

Lu Aye

List of Publications by Year in descending order

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119
papers

4,455
citations

126907

33
h-index

118850

62
g-index

122
all docs

122
docs citations

122
times ranked

4459
citing authors

#	ARTICLE	IF	CITATIONS
1	Life cycle greenhouse gas emissions and energy analysis of prefabricated reusable building modules. <i>Energy and Buildings</i> , 2012, 47, 159-168.	6.7	337
2	Computer simulation of a downdraft wood gasifier for tea drying. <i>Biomass and Bioenergy</i> , 2003, 25, 459-469.	5.7	311
3	CFD analysis of ejector in a combined ejector cooling system. <i>International Journal of Refrigeration</i> , 2005, 28, 1092-1101.	3.4	213
4	Urban liveability: Emerging lessons from Australia for exploring the potential for indicators to measure the social determinants of health. <i>Social Science and Medicine</i> , 2014, 111, 64-73.	3.8	204
5	Quantifying the thermal performance of green façades: A critical review. <i>Ecological Engineering</i> , 2014, 63, 102-113.	3.6	182
6	Tree canopy shade impacts on solar irradiance received by building walls and their surface temperature. <i>Building and Environment</i> , 2013, 69, 91-100.	6.9	152
7	Properties of cementitious mortar and concrete containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2016, 120, 408-417.	7.2	152
8	Environmental and economic analyses of waste disposal options for traditional markets in Indonesia. <i>Waste Management</i> , 2006, 26, 1180-1191.	7.4	142
9	A review of Net Zero Energy Buildings with reflections on the Australian context. <i>Energy and Buildings</i> , 2018, 158, 616-628.	6.7	141
10	Planning Healthy, Liveable and Sustainable Cities: How Can Indicators Inform Policy?. <i>Urban Policy and Research</i> , 2015, 33, 131-144.	1.3	130
11	Transport sustainability index: Melbourne case study. <i>Ecological Indicators</i> , 2014, 43, 288-296.	6.3	123
12	Technical feasibility and financial analysis of hybrid wind-photovoltaic system with hydrogen storage for Cooma. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 9-20.	7.1	110
13	A Systematic Content Review of Artificial Intelligence and the Internet of Things Applications in Smart Home. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3074.	2.5	80
14	Seasonal thermal energy storage system for cold climate zones: A review of recent developments. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 97, 38-49.	16.4	75
15	Recent advances in direct expansion solar assisted heat pump systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 109, 349-366.	16.4	75
16	Lean Practices Using Building Information Modeling (BIM) and Digital Twinning for Sustainable Construction. <i>Sustainability</i> , 2021, 13, 161.	3.2	65
17	Supercritical water gasification of Victorian brown coal: Experimental characterisation. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3342-3350.	7.1	63
18	Life cycle performance of Cross Laminated Timber mid-rise residential buildings in Australia. <i>Energy and Buildings</i> , 2020, 223, 110091.	6.7	61

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19	Effects of phase change material roof layers on thermal performance of a residential building in Melbourne and Sydney. <i>Energy and Buildings</i> , 2016, 121, 152-158.	6.7	58
20	Potential forest biomass resource as feedstock for bioenergy and its economic value in Indonesia. <i>Forest Policy and Economics</i> , 2017, 81, 10-17.	3.4	52
21	An ice thermal storage computer model. <i>Applied Thermal Engineering</i> , 2001, 21, 1769-1778.	6.0	50
22	Performance evaluation of low-cost air quality sensors: A review. <i>Science of the Total Environment</i> , 2022, 818, 151769.	8.0	48
23	Natural working fluids for solar-boosted heat pumps. <i>International Journal of Refrigeration</i> , 2003, 26, 637-643.	3.4	46
24	Designing Post COVID-19 Buildings: Approaches for Achieving Healthy Buildings. <i>Buildings</i> , 2022, 12, 74.	3.1	46
25	Improving performance of additive manufactured (3D printed) concrete: A review on material mix design, processing, interlayer bonding, and reinforcing methods. <i>Structures</i> , 2021, 29, 1597-1609.	3.6	45
26	Solar heat pump systems for domestic hot water. <i>Solar Energy</i> , 2002, 73, 169-175.	6.1	44
27	Fire performance of prefabricated modular units using organoclay/glass fibre reinforced polymer composite. <i>Construction and Building Materials</i> , 2016, 129, 204-215.	7.2	43
28	Narrative-informed exploratory analysis of energy transition pathways: A case study of India's electricity sector. <i>Energy Policy</i> , 2017, 110, 271-287.	8.8	42
29	Time-Efficient Post-Disaster Housing Reconstruction with Prefabricated Modular Structures. <i>Open House International</i> , 2014, 39, 59-69.	1.1	40
30	Theoretical performance analysis of heat pump water heaters using carbon dioxide as refrigerant. <i>International Journal of Energy Research</i> , 2008, 32, 356-366.	4.5	39
31	Analysis of the overall energy intensity of alumina refinery process using unit process energy intensity and product ratio method. <i>Energy</i> , 2006, 31, 1167-1176.	8.8	38
32	Environmentally sustainable development: a life-cycle costing approach for a commercial office building in Melbourne, Australia. <i>Construction Management and Economics</i> , 2000, 18, 927-934.	3.0	37
33	Optimisation of multi-residential building retrofit, cost-optimal and net-zero emission targets. <i>Energy and Buildings</i> , 2021, 252, 111385.	6.7	36
34	Steady-state and transient thermal measurements of green roof substrates. <i>Energy and Buildings</i> , 2016, 131, 123-131.	6.7	34
35	Land-use planning: Implications for transport sustainability. <i>Land Use Policy</i> , 2016, 50, 252-261.	5.6	34
36	Impact of room temperature on energy consumption of household refrigerators: Lessons from analysis of field and laboratory data. <i>Applied Energy</i> , 2018, 211, 346-357.	10.1	34

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37	In-situ measurement of borehole thermal properties in Melbourne. <i>Applied Thermal Engineering</i> , 2014, 73, 287-295.	6.0	33
38	Applications of analytical hierarchy process (AHP) and analytical network process (ANP) for industrial site selections in Isfahan, Iran. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	33
39	Evaluation of a heat pump system for greenhouse heating. <i>International Journal of Thermal Sciences</i> , 2010, 49, 202-208.	4.9	31
40	India's on-grid solar power development: Historical transitions, present status and future driving forces. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 239-247.	16.4	31
41	Solar driven water heating systems for medium-rise residential buildings in urban mediterranean areas. <i>Renewable Energy</i> , 2020, 147, 556-569.	8.9	31
42	Scenario planning for the electricity generation in Indonesia. <i>Energy Policy</i> , 2007, 35, 2352-2359.	8.8	30
43	Substrate Depth, Vegetation and Irrigation Affect Green Roof Thermal Performance in a Mediterranean Type Climate. <i>Sustainability</i> , 2017, 9, 1451.	3.2	29
44	Multi-objective optimisations of envelope components for a prefabricated house in six climate zones. <i>Applied Energy</i> , 2021, 282, 116012.	10.1	29
45	Dependency Structure Matrix and Hierarchical Clustering based algorithm for optimum module identification in MEP systems. <i>Automation in Construction</i> , 2019, 104, 153-178.	9.8	28
46	Performance evaluation of semi-flexible permeable pavements under cyclic loads. <i>International Journal of Pavement Engineering</i> , 2020, 21, 336-346.	4.4	28
47	Making policy mixes more robust: An integrative and interdisciplinary approach for clean energy transitions. <i>Energy Research and Social Science</i> , 2020, 64, 101425.	6.4	28
48	PCM embedded radiant chilled ceiling: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111601.	16.4	28
49	Optimisation and financial analysis of an organic Rankine cycle cooling system driven by facade integrated solar collectors. <i>Applied Energy</i> , 2017, 185, 172-182.	10.1	27
50	Mechanical behaviour and load bearing mechanism of high porosity permeable pavements utilizing recycled tire aggregates. <i>Construction and Building Materials</i> , 2018, 168, 794-804.	7.2	27
51	Multi-objective optimisation of a seasonal solar thermal energy storage system for space heating in cold climate. <i>Applied Energy</i> , 2020, 268, 115047.	10.1	26
52	Development and experimental analysis of an innovative self-cleaning low vacuum hemispherical floating solar still for low-cost desalination. <i>Energy Conversion and Management</i> , 2022, 251, 114902.	9.2	25
53	Fire resistance of a prefabricated bushfire bunker using aerated concrete panels. <i>Construction and Building Materials</i> , 2018, 174, 410-420.	7.2	24
54	Sensitivity analysis on energy performance, thermal and visual discomfort of a prefabricated house in six climate zones in Australia. <i>Applied Energy</i> , 2021, 298, 117200.	10.1	24

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55	A dual narrative-modelling approach for evaluating socio-technical transitions in electricity sectors. <i>Journal of Cleaner Production</i> , 2017, 162, 1210-1224.	9.3	23
56	A review on various designs for performance improvement of passive solar stills for remote areas. <i>Solar Energy</i> , 2021, 228, 594-611.	6.1	23
57	Solar lanterns or solar home lighting systems – Community preferences in East Timor. <i>Renewable Energy</i> , 2010, 35, 1076-1082.	8.9	19
58	Human and animal power – The forgotten renewables. <i>Renewable Energy</i> , 2012, 48, 326-332.	8.9	19
59	A policy proposal for the introduction of solar home systems in East Timor. <i>Energy Policy</i> , 2007, 35, 6535-6545.	8.8	18
60	Effects of learning curve models on onshore wind and solar PV cost developments in the USA. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 160, 112278.	16.4	18
61	Transition dynamics in state-influenced niche empowerments: Experiences from India's electricity sector. <i>Technological Forecasting and Social Change</i> , 2017, 116, 129-141.	11.6	17
62	Occupational Stress and Workplace Design. <i>Buildings</i> , 2018, 8, 133.	3.1	17
63	GREEN BUILDING RATING SYSTEM SCORES FOR BUILDING REUSE. <i>Journal of Green Building</i> , 2012, 7, 105-112.	0.8	17
64	ENERGY AND GREENHOUSE GAS EMISSION ACCOUNTING FRAMEWORK FOR GROUNDWATER USE IN AGRICULTURE. <i>Irrigation and Drainage</i> , 2012, 61, 542-554.	1.7	16
65	Comparison of optimal oriented façade integrated solar cooling systems in Australian climate zones. <i>Solar Energy</i> , 2020, 198, 385-398.	6.1	16
66	Simulated performance of a borehole-coupled heat pump seasonal solar thermal storage system for space heating in cold climate. <i>Solar Energy</i> , 2020, 202, 365-385.	6.1	16
67	Electrical and engine driven heat pumps for effective utilisation of renewable energy resources. <i>Applied Thermal Engineering</i> , 2003, 23, 1295-1300.	6.0	15
68	Thermal charging of boreholes. <i>Renewable Energy</i> , 2014, 67, 165-172.	8.9	15
69	Opening the door on refrigerator energy consumption: quantifying the key drivers in the home. <i>Energy Efficiency</i> , 2018, 11, 1519-1539.	2.8	15
70	Multi-scale analysis on thermal properties of cement-based materials containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2020, 254, 119221.	7.2	15
71	Shallow Geothermal Energy: An Emerging Technology. <i>Green Energy and Technology</i> , 2018, , 387-411.	0.6	12
72	Design Lessons from Three Australian Dementia Support Facilities. <i>Buildings</i> , 2018, 8, 67.	3.1	12

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73	Lessons learned from PCM embedded radiant chilled ceiling experiments in Melbourne. <i>Energy Reports</i> , 2022, 8, 54-61.	5.1	12
74	Effects of Working from Home on Greenhouse Gas Emissions and the Associated Energy Costs in Six Australian Cities. <i>Buildings</i> , 2022, 12, 463.	3.1	12
75	Effect of material flows on energy intensity in process industries. <i>Energy</i> , 2006, 31, 1870-1882.	8.8	11
76	Multi-scale life cycle energy analysis of residential buildings in Victoria, Australia – A typology perspective. <i>Building and Environment</i> , 2021, 195, 107723.	6.9	11
77	The carbon footprint of treating patients with septic shock in the intensive care unit. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2018, 20, 304-312.	0.1	11
78	Sizing solar home systems for optimal development impact. <i>Energy Policy</i> , 2012, 42, 699-709.	8.8	10
79	The feasibility and implications for conventional liquid fossil fuel of the Indonesian biofuel target in 2025. <i>Energy Policy</i> , 2013, 61, 12-21.	8.8	10
80	Engaging Employees with Good Sustainability: Key Performance Indicators for Dry Ports. <i>Sustainability</i> , 2019, 11, 2967.	3.2	10
81	Local walkability index: assessing built environment influence on walking. <i>Bulletin of Geography</i> , 2019, 46, 7-21.	0.4	10
82	More than a survey: an interdisciplinary post-occupancy tracking of BER schools. <i>Architectural Science Review</i> , 2012, 55, 196-205.	2.2	9
83	Energy impacts of defrosting in household refrigerators: Lessons from field and laboratory measurements. <i>International Journal of Refrigeration</i> , 2018, 86, 480-494.	3.4	9
84	Airborne and impact sound performance of modern lightweight timber buildings in the Australian construction industry. <i>Case Studies in Construction Materials</i> , 2021, 15, e00632.	1.7	9
85	Industrial site selection by GIS in Isfahan, Iran. , 2011, , .		8
86	Simulation of a biomimetic façade using TRNSYS. <i>Applied Energy</i> , 2018, 213, 670-694.	10.1	8
87	Dynamic modelling and performance evaluation of a direct-expansion solar-assisted heat pump for LPG vaporisation applications. <i>Applied Thermal Engineering</i> , 2019, 149, 757-771.	6.0	8
88	Economic risk analysis for sustainable urban development: validation of framework and decision support technique. <i>Desalination and Water Treatment</i> , 2014, 52, 1109-1121.	1.0	7
89	Dynamic simulation of liquefied petroleum gas vaporisation for burners. <i>Applied Thermal Engineering</i> , 2018, 137, 575-583.	6.0	7
90	Peering into the cabinet: Quantifying the energy impact of door openings and food loads in household refrigerators during normal use. <i>International Journal of Refrigeration</i> , 2019, 104, 437-454.	3.4	7

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91	Economic and environmental impacts of public investment in clean energy RD&D. Energy Policy, 2022, 168, 113134.	8.8	7
92	Life Cycle Energy and Greenhouse Gas Emission Analysis of Groundwater-Based Irrigation Systems. Irrigation and Drainage, 2015, 64, 408-418.	1.7	6
93	Undisturbed ground temperature in Melbourne. AIP Conference Proceedings, 2019, , .	0.4	5
94	ENERGY OPTIMIZED WIRELESS SENSOR NETWORK FOR MONITORING INSIDE BUILDINGS: THEORETICAL MODEL AND EXPERIMENTAL ANALYSIS. Progress in Electromagnetics Research M, 2014, 37, 11-20.	0.9	4
95	Effective use of Offsite Manufacturing for Public Infrastructure Projects in Australia. , 2019, , .		4
96	Structural performance under lateral loads of innovative prefabricated modular structures. , 2012, , 717-722.		4
97	A simulation-based bottom-up approach for analysing the evolution of residential buildings' material stocks and environmental impacts - A case study of Inner Melbourne. Applied Energy, 2022, 314, 118941.	10.1	4
98	Accuracy of Satellite-Measured Wave Heights in the Australian Region for Wave Power Applications. Bulletin of Science, Technology and Society, 2008, 28, 244-255.	2.9	3
99	Seasonal coolth storage system for residential buildings in Australia. Journal of Central South University, 2012, 19, 740-747.	3.0	3
100	Effects of substrate depth and native plants on green roof thermal performance in South-East Australia. IOP Conference Series: Earth and Environmental Science, 2020, 588, 022057.	0.3	3
101	Construction Project Managers Graduate Agile Competencies Required to Meet Industry Needs. Lecture Notes in Civil Engineering, 2021, , 601-607.	0.4	3
102	Competition, coordination, or institutional change? A multi-perspective analysis of historical electricity transitions in Mexico. Energy Research and Social Science, 2022, 84, 102362.	6.4	3
103	The Proposed Heating and Cooling System in the CH2 Building and Its Impact on Occupant Productivity. Construction Economics and Building, 2005, 5, 32-39.	0.9	2
104	Alternative Heating and Cooling Systems for the Retrofit of Medium-Rise Residential Buildings in Greece. Energy Technology, 2021, 9, 2100377.	3.8	2
105	Green Buildings in Makassar, Indonesia. Green Energy and Technology, 2020, , 109-127.	0.6	2
106	An Evaluation of a Proposed Ventilation System for Melbourne's CH2 Building. Construction Economics and Building, 2005, 5, 47-57.	0.9	1
107	Technical and Financial Feasibility of a Stand-alone Photovoltaic System for Rural Electrification in the Andean South Region of Peru. Journal of Sustainable Development, 2012, 5, .	0.3	1
108	Thermal Storage Technologies for Space Cooling and Heating. Green Energy and Technology, 2018, , 327-339.	0.6	1

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109	Heat Pumps. , 2014, , 836-845.		1
110	BIOPHILIC DESIGN FEATURES IN VERNACULAR ARCHITECTURE AND SETTLEMENTS OF THE NAXI. Journal of Architecture and Urbanism, 2020, 44, 188-203.	0.7	1
111	FOSTERING INTEGRATED DESIGN IN AN ACADEMIC ENVIRONMENT: PROCESS AND A METHOD. Journal of Architecture and Urbanism, 2022, 46, 1-10.	0.7	1
112	Applications of Solar Thermal Technologies in the Built Environment. Green Energy and Technology, 2018, , 1-16.	0.6	0
113	Heat Pumps. , 2007, , 814-821.		0
114	Greenhouse Gas Emissions of Decentralised Water Supply Strategies in Peri-urban Areas of Sydney. Water Science and Technology Library, 2014, , 355-363.	0.3	0
115	Risk Appraisal in Engineering Infrastructure Projects: Examination of Project Risks Using Probabilistic Analysis. , 2014, , 687-701.		0
116	Sewers: Heat Recovery. , 2014, , 1155-1157.		0
117	An Integrated Simulation and Visualisation Platform for the Design of Sustainable Urban Developments in a Peri-Urban Context. Water Science and Technology Library, 2016, , 575-587.	0.3	0
118	How Could Sustainability Transition Theories Support Practice-Based Strategic Planning?. Theory and Practice of Urban Sustainability Transitions, 2018, , 73-89.	1.9	0
119	Passive and Low Energy Buildings. , 2018, , 73-88.		0