

Prashant Sharan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Cogeneration using multi-effect distillation and a solar-powered supercritical carbon dioxide Brayton cycle. <i>Desalination</i> , 2019, 459, 20-33.	8.2	55
2	Optimal feed flow sequence for multi-effect distillation system integrated with supercritical carbon dioxide Brayton cycle for seawater desalination. <i>Journal of Cleaner Production</i> , 2018, 196, 889-901.	9.3	46
3	Thermal desalination via supercritical CO ₂ Brayton cycle: Optimal system design and techno-economic analysis without reduction in cycle efficiency. <i>Applied Thermal Engineering</i> , 2019, 152, 499-514.	6.0	35
4	Integration of thermo-vapor compressor with multiple-effect evaporator. <i>Applied Energy</i> , 2016, 184, 560-573.	10.1	34
5	Solar assisted multiple-effect evaporator. <i>Journal of Cleaner Production</i> , 2017, 142, 2340-2351.	9.3	30
6	Energy integration of multiple-effect evaporator, thermo-vapor compressor, and background process. <i>Journal of Cleaner Production</i> , 2017, 164, 1192-1204.	9.3	24
7	Energy optimization in parallel/cross feed multiple-effect evaporator based desalination system. <i>Energy</i> , 2016, 111, 756-767.	8.8	23
8	Energy Integration of Multiple Effect Evaporators with Background Process and Appropriate Temperature Selection. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1630-1641.	3.7	23
9	Optimal design of phase change material storage for steam production using annual simulation. <i>Solar Energy</i> , 2019, 185, 494-507.	6.1	21
10	Energy efficient supercritical water desalination using a high-temperature heat pump: A zero liquid discharge desalination. <i>Desalination</i> , 2021, 506, 115020.	8.2	14
11	Using Concentrating Solar Power to Create a Geological Thermal Energy Reservoir for Seasonal Storage and Flexible Power Plant Operation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	14
12	Can capacitive deionization outperform reverse osmosis for brackish water desalination?. <i>Cleaner Engineering and Technology</i> , 2021, 3, 100102.	4.0	11
13	Optimal design of multi-stage vacuum membrane distillation and integration with supercritical water desalination for improved zero liquid discharge desalination. <i>Journal of Cleaner Production</i> , 2022, 361, 132189.	9.3	8
14	Optimal Temperature Selection for Energy Integrated Multiple-Effect Evaporator System. <i>Process Integration and Optimization for Sustainability</i> , 2017, 1, 189-202.	2.6	4
15	A novel approach for produced water treatment: Supercritical water oxidation and desalination. <i>Desalination</i> , 2022, 532, 115716.	8.2	4
16	Evaluation of Formate Salt PCMs for Latent Heat Thermal Energy Storage. <i>Energies</i> , 2021, 14, 765.	3.1	3
17	Selective recovery of critical materials in zero-liquid discharge supercritical water desalination. <i>Desalination</i> , 2022, 537, 115849.	8.2	3