

Peter R Armstrong

List of Publications by Year in descending order

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45
papers

1,148
citations

586496

16
h-index

445137

33
g-index

45
all docs

45
docs citations

45
times ranked

1580
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dispatchable solar power using molten salt directly irradiated from above. Solar Energy, 2021, 220, 217-229. | 2.9 | 15 |
| 2 | Net power maximization from a faceted beam-down solar concentrator. Solar Energy, 2020, 204, 476-488. | 2.9 | 17 |
| 3 | A Study of Local Climate Zones in Abu Dhabi with Urban Weather Stations and Numerical Simulations. Sustainability, 2020, 12, 156. | 1.6 | 14 |
| 4 | Proposal and evaluation of subordinate standard solar irradiance spectra for applications in solar energy systems. Solar Energy, 2018, 168, 30-43. | 2.9 | 38 |
| 5 | Energy performance of GCC-specification LCC optimized dedicated outdoor air system configurations coupled to an air-cooled outdoor unit. Energy and Buildings, 2018, 158, 417-430. | 3.1 | 6 |
| 6 | Testing of a secondary concentrator integrated with a beam-down tower system under non-liquid cooling strategies. AIP Conference Proceedings, 2018, , . | 0.3 | 4 |
| 7 | Study and comparison of naturally-aged and As-received silvered-glass reflectors. AIP Conference Proceedings, 2018, , . | 0.3 | 3 |
| 8 | Standardizing accelerated aging testing conditions for silvered-glass reflectors. AIP Conference Proceedings, 2018, , . | 0.3 | 6 |
| 9 | Where should beam down heliostat central rays intersect the final optical element axis?. AIP Conference Proceedings, 2018, , . | 0.3 | 3 |
| 10 | Effects of Roof-Edge Roughness on Air Temperature and Pollutant Concentration in Urban Canyons. Boundary-Layer Meteorology, 2017, 164, 249-279. | 1.2 | 42 |
| 11 | Techno-economic optimization of a scaled-up solar concentrator combined with CSPonD thermal energy storage. AIP Conference Proceedings, 2017, , . | 0.3 | 3 |
| 12 | Techno-economic analysis of concentrated solar power plants in terms of levelized cost of electricity. AIP Conference Proceedings, 2017, , . | 0.3 | 27 |
| 13 | Reflectance degradation of a secondary concentrator by nitrate salt vapor deposition in an open volumetric receiver configuration. AIP Conference Proceedings, 2017, , . | 0.3 | 3 |
| 14 | Thermal modelling and control of 130kw direct contact (salt/air) heat exchanger. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 15 | Proposal and Evaluation of Subordinate Standard Solar Irradiance Spectra with a Focus on Air Mass Effects. , 2017, , . | | 4 |
| 16 | In-situ sensor network for microclimate and urban energy modeling and validation. , 2016, , . | | 1 |
| 17 | Performance measurements of new silicon carbide coated reflectors for concentrated solar power applications. AIP Conference Proceedings, 2016, , . | 0.3 | 1 |
| 18 | Validation of an optical model applied to the beam down CSP facility at the Masdar Institute Solar Platform. AIP Conference Proceedings, 2016, , . | 0.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Thermal modeling of a secondary concentrator integrated with an open direct-absorption molten-salt volumetric receiver in a beam-down tower system. AIP Conference Proceedings, 2016, , . | 0.3 | 6 |
| 20 | The Masdar Institute solar platform: A new research facility in the UAE for development of CSP components and thermal energy storage systems. AIP Conference Proceedings, 2016, , . | 0.3 | 20 |
| 21 | Optical and radiative properties of aerosols over Abu Dhabi in the United Arab Emirates. Journal of Earth System Science, 2016, 125, 1579-1602. | 0.6 | 2 |
| 22 | A new validation protocol for an urban microclimate model based on temperature measurements in a Central European city. Energy and Buildings, 2016, 114, 38-53. | 3.1 | 5 |
| 23 | Preliminary Optical, Thermal and Structural Design of a 100 kWth CSPonD Beam-down On-sun Demonstration Plant. Energy Procedia, 2015, 75, 2163-2168. | 1.8 | 28 |
| 24 | Reciprocating and Screw Compressor semi-empirical models for establishing minimum energy performance standards. IOP Conference Series: Materials Science and Engineering, 2015, 90, 012077. | 0.3 | 0 |
| 25 | Design of sensor network for urban micro-climate monitoring. , 2015, , . | | 8 |
| 26 | Design of a 100 kW Concentrated Solar Power on Demand Volumetric Receiver With Integral Thermal Energy Storage Prototype. , 2015, , . | | 5 |
| 27 | Estimation of urban temperature and humidity using a lumped parameter model coupled with an EnergyPlus model. Energy and Buildings, 2015, 96, 221-235. | 3.1 | 27 |
| 28 | New Concentrating Solar Power Facility for Testing High Temperature Concrete Thermal Energy Storage. Energy Procedia, 2015, 75, 2144-2149. | 1.8 | 43 |
| 29 | Performance of a 100 kWth Concentrated Solar Beam-Down Optical Experiment. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, . | 1.1 | 34 |
| 30 | Mid-term forecasting of urban electricity load to isolate air-conditioning impact. Energy and Buildings, 2014, 80, 72-80. | 3.1 | 25 |
| 31 | Smart air-conditioning control by wireless sensors. , 2013, , . | | 9 |
| 32 | High Efficiency Solar to Electric Energy Conversion through Spectrum Splitting and Multi-channel Full Spectrum Harvesting. Materials Research Society Symposia Proceedings, 2013, 1493, 31-36. | 0.1 | 1 |
| 33 | Investigation of Nanoscale Interactions by Means of Subharmonic Excitation. Journal of Physical Chemistry Letters, 2012, 3, 2125-2129. | 2.1 | 9 |
| 34 | Analysis and Evaluation of DC-Link Capacitors for High-Power-Density Electric Vehicle Drive Systems. IEEE Transactions on Vehicular Technology, 2012, 61, 2950-2964. | 3.9 | 205 |
| 35 | Energy dissipation distributions and dissipative atomic processes in amplitude modulation atomic force microscopy. Nanotechnology, 2012, 23, 125401. | 1.3 | 12 |
| 36 | Solar-assisted Post-combustion Carbon Capture feasibility study. Applied Energy, 2012, 92, 668-676. | 5.1 | 100 |

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|----|--|-----|-----------|
| 37 | A model for improved solar irradiation measurement at low flux. Solar Energy, 2012, 86, 837-844. | 2.9 | 6 |
| 38 | A comprehensive techno-economical review of indirect solar desalination. Renewable and Sustainable Energy Reviews, 2011, 15, 4187-4199. | 8.2 | 264 |
| 39 | A cooling change-point model of community-aggregate electrical load. Energy and Buildings, 2011, 43, 28-37. | 3.1 | 31 |
| 40 | Hybrid Liquid-Air Transpired Solar Collector: Model Development and Sensitivity Analysis. , 2010, , . | | 1 |
| 41 | Systematic comprehensive techno-economic assessment of solar cooling technologies using location-specific climate data. Applied Energy, 2010, 87, 3766-3778. | 5.1 | 62 |
| 42 | A two-step method for estimating the parameters of induction machine models. , 2009, , . | | 5 |
| 43 | Detection of Rooftop Cooling Unit Faults Based on Electrical Measurements. HVAC and R Research, 2006, 12, 151-175. | 0.9 | 46 |
| 44 | Assessment of Packaged PEM Fuel Cell CHP Systems. Cogeneration and Distributed Generation Journal, 2006, 21, 25-46. | 0.1 | 0 |
| 45 | A statistical model for the incidence of large hailstones on solar collectors. Solar Energy, 1981, 26, 97-111. | 2.9 | 5 |