

Bin-Juine Huang

List of Publications by Year in descending order

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100
papers

4,399
citations

109264

35
h-index

110317

64
g-index

100
all docs

100
docs citations

100
times ranked

2546
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A method of fast quality control inspection of loop heat pipe. IOP Conference Series: Materials Science and Engineering, 2021, 1139, 012004. | 0.3 | 0 |
| 2 | Development of once-through manufacturing machine for large-area Perovskite solar cell production. Solar Energy, 2020, 205, 192-201. | 2.9 | 8 |
| 3 | Study of power dispatching control scheme in pyramid solar micro-grid. Energy Reports, 2020, 6, 107-113. | 2.5 | 7 |
| 4 | Humidification&Dehumidification (HDH) Desalination System with Air-Cooling Condenser and Cellulose Evaporative Pad. Water (Switzerland), 2020, 12, 142. | 1.2 | 12 |
| 5 | Solar Home System with Peak-Shaving Function and Smart Control in Hot Water Supply. Smart Innovation, Systems and Technologies, 2020, , 23-35. | 0.5 | 1 |
| 6 | Performance test of 4+4 pyramid solar micro-grid. Energy Reports, 2020, 6, 1496-1503. | 2.5 | 1 |
| 7 | Power dispatching control of pyramid solar micro-grid. International Journal of Smart Grid and Clean Energy, 2020, , 135-142. | 0.4 | 2 |
| 8 | Development of solar home system with dual energy storage. SN Applied Sciences, 2019, 1, 1. | 1.5 | 3 |
| 9 | A study of heat-pump fresh air exchanger. Applied Thermal Engineering, 2018, 132, 708-718. | 3.0 | 12 |
| 10 | Pyramid solar micro-grid. IOP Conference Series: Earth and Environmental Science, 2018, 136, 012002. | 0.2 | 0 |
| 11 | Low-cost manufacturing of loop heat pipe for commercial applications. Applied Thermal Engineering, 2017, 126, 1091-1097. | 3.0 | 17 |
| 12 | A novel algorithm for single-axis maximum power generation sun trackers. Energy Conversion and Management, 2017, 149, 543-552. | 4.4 | 13 |
| 13 | Long-term Energy Generation Efficiency of Solar PV System for Self-consumption. Energy Procedia, 2017, 141, 91-95. | 1.8 | 17 |
| 14 | Distributed Solar PV System for Industrial Application. Journal of Energy and Power Engineering, 2017, 11, . | 0.2 | 0 |
| 15 | Effect of switching scheme on the performance of a hybrid solar PV system. Renewable Energy, 2016, 96, 520-530. | 4.3 | 16 |
| 16 | Cellulose-pad water cooling system with cold storage. International Journal of Refrigeration, 2016, 69, 383-393. | 1.8 | 5 |
| 17 | Design of direct solar PV driven air conditioner. Renewable Energy, 2016, 88, 95-101. | 4.3 | 59 |
| 18 | Investigation of an experimental ejector refrigeration machine operating with refrigerant R245fa at design and off-design working conditions. Part 2. Theoretical and experimental results. International Journal of Refrigeration, 2015, 55, 212-223. | 1.8 | 60 |

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|----|--|-----|-----------|
| 19 | Spiral multiple-effect diffusion solar still coupled with vacuum-tube collector and heat pipe. Desalination, 2015, 362, 74-83. | 4.0 | 48 |
| 20 | Investigation of an experimental ejector refrigeration machine operating with refrigerant R245fa at design and off-design working conditions. Part 1. Theoretical analysis. International Journal of Refrigeration, 2015, 55, 201-211. | 1.8 | 55 |
| 21 | A thermoelectric generator using loop heat pipe and design match for maximum-power generation. Applied Thermal Engineering, 2015, 91, 1082-1091. | 3.0 | 31 |
| 22 | Solar Distillation System Based on Multiple-Effect Diffusion Type Still. Journal of Sustainable Development of Energy, Water and Environment Systems, 2014, 2, 41-50. | 0.9 | 13 |
| 23 | Performance test of solar-assisted ejector cooling system. International Journal of Refrigeration, 2014, 39, 172-185. | 1.8 | 21 |
| 24 | Multiple-effect diffusion solar still coupled with a vacuum-tube collector and heat pipe. Desalination, 2014, 347, 66-76. | 4.0 | 52 |
| 25 | Illumination and Color Control in Red-Green-Blue Light-Emitting Diode. IEEE Transactions on Power Electronics, 2014, 29, 4921-4937. | 5.4 | 29 |
| 26 | Performance optimization for a variable throat ejector in a solar refrigeration system. International Journal of Refrigeration, 2013, 36, 1512-1520. | 1.8 | 39 |
| 27 | Improving Solar PV System Efficiency Using One-Axis 3-Position Sun Tracking. Energy Procedia, 2013, 33, 280-287. | 1.8 | 61 |
| 28 | Development of constant-power driving control for light-emitting-diode (LED) luminaire. Applied Thermal Engineering, 2013, 50, 645-651. | 3.0 | 11 |
| 29 | Maximum-power-point tracking control of solar heating system. Solar Energy, 2012, 86, 3278-3287. | 2.9 | 9 |
| 30 | Direct battery-driven solar LED lighting using constant-power control. Solar Energy, 2012, 86, 3250-3259. | 2.9 | 20 |
| 31 | System performance and economic analysis of solar-assisted cooling/heating system. Solar Energy, 2011, 85, 2802-2810. | 2.9 | 17 |
| 32 | Design-theoretical study of cascade CO2 sub-critical mechanical compression/butane ejector cooling cycle. International Journal of Refrigeration, 2011, 34, 1649-1656. | 1.8 | 25 |
| 33 | Solar cell junction temperature measurement of PV module. Solar Energy, 2011, 85, 388-392. | 2.9 | 58 |
| 34 | Long-term field test of solar PV power generation using one-axis 3-position sun tracker. Solar Energy, 2011, 85, 1935-1944. | 2.9 | 84 |
| 35 | Advanced Solar-Assisted Cascade Ejector Cooling / CO2 Sub-Critical Mechanical Compression Refrigeration System. , 2011, , . | | 2 |
| 36 | Building-integrated Solar Collector (BISC). , 2011, , . | | 2 |

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|----|--|-----|-----------|
| 37 | Optimal Performance of Solar Heating System. , 2011, , . | | 0 |
| 38 | Investigation of Experimental Ejector Cooling Machine Operating with Refrigerant R245fa Designed for Solar Air Conditioning Application. , 2011, , . | | 0 |
| 39 | Optimal control and performance test of solar-assisted cooling system. Applied Thermal Engineering, 2010, 30, 2243-2252. | 3.0 | 23 |
| 40 | Development of hybrid solar-assisted cooling/heating system. Energy Conversion and Management, 2010, 51, 1643-1650. | 4.4 | 40 |
| 41 | Development of high-performance solar LED lighting system. Energy Conversion and Management, 2010, 51, 1669-1675. | 4.4 | 35 |
| 42 | System dynamic model and charging control of lead-acid battery for stand-alone solar PV system. Solar Energy, 2010, 84, 822-830. | 2.9 | 49 |
| 43 | Multivariable Robust Control for a Redâ€“Greenâ€“Blue LED Lighting System. IEEE Transactions on Power Electronics, 2010, 25, 417-428. | 5.4 | 53 |
| 44 | Design and Modeling of Innovative Solar Ejector Air Conditioners and Chillers Operating with Low Boiling Working Fluids. , 2010, , . | | 1 |
| 45 | System dynamics model of high-power LED luminaire. Applied Thermal Engineering, 2009, 29, 609-616. | 3.0 | 55 |
| 46 | Performance of ejector cooling system with thermal pumping effect using R141b and R365mfc. Applied Thermal Engineering, 2009, 29, 1904-1912. | 3.0 | 34 |
| 47 | Economic feasibility of solar-powered led roadway lighting. Renewable Energy, 2009, 34, 1934-1938. | 4.3 | 55 |
| 48 | A fast response heat pump water heater using thermostat made from shape memory alloy. Applied Thermal Engineering, 2009, 29, 56-63. | 3.0 | 16 |
| 49 | System dynamics model and startup behavior of loop heat pipe. Applied Thermal Engineering, 2009, 29, 2999-3005. | 3.0 | 37 |
| 50 | Thermalâ€“electricalâ€“luminous model of multi-chip polychromatic LED luminaire. Applied Thermal Engineering, 2009, 29, 3366-3373. | 3.0 | 39 |
| 51 | Development of High-power LED Lighting Luminaires Using Loop Heat Pipe. Journal of Light and Visual Environment, 2008, 32, 148-155. | 0.2 | 19 |
| 52 | Performance evaluation method of solar-assisted heat pump water heater. Applied Thermal Engineering, 2007, 27, 568-575. | 3.0 | 38 |
| 53 | Study of system dynamics model and control of a high-power LED lighting luminaire. Energy, 2007, 32, 2187-2198. | 4.5 | 45 |
| 54 | Feasibility study of one axis three positions tracking solar PV with low concentration ratio reflector. Energy Conversion and Management, 2007, 48, 1273-1280. | 4.4 | 132 |

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|----|---|-----|-----------|
| 55 | Study of a new environmental chamber design. Applied Thermal Engineering, 2007, 27, 1967-1977. | 3.0 | 5 |
| 56 | Study of System Dynamics of High-Power LEDs. , 2006, , . | | 2 |
| 57 | Development of an ejector cooling system with thermal pumping effect. International Journal of Refrigeration, 2006, 29, 476-484. | 1.8 | 38 |
| 58 | Near-maximum-power-point-operation (nMPPO) design of photovoltaic power generation system. Solar Energy, 2006, 80, 1003-1020. | 2.9 | 30 |
| 59 | Charaterizing LEDs for Mixture of Colored LED light sources. , 2006, , . | | 25 |
| 60 | Study of a high efficiency residential split water-cooled air conditioner. Applied Thermal Engineering, 2005, 25, 1599-1613. | 3.0 | 23 |
| 61 | Heat-pipe enhanced solar-assisted heat pump water heater. Solar Energy, 2005, 78, 375-381. | 2.9 | 66 |
| 62 | A proposed modified efficiency for thermosyphon solar heating systems. Solar Energy, 2004, 76, 693-701. | 2.9 | 31 |
| 63 | Long-term performance of solar-assisted heat pump water heater. Renewable Energy, 2004, 29, 633-639. | 4.3 | 53 |
| 64 | A pulse-tube refrigerator using variable-resistance orifice. Cryogenics, 2003, 43, 59-65. | 0.9 | 0 |
| 65 | Performance analysis of a solar-assisted heat pump water heater. Solar Energy, 2003, 74, 33-44. | 2.9 | 104 |
| 66 | A criterion study of solar irradiation patterns for the performance testing of thermosyphon solar water heaters. Solar Energy, 2002, 73, 287-292. | 2.9 | 11 |
| 67 | Performance evaluation of solar photovoltaic/thermal systems. Solar Energy, 2001, 70, 443-448. | 2.9 | 641 |
| 68 | Collector selection for solar ejector cooling system. Solar Energy, 2001, 71, 269-274. | 2.9 | 45 |
| 69 | Performance characteristics of integral type solar-assisted heat pump. Solar Energy, 2001, 71, 403-414. | 2.9 | 109 |
| 70 | Experimental study on the design of orifice pulse tube refrigerator. International Journal of Refrigeration, 2001, 24, 400-408. | 1.8 | 7 |
| 71 | A combined-cycle refrigeration system using ejector-cooling cycle as the bottom cycle. International Journal of Refrigeration, 2001, 24, 391-399. | 1.8 | 42 |
| 72 | Modeling of integral-type Stirling refrigerator using system dynamics approach. International Journal of Refrigeration, 2000, 23, 632-641. | 1.8 | 9 |

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| 73 | System dynamic model and temperature control of a thermoelectric cooler. International Journal of Refrigeration, 2000, 23, 197-207. | 1.8 | 89 |
| 74 | A design method of thermoelectric cooler. International Journal of Refrigeration, 2000, 23, 208-218. | 1.8 | 186 |
| 75 | Empirical correlation for ejector design. International Journal of Refrigeration, 1999, 22, 379-388. | 1.8 | 140 |
| 76 | A 1-D analysis of ejector performance. International Journal of Refrigeration, 1999, 22, 354-364. | 1.8 | 797 |
| 77 | Integral-type solar-assisted heat pump water heater. Renewable Energy, 1999, 16, 731-734. | 4.3 | 46 |
| 78 | Fuzzy control on the phase and stroke of a linear compressor of a split-Stirling cryocooler. Cryogenics, 1998, 38, 231-238. | 0.9 | 11 |
| 79 | A SOLAR EJECTOR COOLING SYSTEM USING REFRIGERANT R141b. Solar Energy, 1998, 64, 223-226. | 2.9 | 94 |
| 80 | Effect of oversize in wire-screen matrix to the matrix-holding tube on regenerator thermal performance. Cryogenics, 1996, 36, 365-372. | 0.9 | 15 |
| 81 | New techniques for the non-contact measurement of displacer motion of a miniature split-Stirling cryocooler. Cryogenics, 1996, 36, 573-578. | 0.9 | 6 |
| 82 | A system dynamics model of split-type Stirling refrigerator. Cryogenics, 1996, 36, 513-516. | 0.9 | 0 |
| 83 | System design of orifice pulse-tube refrigerator using linear flow network analysis. Cryogenics, 1996, 36, 889-902. | 0.9 | 32 |
| 84 | Split-type free-displacer Stirling refrigerator design using linear network analysis. Cryogenics, 1996, 36, 1005-1017. | 0.9 | 10 |
| 85 | System performance analysis of Gifford-McMahon cooler. Cryogenics, 1995, 35, 117-125. | 0.9 | 9 |
| 86 | Linear network analysis of regenerator in a cyclic-flow system. Cryogenics, 1995, 35, 203-207. | 0.9 | 13 |
| 87 | Linear network analysis of split-type stirling refrigerator. Cryogenics, 1994, 34, 207-210. | 0.9 | 3 |
| 88 | Performance characteristics of pulse tube refrigerators. Cryogenics, 1993, 33, 1132-1136. | 0.9 | 1 |
| 89 | Performance rating method of thermosyphon solar water heaters. Solar Energy, 1993, 50, 435-440. | 2.9 | 32 |
| 90 | Dynamic response of regenerator in cyclic flow system. Cryogenics, 1993, 33, 1046-1052. | 0.9 | 7 |

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|-----|--|------|-----------|
| 91 | A precise measurement of temperature difference using thermopiles. Experimental Thermal and Fluid Science, 1990, 3, 265-271. | 1.5 | 9 |
| 92 | Joule's Thomson effect in liquid He II. Cryogenics, 1986, 26, 475-477. | 0.9 | 8 |
| 93 | A simulation method for solar thermosyphon collector. Solar Energy, 1985, 35, 31-43. | 2.9 | 38 |
| 94 | A method of analysis for heat pipe heat exchangers. International Journal of Heat and Mass Transfer, 1985, 28, 553-562. | 2.5 | 25 |
| 95 | Performance test of solar collector with intermittent output. Solar Energy, 1982, 28, 413-420. | 2.9 | 5 |
| 96 | Mass transfer in heterogeneous system with chemical reaction. International Journal of Heat and Mass Transfer, 1980, 23, 1539-1543. | 2.5 | 0 |
| 97 | Engineering analysis of pumping cold deep nutrient-rich seawater for mariculture and nuclear power plant cooling. Ocean Engineering, 1980, 7, 501-520. | 1.9 | 2 |
| 98 | Similarity theory of solar water heater with natural circulation. Solar Energy, 1980, 25, 105-116. | 2.9 | 61 |
| 99 | Thermal analysis of black liquid cylindrical parabolic collector. Solar Energy, 1979, 22, 221-224. | 2.9 | 28 |
| 100 | Creeping-film phenomenon of potassium chloride solution. Nature, 1976, 261, 36-38. | 13.7 | 10 |