

# Jing Li

## List of Publications by Year in descending order

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86  
papers

2,647  
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172457  
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86  
all docs

86  
docs citations

86  
times ranked

1663  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Construction and dynamic test of a small-scale organic rankine cycle. <i>Energy</i> , 2011, 36, 3215-3223.  | 8.8  | 189       |
| 2  | Analysis of low temperature solar thermal electric generation using regenerative Organic Rankine Cycle. <i>Applied Thermal Engineering</i> , 2010, 30, 998-1004.  | 6.0  | 177       |
| 3  | Optimization of low temperature solar thermal electric generation with Organic Rankine Cycle in different areas. <i>Applied Energy</i> , 2010, 87, 3355-3365.   | 10.1 | 155       |
| 4  | Field test and preliminary analysis of a combined diurnal solar heating and nocturnal radiative cooling system. <i>Applied Energy</i> , 2016, 179, 899-908.   | 10.1 | 110       |
| 5  | Energetic and exergetic investigation of an organic Rankine cycle at different heat source temperatures. <i>Energy</i> , 2012, 38, 85-95.   | 8.8  | 99        |
| 6  | Experimental study of the effect of inclination angle on the thermal performance of heat pipe photovoltaic/thermal (PV/T) systems with wickless heat pipe and wire-meshed heat pipe. <i>Applied Thermal Engineering</i> , 2016, 106, 651-660. | 6.0  | 99        |
| 7  | A cascade organic Rankine cycle power generation system using hybrid solar energy and liquefied natural gas. <i>Solar Energy</i> , 2016, 127, 136-146.  | 6.1  | 79        |
| 8  | Analysis of a novel solar electricity generation system using cascade Rankine cycle and steam screw expander. <i>Applied Energy</i> , 2016, 165, 627-638.   | 10.1 | 72        |
| 9  | A numerical and experimental study of micro-channel heat pipe solar photovoltaics thermal system. <i>Applied Energy</i> , 2017, 206, 708-722.   | 10.1 | 69        |
| 10 | Numerical simulation and experimental validation of a micro-channel PV/T modules based direct-expansion solar heat pump system. <i>Renewable Energy</i> , 2020, 145, 1992-2004.   | 8.9  | 65        |
| 11 | Preliminary thermal analysis of a combined photovoltaic-photothermic-nocturnal radiative cooling system. <i>Energy</i> , 2017, 137, 419-430.  | 8.8  | 60        |
| 12 | Design and analysis of a novel low-temperature solar thermal electric system with two-stage collectors and heat storage units. <i>Renewable Energy</i> , 2011, 36, 2324-2333.   | 8.9  | 59        |
| 13 | Experimental Investigation of a Novel Solar Micro-Channel Loop-Heat-Pipe Photovoltaic/Thermal (MC-LHP-PV/T) System for Heat and Power Generation. <i>Applied Energy</i> , 2019, 256, 113929.  | 10.1 | 57        |
| 14 | Numerical simulation and experimental validation of a high concentration photovoltaic/thermal module based on point-focus Fresnel lens. <i>Applied Energy</i> , 2016, 168, 269-281.   | 10.1 | 51        |
| 15 | Effect of working fluids on the performance of a novel direct vapor generation solar organic Rankine cycle system. <i>Applied Thermal Engineering</i> , 2016, 98, 786-797.  | 6.0  | 49        |
| 16 | A chronological review of advances in solar assisted heat pump technology in 21st century. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 132, 110132.   | 16.4 | 49        |
| 17 | Operational performance of a novel heat pump coupled with mini-channel PV/T and thermal panel in low solar radiation. <i>Energy and Built Environment</i> , 2020, 1, 50-59.   | 5.9  | 48        |
| 18 | Thermodynamic and economic investigation of a screw expander-based direct steam generation solar cascade Rankine cycle system using water as thermal storage fluid. <i>Applied Energy</i> , 2017, 195, 137-151.                               | 10.1 | 41        |

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|----|---|------|-----------|
| 19 | Scientific and technological progress and future perspectives of the solar assisted heat pump (SAHP) system. <i>Energy</i> , 2021, 229, 120719.   | 8.8  | 41        |
| 20 | Performance analysis on a high-temperature solar evacuated receiver with an inner radiation shield. <i>Energy</i> , 2017, 139, 447-458.   | 8.8  | 40        |
| 21 | Performance study and comparative analysis of traditional and double-selective-coated parabolic trough receivers. <i>Energy</i> , 2018, 145, 206-216.   | 8.8  | 40        |
| 22 | Numerical investigation and experimental validation of the impacts of an inner radiation shield on parabolic trough solar receivers. <i>Applied Thermal Engineering</i> , 2018, 132, 381-392.               | 6.0  | 40        |
| 23 | Assessment of the cost reduction potential of a novel loop-heat-pipe solar photovoltaic/thermal system by employing the distributed parameter model. <i>Energy</i> , 2020, 190, 116338.                     | 8.8  | 40        |
| 24 | Evaluation of external heat loss from a small-scale expander used in organic Rankine cycle. <i>Applied Thermal Engineering</i> , 2011, 31, 2694-2701.   | 6.0  | 34        |
| 25 | Performance evaluation and analyses of novel parabolic trough evacuated collector tubes with spectrum-selective glass envelope. <i>Renewable Energy</i> , 2019, 138, 793-804.                               | 8.9  | 33        |
| 26 | Energetic and exergetic analyses on structural optimized parabolic trough solar receivers in a concentrated solar-thermal collector system. <i>Energy</i> , 2019, 171, 611-623.                             | 8.8  | 33        |
| 27 | Analysis of a novel gravity driven organic Rankine cycle for small-scale cogeneration applications. <i>Applied Energy</i> , 2013, 108, 34-44.   | 10.1 | 32        |
| 28 | Development and assessment of integrating parabolic trough collectors with gas turbine trigeneration system for producing electricity, chilled water, and freshwater. <i>Energy</i> , 2018, 162, 364-379.   | 8.8  | 31        |
| 29 | A study on heat storage sizing and flow control for a domestic scale solar-powered organic Rankine cycle-vapour compression refrigeration system. <i>Renewable Energy</i> , 2019, 143, 301-312.             | 8.9  | 31        |
| 30 | A novel approach to thermal storage of direct steam generation solar power systems through two-step heat discharge. <i>Applied Energy</i> , 2019, 236, 81-100.  | 10.1 | 30        |
| 31 | Performance investigation of solar tower system using cascade supercritical carbon dioxide Brayton-steam Rankine cycle. <i>Energy Conversion and Management</i> , 2020, 225, 113430.                        | 9.2  | 28        |
| 32 | Design of the ORC (organic Rankine cycle) condensation temperature with respect to the expander characteristics for domestic CHP (combined heat and power) applications. <i>Energy</i> , 2014, 77, 579-590. | 8.8  | 27        |
| 33 | Feasibility of an innovative amorphous silicon photovoltaic/thermal system for medium temperature applications. <i>Applied Energy</i> , 2019, 252, 113427.  | 10.1 | 27        |
| 34 | Economic and environmental analysis of a novel rural house heating and cooling system using a solar-assisted vapour injection heat pump. <i>Applied Energy</i> , 2020, 275, 115323.                         | 10.1 | 27        |
| 35 | Modeling and optimization of solar-powered cascade Rankine cycle system with respect to the characteristics of steam screw expander. <i>Renewable Energy</i> , 2017, 112, 398-412.                          | 8.9  | 26        |
| 36 | Examination of the expander leaving loss in variable organic Rankine cycle operation. <i>Energy Conversion and Management</i> , 2013, 65, 66-74.  | 9.2  | 25        |

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|----|--|-----|-----------|
| 37 | Off-design performance modelling of a solar organic Rankine cycle integrated with pressurized hot water storage unit for community level application. <i>Energy Conversion and Management</i> , 2018, 166, 132-145.    | 9.2 | 25        |
| 38 | Approach to fabricating high-performance cooler with near-ideal emissive spectrum for above-ambient air temperature radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110013.              | 6.2 | 25        |
| 39 | Performance evaluation of controllable separate heat pipes. <i>Applied Thermal Engineering</i> , 2016, 100, 518-527.   | 6.0 | 23        |
| 40 | Preliminary performance study of a high-temperature parabolic trough solar evacuated receiver with an inner transparent radiation shield. <i>Solar Energy</i> , 2018, 173, 640-650.                                    | 6.1 | 23        |
| 41 | Modelling of organic Rankine cycle efficiency with respect to the equivalent hot side temperature. <i>Energy</i> , 2016, 115, 668-683.   | 8.8 | 21        |
| 42 | Preliminary study on variable conductance loop thermosyphons. <i>Energy Conversion and Management</i> , 2017, 147, 66-74.  | 9.2 | 20        |
| 43 | Performance analysis of integrated linear fresnel reflector with a conventional cooling, heat, and power tri-generation plant. <i>Renewable Energy</i> , 2019, 138, 639-650.   | 8.9 | 20        |
| 44 | Thermo-economic evaluation of an innovative direct steam generation solar power system using screw expanders in a tandem configuration. <i>Applied Thermal Engineering</i> , 2019, 148, 1007-1017.                     | 6.0 | 20        |
| 45 | Design of steam condensation temperature for an innovative solar thermal power generation system using cascade Rankine cycle and two-stage accumulators. <i>Energy Conversion and Management</i> , 2019, 184, 389-401. | 9.2 | 19        |
| 46 | Analysis of a novel photovoltaic/thermal system using InGaN/GaN MQWs cells in high temperature applications. <i>Renewable Energy</i> , 2021, 168, 11-20.   | 8.9 | 19        |
| 47 | Performance evaluation of a micro turbo-expander for application in low-temperature solar electricity generation. <i>Journal of Zhejiang University: Science A</i> , 2011, 12, 207-213.                                | 2.4 | 17        |
| 48 | Experimental study on a novel photovoltaic thermal system using amorphous silicon cells deposited on stainless steel. <i>Energy</i> , 2018, 159, 786-798.  | 8.8 | 16        |
| 49 | Novel parabolic trough power system integrating direct steam generation and molten salt systems: Preliminary thermodynamic study. <i>Energy Conversion and Management</i> , 2019, 195, 909-926.                        | 9.2 | 16        |
| 50 | Effect of non-condensable gas on the behaviours of a controllable loop thermosyphon under active control. <i>Applied Thermal Engineering</i> , 2019, 146, 288-294.   | 6.0 | 16        |
| 51 | Investigation of an innovative PV/T-ORC system using amorphous silicon cells and evacuated flat plate solar collectors. <i>Energy</i> , 2020, 203, 117873.   | 8.8 | 16        |
| 52 | A novel integrated solar tri-generation system for cooling, freshwater and electricity production purpose: Energy, economic and environmental performance analysis. <i>Solar Energy</i> , 2020, 198, 139-150.          | 6.1 | 16        |
| 53 | Design and analysis of an innovative concentrated solar power system using cascade organic Rankine cycle and two-tank water/steam storage. <i>Energy Conversion and Management</i> , 2021, 237, 114108.                | 9.2 | 15        |
| 54 | Thermodynamic comparison and dynamic simulation of direct and indirect solar organic Rankine cycle systems with PCM storage. <i>Energy Procedia</i> , 2017, 129, 716-723.  | 1.8 | 14        |

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|----|--|------|-----------|
| 55 | Experimental investigation on controllable loop thermosyphon with a reservoir. <i>Applied Thermal Engineering</i> , 2017, 126, 322-329.  | 6.0  | 14        |
| 56 | Can whole building energy models outperform numerical models, when forecasting performance of indirect evaporative cooling systems?. <i>Energy Conversion and Management</i> , 2020, 213, 112886.  | 9.2  | 13        |
| 57 | A proof-of-concept study of a novel ventilation heat recovery vapour injection air source heat pump. <i>Energy Conversion and Management</i> , 2022, 256, 115404.  | 9.2  | 13        |
| 58 | Experimental research on a solar air-source heat pump system with phase change energy storage. <i>Energy and Buildings</i> , 2020, 228, 110451.  | 6.7  | 11        |
| 59 | Feasibility research on a hybrid solar tower system using steam and molten salt as heat transfer fluid. <i>Energy</i> , 2020, 205, 118094.   | 8.8  | 11        |
| 60 | Experimental study of organic Rankine cycle in the presence of non-condensable gases. <i>Energy</i> , 2018, 142, 739-753.  | 8.8  | 10        |
| 61 | Temperature-dependent performance of amorphous silicon photovoltaic/thermal systems in the long term operation. <i>Applied Energy</i> , 2020, 275, 115156.   | 10.1 | 10        |
| 62 | Mathematical and experimental evaluation of a mini-channel PV/T and thermal panel in summer mode. <i>Solar Energy</i> , 2021, 224, 401-410.  | 6.1  | 10        |
| 63 | Structural Optimization and Experimental Investigation of the Organic Rankine Cycle for Solar Thermal Power Generation. <i>Springer Theses</i> , 2015, , .   | 0.1  | 9         |
| 64 | Design and analysis of a novel dual source vapor injection heat pump using exhaust and ambient air. <i>Energy and Built Environment</i> , 2022, 3, 95-104.   | 5.9  | 9         |
| 65 | Novel design and simulation of a hybrid solar electricity system with organic Rankine cycle and PV cells. <i>International Journal of Low-Carbon Technologies</i> , 2010, 5, 223-230.  | 2.6  | 8         |
| 66 | Evaluate the validity of the empirical correlations of clearance and friction coefficients to improve a scroll expander semi-empirical model. <i>Energy</i> , 2020, 202, 117723.   | 8.8  | 8         |
| 67 | Experimental investigation of a novel vertical loop-heat-pipe PV/T heat and power system under different height differences. <i>Energy</i> , 2022, 254, 124193.  | 8.8  | 8         |
| 68 | Effect of regenerator on the direct steam generation solar power system characterized by prolonged thermal storage and stable power conversion. <i>Renewable Energy</i> , 2020, 159, 1099-1116.  | 8.9  | 6         |
| 69 | Experimental investigation and annual performance mathematical-prediction on a novel LT-PV/T system using spiral-descent concentric copper tube heat exchanger as the condenser for large-scale application. <i>Renewable Energy</i> , 2022, 187, 257-270. | 8.9  | 6         |
| 70 | An innovative concentrated solar power system driven by high-temperature cascade organic Rankine cycle. <i>Journal of Energy Storage</i> , 2022, 52, 104999.   | 8.1  | 6         |
| 71 | Analysis of a direct vapor generation system using cascade steam-organic Rankine cycle and two-tank oil storage. <i>Energy</i> , 2022, 257, 124776.  | 8.8  | 6         |
| 72 | A novel concentrated solar power system using cascade steam-organic Rankine cycle and two-stage accumulators. <i>Energy Procedia</i> , 2017, 142, 386-394.   | 1.8  | 5         |

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|----|--|-----|-----------|
| 73 | Parametric Analysis of a Novel Photovoltaic/Thermal System Using Amorphous Silicon Cells and Micro-Channel Loop Heat Pipes. <i>Heat Transfer Engineering</i> , 2022, 43, 1149-1170.  | 1.9 | 5         |
| 74 | An innovative approach to recovery of fluctuating industrial exhaust heat sources using cascade Rankine cycle and two-stage accumulators. <i>Energy</i> , 2021, 228, 120587.   | 8.8 | 4         |
| 75 | The study of a seasonal solar CCHP system based on evacuated flat-plate collectors and organic Rankine cycle. <i>Thermal Science</i> , 2020, 24, 915-924.  | 1.1 | 4         |
| 76 | Design and Performance Analysis of Low Temperature Solar Thermal Electric Generation Integrated PV Cells. , 2010, , .  |     | 3         |
| 77 | Annual performance simulation of a solar cogeneration plant with sensible heat storage to provide electricity demand for a small community: A transient model. <i>Hittite Journal of Science &amp; Engineering</i> , 2019, 6, 75-81. | 0.5 | 3         |
| 78 | Working Fluid Selection for Low Temperature Solar Thermal Power Generation with Two-Stage Collectors and Heat Storage Units. , 2010, , .   |     | 2         |
| 79 | Analysis of working fluid for Organic Rankine Cycle. , 2011, , .   |     | 2         |
| 80 | Operational performance of a novel fast-responsive heat storage/exchanging unit (HSEU) for solar heating systems. <i>Renewable Energy</i> , 2020, 151, 137-151.  | 8.9 | 2         |
| 81 | Potential of performance improvement of concentrated solar power plants by optimizing the parabolic trough receiver. <i>Frontiers in Energy</i> , 2020, 14, 867-881.   | 2.3 | 2         |
| 82 | Gradual Progress in the Organic Rankine Cycle and Solar Thermal Power Generation. <i>Springer Theses</i> , 2015, , 1-29.   | 0.1 | 2         |
| 83 | An experimental study of a micro high-speed turbine that applied in Organic Rankine Cycle. , 2010, , .   |     | 1         |
| 84 | Experimental Study of the ORC Under Variable Condensation Temperature. <i>Springer Theses</i> , 2015, , 71-99.   | 0.1 | 0         |
| 85 | Structural Optimization of the ORC-Based Solar Thermal Power System. <i>Springer Theses</i> , 2015, , 31-70.   | 0.1 | 0         |
| 86 | Examination of Key Issues in Designing the ORC Condensation Temperature. <i>Springer Theses</i> , 2015, , 101-130.   | 0.1 | 0         |