Patricia Palenzuela

List of Publications by Year
in descending order

50 papers	1,385 citations	361296 20 h-index	330025 37 g-index
50 all docs	50 docs citations	50 times ranked	1092 citing authors

#	Article	IF	Citations
1	Solvent extraction regeneration technologies. , 2022, , 163-196.		0
2	Experimental assessment of a pilot scale hybrid cooling system for water consumption reduction in CSP plants. Energy, 2022, 242, 122948.	4.5	4
3	Analysis of the Time Step Influence in the Yearly Simulation of Integrated Seawater Multi-Effect Distillation and Parabolic trough Concentrating Solar Thermal Power Plants. Processes, 2022, 10, 573.	1.3	4
4	Dynamic modeling of a multi-effect vertical falling-film evaporator for water reuse in CSP plants. Desalination, 2022, 529, 115623.	4.0	2
5	A solar energy desalination analysis tool, sedat, with data and models for selecting technologies and regions. Scientific Data, 2022, 9, .	2.4	4
6	Multi-objective optimization of a Concentrating Solar Power+Photovoltaic+Multi-Effect Distillation plant: Understanding the impact of the solar irradiation and the plant location. Energy Conversion and Management: X, 2021, 11, 100088.	0.9	3
7	Comparative assessment of the annual electricity and water production by concentrating solar power and desalination plants: A case study. Applied Thermal Engineering, 2020, 177, 115485.	3.0	14
8	Annual thermoeconomic analysis of a Concentrating Solar Power+Photovoltaic+Multi-Effect Distillation plant in northern Chile. Energy Conversion and Management, 2020, 213, 112852.	4.4	19
9	Thermodynamic Performance and Water Consumption of Hybrid Cooling System Configurations for Concentrated Solar Power Plants. Sustainability, 2020, 12, 4739.	1.6	11
10	Optimal operation of solar thermal desalination systems coupled to double-effect absorption heat pumps. Energy Conversion and Management, 2020, 210, 112705.	4.4	4
11	Assessment of a concentrating solar power plant coupled to a multi-effect distillation with an air-cooled condenser. AIP Conference Proceedings, 2020, , .	0.3	0
12	Concentrating Solar Power and Desalination Plants. Green Energy and Technology, 2019, , 327-340.	0.4	8
13	Parabolic trough collector field dynamic model: Validation, energetic and exergetic analyses. Applied Thermal Engineering, 2019, 148, 777-786.	3.0	11
14	Techno-economic analysis of a stand-alone solar desalination plant at variable load conditions. Applied Thermal Engineering, 2018, 133, 659-670.	3.0	20
15	Optimal operating conditions analysis for a multi-effect distillation plant according to energetic and exergetic criteria.. Desalination, 2018, 435, 70-76.	4.0	29
16	Performance Analysis of a RED-MED Salinity Gradient Heat Engine. Energies, 2018, 11, 3385.	1.6	27
17	Yearly simulations of the electricity and fresh water production in PT-CSP+MED-TVC plants: Case study in Almería (Spain). AIP Conference Proceedings, 2018, , .	0.3	1
18	Techno-economic assessment of a multi-effect distillation plant installed for the production of irrigation water in Arica (Chile). Science of the Total Environment, 2018, 643, 423-434.	3.9	12

#	Article	IF	Citations
19	Energetic evaluation of a double-effect LiBr-H2O absorption heat pump coupled to a multi-effect distillation plant at nominal and off-design conditions. Applied Thermal Engineering, 2018, 142, 543-554.	3.0	13
20	Single and dual stage closed-loop pressure retarded osmosis for power generation: Feasibility and performance. Applied Energy, 2017, 191, 328-345.	5.1	38
21	A dynamic model for MED-TVC transient operation. Desalination, 2017, 413, 234-257.	4.0	26
22	Experimental characterization of a multi-effect distillation system coupled to a flat plate solar collector field: Empirical correlations. Applied Thermal Engineering, 2017, 120, 298-313.	3.0	31
23	Operational analysis of the coupling between a multi-effect distillation unit with thermal vapor compression and a Rankine cycle power block using variable nozzle thermocompressors. Applied Energy, 2017, 204, 690-701.	5.1	23
24	Control strategies in a thermal oil â€" Molten salt heat exchanger. AIP Conference Proceedings, 2016, , .	0.3	7
25	Quasi-steady state simulations of thermal vapor compression multi-effect distillation plants coupled to parabolic trough solar thermal power plants. Desalination and Water Treatment, 2016, 57, 23085-23096.	1.0	6
26	Experimental parametric analysis of a solar pilot-scale multi-effect distillation plant. Desalination and Water Treatment, 2016, 57, 23097-23109.	1.0	8
27	Parametric study of a multi-effect distillation plant with thermal vapor compression for its integration into a Rankine cycle power block. Desalination, 2016, 394, 18-29.	4.0	58
28	Dynamic modeling and simulation of a double-effect absorption heat pump. International Journal of Refrigeration, 2016, 72, 171-191.	1.8	21
29	Large-scale solar desalination by combination with CSP: Techno-economic analysis of different options for the Mediterranean Sea and the Arabian Gulf. Desalination, 2015, 366, 130-138.	4.0	108
30	Techno-economic assessment of a pilot-scale plant for solar desalination based on existing plate and frame MD technology. Desalination, 2015, 374, 70-80.	4.0	44
31	Characterisation of the coupling of multi-effect distillation plants toÂconcentrating solar power plants. Energy, 2015, 82, 986-995.	4.5	50
32	Concentrating Solar Power and Desalination Plants. , 2015, , .		17
33	Comparison between CSP+MED and CSP+RO in Mediterranean Area and MENA Region: Techno-economic Analysis. Energy Procedia, 2015, 69, 1938-1947.	1.8	31
34	Dynamic modeling and simulation of a solar-assisted multi-effect distillation plant. Desalination, 2015, 357, 65-76.	4.0	26
35	Techno-economic Analysis. , 2015, , 137-164.		0
36	Combined Fresh Water and Power Production: State of the Art. , 2015, , 27-60.		0

#	ARTICLE	IF	CITATIONS
37	Steady-State Modelling of a Low-Temperature Multi-effect Distillation Plant. , 2015, , 61-84.		0
38	Forward osmosis pretreatment of seawater to thermal desalination: High temperature FO-MSF/MED hybrid system. Desalination, 2014, 339, 18-25.	4.0	56
39	Operational improvements to increase the efficiency of an absorption heat pump connected to a multi-effect distillation unit. Applied Thermal Engineering, 2014, 63, 84-96.	3.0	16
40	Steady state model for multi-effect distillation case study: Plataforma Solar de AlmerÃa MED pilot plant. Desalination, 2014, 337, 31-42.	4.0	70
41	Dynamic modeling and performance of the first cell of a multi-effect distillation plant. Applied Thermal Engineering, 2014, 70, 410-420.	3.0	23
42	Preliminary thermoeconomic analysis of combined parabolic trough solar power and desalination plant in port Safaga (Egypt). Desalination and Water Treatment, 2013, 51, 1887-1899.	1.0	13
43	Evaluation of cooling technologies of concentrated solar power plants and their combination with desalination in the mediterranean area. Applied Thermal Engineering, 2013, 50, 1514-1521.	3.0	63
44	Parametric equations for the variables of a steady-state model of a multi-effect desalination plant. Desalination and Water Treatment, 2013, 51, 1229-1241.	1.0	22
45	Experimental analysis of a multi-effect distillation unit operated out of nominal conditions. Desalination, 2012, 284, 233-237.	4.0	17
46	Simulation and evaluation of the coupling of desalination units to parabolic-trough solar power plants in the Mediterranean region. Desalination, 2011, 281, 379-387.	4.0	64
47	Assessment of different configurations for combined parabolic-trough (PT) solar power and desalination plants in arid regions. Energy, 2011, 36, 4950-4958.	4.5	106
48	Experimental analysis of an air gap membrane distillation solar desalination pilot system. Journal of Membrane Science, 2011, 379, 386-396.	4.1	233
49	Modeling of the heat transfer of a solar multi-effect distillation plant at the Plataforma Solar de AlmerÃa. Desalination and Water Treatment, 2011, 31, 257-268.	1.0	12
50	Comparative evaluation of two membrane distillation modules. Desalination and Water Treatment, 2011, 31, 226-234.	1.0	10