

Sami G Al-Ghamdi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5944650/publications.pdf>

Version: 2024-02-01

127
papers

3,173
citations

126901

33
h-index

206102

48
g-index

128
all docs

128
docs citations

128
times ranked

2086
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	9.3	152
2	Climate change impacts on critical urban infrastructure and urban resiliency strategies for the Middle East. <i>Sustainable Cities and Society</i> , 2020, 54, 101948.	10.4	131
3	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, 3276.	2.6	119
4	Additive manufacturing: Technology, applications, markets, and opportunities for the built environment. <i>Automation in Construction</i> , 2020, 118, 103268.	9.8	112
5	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.	9.3	97
6	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.	5.8	95
7	Examining the life-cycle environmental impacts of desalination: A case study in the State of Qatar. <i>Desalination</i> , 2019, 452, 238-246.	8.2	92
8	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.	8.0	91
9	Urban Transportation Networks Resilience: Indicators, Disturbances, and Assessment Methods. <i>Sustainable Cities and Society</i> , 2022, 76, 103452.	10.4	73
10	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.	9.3	67
11	3D Concrete Printing Sustainability: A Comparative Life Cycle Assessment of Four Construction Method Scenarios. <i>Buildings</i> , 2020, 10, 245.	3.1	60
12	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.	5.1	59
13	Building information modelling and green buildings: challenges and opportunities. <i>Architectural Engineering and Design Management</i> , 2019, 15, 1-28.	1.7	52
14	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.	9.3	52
15	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, .	1.6	49
16	Environmental impacts of polypropylene (PP) production and prospects of its recycling in the GCC region. <i>Materials Today: Proceedings</i> , 2022, 56, 2245-2251.	1.8	49
17	Sustainability in Mega-Events: Beyond Qatar 2022. <i>Sustainability</i> , 2019, 11, 6407.	3.2	48
18	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.	7.1	48

#	ARTICLE	IF	CITATIONS
19	Life-Cycle Thinking and the LEED Rating System: Global Perspective on Building Energy Use and Environmental Impacts. <i>Environmental Science & Technology</i> , 2015, 49, 4048-4056.	10.0	45
20	Energy efficient multi-effect distillation powered by a solar linear Fresnel collector. <i>Energy Conversion and Management</i> , 2018, 171, 576-586.	9.2	45
21	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.	9.2	44
22	Carbon footprint and embodied energy of PVC, PE, and PP piping: Perspective on environmental performance. <i>Energy Reports</i> , 2020, 6, 364-370.	5.1	42
23	Revaluating the costs and benefits of energy efficiency: A systematic review. <i>Energy Research and Social Science</i> , 2019, 54, 68-84.	6.4	41
24	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.	10.4	40
25	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.	6.0	39
26	Walkability and Its Relationships With Health, Sustainability, and Livability: Elements of Physical Environment and Evaluation Frameworks. <i>Frontiers in Built Environment</i> , 2021, 7, .	2.3	39
27	Effectiveness of Project Delivery Systems in Executing Green Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	3.8	38
28	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.	8.0	35
29	Environmental impact of water-use in buildings: Latest developments from a life-cycle assessment perspective. <i>Journal of Environmental Management</i> , 2020, 261, 110198.	7.8	35
30	Integrating concentrated solar power with seawater desalination technologies: a multi-regional environmental assessment. <i>Environmental Research Letters</i> , 2019, 14, 074014.	5.2	34
31	Climate change implications for environmental performance of residential building energy use: The case of Qatar. <i>Energy Reports</i> , 2020, 6, 587-592.	5.1	34
32	Evapotranspiration and water availability response to climate change in the Middle East and North Africa. <i>Climatic Change</i> , 2021, 166, 1.	3.6	34
33	Global Hotspots for Future Absolute Temperature Extremes From CMIP6 Models. <i>Earth and Space Science</i> , 2021, 8, e2021EA001817.	2.6	34
34	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.	4.8	33
35	Review of Micro-€Nanoscale Surface Coatings Application for Sustaining Dropwise Condensation. <i>Coatings</i> , 2019, 9, 117.	2.6	33
36	High-Resolution Household Load Profiling and Evaluation of Rooftop PV Systems in Selected Houses in Qatar. <i>Energies</i> , 2019, 12, 3876.	3.1	33

#	ARTICLE	IF	CITATIONS
37	Combined effects of chemical reaction and variable thermal conductivity on MHD peristaltic flow of Phan-Thien-Tanner liquid through inclined channel. Case Studies in Thermal Engineering, 2022, 36, 102214.	5.7	32
38	Why is powering thermal desalination with concentrated solar power expensive? assessing economic feasibility and market commercialization barriers. Solar Energy, 2019, 189, 480-490.	6.1	31
39	Greywater treatment by ornamental plants and media for an integrated green wall system. International Biodeterioration and Biodegradation, 2019, 145, 104792.	3.9	31
40	Life-cycle environmental assessment of solar-driven Multi-Effect Desalination (MED) plant. Desalination, 2022, 524, 115451.	8.2	31
41	A review of Qatar's water resources, consumption and virtual water trade. , 0, 90, 70-85.		29
42	Impact of climate change on solar monofacial and bifacial Photovoltaics (PV) potential in Qatar. Energy Reports, 2022, 8, 518-522.	5.1	29
43	Life-Cycle Assessment of Polypropylene Production in the Gulf Cooperation Council (GCC) Region. Polymers, 2021, 13, 3793.	4.5	28
44	Sustainable Consumption and Education for Sustainability in Higher Education. Sustainability, 2022, 14, 7255.	3.2	26
45	Energy modeling and photovoltaics integration as a mitigation measure for climate change impacts on energy demand. Energy Reports, 2022, 8, 166-171.	5.1	25
46	Urban Sustainability and Livability: An Analysis of Doha's Urban-form and Possible Mitigation Strategies. Sustainability, 2019, 11, 786.	3.2	24
47	A Novel BIPV Reconfiguration Algorithm for Maximum Power Generation under Partial Shading. Energies, 2020, 13, 4470.	3.1	24
48	A techno-economic review of solar-driven multi-effect distillation. , 0, 90, 86-98.		23
49	Exploring urban growth's "climate change" flood risk nexus in fast growing cities. Scientific Reports, 2022, 12, .	3.3	23
50	Amelioration of the pool boiling heat transfer performance by colloidal dispersions of carbon black. International Journal of Heat and Mass Transfer, 2019, 137, 599-608.	4.8	22
51	Initial approximation of the implications for architecture due to climate change. Advances in Building Energy Research, 2021, 15, 337-367.	2.3	22
52	Integrated MED and HDH desalination systems for an energy-efficient zero liquid discharge (ZLD) system. Energy Reports, 2022, 8, 29-34.	5.1	22
53	Smart Technology Impact on Neighborhood Form for a Sustainable Doha. Sustainability, 2018, 10, 4764.	3.2	21
54	Progress on carbon dioxide capture, storage and utilisation. International Journal of Global Warming, 2020, 20, 124.	0.5	21

#	ARTICLE	IF	CITATIONS
55	Life Cycle Assessment for Integration of Solid Oxide Fuel Cells into Gas Processing Operations. <i>Energies</i> , 2021, 14, 4668.	3.1	21
56	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.	3.2	20
57	Performance evaluation of self-cooling concentrating photovoltaics systems using nucleate boiling heat transfer. <i>Renewable Energy</i> , 2020, 160, 1081-1095.	8.9	19
58	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.	7.1	18
59	Sustainability Assessment and Techno-Economic Analysis of Thermally Enhanced Polymer Tube for Multi-Effect Distillation (MED) Technology. <i>Polymers</i> , 2021, 13, 681.	4.5	17
60	Seventy-year disruption of seasons characteristics in the Arabian Peninsula. <i>International Journal of Climatology</i> , 2021, 41, 5920-5937.	3.5	17
61	Integrating Life Cycle Assessment with Green Building and Product Rating Systems: North American Perspective. <i>Procedia Engineering</i> , 2015, 118, 662-669.	1.2	16
62	Performance evaluation of various individual and mixed media for greywater treatment in vertical nature-based systems. <i>Chemosphere</i> , 2020, 245, 125564.	8.2	16
63	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.	3.8	15
64	Urban Infrastructure Resilience Assessment During Mega Sport Events Using a Multi-Criteria Approach. <i>Frontiers in Sustainability</i> , 2021, 2, .	2.6	15
65	Investigating environmental life cycle impacts of active living wall for improved indoor air quality. <i>Building and Environment</i> , 2022, 208, 108595.	6.9	15
66	Resiliency Assessment of Road Networks during Mega Sport Events: The Case of FIFA World Cup Qatar 2022. <i>Sustainability</i> , 2021, 13, 12367.	3.2	15
67	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.	3.2	14
68	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.	5.1	14
69	Properties and Microstructure Distribution of High-Performance Thermal Insulation Concrete. <i>Materials</i> , 2020, 13, 2091.	2.9	14
70	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.	2.7	13
71	Urban concentrated photovoltaics: Advanced thermal management system using nanofluid and microporous surface. <i>Energy Conversion and Management</i> , 2020, 222, 113244.	9.2	12
72	Preparing for the Unpredicted: A Resiliency Approach in Energy System Assessment. <i>Green Energy and Technology</i> , 2021, , 183-201.	0.6	12

#	ARTICLE	IF	CITATIONS
73	Active Botanical Biofiltration in Built Environment to Maintain Indoor Air Quality. <i>Frontiers in Built Environment</i> , 2021, 7, .	2.3	12
74	Towards sustainable energy, water and food security in Qatar under climate change and anthropogenic stresses. <i>Energy Reports</i> , 2022, 8, 514-518.	5.1	12
75	Life cycle assessment of binary recycled ceramic tile and recycled brick waste-based geopolymers. <i>Cleaner Materials</i> , 2022, 5, 100116.	5.1	12
76	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.	5.1	11
77	Managerial Practitionersâ€™ Perspectives on Quality Performance of Green-Building Projects. <i>Buildings</i> , 2020, 10, 71.	3.1	11
78	Environmental and mechanical performance of different fiber reinforced polymers in beams. <i>Materials Today: Proceedings</i> , 2022, 62, 3548-3552.	1.8	11
79	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.	9.3	10
80	Environmental impacts of using recycled plastics in concrete. <i>Materials Today: Proceedings</i> , 2022, 62, 4013-4017.	1.8	10
81	Sustainable Urban Transportation Approaches: Life-Cycle Assessment Perspective of Passenger Transport Modes in Qatar. <i>Transportation Research Procedia</i> , 2020, 48, 2056-2062.	1.5	9
82	Assessing the Impact of Water Efficiency Policies on Qatarâ€™s Electricity and Water Sectors. <i>Energies</i> , 2021, 14, 4348.	3.1	9
83	High-Performance Light-Weight Concrete for 3D Printing. <i>RILEM Bookseries</i> , 2020, , 459-467.	0.4	9
84	Framework to evaluate quality performance of green building delivery: construction and operational stage. <i>International Journal of Construction Management</i> , 2023, 23, 253-267.	3.2	9
85	Recommendations and Strategies to Mitigate Environmental Implications of Artificial Island Developments in the Gulf. <i>Sustainability</i> , 2022, 14, 5027.	3.2	9
86	On-Site Renewable Energy and Green Buildings: A System-Level Analysis. <i>Environmental Science & Technology</i> , 2016, 50, 4606-4614.	10.0	8
87	Sustainable development of Qatar aquifers under global warming impact. <i>International Journal of Global Warming</i> , 2021, 25, 323.	0.5	8
88	Water Consumption and Environmental Impact of Multifamily Residential Buildings: A Life Cycle Assessment Study. <i>Buildings</i> , 2022, 12, 48.	3.1	8
89	Variation in Seasonal Precipitation over Gaza (Palestine) and Its Sensitivity to Teleconnection Patterns. <i>Water (Switzerland)</i> , 2021, 13, 667.	2.7	7
90	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, .	3.3	7

#	ARTICLE	IF	CITATIONS
91	Synthesis of graphene oxide nanofluid based micro-nano scale surfaces for high-performance nucleate boiling thermal management systems. Case Studies in Thermal Engineering, 2021, 28, 101436.	5.7	7
92	Effect of virtual learning on delivering the education as part of the sustainable development goals in Qatar. Energy Reports, 2020, 6, 371-375.	5.1	7
93	Life cycle embodied energy analysis of indoor active living wall system. Energy Reports, 2020, 6, 391-395.	5.1	7
94	Life cycle assessment of clean ammonia synthesis from thermo-catalytic solar cracking of liquefied natural gas. International Journal of Hydrogen Energy, 2021, 46, 38551-38562.	7.1	7
95	Economic viability of rooftop photovoltaic systems in the middle east and northern African countries. Energy Reports, 2020, 6, 376-380.	5.1	7
96	Multiscale integrated analysis of societal and ecosystem metabolism of Qatar. Energy Reports, 2020, 6, 521-527.	5.1	6
97	Health impact of energy use in buildings: Radiation propagation assessment in indoor environment. Energy Reports, 2020, 6, 915-920.	5.1	6
98	Complementing circular economy with life cycle assessment: Deeper understanding of economic, social, and environmental sustainability. , 2022, , 145-160.		6
99	CFD analysis of evaporation heat transfer for falling films application. Energy Reports, 2022, 8, 216-223.	5.1	6
100	Determining the influencing factors in the residential rooftop solar photovoltaic systems adoption: Evidence from a survey in Qatar. Energy Reports, 2022, 8, 257-262.	5.1	6
101	Economic Viability of Rooftop Photovoltaic Systems and Energy Storage Systems in Qatar. Energies, 2022, 15, 3040.	3.1	6
102	Green Building Rating Systems and Environmental Impacts of Energy Consumption from an International Perspective. , 2014, , .		5
103	Framework to Optimize Cost of Quality in Delivering and Operating Green Buildings. , 2019, , .		5
104	Impact of Project Delivery Systems on Cost Overruns of Green Building Projects: System Dynamics Approach. , 2019, , .		5
105	Renewable and Integrated Renewable Energy Systems for Buildings and Their Environmental and Socio-Economic Sustainability Assessment. Green Energy and Technology, 2021, , 127-144.	0.6	5
106	Life-Cycle Assessment of Thermal Desalination: Environmental Perspective on a Vital Option for Some Countries. , 2019, , .		4
107	Comparative Review and Analysis of Organizational (In)Efficiency Indicators in Qatar. Sustainability, 2019, 11, 6566.	3.2	4
108	Social impact assessment towards sustainable urban mobility in Qatar: Understanding behavioral change triggers. Transportation Research Interdisciplinary Perspectives, 2021, 9, 100295.	2.7	4

#	ARTICLE	IF	CITATIONS
109	A special characteristic of an earthquake response spectrum detected in Turkey. <i>Materials Today: Proceedings</i> , 2022, 62, 3589-3592.	1.8	4
110	Monitoring Electromagnetic Radiation Emissions in Buildings and Developing Strategies for Improved Indoor Environmental Quality [RETRACTED]. <i>Health Physics</i> , 2019, 117, 648-655.	0.5	3
111	Building Stock Inertia and Impacts on Energy Consumption and CO2 Emissions in Qatar. , 2019, , .		3
112	Municipal solid waste: A potential source of clean energy for Khartoum State in Sudan. <i>Energy Reports</i> , 2022, 8, 342-349.	5.1	3
113	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
114	Technical and Environmental Perspectives on Solar-Driven Seawater Desalination: A Case Study of Multi-Effect Distillation. , 2019, , .		2
115	Optimal Configuration for Building Integrated Photovoltaics System to Mitigate the Partial Shading on Complex Geometric Roofs. , 2019, , .		1
116	Analyzing the Environmental and Economic Sustainability of Building Materials Flow under Geopolitical Uncertainty. , 2019, , .		1
117	Energy Assessment of Seawater Toilet Flushing in Qatar. <i>Green Energy and Technology</i> , 2019, , 963-968.	0.6	1
118	Measuring efficiency levels in Qatari organizations and causes of inefficiencies. <i>International Journal of Engineering Business Management</i> , 2020, 12, 184797902097082.	3.7	1
119	Environmental Performance of Building Integrated Grey Water Reuse Systems: Life Cycle Assessment Perspective. , 2020, , .		1
120	Estimation of Atmospheric Carbon Mitigation through Urban Landscaping in Arid Areas Using Native Species. , 2020, , .		1
121	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	1
122	Framework to Evaluate Quality Performance of Green Building Delivery: Project Brief and Design Stage. <i>Buildings</i> , 2021, 11, 473.	3.1	1
123	Assessment of the Climate Change Impact on the Arabian Peninsula Evapotranspiration Losses. , 2022, , .		1
124	Is Managed Aquifer Recharge a Feasible Solution for Groundwater Deterioration in Qatar?. , 2022, , .		1
125	The Impact of Climate Change on Urban Environment in GCC Countries and Related Energy Systems: Mitigation Measures and Associated Challenges. , 2019, , .		0
126	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	0

#	ARTICLE	IF	CITATIONS
127	Development of Decision Support Tools: Methodological Framework of System Dynamics Energy Models. Green Energy and Technology, 2021, , 27-38.	0.6	0