

Tobias Hirsch

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

549
citations

687363

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610901

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33
all docs

33
docs citations

33
times ranked

543
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Dynamical Behavior of CSP Plants. , 2022, , 187-213. | | 0 |
| 2 | Using DNI forecasts provided by all sky imager to improve control of parabolic trough solar fields. AIP Conference Proceedings, 2022, , . | 0.4 | 0 |
| 3 | Parabolic trough field control utilizing all sky imager irradiance data “ A comprehensive robustness analysis. Solar Energy, 2022, 239, 170-178. | 6.1 | 1 |
| 4 | Dynamical Behavior of CSP Plants. , 2021, , 1-27. | | 0 |
| 5 | Evaluating the Potential Benefit of Using Nowcasting Systems to Improve the Yield of Parabolic Trough Power Plants with Single-Phase HTF. Energies, 2021, 14, 773. | 3.1 | 1 |
| 6 | State-of-the-Art Measurement Instrumentation and Most Recent Measurement Techniques for Parabolic Trough Collector Fields. Energies, 2021, 14, 7166. | 3.1 | 1 |
| 7 | Artificial Learning Dispatch Planning for Flexible Renewable-Energy Systems. Energies, 2020, 13, 1517. | 3.1 | 5 |
| 8 | Artificial Learning Dispatch Planning with Probabilistic Forecasts: Using Uncertainties as an Asset. Energies, 2020, 13, 616. | 3.1 | 3 |
| 9 | Optimization of parabolic trough power plant operations in variable irradiance conditions using all sky imagers. Solar Energy, 2020, 198, 434-453. | 6.1 | 26 |
| 10 | Techno-Economic Optimization of Molten Salt Concentrating Solar Power Parabolic Trough Plants With Packed-Bed Thermocone Tanks. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, . | 1.8 | 6 |
| 11 | Optimization of cleaning strategies based on ANN algorithms assessing the benefit of soiling rate forecasts. AIP Conference Proceedings, 2019, , . | 0.4 | 9 |
| 12 | Development of training simulator software for molten salt parabolic trough test platform. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 13 | Simulation of potential enhancements in parabolic trough solar field start-up controllers using nowcasting systems. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 14 | FRED: The Flexible Renewable Energy System Dispatch Optimizer. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, . | 1.8 | 2 |
| 15 | Modelling an automatic controller for parabolic trough solar fields under realistic weather conditions. AIP Conference Proceedings, 2018, , . | 0.4 | 8 |
| 16 | Techno-economic assessment for large scale thermocone filler TES systems in a molten salt parabolic trough plant. AIP Conference Proceedings, 2018, , . | 0.4 | 2 |
| 17 | Virtual solar field - An opportunity to optimize transient processes in line-focus CSP power plants. AIP Conference Proceedings, 2017, , . | 0.4 | 3 |
| 18 | Shadow camera system for the generation of solar irradiance maps. Solar Energy, 2017, 157, 157-170. | 6.1 | 39 |

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|----|---|-----|-----------|
| 19 | Validation of spatially resolved all sky imager derived DNI nowcasts. AIP Conference Proceedings, 2017, , . | 0.4 | 16 |
| 20 | An approach to DNI transients characterization for system evaluation. AIP Conference Proceedings, 2017, , . | 0.4 | 3 |
| 21 | The first version of the SolarPACES guideline for bankable STE Yield assessment. AIP Conference Proceedings, 2017, , . | 0.4 | 18 |
| 22 | Analysis and potential of once-through steam generators in line focus systems â€œ Final results of the DUKE project. AIP Conference Proceedings, 2016, , . | 0.4 | 7 |
| 23 | Numerical investigation of severe slugging under conditions of a parabolic trough power plant with direct steam generation. Solar Energy, 2016, 133, 567-585. | 6.1 | 14 |
| 24 | Transient Models and Characteristics of Once-through Line Focus Systems. Energy Procedia, 2015, 69, 626-637. | 1.8 | 20 |
| 25 | Simulation of thermal fluid dynamics in parabolic trough receiver tubes with direct steam generation using the computer code ATHLET. Kerntechnik, 2014, 79, 175-186. | 0.2 | 23 |
| 26 | Advancements in the Field of Direct Steam Generation in Linear Solar Concentratorsâ€™A Review. Heat Transfer Engineering, 2014, 35, 258-271. | 1.9 | 48 |
| 27 | Techno-economic analysis of combined concentrating solar power and desalination plant configurations in Israel and Jordan. Desalination and Water Treatment, 2012, 41, 9-25. | 1.0 | 52 |
| 28 | Start-Up Modeling for Annual CSP Yield Calculations. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, . | 1.8 | 13 |
| 29 | Steam temperature stability in a direct steam generation solar power plant. Solar Energy, 2011, 85, 660-668. | 6.1 | 46 |
| 30 | A Direct Steam Generation Solar Power Plant With Integrated Thermal Storage. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, . | 1.8 | 50 |
| 31 | Design of a Phase Separation System for a Direct Steam Generation Parabolic Trough Collector Field. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, . | 1.8 | 6 |
| 32 | Field Test of Water-Steam Separators for Direct Steam Generation in Parabolic Troughs. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, . | 1.8 | 19 |
| 33 | Dynamics and control of parabolic trough collector loops with direct steam generation. Solar Energy, 2007, 81, 268-279. | 6.1 | 108 |