

DAFTAR PUSTAKA

- Aboelmaaref, Moustafa M., Mohamed E. Zayed, Jun Zhao, Wenjia Li, Ahmed A. Askalany, M. Salem Ahmed, and Ehab S. Ali. 2020. "Hybrid Solar Desalination Systems Driven by Parabolic Trough and Parabolic Dish CSP Technologies: Technology Categorization, Thermodynamic Performance and Economical Assessment." *Energy Conversion and Management* 220. doi:10.1016/j.enconman.2020.113103.
- Al-Hrari, Muhsen, İlhan Ceylan, Khaled Nakoa, and Alper Ergün. 2020. "Concentrated Photovoltaic and Thermal System Application for Fresh Water Production." *Applied Thermal Engineering* 171. doi:10.1016/j.applthermaleng.2020.115054.
- Ali, Ichsanul Mutaqin, Lukman Yudho Prakoso, and Dohar Sianturi. 2021. "Strategi Pertahanan Laut Dalam Menghadapi Ancaman Keamanan Maritim Di Wilayah Laut Indonesia." *Jurnal Strategi Pertahanan Laut* 6(2).
- Andreas W. Finaka. 2018. "Indonesia Kaya Potensi Kelautan Dan Perikanan." <https://indonesiabaik.id/infografis/infografis-indonesia-kaya-potensi-kelautan-dan-perikanan> (March 24, 2024).
- "Breve História Da Energia Solar." <http://web.ist.utl.pt/palmira/solar.html> (April 8, 2024).
- Chen, Jing, Mengqi Gu, Yifang Zhou, Dongjin Wan, Qiaochong He, Yahui Shi, and Yongde Liu. 2022. "Efficient Nitrate and Perchlorate Removal from Aqueous Solution via a Novel Electro-Dialysis Ion-Exchange Membrane Bioreactor." *Chemical Engineering Journal* 430: 132952. doi:https://doi.org/10.1016/j.cej.2021.132952.
- Chittalakkotte, Visakh, Vinish Lazzar Vincent, and Pradeep Valiyaparambil. 2019. "Development of a Solar Energy Based Desalination System Using a Hyperboloid Concentrator." In *Materials Today: Proceedings*, Elsevier Ltd,

9771–75. doi:10.1016/j.matpr.2020.09.555.

Davenport, Douglas M., Akshay Deshmukh, Jay R. Werber, and Menachem Elimelech. 2018. “High-Pressure Reverse Osmosis for Energy-Efficient Hypersaline Brine Desalination: Current Status, Design Considerations, and Research Needs.” *Environmental Science and Technology Letters* 5(8): 467–75. doi:10.1021/acs.estlett.8b00274.

Eghtesad, Amirsaman, Mehdi Salakhi, Hossein Afshin, and Siamak Kazemzadeh Hannani. 2020. “Numerical Investigation and Optimization of Indirect Freeze Desalination.” *Desalination* 481(November 2019): 114378. doi:10.1016/j.desal.2020.114378.

Ejaz, Ali, Hamza Babar, Hafiz Muhammad Ali, Furqan Jamil, Muhammad Mansoor Janjua, I. M. Rizwanul Fattah, Zafar Said, and Changhe Li. 2021. “Concentrated Photovoltaics as Light Harvesters: Outlook, Recent Progress, and Challenges.” *Sustainable Energy Technologies and Assessments* 46(December 2020): 101199. doi:10.1016/j.seta.2021.101199.

El-Ghonemy, A M K. 2018. “Performance Test of a Sea Water Multi-Stage Flash Distillation Plant: Case Study.” *Alexandria Engineering Journal* 57(4): 2401–13. doi:<https://doi.org/10.1016/j.aej.2017.08.019>.

Elizabeth Chu, D. Lawrence Tarazano. “A Brief History of Solar Panels.” https://www-smithsonianmag-com.translate.goog/sponsored/brief-history-solar-panels-180972006/?_x_tr_sl=en&_x_tr_tl=id&_x_tr_hl=id&_x_tr_pto=tc.

Elsaid, Khaled, Mohammed Kamil, Enas Taha Sayed, Mohammad Ali Abdelkareem, Tabbi Wilberforce, and A Olabi. 2020. “Environmental Impact of Desalination Technologies: A Review.” *Science of The Total Environment* 748: 141528. doi:<https://doi.org/10.1016/j.scitotenv.2020.141528>.

Feria-Díaz, Jhon, María López-Méndez, Juan Rodríguez-Miranda, Luis Sandoval-Herazo, and Felipe Correa-Mahecha. 2021. “Commercial Thermal

Technologies for Desalination of Water from Renewable Energies: A State of the Art Review.” doi:10.20944/preprints202101.0033.v1.

Hansima, M. A.C.K., Madhubhashini Makehelwala, K. B.S.N. Jinadasa, Yuansong Wei, K. G.N. Nanayakkara, Ajith C. Herath, and Rohan Weerasooriya. 2021. “Fouling of Ion Exchange Membranes Used in the Electrodialysis Reversal Advanced Water Treatment: A Review.” *Chemosphere* 263: 127951. doi:10.1016/j.chemosphere.2020.127951.

Izquierdo, Jose, and Richard E. Blanchard. 2020. “Solar Desalination System Design for Irrigation/Drinking Water and Electricity Generation in Desert or Arid Areas.” *Journal of Sustainability Research* 2(2). doi:10.20900/jsr20200018.

Khamooshi, Mehrdad, Hana Salati, Fuat Egelioglu, Ali Hooshyar Faghiri, Judy Tarabishi, and Saeed Babadi. 2014. “A Review of Solar Photovoltaic Concentrators.” *International Journal of Photoenergy* 2014. doi:10.1155/2014/958521.

Li, Yongcai, Feng Jiao, Fei Chen, and Zhenhua Zhang. 2021. “Design Optimization and Optical Performance Analysis on Multi-Sectioned Compound Parabolic Concentrator with Plane Absorber.” *Renewable Energy* 168: 913–26. doi:10.1016/j.renene.2020.12.101.

Liu, Weifan, Joshua L Livingston, Li Wang, Zhangxin Wang, Martina del Cerro, Saad A Younssi, Razi Epsztein, Menachem Elimelech, and Shihong Lin. 2024. “Pressure-Driven Membrane Desalination.” *Nature Reviews Methods Primers* 4(1): 10. doi:10.1038/s43586-023-00287-y.

Ma, Yixin, Peizhe Cui, Yongkun Wang, Zhaoyou Zhu, Yinglong Wang, and Jun Gao. 2019. “A Review of Extractive Distillation from an Azeotropic Phenomenon for Dynamic Control.” *Chinese Journal of Chemical Engineering* 27(7): 1510–22. doi:10.1016/j.cjche.2018.08.015.

Nasional, Seminar, Aplikasi Teknologi, Penyediaan Air, Pusat Teknologi

- Lingkungan, Fungsional Perencana Muda, Direktorat Pengairan, Staf Perencana, et al. 2004. "Bumi, Air Dan Kekayaan Alam Yang Terkandung Di Dalamnya dikuasai Oleh Negara Dan Dipergunakan Untuk Sebesar – Besar Kemakmuran Rakyat ". 5." *Potensi Sumber Daya Air di Indonesia* (7): 1–20.
- Okamoto, Yoshiki, and John H Lienhard. 2019. "How RO Membrane Permeability and Other Performance Factors Affect Process Cost and Energy Use: A Review." *Desalination* 470: 114064. doi:<https://doi.org/10.1016/j.desal.2019.07.004>.
- Omar, Amr, Amir Nashed, Qiyuan Li, Greg Leslie, and Robert A. Taylor. 2020. "Pathways for Integrated Concentrated Solar Power - Desalination: A Critical Review." *Renewable and Sustainable Energy Reviews* 119. doi:10.1016/j.rser.2019.109609.
- Panagopoulos, Argyris, and Katherine Joanne Haralambous. 2020. "Environmental Impacts of Desalination and Brine Treatment - Challenges and Mitigation Measures." *Marine Pollution Bulletin* 161(PB): 111773. doi:10.1016/j.marpolbul.2020.111773.
- Rafiei, Alireza, Reyhaneh Loni, Shuhaimi B. Mahadzir, Gholamhassan Najafi, Sasa Pavlovic, and Evangelos Bellos. 2020. "Solar Desalination System with a Focal Point Concentrator Using Different Nanofluids." *Applied Thermal Engineering* 174. doi:10.1016/j.applthermaleng.2020.115058.
- Santana, Juan Pablo, Carlos I. Rivera-Solorio, Jia Wei Chew, Yong Zen Tan, Miguel Gijón-Rivera, and Iván Acosta-Pazmiño. 2023. "Performance Assessment of Coupled Concentrated Photovoltaic-Thermal and Vacuum Membrane Distillation (CPVT-VMD) System for Water Desalination." *Energies* 16(3). doi:10.3390/en16031541.
- Singh, Desh Bandhu, Gajendra Singh, Navneet Kumar, Pawan Kumar Singh, Akhileshwar Nirala, and Rajeev Kumar. 2020. "Effect of Mass Flow Rate on Energy Payback Time of Single Slope Solar Desalination Unit Coupled with N Identical Compound Parabolic Concentrator Collectors." In *Materials*

Today: Proceedings, Elsevier Ltd, 2551–56.
doi:10.1016/j.matpr.2020.05.137.

Soltani, Milad, Abolfazl Hajizadeh Aghdam, and Zeinab Aghaziarati. 2023.
“Design, Fabrication and Performance Assessment of a Novel Portable Solar-
Based Poly-Generation System.” *Renewable Energy* 202: 699–712.
doi:10.1016/j.renene.2022.10.119.

Sripadmanabhan Indira, Sridhar, Chockalingam Aravind Vaithilingam, Kok Keong
Chong, R. Saidur, M. Faizal, Shamsu Abubakar, and Suriati Paiman. 2020. “A
Review on Various Configurations of Hybrid Concentrator Photovoltaic and
Thermoelectric Generator System.” *Solar Energy* 201: 122–48.
doi:10.1016/j.solener.2020.02.090.

Srithar, K., T. Rajaseenivasan, N. Karthik, M. Periyannan, and M. Gowtham. 2016.
“Stand Alone Triple Basin Solar Desalination System with Cover Cooling and
Parabolic Dish Concentrator.” *Renewable Energy* 90: 157–65.
doi:10.1016/j.renene.2015.12.063.

Thomas, Navya, Musthafa O. Mavukkandy, Savvina Loutatidou, and Hassan A.
Arafat. 2017. “Membrane Distillation Research & Implementation: Lessons
from the Past Five Decades.” *Separation and Purification Technology* 189:
108–27. doi:10.1016/j.seppur.2017.07.069.

Toub, Mohamed, Chethan R. Reddy, Rush D. Robinett, and Mahdi Shahbakhti.
2021. “Integration and Optimal Control of Microcsp with Building Hvac
Systems: Review and Future Directions.” *Energies* 14(3): 1–42.
doi:10.3390/en14030730.

Wang, Jianlong, and Xiaojing Liu. 2021. “Forward Osmosis Technology for Water
Treatment: Recent Advances and Future Perspectives.” *Journal of Cleaner
Production* 280: 124354. doi:10.1016/j.jclepro.2020.124354.

Wang, Zexin, Jinjia Wei, Gaoming Zhang, Huling Xie, and Muhammad Khalid.
2019. “Design and Performance Study on a Large-Scale Hybrid CPV/T

System Based on Unsteady-State Thermal Model.” *Solar Energy*
177(November 2018): 427–39. doi:10.1016/j.solener.2018.11.043.

Xinxin, Guo, Zhang Heng, Chen Haiping, Liang Kai, Huang Jiguang, and Liu
Haowen. 2019. “Experimental and Theoretical Investigation on a Hybrid
LCPV/T Solar Still System.” *Desalination* 468.
doi:10.1016/j.desal.2019.07.003.