17	Large scale evaluation of differences between network-based and pairwise sequence-alignment-based methods of dendrogram reconstruction. <i>PLoS ONE</i> , 2019, 14, e0221631.	2.5	3
18	CyanoFactory, a European consortium to develop technologies needed to advance cyanobacteria as chassis for production of chemicals and fuels. <i>Algal Research</i> , 2019, 41, 101510.	4.6	24

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19	How Reliable Are Standard Thermal Response Tests? An Assessment Based on Long-Term Thermal Response Tests Under Different Operational Conditions. <i>Energies</i> , 2018, 11, 3347.	3.1	11
20	Thermal Behaviour under Service Loads of a Thermo-Active Precast Pile. <i>Energies</i> , 2017, 10, 1315.	3.1	4
21	On the Influence of Operational and Control Parameters in Thermal Response Testing of Borehole Heat Exchangers. <i>Energies</i> , 2017, 10, 1328.	3.1	18
22	Improving a <i>Synechocystis</i> -based photoautotrophic chassis through systematic genome mapping and validation of neutral sites. <i>DNA Research</i> , 2015, 22, 425-437.	3.4	49
23	<i>Synechocystis</i> sp. PCC6803 metabolic models for the enhanced production of hydrogen. <i>Critical Reviews in Biotechnology</i> , 2015, 35, 184-198.	9.0	7
24	Generation and Evaluation of a Genome-Scale Metabolic Network Model of <i>Synechococcus elongatus</i> PCC7942. <i>Metabolites</i> , 2014, 4, 680-698.	2.9	29
25	New Approach for Phylogenetic Tree Recovery Based on Genome-Scale Metabolic Networks. <i>Journal of Computational Biology</i> , 2014, 21, 508-519.	1.6	7
26	A MODULAR SYNTHETIC DEVICE TO CALIBRATE PROMOTERS. <i>Journal of Biological Systems</i> , 2012, 20, 37-55.	1.4	0
27	Construction of a chassis for hydrogen production: physiological and molecular characterization of a <i>Synechocystis</i> sp. PCC 6803 mutant lacking a functional bidirectional hydrogenase. <i>Microbiology (United Kingdom)</i> , 2012, 158, 448-464.	1.8	30
28	Automation on the Generation of Genome-Scale Metabolic Models. <i>Journal of Computational Biology</i> , 2012, 19, 1295-1306.	1.6	14
29	Experimental and Modeling Analysis of <i>Synechocystis</i> sp. PCC 6803 Growth. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2012, 22, 71-82.	1.0	16
30	Microbial Diversity in the Midguts of Field and Lab-Reared Populations of the European Corn Borer <i>Ostrinia nubilalis</i> . <i>PLoS ONE</i> , 2011, 6, e21751.	2.5	71
31	Analysis of the energy performance of a ground source heat pump system after five years of operation. <i>Energy and Buildings</i> , 2011, 43, 3618-3626.	6.7	71
32	Flux coupling and transcriptional regulation within the metabolic network of the photosynthetic bacterium <i>Synechocystis</i> sp. PCC6803. <i>Biotechnology Journal</i> , 2011, 6, 330-342.	3.5	51
33	Efficiency improvement of a ground coupled heat pump system from energy management. <i>Applied Thermal Engineering</i> , 2011, 31, 391-398.	6.0	19
34	Improving parameter estimates obtained from thermal response tests: Effect of ambient air temperature variations. <i>Geothermics</i> , 2011, 40, 136-143.	3.4	68
35	Aequorin-expressing yeast emits light under electric control. <i>Journal of Biotechnology</i> , 2011, 152, 93-95.	3.8	4
36	Optimization of hybrid “ground coupled and air source” heat pump systems in combination with thermal storage. <i>Applied Thermal Engineering</i> , 2010, 30, 1073-1077.	6.0	67

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37	Reconstruction and analysis of genome-scale metabolic model of a photosynthetic bacterium. <i>BMC Systems Biology</i> , 2010, 4, 156.	3.0	100
38	Comparison between design and actual energy performance of a HVAC-ground coupled heat pump system in cooling and heating operation. <i>Energy and Buildings</i> , 2010, 42, 1394-1401.	6.7	57
39	A cellular automaton based model simulating HVAC fluid and heat transport in a building. Modeling approach and comparison with experimental results. <i>Energy and Buildings</i> , 2010, 42, 1536-1542.	6.7	2
40	Finite line-source model for borehole heat exchangers: effect of vertical temperature variations. <i>Geothermics</i> , 2009, 38, 263-270.	3.4	156
41	Yeast cultures with UCP1 uncoupling activity as a heating device. <i>New Biotechnology</i> , 2009, 26, 300-306.	4.4	7
42	Metabolic flux analysis of the hydrogen production potential in <i>Synechocystis</i> sp. PCC6803. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8828-8838.	7.1	31
43	Heat transfer analysis of intermittent grinding processes. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 4132-4138.	4.8	20
44	Comparison between the energy performance of a ground coupled water to water heat pump system and an air to water heat pump system for heating and cooling in typical conditions of the European Mediterranean coast. <i>Energy Conversion and Management</i> , 2008, 49, 2917-2923.	9.2	144
45	Vanillin cell sensor. <i>IET Synthetic Biology</i> , 2007, 1, 74-78.	0.2	2
46	Mathematical modelling and analytical solution for workpiece temperature in grinding. <i>Applied Mathematical Modelling</i> , 2007, 31, 1039-1047.	4.2	29
47	Performance analysis of a series of hermetic reciprocating compressors working with R290 (propane) and R407C. <i>International Journal of Refrigeration</i> , 2007, 30, 1244-1253.	3.4	10
48	A phenomenological model for analyzing reciprocating compressors. <i>International Journal of Refrigeration</i> , 2007, 30, 1254-1265.	3.4	42
49	Test results of performance and oil circulation rate of commercial reciprocating compressors of different capacities working with propane (R290) as refrigerant. <i>International Journal of Refrigeration</i> , 2005, 28, 881-888.	3.4	34
50	Study about the flashing process through a metering expansion valve. <i>Experimental Thermal and Fluid Science</i> , 2005, 29, 757-763.	2.7	3
51	Optimized design of a heat exchanger for an air-to-water reversible heat pump working with propane (R290) as refrigerant: Modelling analysis and experimental observations. <i>Applied Thermal Engineering</i> , 2005, 25, 2450-2462.	6.0	23
52	A transfer matrix method for the analysis of fractal quantum potentials. <i>European Journal of Physics</i> , 2005, 26, 603-610.	0.6	18
53	Two-photon laser dynamics. <i>Physical Review A</i> , 1995, 52, 4059-4069.	2.5	19