# Hirushie Karunathilake

## List of Publications by Citations



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|---|---|---|---|
| 29 papers | 427 citations | 12 h-index | 20 g-index |
| 33 ext. papers | 586 ext. citations | 7.1 avg, IF | 4.55 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 29 | Renewable energy selection for net-zero energy communities: Life cycle based decision making under uncertainty. *Renewable Energy*, **2019**, 130, 558-573 | 8.1 | 95 |
| 28 | Renewable energy integration into community energy systems: A case study of new urban residential development. *Journal of Cleaner Production*, **2018**, 173, 292-307 | 10.3 | 52 |
| 27 | Life cycle environmental impacts of the apparel industry in Sri Lanka: Analysis of the energy sources. *Journal of Cleaner Production*, **2018**, 172, 1346-1357 | 10.3 | 30 |
| 26 | Opportunities and challenges in energy demand reduction for Canadian residential sector: A review. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 2005-2016 | 16.2 | 28 |
| 25 | Assessment of renewable energy-based strategies for net-zero energy communities: A planning model using multi-objective goal programming. *Journal of Cleaner Production*, **2020**, 272, 122886 | 10.3 | 28 |
| 24 | BIM-based life cycle environmental performance assessment of single-family houses: Renovation and reconstruction strategies for aging building stock in British Columbia. *Journal of Cleaner Production*, **2020**, 250, 119543 | 10.3 | 27 |
| 23 | Optimal renewable energy supply choices for net-zero ready buildings: A life cycle thinking approach under uncertainty. *Energy and Buildings*, **2019**, 201, 70-89 | 7 | 25 |
| 22 | Project deployment strategies for community renewable energy: A dynamic multi-period planning approach. *Renewable Energy*, **2020**, 152, 237-258 | 8.1 | 21 |
| 21 | To retrofit or not? Making energy retrofit decisions through life cycle thinking for Canadian residences. *Energy and Buildings*, **2020**, 226, 110393 | 7 | 16 |
| 20 | Evaluation of financial incentives for green buildings in Canadian landscape. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110199 | 16.2 | 16 |
| 19 | Climate conscious regional planning for fast-growing communities. *Journal of Cleaner Production*, **2017**, 165, 81-92 | 10.3 | 13 |
| 18 | Prospects of integrating carbon capturing into community scale energy systems. *Renewable and Sustainable Energy Reviews*, **2020**, 133, 110193 | 16.2 | 13 |
| 17 | Carbon capturing for emissions reduction at building level: A market assessment from a building management perspective. *Journal of Cleaner Production*, **2021**, 294, 126323 | 10.3 | 11 |
| 16 | Decision making for risk management: A multi-criteria perspective. *Methods in Chemical Process Safety*, **2020**, 4, 239-287 | 1.1 | 10 |
| 15 | Energy rating system for climate conscious operation of multi-unit residential buildings. *Clean Technologies and Environmental Policy*, **2018**, 20, 785-802 | 4.3 | 10 |
| 14 | Community-level decentralized energy system planning under uncertainty: A comparison of mathematical models for strategy development. *Applied Energy*, **2021**, 283, 116304 | 10.7 | 10 |
| 13 | Occupant-based energy upgrades selection for Canadian residential buildings based on field energy data and calibrated simulations. *Journal of Cleaner Production*, **2020**, 271, 122430 | 10.3 | 7 |

# List of Publications

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|---|---|---|---|
| 12 | The Nexus of Climate Change and Increasing Demand for Energy: A Policy Deliberation from the Canadian Context. *Lecture Notes in Energy*, **2020**, 263-294 | 0.4 | 6 |
| 11 | Research on policy strategies for implementing energy retrofits in the residential buildings. *Journal of Building Engineering*, **2021**, 43, 103161 | 5.2 | 4 |
| 10 | Sustainable machining: environmental performance analysis of turning. *International Journal of Sustainable Engineering*,1-20 | 3.1 | 2 |
| 9 | Carbon Capture Systems for Building-Level Heating SystemsÂ Socio-Economic and Environmental Evaluation. *Sustainability*, **2021**, 13, 10681 | 3.6 | 1 |
| 8 | Transforming road freight transportation from fossils to hydrogen: Opportunities and challenges. *International Journal of Sustainable Transportation*,1-21 | 3.6 | 1 |
| 7 | Strategies to reduce energy and metalworking fluid consumption for the sustainability of turning operation: A review. *Cleaner Engineering and Technology*, **2021**, 3, 100100 | 2.7 | 0 |
| 6 | Evaluating carbon capturing strategies for emissions reduction in community energy systems: A life cycle thinking approach. *Energy*, **2021**, 232, 121012 | 7.9 | 0 |
| 5 | Liquefied natural gas exports from Canada to China: An analysis of internationally transferred mitigation outcomes (ITMO). *Journal of Cleaner Production*, **2022**, 347, 131291 | 10.3 | 0 |
| 4 | Coupling Behavior-Based Intervention with Pro-Environmentalism. The Dynamics of Energy Usage, Crisis and Its Conservation. *Lecture Notes in Energy*, **2020**, 169-185 | 0.4 | |
| 3 | Energy Use in Water Distribution Systems: A Life Cycle Perspective **2019**, 1-12 | | |
| 2 | Overcoming the energy security challenges in developing countries **2022**, 61-88 | | |
| 1 | Life Cycle GHG Emissions Analysis of Building-Level Carbon-Capturing Technologies. *Lecture Notes in Civil Engineering*, **2023**, 597-609 | 0.3 | |