

Javier F UrchueguÃ-a

List of Publications by Year in descending order

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Version: 2024-02-01

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	Finite line-source model for borehole heat exchangers: effect of vertical temperature variations. <i>Geothermics</i> , 2009, 38, 263-270.	3.4	156
2	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
3	Reconstruction and analysis of genome-scale metabolic model of a photosynthetic bacterium. <i>BMC Systems Biology</i> , 2010, 4, 156.	3.0	100
4	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
5	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
6	Improving parameter estimates obtained from thermal response tests: Effect of ambient air temperature variations. <i>Geothermics</i> , 2011, 40, 136-143.	3.4	68
7	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
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	A Review of Recent Passive Heat Transfer Enhancement Methods. <i>Energies</i> , 2022, 15, 986.	3.1	60
10	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
11	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
12	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
13	A phenomenological model for analyzing reciprocating compressors. <i>International Journal of Refrigeration</i> , 2007, 30, 1254-1265.	3.4	42
14	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
15	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
16	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
17	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
18	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

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19	Mathematical modelling and analytical solution for workpiece temperature in grinding. Applied Mathematical Modelling, 2007, 31, 1039-1047.	4.2	29
20	Generation and Evaluation of a Genome-Scale Metabolic Network Model of Synechococcus elongatus PCC7942. Metabolites, 2014, 4, 680-698.	2.9	29
21	CyanoFactory, a European consortium to develop technologies needed to advance cyanobacteria as chassis for production of chemicals and fuels. Algal Research, 2019, 41, 101510.	4.6	24
22	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. Applied Thermal Engineering, 2005, 25, 2450-2462.	6.0	23
23	Heat transfer analysis of intermittent grinding processes. International Journal of Heat and Mass Transfer, 2008, 51, 4132-4138.	4.8	20
24	Two-photon laser dynamics. Physical Review A, 1995, 52, 4059-4069.	2.5	19
25	Efficiency improvement of a ground coupled heat pump system from energy management. Applied Thermal Engineering, 2011, 31, 391-398.	6.0	19
26	A transfer matrix method for the analysis of fractal quantum potentials. European Journal of Physics, 2005, 26, 603-610.	0.6	18
27	On the Influence of Operational and Control Parameters in Thermal Response Testing of Borehole Heat Exchangers. Energies, 2017, 10, 1328.	3.1	18
28	Impact of Employing Hybrid Nanofluids as Heat Carrier Fluid on the Thermal Performance of a Borehole Heat Exchanger. Energies, 2021, 14, 2892.	3.1	18
29	Experimental and Modeling Analysis of <i>Synechocystis</i> sp. PCC 6803 Growth. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 71-82.	1.0	16
30	Automation on the Generation of Genome-Scale Metabolic Models. Journal of Computational Biology, 2012, 19, 1295-1306.	1.6	14
31	A European Database of Building Energy Profiles to Support the Design of Ground Source Heat Pumps. Energies, 2019, 12, 2496.	3.1	13
32	On the Influence of Renewable Energy Sources in Electricity Price Forecasting in the Iberian Market. Energies, 2019, 12, 2082.	3.1	12
33	Theoretical and Experimental Cost-Benefit Assessment of Borehole Heat Exchangers (BHEs) According to Working Fluid Flow Rate. Energies, 2020, 13, 4925.	3.1	12
34	How Reliable Are Standard Thermal Response Tests? An Assessment Based on Long-Term Thermal Response Tests Under Different Operational Conditions. Energies, 2018, 11, 3347.	3.1	11
35	Performance analysis of a series of hermetic reciprocating compressors working with R290 (propane) and R407C. International Journal of Refrigeration, 2007, 30, 1244-1253.	3.4	10
36	Laboratory and numerical study on innovative grouting materials applicable to borehole heat exchangers (BHE) and borehole thermal energy storage (BTES) systems. Renewable Energy, 2022, 194, 788-804.	8.9	10

#	ARTICLE	IF	CITATIONS
37	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
38	Yeast cultures with UCP1 uncoupling activity as a heating device. <i>New Biotechnology</i> , 2009, 26, 300-306.	4.4	7
39	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
40	<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
41	Aequorin-expressing yeast emits light under electric control. <i>Journal of Biotechnology</i> , 2011, 152, 93-95.	3.8	4
42	Thermal Behaviour under Service Loads of a Thermo-Active Precast Pile. <i>Energies</i> , 2017, 10, 1315.	3.1	4
43	Effect of thermal loads on pre-cast concrete thermopile in Valencia, Spain. <i>Environmental Geotechnics</i> , 2020, 7, 208-222.	2.3	4
44	Study about the flashing process through a metering expansion valve. <i>Experimental Thermal and Fluid Science</i> , 2005, 29, 757-763.	2.7	3
45	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
46	Evaluation of electrical signals in pine trees in a mediterranean forest ecosystem. <i>Plant Signaling and Behavior</i> , 2020, 15, 1795580.	2.4	3
47	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
48	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
49	Vanillin cell sensor. <i>IET Synthetic Biology</i> , 2007, 1, 74-78.	0.2	2
50	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
51	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
52	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
53	A MODULAR SYNTHETIC DEVICE TO CALIBRATE PROMOTERS. <i>Journal of Biological Systems</i> , 2012, 20, 37-55.	1.4	0