

# Patricia Palenzuela

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,385  
citations

361413

20  
h-index

330143

37  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental analysis of an air gap membrane distillation solar desalination pilot system. Journal of Membrane Science, 2011, 379, 386-396.	8.2	233
2	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.	8.2	108
3	Assessment of different configurations for combined parabolic-trough (PT) solar power and desalination plants in arid regions. Energy, 2011, 36, 4950-4958.	8.8	106
4	Steady state model for multi-effect distillation case study: Plataforma Solar de Almería MED pilot plant. Desalination, 2014, 337, 31-42.	8.2	70
5	Simulation and evaluation of the coupling of desalination units to parabolic-trough solar power plants in the Mediterranean region. Desalination, 2011, 281, 379-387.	8.2	64
6	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.	6.0	63
7	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.	8.2	58
8	Forward osmosis pretreatment of seawater to thermal desalination: High temperature FO-MSF/MED hybrid system. Desalination, 2014, 339, 18-25.	8.2	56
9	Characterisation of the coupling of multi-effect distillation plants to concentrating solar power plants. Energy, 2015, 82, 986-995.	8.8	50
10	Techno-economic assessment of a pilot-scale plant for solar desalination based on existing plate and frame MD technology. Desalination, 2015, 374, 70-80.	8.2	44
11	Single and dual stage closed-loop pressure retarded osmosis for power generation: Feasibility and performance. Applied Energy, 2017, 191, 328-345.	10.1	38
12	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
13	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.	6.0	31
14	Optimal operating conditions analysis for a multi-effect distillation plant according to energetic and exergetic criteria.. Desalination, 2018, 435, 70-76.	8.2	29
15	Performance Analysis of a RED-MED Salinity Gradient Heat Engine. Energies, 2018, 11, 3385.	3.1	27
16	Dynamic modeling and simulation of a solar-assisted multi-effect distillation plant. Desalination, 2015, 357, 65-76.	8.2	26
17	A dynamic model for MED-TVC transient operation. Desalination, 2017, 413, 234-257.	8.2	26
18	Dynamic modeling and performance of the first cell of a multi-effect distillation plant. Applied Thermal Engineering, 2014, 70, 410-420.	6.0	23

#	ARTICLE	IF	CITATIONS
19	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.	10.1	23
20	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
21	Dynamic modeling and simulation of a double-effect absorption heat pump. International Journal of Refrigeration, 2016, 72, 171-191.	3.4	21
22	Techno-economic analysis of a stand-alone solar desalination plant at variable load conditions. Applied Thermal Engineering, 2018, 133, 659-670.	6.0	20
23	Annual thermoeconomic analysis of a Concentrating Solar Power+Photovoltaic+Multi-Effect Distillation plant in northern Chile. Energy Conversion and Management, 2020, 213, 112852.	9.2	19
24	Experimental analysis of a multi-effect distillation unit operated out of nominal conditions. Desalination, 2012, 284, 233-237.	8.2	17
25	Concentrating Solar Power and Desalination Plants. , 2015, , .		17
26	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.	6.0	16
27	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.	6.0	14
28	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
29	Energetic evaluation of a double-effect LiBr-H <sub>2</sub> O absorption heat pump coupled to a multi-effect distillation plant at nominal and off-design conditions. Applied Thermal Engineering, 2018, 142, 543-554.	6.0	13
30	Modeling of the heat transfer of a solar multi-effect distillation plant at the Plataforma Solar de Almería. Desalination and Water Treatment, 2011, 31, 257-268.	1.0	12
31	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.	8.0	12
32	Parabolic trough collector field dynamic model: Validation, energetic and exergetic analyses. Applied Thermal Engineering, 2019, 148, 777-786.	6.0	11
33	Thermodynamic Performance and Water Consumption of Hybrid Cooling System Configurations for Concentrated Solar Power Plants. Sustainability, 2020, 12, 4739.	3.2	11
34	Comparative evaluation of two membrane distillation modules. Desalination and Water Treatment, 2011, 31, 226-234.	1.0	10
35	Experimental parametric analysis of a solar pilot-scale multi-effect distillation plant. Desalination and Water Treatment, 2016, 57, 23097-23109.	1.0	8
36	Concentrating Solar Power and Desalination Plants. Green Energy and Technology, 2019, , 327-340.	0.6	8

#	ARTICLE	IF	CITATIONS
37	Control strategies in a thermal oil “ Molten salt heat exchanger. AIP Conference Proceedings, 2016, , .	0.4	7
38	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
39	Optimal operation of solar thermal desalination systems coupled to double-effect absorption heat pumps. Energy Conversion and Management, 2020, 210, 112705.	9.2	4
40	Experimental assessment of a pilot scale hybrid cooling system for water consumption reduction in CSP plants. Energy, 2022, 242, 122948.	8.8	4
41	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.	2.8	4
42	A solar energy desalination analysis tool, sedat, with data and models for selecting technologies and regions. Scientific Data, 2022, 9, .	5.3	4
43	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.	1.6	3
44	Dynamic modeling of a multi-effect vertical falling-film evaporator for water reuse in CSP plants. Desalination, 2022, 529, 115623.	8.2	2
45	Yearly simulations of the electricity and fresh water production in PT-CSP+MED-TVC plants: Case study in Almería (Spain). AIP Conference Proceedings, 2018, , .	0.4	1
46	Techno-economic Analysis. , 2015, , 137-164.		0
47	Combined Fresh Water and Power Production: State of the Art. , 2015, , 27-60.		0
48	Steady-State Modelling of a Low-Temperature Multi-effect Distillation Plant. , 2015, , 61-84.		0
49	Solvent extraction regeneration technologies. , 2022, , 163-196.		0
50	Assessment of a concentrating solar power plant coupled to a multi-effect distillation with an air-cooled condenser. AIP Conference Proceedings, 2020, , .	0.4	0