

# Sami G Al-Ghamdi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115  
papers

1,316  
citations

20  
h-index

31  
g-index

128  
ext. papers

2,088  
ext. citations

4.8  
avg, IF

6.12  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 115 | Water Consumption and Environmental Impact of Multifamily Residential Buildings: A Life Cycle Assessment Study. <i>Buildings</i> , <b>2022</b> , 12, 48   | 3.2  | 2         |
| 114 | Energy modeling and photovoltaics integration as a mitigation measure for climate change impacts on energy demand. <i>Energy Reports</i> , <b>2022</b> , 8, 166-171                             | 4.6  | 6         |
| 113 | Determining the influencing factors in the residential rooftop solar photovoltaic systems adoption: Evidence from a survey in Qatar. <i>Energy Reports</i> , <b>2022</b> , 8, 257-262           | 4.6  | 0         |
| 112 | Integrated MED and HDH desalination systems for an energy-efficient zero liquid discharge (ZLD) system. <i>Energy Reports</i> , <b>2022</b> , 8, 29-34  | 4.6  | 2         |
| 111 | Life-cycle environmental assessment of solar-driven Multi-Effect Desalination (MED) plant. <i>Desalination</i> , <b>2022</b> , 524, 115451  | 10.3 | 3         |
| 110 | CFD analysis of evaporation heat transfer for falling films application. <i>Energy Reports</i> , <b>2022</b> , 8, 216-223   | 4.6  | 1         |
| 109 | Urban Transportation Networks Resilience: Indicators, Disturbances, and Assessment Methods. <i>Sustainable Cities and Society</i> , <b>2022</b> , 76, 103452                                    | 10.1 | 6         |
| 108 | Complementing circular economy with life cycle assessment: Deeper understanding of economic, social, and environmental sustainability <b>2022</b> , 145-160                                     |      | 1         |
| 107 | The built environment resilience qualities to climate change impact: Concepts, frameworks, and directions for future research. <i>Sustainable Cities and Society</i> , <b>2022</b> , 80, 103797 | 10.1 | 4         |
| 106 | Towards sustainable energy, water and food security in Qatar under climate change and anthropogenic stresses. <i>Energy Reports</i> , <b>2022</b> , 8, 514-518                                  | 4.6  | 0         |
| 105 | Impact of climate change on solar monofacial and bifacial Photovoltaics (PV) potential in Qatar. <i>Energy Reports</i> , <b>2022</b> , 8, 518-522   | 4.6  | 5         |
| 104 | Recommendations and Strategies to Mitigate Environmental Implications of Artificial Island Developments in the Gulf. <i>Sustainability</i> , <b>2022</b> , 14, 5027                             | 3.6  | 1         |
| 103 | Economic Viability of Rooftop Photovoltaic Systems and Energy Storage Systems in Qatar. <i>Energies</i> , <b>2022</b> , 15, 3040  | 3.1  | 0         |
| 102 | Municipal solid waste: A potential source of clean energy for Khartoum State in Sudan. <i>Energy Reports</i> , <b>2022</b> , 8, 342-349   | 4.6  | 0         |
| 101 | Environmental impacts of polypropylene (PP) production and prospects of its recycling in the GCC region. <i>Materials Today: Proceedings</i> , <b>2021</b> ,                                    | 1.4  | 6         |
| 100 | Life-Cycle Assessment of Polypropylene Production in the Gulf Cooperation Council (GCC) Region. <i>Polymers</i> , <b>2021</b> , 13,   | 4.5  | 5         |
| 99  | Investigating environmental life cycle impacts of active living wall for improved indoor air quality. <i>Building and Environment</i> , <b>2021</b> , 208, 108595                               | 6.5  | 1         |

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|----|--|------|----|
| 98 | Resiliency Assessment of Road Networks during Mega Sport Events: The Case of FIFA World Cup Qatar 2022. <i>Sustainability</i> , <b>2021</b> , 13, 12367  | 3.6  | 2  |
| 97 | Framework to Evaluate Quality Performance of Green Building Delivery: Project Brief and Design Stage. <i>Buildings</i> , <b>2021</b> , 11, 473   | 3.2  |    |
| 96 | Life cycle assessment of clean ammonia synthesis from thermo-catalytic solar cracking of liquefied natural gas. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 38551-38562  | 6.7  | 0  |
| 95 | Social impact assessment towards sustainable urban mobility in Qatar: Understanding behavioral change triggers. <i>Transportation Research Interdisciplinary Perspectives</i> , <b>2021</b> , 9, 100295                                | 7.3  | 2  |
| 94 | Indoor Air Quality in Buildings: A Comprehensive Review on the Factors Influencing Air Pollution in Residential and Commercial Structure. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18, | 4.6  | 24 |
| 93 | Estimation of Above-Ground Carbon-Stocks for Urban Greeneries in Arid Areas: Case Study for Doha and FIFA World Cup Qatar 2022. <i>Frontiers in Environmental Science</i> , <b>2021</b> , 9,   | 4.8  | 3  |
| 92 | Sustainability assessment, potentials and challenges of 3D printed concrete structures: A systematic review for built environmental applications. <i>Journal of Cleaner Production</i> , <b>2021</b> , 303, 127027                     | 10.3 | 11 |
| 91 | Active Botanical Biofiltration in Built Environment to Maintain Indoor Air Quality. <i>Frontiers in Built Environment</i> , <b>2021</b> , 7,   | 2.2  | 1  |
| 90 | Evapotranspiration and water availability response to climate change in the Middle East and North Africa. <i>Climatic Change</i> , <b>2021</b> , 166, 1  | 4.5  | 4  |
| 89 | Assessing the Impact of Water Efficiency Policies on Qatar's Electricity and Water Sectors. <i>Energies</i> , <b>2021</b> , 14, 4348   | 3.1  | 4  |
| 88 | Initial approximation of the implications for architecture due to climate change. <i>Advances in Building Energy Research</i> , <b>2021</b> , 15, 337-367  | 1.8  | 13 |
| 87 | Environmental Impact Associated with the Performance of Building Integrated Photovoltaics: Life-Cycle Assessment Perspective. <i>Green Energy and Technology</i> , <b>2021</b> , 203-225   | 0.6  |    |
| 86 | Development of Decision Support Tools: Methodological Framework of System Dynamics Energy Models. <i>Green Energy and Technology</i> , <b>2021</b> , 27-38   | 0.6  |    |
| 85 | Preparing for the Unpredicted: A Resiliency Approach in Energy System Assessment. <i>Green Energy and Technology</i> , <b>2021</b> , 183-201   | 0.6  | 3  |
| 84 | Renewable and Integrated Renewable Energy Systems for Buildings and Their Environmental and Socio-Economic Sustainability Assessment. <i>Green Energy and Technology</i> , <b>2021</b> , 127-144                                       | 0.6  | 2  |
| 83 | Life Cycle Thinking and Environmental Assessment of Energy Systems from Supply and Demand Perspectives. <i>Green Energy and Technology</i> , <b>2021</b> , 107-126   | 0.6  |    |
| 82 | Sustainability Assessment and Techno-Economic Analysis of Thermally Enhanced Polymer Tube for Multi-Effect Distillation (MED) Technology. <i>Polymers</i> , <b>2021</b> , 13,  | 4.5  | 8  |
| 81 | Variation in Seasonal Precipitation over Gaza (Palestine) and Its Sensitivity to Teleconnection Patterns. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 667   | 3    | 1  |

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| 80 | Environmental life cycle assessment of alternative fuels for city buses: A case study in Oujda city, Morocco. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 25308-25319                   | 6.7  | 5  |
| 79 | Life Cycle Assessment for Integration of Solid Oxide Fuel Cells into Gas Processing Operations. <i>Energies</i> , <b>2021</b> , 14, 4668  | 3.1  | 4  |
| 78 | Additive manufacturing of polymer nanocomposites: Needs and challenges in materials, processes, and applications. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 910-941               | 5.5  | 19 |
| 77 | Global Hotspots for Future Absolute Temperature Extremes From CMIP6 Models. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2021EA001817   | 3.1  | 5  |
| 76 | Walkability and Its Relationships With Health, Sustainability, and Livability: Elements of Physical Environment and Evaluation Frameworks. <i>Frontiers in Built Environment</i> , <b>2021</b> , 7,             | 2.2  | 7  |
| 75 | Synthesis of graphene oxide nanofluid based micro-nano scale surfaces for high-performance nucleate boiling thermal management systems. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101436   | 5.6  | 3  |
| 74 | Estimation of Atmospheric Carbon Mitigation through Urban Landscaping in Arid Areas Using Native Species <b>2020</b> ,  |      | 1  |
| 73 | Health impact of energy use in buildings: Radiation propagation assessment in indoor environment. <i>Energy Reports</i> , <b>2020</b> , 6, 915-920  | 4.6  | 2  |
| 72 | Performance evaluation of self-cooling concentrating photovoltaics systems using nucleate boiling heat transfer. <i>Renewable Energy</i> , <b>2020</b> , 160, 1081-1095   | 8.1  | 9  |
| 71 | Additive manufacturing: Technology, applications, markets, and opportunities for the built environment. <i>Automation in Construction</i> , <b>2020</b> , 118, 103268   | 9.6  | 39 |
| 70 | Modeling and understanding the impacts of efficiency measures on fleet fuel consumption in vehicle importing countries: A case study of Qatar. <i>Journal of Cleaner Production</i> , <b>2020</b> , 259, 120619 | 10.3 | 7  |
| 69 | Environmental impact of water-use in buildings: Latest developments from a life-cycle assessment perspective. <i>Journal of Environmental Management</i> , <b>2020</b> , 261, 110198                            | 7.9  | 21 |
| 68 | Managerial Practitioners Perspectives on Quality Performance of Green-Building Projects. <i>Buildings</i> , <b>2020</b> , 10, 71  | 3.2  | 6  |
| 67 | Properties and Microstructure Distribution of High-Performance Thermal Insulation Concrete. <i>Materials</i> , <b>2020</b> , 13,  | 3.5  | 7  |
| 66 | Economic viability of rooftop photovoltaic systems in the middle east and northern African countries. <i>Energy Reports</i> , <b>2020</b> , 6, 376-380  | 4.6  | 1  |
| 65 | High-Performance Light-Weight Concrete for 3D Printing. <i>RILEM Bookseries</i> , <b>2020</b> , 459-467   | 0.5  | 2  |
| 64 | Carbon footprint and embodied energy of PVC, PE, and PP piping: Perspective on environmental performance. <i>Energy Reports</i> , <b>2020</b> , 6, 364-370  | 4.6  | 12 |
| 63 | Effect of virtual learning on delivering the education as part of the sustainable development goals in Qatar. <i>Energy Reports</i> , <b>2020</b> , 6, 371-375  | 4.6  | 3  |

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|----|--|------|----|
| 62 | Life cycle embodied energy analysis of indoor active living wall system. <i>Energy Reports</i> , <b>2020</b> , 6, 391-395  | 4.6  | 4  |
| 61 | Technoeconomic feasibility study of grid-connected building-integrated photovoltaics system for clean electrification: A case study of Doha metro. <i>Energy Reports</i> , <b>2020</b> , 6, 407-414                    | 4.6  | 6  |
| 60 | Climate change impacts on critical urban infrastructure and urban resiliency strategies for the Middle East. <i>Sustainable Cities and Society</i> , <b>2020</b> , 54, 101948  | 10.1 | 45 |
| 59 | Performance evaluation of various individual and mixed media for greywater treatment in vertical nature-based systems. <i>Chemosphere</i> , <b>2020</b> , 245, 125564  | 8.4  | 4  |
| 58 | Environmental performance of building integrated grey water reuse systems based on Life-Cycle Assessment: A systematic and bibliographic analysis. <i>Science of the Total Environment</i> , <b>2020</b> , 712, 136535 | 10.2 | 20 |
| 57 | Efficiency of green roofs and green walls as climate change mitigation measures in extremely hot and dry climate: Case study of Qatar. <i>Energy Reports</i> , <b>2020</b> , 6, 2476-2489                              | 4.6  | 18 |
| 56 | A Novel BIPV Reconfiguration Algorithm for Maximum Power Generation under Partial Shading. <i>Energies</i> , <b>2020</b> , 13, 4470  | 3.1  | 13 |
| 55 | Sustainable Urban Transportation Approaches: Life-Cycle Assessment Perspective of Passenger Transport Modes in Qatar. <i>Transportation Research Procedia</i> , <b>2020</b> , 48, 2056-2062                            | 2.4  | 2  |
| 54 | Progress on carbon dioxide capture, storage and utilisation. <i>International Journal of Global Warming</i> , <b>2020</b> , 20, 124  | 0.6  | 8  |
| 53 | Urban concentrated photovoltaics: Advanced thermal management system using nanofluid and microporous surface. <i>Energy Conversion and Management</i> , <b>2020</b> , 222, 113244                                      | 10.6 | 7  |
| 52 | Boiling Heat Transfer Enhancement by Self-Assembled Graphene/Silver Hybrid Film for the Thermal Management of Concentrated Photovoltaics. <i>Energy Technology</i> , <b>2020</b> , 8, 2000532                          | 3.5  | 4  |
| 51 | Measuring efficiency levels in Qatari organizations and causes of inefficiencies. <i>International Journal of Engineering Business Management</i> , <b>2020</b> , 12, 184797902097082                                  | 1.9  | 1  |
| 50 | 3D Concrete Printing Sustainability: A Comparative Life Cycle Assessment of Four Construction Method Scenarios. <i>Buildings</i> , <b>2020</b> , 10, 245   | 3.2  | 20 |
| 49 | Design and analysis of a multigeneration system with concentrating photovoltaic thermal (CPV/T) and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 3484-3498                    | 6.7  | 37 |
| 48 | Multiscale integrated analysis of societal and ecosystem metabolism of Qatar. <i>Energy Reports</i> , <b>2020</b> , 6, 521-527   | 4.6  | 5  |
| 47 | Effect of R-values changes in the baseline codes: Embodied energy and environmental life cycle impacts of building envelopes. <i>Energy Reports</i> , <b>2020</b> , 6, 554-560   | 4.6  | 7  |
| 46 | Climate change implications for environmental performance of residential building energy use: The case of Qatar. <i>Energy Reports</i> , <b>2020</b> , 6, 587-592  | 4.6  | 16 |
| 45 | Evaluating the environmental and economic sustainability of energy efficiency measures in buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 257, 012028                         | 0.3  | 2  |

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|----|---|------|----|
| 44 | Technical and Environmental Perspectives on Solar-Driven Seawater Desalination: A Case Study of Multi-Effect Distillation <b>2019</b> ,   |      | 2  |
| 43 | Role of energy efficiency policies on energy consumption and CO2 emissions for building stock in Qatar. <i>Journal of Cleaner Production</i> , <b>2019</b> , 235, 1409-1424   | 10.3 | 30 |
| 42 | Design, synthesis and nucleate boiling performance assessment of hybrid micro-nano porous surfaces for thermal management of concentrated photovoltaics (CPV). <i>Energy Conversion and Management</i> , <b>2019</b> , 195, 1056-1066         | 10.6 | 26 |
| 41 | Revaluating the costs and benefits of energy efficiency: A systematic review. <i>Energy Research and Social Science</i> , <b>2019</b> , 54, 68-84   | 7.7  | 24 |
| 40 | Review of Micro/Nanoscale Surface Coatings Application for Sustaining Dropwise Condensation. <i>Coatings</i> , <b>2019</b> , 9, 117   | 2.9  | 24 |
| 39 | Amelioration of the pool boiling heat transfer performance by colloidal dispersions of carbon black. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 137, 599-608  | 4.9  | 19 |
| 38 | Building information modelling and green buildings: challenges and opportunities. <i>Architectural Engineering and Design Management</i> , <b>2019</b> , 15, 1-28   | 1.2  | 34 |
| 37 | Why is powering thermal desalination with concentrated solar power expensive? assessing economic feasibility and market commercialization barriers. <i>Solar Energy</i> , <b>2019</b> , 189, 480-490  | 6.8  | 18 |
| 36 | Evaluation of sustainable urban mobility using comparative environmental life cycle assessment: A case study of Qatar. <i>Transportation Research Interdisciplinary Perspectives</i> , <b>2019</b> , 1, 100003                                | 7.3  | 11 |
| 35 | Effectiveness of Project Delivery Systems in Executing Green Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2019</b> , 145, 03119005  | 4.2  | 22 |
| 34 | Urban Sustainability and Livability: An Analysis of Doha's Urban-form and Possible Mitigation Strategies. <i>Sustainability</i> , <b>2019</b> , 11, 786   | 3.6  | 15 |
| 33 | Integrating concentrated solar power with seawater desalination technologies: a multi-regional environmental assessment. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 074014   | 6.2  | 19 |
| 32 | Greywater treatment by ornamental plants and media for an integrated green wall system. <i>International Biodeterioration and Biodegradation</i> , <b>2019</b> , 145, 104792  | 4.8  | 13 |
| 31 | Amelioration of the pool boiling heat transfer performance via self-assembling of 3D porous graphene/carbon nanotube hybrid film over the heating surface. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 145, 118732 | 4.9  | 18 |
| 30 | Building Stock Inertia and Impacts on Energy Consumption and CO2 Emissions in Qatar <b>2019</b> ,   |      | 3  |
| 29 | Design, fabrication and nucleate pool-boiling heat transfer performance of hybrid micro-nano scale 2-D modulated porous surfaces. <i>Applied Thermal Engineering</i> , <b>2019</b> , 153, 168-180   | 5.8  | 24 |
| 28 | Life-Cycle Assessment of Thermal Desalination: Environmental Perspective on a Vital Option for Some Countries <b>2019</b> ,   |      | 1  |
| 27 | High-Resolution Household Load Profiling and Evaluation of Rooftop PV Systems in Selected Houses in Qatar. <i>Energies</i> , <b>2019</b> , 12, 3876   | 3.1  | 16 |

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|----|---|------|----|
| 26 | Framework to Optimize Cost of Quality in Delivering and Operating Green Buildings <b>2019</b> ,   |      | 4  |
| 25 | Optimal Configuration for Building Integrated Photovoltaics System to Mitigate the Partial Shading on Complex Geometric Roofs <b>2019</b> ,   |      | 1  |
| 24 | Analyzing the Environmental and Economic Sustainability of Building Materials Flow under Geopolitical Uncertainty <b>2019</b> ,   |      | 1  |
| 23 | Impact of Project Delivery Systems on Cost Overruns of Green Building Projects: System Dynamics Approach <b>2019</b> ,  |      | 2  |
| 22 | Sustainability in Mega-Events: Beyond Qatar 2022. <i>Sustainability</i> , <b>2019</b> , 11, 6407  | 3.6  | 22 |
| 21 | Monitoring Electromagnetic Radiation Emissions in Buildings and Developing Strategies for Improved Indoor Environmental Quality. <i>Health Physics</i> , <b>2019</b> , 117, 648-655   | 2.3  | 2  |
| 20 | Environmental and Economic Life Cycle Analysis of Primary Construction Materials Sourcing Under Geopolitical Uncertainties: A Case Study of Qatar. <i>Sustainability</i> , <b>2019</b> , 11, 6000                             | 3.6  | 15 |
| 19 | Comparative Review and Analysis of Organizational (In)Efficiency Indicators in Qatar. <i>Sustainability</i> , <b>2019</b> , 11, 6566  | 3.6  | 1  |
| 18 | Energy Assessment of Seawater Toilet Flushing in Qatar. <i>Green Energy and Technology</i> , <b>2019</b> , 963-968  | 0.6  | 0  |
| 17 | A review of climate change implications for built environment: Impacts, mitigation measures and associated challenges in developed and developing countries. <i>Journal of Cleaner Production</i> , <b>2019</b> , 211, 83-102 | 10.3 | 52 |
| 16 | Greywater recycling in buildings using living walls and green roofs: A review of the applicability and challenges. <i>Science of the Total Environment</i> , <b>2019</b> , 652, 330-344                                       | 10.2 | 49 |
| 15 | Examining the life-cycle environmental impacts of desalination: A case study in the State of Qatar. <i>Desalination</i> , <b>2019</b> , 452, 238-246  | 10.3 | 54 |
| 14 | Energy efficient multi-effect distillation powered by a solar linear Fresnel collector. <i>Energy Conversion and Management</i> , <b>2018</b> , 171, 576-586  | 10.6 | 35 |
| 13 | Quantifying the energy, water and food nexus: A review of the latest developments based on life-cycle assessment. <i>Journal of Cleaner Production</i> , <b>2018</b> , 193, 300-314   | 10.3 | 94 |
| 12 | Smart Technology Impact on Neighborhood Form for a Sustainable Doha. <i>Sustainability</i> , <b>2018</b> , 10, 4764   | 3.6  | 16 |
| 11 | Reducing electric energy consumption in linear Fresnel collector solar fields coupled to thermal desalination plants by optimal mirror defocusing. <i>Heliyon</i> , <b>2018</b> , 4, e00813                                   | 3.6  | 9  |
| 10 | Green Building Rating Systems and Whole-Building Life Cycle Assessment: Comparative Study of the Existing Assessment Tools. <i>Journal of Architectural Engineering</i> , <b>2017</b> , 23, 04016015                          | 1.5  | 36 |
| 9  | On-Site Renewable Energy and Green Buildings: A System-Level Analysis. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 4606-14  | 10.3 | 5  |



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|---|--|------|----|
| 8 | Life-cycle thinking and the LEED rating system: global perspective on building energy use and environmental impacts. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 4048-56 | 10.3 | 36 |
| 7 | Integrating Life Cycle Assessment with Green Building and Product Rating Systems: North American Perspective. <i>Procedia Engineering</i> , <b>2015</b> , 118, 662-669                         |      | 11 |
| 6 | Green Building Rating Systems and Environmental Impacts of Energy Consumption from an International Perspective <b>2014</b> ,  |      | 4  |
| 5 | A review of Qatar's water resources, consumption and virtual water trade <sup>90</sup> , 70-85   |      | 17 |
| 4 | A techno-economic review of solar-driven multi-effect distillation <sup>90</sup> , 86-98   |      | 17 |
| 3 | Framework to evaluate quality performance of green building delivery: construction and operational stage. <i>International Journal of Construction Management</i> ,1-15                        | 1.9  | 3  |
| 2 | Seventy-year disruption of seasons characteristics in the Arabian Peninsula. <i>International Journal of Climatology</i> ,   | 3.5  | 3  |
| 1 | Urban Infrastructure Resilience Assessment During Mega Sport Events Using a Multi-Criteria Approach. <i>Frontiers in Sustainability</i> ,2,  | 2.1  | 4  |