Valerie Eveloy

List of Publications by Year
in descending order

76 papers	1,403 citations	331259 21 h-index	360668 35 g-index
76 all docs	76 docs citations	76 times ranked	1355 citing authors

#	Article	IF	Citations
1	Energy, exergy and economic analysis of an integrated solid oxide fuel cell â€“ gas turbine â€“ organic Rankine power generation system. International Journal of Hydrogen Energy, 2016, 41, 13843-13858.	3.8	152
2	Gas turbine efficiency enhancement using waste heat powered absorption chillers in the oil and gas industry. Applied Thermal Engineering, 2013, 50, 918-931.	3.0	95
3	A Review of Projected Power-to-Gas Deployment Scenarios. Energies, 2018, 11, 1824.	1.6	87
4	Sustainable District Cooling Systems: Status, Challenges, and Future Opportunities, with Emphasis on Cooling-Dominated Regions. Energies, 2019, 12, 235.	1.6	73
5	In Situ Temperature Measurement of a Notebook Computerâ€”A Case Study in Health and Usage Monitoring of Electronics. IEEE Transactions on Device and Materials Reliability, 2004, 4, 658-663.	1.5	67
6	Trigeneration scheme for energy efficiency enhancement in a natural gas processing plant through turbine exhaust gas waste heat utilization. Applied Energy, 2012, 93, 624-636.	5.1	67
7	Energy, exergy and exergoeconomic analysis of an ultra low-grade heat-driven ammonia-water combined absorption power-cooling cycle for district space cooling, sub-zero refrigeration, power and LNG regasification. Energy Conversion and Management, 2020, 213, 112790.	4.4	46
8	A benchmark study of computational fluid dynamics predictive accuracy for component-printed circuit board heat transfer. IEEE Transactions on Components and Packaging Technologies, 2000, 23, 568-577.	1.4	45
9	Environment and Usage Monitoringof Electronic Products for Health Assessment and Product Design. Quality Technology and Quantitative Management, 2007, 4, 235-250.	1.1	43
10	Hybrid gas turbineâ€“organic Rankine cycle for seawater desalination by reverse osmosis in a hydrocarbon production facility. Energy Conversion and Management, 2015, 106, 1134-1148.	4.4	40
11	Sustainable and cost-efficient energy supply and utilisation through innovative concepts and technologies at regional, urban and single-user scales. Energy, 2019, 182, 254-268.	4.5	40
12	Hybridization of solid oxide electrolysis-based power-to-methane with oxyfuel combustion and carbon dioxide utilization for energy storage. Renewable and Sustainable Energy Reviews, 2019, 108, 550-571.	8.2	38
13	An Experimental Assessment of Numerical Predictive Accuracy for Electronic Component Heat Transfer in Forced Convectionâ€”Part I: Experimental Methods and Numerical Modeling. Journal of Electronic Packaging, Transactions of the ASME, 2003, 125, 67-75.	1.2	37
14	Are you ready for lead-free electronics?. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 884-894.	1.4	37
15	Integration of an atmospheric solid oxide fuel cell - gas turbine system with reverse osmosis for distributed seawater desalination in a process facility. Energy Conversion and Management, 2016, 126, 944-959.	4.4	32
16	Multi-objective optimization of a pressurized solid oxide fuel cellÂâ€“Âgas turbine hybrid system integrated with seawater reverse osmosis. Energy, 2017, 123, 594-614.	4.5	31
17	Excess electricity and power-to-gas storage potential in the future renewable-based power generation sector in the United Arab Emirates. Energy, 2019, 166, 426-450.	4.5	30
18	Enhancement of LNG plant propane cycle through waste heat powered absorption cooling. Applied Thermal Engineering, 2012, 48, 41-53.	3.0	29

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19	Numerical analysis of an internal methane reforming solid oxide fuel cell with fuel recycling. Applied Energy, 2012, 93, 107-115.	5.1	28
20	Trigeneration scheme for a natural gas liquids extraction plant in the Middle East. Energy Conversion and Management, 2014, 78, 204-218.	4.4	25
21	Numerical Prediction of Electronic Component Operational Temperature: A Perspective. IEEE Transactions on Components and Packaging Technologies, 2004, 27, 268-282.	1.4	24
22	Techno-economic-environmental optimization of aÂsolid oxide fuel cell-gas turbine hybrid coupled with small-scale membrane desalination. International Journal of Hydrogen Energy, 2017, 42, 15828-15850.	3.8	21
23	Sustainable multi-generation of district cooling, electricity, and regasified LNG for cooling-dominated regions. Sustainable Cities and Society, 2020, 60, 102219.	5.1	20
24	An Experimental Assessment of Numerical Predictive Accuracy for Electronic Component Heat Transfer in Forced Convectionâ€"Part II: Results and Discussion. Journal of Electronic Packaging, Transactions of the ASME, 2003, 125, 76-83.	1.2	19
25	Performance investigation of a power, heating and seawater desalination poly-generation scheme in an off-shore oil field. Energy, 2016, 98, 26-39.	4.5	19
26	CO2 Recycling in the Iron and Steel Industry via Power-to-Gas and Oxy-Fuel Combustion. Energies, 2021, 14, 7090.	1.6	18
27	Validation and application of different experimental techniques to measure electronic component operating junction temperature. IEEE Transactions on Components and Packaging Technologies, 1999, 22, 252-258.	1.4	16
28	Enhancement of photovoltaic solar module performance for power generation in the Middle East. , 2012, , .		16
29	Thermal management of solar photovoltaics modules for enhanced power generation. Renewable Energy, 2015, 82, 14-20.	4.3	14
30	Reliability of Pressure-Sensitive Adhesive Tapes for Heat Sink Attachment in Air-Cooled Electronic Assemblies. IEEE Transactions on Device and Materials Reliability, 2004, 4, 650-657.	1.5	12
31	Room temperature soldering of microelectronic components for enhanced thermal performance. , 0, , .		12
32	Prediction of electronic component-board transient conjugate heat transfer. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 817-829.	1.4	11
33	Visualization of forced air flows over a populated printed circuit board and their impact on convective heat transfer. , 0, , .		10
34	Application of numerical analysis to the optimisation of electronic component reliability screening and assembly processes. Journal of Materials Processing Technology, 2004, 155-156, 1788-1796.	3.1	10
35	Experimental assessment of flat-type photovoltaic module thermal behavior. , 2012, , .		10
36	WEEE, RoHS, and what you must do to get ready for lead-free electronics. , 0, , .		9

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37	The Effect of Electrostatic Discharge on Electrical Overstress Susceptibility in a Gallium Arsenide MESFET-Based Device. IEEE Transactions on Device and Materials Reliability, 2007, 7, 200-208.	1.5	9
38	Extending the limits of air-cooling in microelectronic equipment. , 0, , .		8
39	Integration of Municipal Air-Conditioning, Power, and Gas Supplies Using an LNG Cold Exergy-Assisted Kalina Cycle System. Energies, 2020, 13, 4599.	1.6	8
40	An integrated thermal management solution for flat-type solar photovoltaic modules. , 2013, , .		7
41	Performance investigation of thermally enhanced polymer composite materials for microelectronics cooling. Microelectronics Journal, 2015, 46, 1216-1224.	1.1	7
42	Thermodynamic Performance Investigation of a Small-Scale Solar Compression-Assisted Multi-Ejector Indoor Air Conditioning System for Hot Climate Conditions. Energies, 2021, 14, 4325.	1.6	7
43	Comparison of numerical predictions and experimental measurements for the transient thermal behavior of a board-mounted electronic component. , 0, , .		6
44	An Investigation Into the Potential of Low-Reynolds Number Eddy Viscosity Turbulent Flow Models to Predict Electronic Component Operational Temperature. Journal of Electronic Packaging, Transactions of the ASME, 2005, 127, 67-75.	1.2	6
45	Developments in Ambulatory Electrocardiography. Biomedical Instrumentation and Technology, 2006, 40, 238-245.	0.2	6
46	Thermal Performance and Reliability of Thermal Interface Materials: A Review. , 0, , .		6
47	Experimental characterization of thermally enhanced polymer composite heat exchangers. , 2015, , .		6
48	Numerical Heat Transfer Predictive Accuracy for an In-Line Array of Board-Mounted Plastic Quad Flat Back Components in Free Convection. Journal of Electronic Packaging, Transactions of the ASME, 2005, 127, 245-254.	1.2	5
49	Mechanical and Heat Transfer Performance Investigation of High Thermal Conductivity, Commercially Available Polymer Composite Materials for Heat Exchange in Electronic Systems. Journal of Thermal Science and Engineering Applications, 2017, 9, .	0.8	5
50	An experimental and numerical investigation of tube bank heat exchanger thermofluids. , 2008, , .		4
51	Anode Fuel and Steam Recycling for Internal Methane Reforming SOFCs: Analysis of Carbon Deposition. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	4
52	Power generation and cooling capacity enhancement of natural gas processing facilities in harsh environmental conditions through waste heat utilization. International Journal of Energy Research, 2014, 38, 1921-1936.	2.2	4
53	Numerical Investigation of the Effect of Fuel Recycling on the Susceptibility of a Direct Internal Methane Reforming SOFC to Carbon Deposition. , 2008, , .		3
54	Air cooled heat sink design optimization in free convection. , 2013, , .		3

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55	Editorial: Advances in Power-to-X: Processes, Systems, and Deployment. Frontiers in Energy Research, 2021, 9, .	1.2	3
56	Candidate thermally enhanced polymer composite materials for cooling of electronic systems. , 2014, , .		2
57	Thermal and mechanical performance assessment of two commercially-available PA66 polymer composite materials for microelectronics heat exchanger applications. , 2016, , .		2
58	Opportunities for Energy Efficiency Enhancements in the Oil and Gas Industry using Waste Heat Powered Absorption Chillers. , 2010, , .		1
59	Boosting Energy Efficiency Using Waste-Heat-Powered Absorption Chillers. SPE Projects, Facilities and Construction, 2011, 6, 232-238.	0.2	1
60	Sources and Potential Utilization of Waste Heat at a Natural Gas Processing Facility in the Middle East. , 2012, , .		1
61	Enhancing the Performance of Photovoltaic Solar Modules by Active Thermal Management. , 2012, , .		1
62	Enhancement of flat-type solar photovoltaics power generation in harsh environmental conditions. , 2014, , .		1
63	Optimization of a Solid Oxide Fuel Cell and Gas Turbine Hybrid System. , 2015, , .		1
64	Discussion on A highâ€resolution bilevel skewâ€t stochastic generator for assessing Saudi Arabia's wind energy resources. Environmetrics, 2020, 31, e2651.	0.6	1
65	Thermal Management of Solar Photovoltaics Modules for Enhanced Power Generation. Springer Proceedings in Energy, 2014, , 479-490.	0.2	1
66	Unconventional Oil Prospects and Challenges in the Covid-19 Era. Frontiers in Energy Research, 2022, 10, .	1.2	1
67	Guidelines for Implementing Lead-free Electronics. , 2006, , 725-758.		0
68	Anode Gas and Steam Recycling for Internal Methane Reforming SOFCs: Analysis of Carbon Deposition. , 2009, , .		0
69	Ten years of thermal analysis at EuroSimE - What's next?. , 2009, , .		0
70	Innovative Thermofluids Experiments for Modern Mechanical Engineering Education. , 2009, , .		0
71	Are current turbulence modeling practices addressing industry's needs for electronics thermal design?. , 2010, , .		0
72	Teaching of Multimode Heat Transfer Through Laboratory Experiments. , 2010, , .		0

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73	Teaching of Extended Surface Heat Transfer Through Laboratory Experiments. , 2012, , .		0
74	Characterization of thermal conductivity in polymer composite heat exchanger parts. , 2017, , .		0
75	Teaching of Beam Deflection Analysis Through Laboratory Experiments. , 2011, , .		0
76	Polymeric Composite Heat Exchangers for Hydrocarbon Processing. , 2018, , .		0