

Sami G Al-Ghamdi

List of Publications by Citations

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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	Quantifying the energy, water and food nexus: A review of the latest developments based on life-cycle assessment. <i>Journal of Cleaner Production</i> , 2018 , 193, 300-314	10.3	94
114	Examining the life-cycle environmental impacts of desalination: A case study in the State of Qatar. <i>Desalination</i> , 2019 , 452, 238-246	10.3	54
113	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> , 2019 , 211, 83-102	10.3	52
112	Greywater recycling in buildings using living walls and green roofs: A review of the applicability and challenges. <i>Science of the Total Environment</i> , 2019 , 652, 330-344	10.2	49
111	Climate change impacts on critical urban infrastructure and urban resiliency strategies for the Middle East. <i>Sustainable Cities and Society</i> , 2020 , 54, 101948	10.1	45
110	Additive manufacturing: Technology, applications, markets, and opportunities for the built environment. <i>Automation in Construction</i> , 2020 , 118, 103268	9.6	39
109	Design and analysis of a multigeneration system with concentrating photovoltaic thermal (CPV/T) and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 3484-3498	6.7	37
108	Life-cycle thinking and the LEED rating system: global perspective on building energy use and environmental impacts. <i>Environmental Science & Technology</i> , 2015 , 49, 4048-56	10.3	36
107	Green Building Rating Systems and Whole-Building Life Cycle Assessment: Comparative Study of the Existing Assessment Tools. <i>Journal of Architectural Engineering</i> , 2017 , 23, 04016015	1.5	36
106	Energy efficient multi-effect distillation powered by a solar linear Fresnel collector. <i>Energy Conversion and Management</i> , 2018 , 171, 576-586	10.6	35
105	Building information modelling and green buildings: challenges and opportunities. <i>Architectural Engineering and Design Management</i> , 2019 , 15, 1-28	1.2	34
104	Role of energy efficiency policies on energy consumption and CO2 emissions for building stock in Qatar. <i>Journal of Cleaner Production</i> , 2019 , 235, 1409-1424	10.3	30
103	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> , 2019 , 195, 1056-1066	10.6	26
102	Revaluing the costs and benefits of energy efficiency: A systematic review. <i>Energy Research and Social Science</i> , 2019 , 54, 68-84	7.7	24
101	Review of Micro/nanoscale Surface Coatings Application for Sustaining Dropwise Condensation. <i>Coatings</i> , 2019 , 9, 117	2.9	24
100	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> , 2021 , 18,	4.6	24
99	Design, fabrication and nucleate pool-boiling heat transfer performance of hybrid micro-nano scale 2-D modulated porous surfaces. <i>Applied Thermal Engineering</i> , 2019 , 153, 168-180	5.8	24

98	Effectiveness of Project Delivery Systems in Executing Green Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 03119005	4.2	22
97	Sustainability in Mega-Events: Beyond Qatar 2022. <i>Sustainability</i> , 2019 , 11, 6407	3.6	22
96	Environmental impact of water-use in buildings: Latest developments from a life-cycle assessment perspective. <i>Journal of Environmental Management</i> , 2020 , 261, 110198	7.9	21
95	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> , 2020 , 712, 136535	10.2	20
94	3D Concrete Printing Sustainability: A Comparative Life Cycle Assessment of Four Construction Method Scenarios. <i>Buildings</i> , 2020 , 10, 245	3.2	20
93	Amelioration of the pool boiling heat transfer performance by colloidal dispersions of carbon black. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 599-608	4.9	19
92	Integrating concentrated solar power with seawater desalination technologies: a multi-regional environmental assessment. <i>Environmental Research Letters</i> , 2019 , 14, 074014	6.2	19
91	Additive manufacturing of polymer nanocomposites: Needs and challenges in materials, processes, and applications. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 910-941	5.5	19
90	Why is powering thermal desalination with concentrated solar power expensive? assessing economic feasibility and market commercialization barriers. <i>Solar Energy</i> , 2019 , 189, 480-490	6.8	18
89	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> , 2019 , 145, 118732	4.9	18
88	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> , 2020 , 6, 2476-2489	4.6	18
87	A review of Qatar's water resources, consumption and virtual water trade	90, 70-85	17
86	A techno-economic review of solar-driven multi-effect distillation	90, 86-98	17
85	High-Resolution Household Load Profiling and Evaluation of Rooftop PV Systems in Selected Houses in Qatar. <i>Energies</i> , 2019 , 12, 3876	3.1	16
84	Climate change implications for environmental performance of residential building energy use: The case of Qatar. <i>Energy Reports</i> , 2020 , 6, 587-592	4.6	16
83	Smart Technology Impact on Neighborhood Form for a Sustainable Doha. <i>Sustainability</i> , 2018 , 10, 4764	3.6	16
82	Urban Sustainability and Livability: An Analysis of Doha's Urban-form and Possible Mitigation Strategies. <i>Sustainability</i> , 2019 , 11, 786	3.6	15
81	Environmental and Economic Life Cycle Analysis of Primary Construction Materials Sourcing Under Geopolitical Uncertainties: A Case Study of Qatar. <i>Sustainability</i> , 2019 , 11, 6000	3.6	15

80	Greywater treatment by ornamental plants and media for an integrated green wall system. <i>International Biodeterioration and Biodegradation</i> , 2019 , 145, 104792	4.8	13
79	A Novel BIPV Reconfiguration Algorithm for Maximum Power Generation under Partial Shading. <i>Energies</i> , 2020 , 13, 4470	3.1	13
78	Initial approximation of the implications for architecture due to climate change. <i>Advances in Building Energy Research</i> , 2021 , 15, 337-367	1.8	13
77	Carbon footprint and embodied energy of PVC, PE, and PP piping: Perspective on environmental performance. <i>Energy Reports</i> , 2020 , 6, 364-370	4.6	12
76	Evaluation of sustainable urban mobility using comparative environmental life cycle assessment: A case study of Qatar. <i>Transportation Research Interdisciplinary Perspectives</i> , 2019 , 1, 100003	7.3	11
75	Integrating Life Cycle Assessment with Green Building and Product Rating Systems: North American Perspective. <i>Procedia Engineering</i> , 2015 , 118, 662-669		11
74	Sustainability assessment, potentials and challenges of 3D printed concrete structures: A systematic review for built environmental applications. <i>Journal of Cleaner Production</i> , 2021 , 303, 127027	10.3	11
73	Performance evaluation of self-cooling concentrating photovoltaics systems using nucleate boiling heat transfer. <i>Renewable Energy</i> , 2020 , 160, 1081-1095	8.1	9
72	Reducing electric energy consumption in linear Fresnel collector solar fields coupled to thermal desalination plants by optimal mirror defocusing. <i>Heliyon</i> , 2018 , 4, e00813	3.6	9
71	Progress on carbon dioxide capture, storage and utilisation. <i>International Journal of Global Warming</i> , 2020 , 20, 124	0.6	8
70	Sustainability Assessment and Techno-Economic Analysis of Thermally Enhanced Polymer Tube for Multi-Effect Distillation (MED) Technology. <i>Polymers</i> , 2021 , 13,	4.5	8
69	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> , 2020 , 259, 120619	10.3	7
68	Properties and Microstructure Distribution of High-Performance Thermal Insulation Concrete. <i>Materials</i> , 2020 , 13,	3.5	7
67	Urban concentrated photovoltaics: Advanced thermal management system using nanofluid and microporous surface. <i>Energy Conversion and Management</i> , 2020 , 222, 113244	10.6	7
66	Effect of R-values changes in the baseline codes: Embodied energy and environmental life cycle impacts of building envelopes. <i>Energy Reports</i> , 2020 , 6, 554-560	4.6	7
65	Walkability and Its Relationships With Health, Sustainability, and Livability: Elements of Physical Environment and Evaluation Frameworks. <i>Frontiers in Built Environment</i> , 2021 , 7,	2.2	7
64	Managerial Practitioners' Perspectives on Quality Performance of Green-Building Projects. <i>Buildings</i> , 2020 , 10, 71	3.2	6
63	Energy modeling and photovoltaics integration as a mitigation measure for climate change impacts on energy demand. <i>Energy Reports</i> , 2022 , 8, 166-171	4.6	6

62	Environmental impacts of polypropylene (PP) production and prospects of its recycling in the GCC region. <i>Materials Today: Proceedings</i> , 2021 ,	1.4	6
61	Urban Transportation Networks Resilience: Indicators, Disturbances, and Assessment Methods. <i>Sustainable Cities and Society</i> , 2022 , 76, 103452	10.1	6
60	Technoeconomic feasibility study of grid-connected building-integrated photovoltaics system for clean electrification: A case study of Doha metro. <i>Energy Reports</i> , 2020 , 6, 407-414	4.6	6
59	Life-Cycle Assessment of Polypropylene Production in the Gulf Cooperation Council (GCC) Region. <i>Polymers</i> , 2021 , 13,	4.5	5
58	On-Site Renewable Energy and Green Buildings: A System-Level Analysis. <i>Environmental Science & Technology</i> , 2016 , 50, 4606-14	10.3	5
57	Multiscale integrated analysis of societal and ecosystem metabolism of Qatar. <i>Energy Reports</i> , 2020 , 6, 521-527	4.6	5
56	Environmental life cycle assessment of alternative fuels for city buses: A case study in Oujda city, Morocco. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25308-25319	6.7	5
55	Global Hotspots for Future Absolute Temperature Extremes From CMIP6 Models. <i>Earth and Space Science</i> , 2021 , 8, e2021EA001817	3.1	5
54	Impact of climate change on solar monofacial and bifacial Photovoltaics (PV) potential in Qatar. <i>Energy Reports</i> , 2022 , 8, 518-522	4.6	5
53	Green Building Rating Systems and Environmental Impacts of Energy Consumption from an International Perspective 2014 ,		4
52	Life cycle embodied energy analysis of indoor active living wall system. <i>Energy Reports</i> , 2020 , 6, 391-395	4.6	4
51	Performance evaluation of various individual and mixed media for greywater treatment in vertical nature-based systems. <i>Chemosphere</i> , 2020 , 245, 125564	8.4	4
50	Boiling Heat Transfer Enhancement by Self-Assembled Graphene/Silver Hybrid Film for the Thermal Management of Concentrated Photovoltaics. <i>Energy Technology</i> , 2020 , 8, 2000532	3.5	4
49	Urban Infrastructure Resilience Assessment During Mega Sport Events Using a Multi-Criteria Approach. <i>Frontiers in Sustainability</i> , 2021 ,	2.1	4
48	Evapotranspiration and water availability response to climate change in the Middle East and North Africa. <i>Climatic Change</i> , 2021 , 166, 1	4.5	4
47	Assessing the Impact of Water Efficiency Policies on Qatar's Electricity and Water Sectors. <i>Energies</i> , 2021 , 14, 4348	3.1	4
46	Framework to Optimize Cost of Quality in Delivering and Operating Green Buildings 2019 ,		4
45	Life Cycle Assessment for Integration of Solid Oxide Fuel Cells into Gas Processing Operations. <i>Energies</i> , 2021 , 14, 4668	3.1	4

44	The built environment resilience qualities to climate change impact: Concepts, frameworks, and directions for future research. <i>Sustainable Cities and Society</i> , 2022 , 80, 103797	10.1	4
43	Building Stock Inertia and Impacts on Energy Consumption and CO2 Emissions in Qatar 2019 ,		3
42	Life-cycle environmental assessment of solar-driven Multi-Effect Desalination (MED) plant. <i>Desalination</i> , 2022 , 524, 115451	10.3	3
41	Effect of virtual learning on delivering the education as part of the sustainable development goals in Qatar. <i>Energy Reports</i> , 2020 , 6, 371-375	4.6	3
40	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
39	Seventy-year disruption of seasons characteristics in the Arabian Peninsula. <i>International Journal of Climatology</i> ,	3.5	3
38	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> , 2021 , 9,	4.8	3
37	Preparing for the Unpredicted: A Resiliency Approach in Energy System Assessment. <i>Green Energy and Technology</i> , 2021 , 183-201	0.6	3
36	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> , 2021 , 28, 101436	5.6	3
35	Evaluating the environmental and economic sustainability of energy efficiency measures in buildings. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 257, 012028	0.3	2
34	Technical and Environmental Perspectives on Solar-Driven Seawater Desalination: A Case Study of Multi-Effect Distillation 2019 ,		2
33	Health impact of energy use in buildings: Radiation propagation assessment in indoor environment. <i>Energy Reports</i> , 2020 , 6, 915-920	4.6	2
32	Water Consumption and Environmental Impact of Multifamily Residential Buildings: A Life Cycle Assessment Study. <i>Buildings</i> , 2022 , 12, 48	3.2	2
31	Integrated MED and HDH desalination systems for an energy-efficient zero liquid discharge (ZLD) system. <i>Energy Reports</i> , 2022 , 8, 29-34	4.6	2
30	Resiliency Assessment of Road Networks during Mega Sport Events: The Case of FIFA World Cup Qatar 2022. <i>Sustainability</i> , 2021 , 13, 12367	3.6	2
29	High-Performance Light-Weight Concrete for 3D Printing. <i>RILEM Bookseries</i> , 2020 , 459-467	0.5	2
28	Sustainable Urban Transportation Approaches: Life-Cycle Assessment Perspective of Passenger Transport Modes in Qatar. <i>Transportation Research Procedia</i> , 2020 , 48, 2056-2062	2.4	2
27	Social impact assessment towards sustainable urban mobility in Qatar: Understanding behavioral change triggers. <i>Transportation Research Interdisciplinary Perspectives</i> , 2021 , 9, 100295	7.3	2

26	Impact of Project Delivery Systems on Cost Overruns of Green Building Projects: System Dynamics Approach 2019 ,		2
25	Monitoring Electromagnetic Radiation Emissions in Buildings and Developing Strategies for Improved Indoor Environmental Quality. <i>Health Physics</i> , 2019 , 117, 648-655	2.3	2
24	Renewable and Integrated Renewable Energy Systems for Buildings and Their Environmental and Socio-Economic Sustainability Assessment. <i>Green Energy and Technology</i> , 2021 , 127-144	0.6	2
23	Estimation of Atmospheric Carbon Mitigation through Urban Landscaping in Arid Areas Using Native Species 2020 ,		1
22	CFD analysis of evaporation heat transfer for falling films application. <i>Energy Reports</i> , 2022 , 8, 216-223	4.6	1
21	Investigating environmental life cycle impacts of active living wall for improved indoor air quality. <i>Building and Environment</i> , 2021 , 208, 108595	6.5	1
20	Economic viability of rooftop photovoltaic systems in the middle east and northern African countries. <i>Energy Reports</i> , 2020 , 6, 376-380	4.6	1
19	Measuring efficiency levels in Qatari organizations and causes of inefficiencies. <i>International Journal of Engineering Business Management</i> , 2020 , 12, 184797902097082	1.9	1
18	Active Botanical Biofiltration in Built Environment to Maintain Indoor Air Quality. <i>Frontiers in Built Environment</i> , 2021 , 7,	2.2	1
17	Life-Cycle Assessment of Thermal Desalination: Environmental Perspective on a Vital Option for Some Countries 2019 ,		1
16	Optimal Configuration for Building Integrated Photovoltaics System to Mitigate the Partial Shading on Complex Geometric Roofs 2019 ,		1
15	Analyzing the Environmental and Economic Sustainability of Building Materials Flow under Geopolitical Uncertainty 2019 ,		1
14	Comparative Review and Analysis of Organizational (In)Efficiency Indicators in Qatar. <i>Sustainability</i> , 2019 , 11, 6566	3.6	1
13	Variation in Seasonal Precipitation over Gaza (Palestine) and Its Sensitivity to Teleconnection Patterns. <i>Water (Switzerland)</i> , 2021 , 13, 667	3	1
12	Complementing circular economy with life cycle assessment: Deeper understanding of economic, social, and environmental sustainability 2022 , 145-160		1
11	Recommendations and Strategies to Mitigate Environmental Implications of Artificial Island Developments in the Gulf. <i>Sustainability</i> , 2022 , 14, 5027	3.6	1
10	Determining the influencing factors in the residential rooftop solar photovoltaic systems adoption: Evidence from a survey in Qatar. <i>Energy Reports</i> , 2022 , 8, 257-262	4.6	0
9	Life cycle assessment of clean ammonia synthesis from thermo-catalytic solar cracking of liquefied natural gas. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 38551-38562	6.7	0

8	Energy Assessment of Seawater Toilet Flushing in Qatar. <i>Green Energy and Technology</i> , 2019 , 963-968	0.6	o
7	Towards sustainable energy, water and food security in Qatar under climate change and anthropogenic stresses. <i>Energy Reports</i> , 2022 , 8, 514-518	4.6	o
6	Economic Viability of Rooftop Photovoltaic Systems and Energy Storage Systems in Qatar. <i>Energies</i> , 2022 , 15, 3040	3.1	o
5	Municipal solid waste: A potential source of clean energy for Khartoum State in Sudan. <i>Energy Reports</i> , 2022 , 8, 342-349	4.6	o
4	Framework to Evaluate Quality Performance of Green Building Delivery: Project Brief and Design Stage. <i>Buildings</i> , 2021 , 11, 473	3.2	
3	Environmental Impact Associated with the Performance of Building Integrated Photovoltaics: Life-Cycle Assessment Perspective. <i>Green Energy and Technology</i> , 2021 , 203-225	0.6	
2	Development of Decision Support Tools: Methodological Framework of System Dynamics Energy Models. <i>Green Energy and Technology</i> , 2021 , 27-38	0.6	
1	Life Cycle Thinking and Environmental Assessment of Energy Systems from Supply and Demand Perspectives. <i>Green Energy and Technology</i> , 2021 , 107-126	0.6	