

Somayeh Asadi

List of Publications by Citations

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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.

128
papers

2,025
citations

27
h-index

40
g-index

146
ext. papers

2,647
ext. citations

4.7
avg, IF

5.94
L-index

#	Paper	IF	Citations
128	On the development of multi-linear regression analysis to assess energy consumption in the early stages of building design. <i>Energy and Buildings</i> , 2014 , 85, 246-255	7	137
127	Economic-environmental effect of power to gas technology in coupled electricity and gas systems with price-responsive shiftable loads. <i>Journal of Cleaner Production</i> , 2020 , 244, 118769	10.3	88
126	Dicyclopentadiene and Sodium Silicate Microencapsulation for Self-Healing of Concrete. <i>Journal of Materials in Civil Engineering</i> , 2014 , 26, 886-896	3	69
125	Large-scale combined heat and power economic dispatch using a novel multi-player harmony search method. <i>Applied Thermal Engineering</i> , 2019 , 154, 493-504	5.8	67
124	Towards the optimization of sustainable food-energy-water systems: A stochastic approach. <i>Journal of Cleaner Production</i> , 2018 , 171, 662-674	10.3	66
123	Using multiple regression analysis to develop energy consumption indicators for commercial buildings in the U.S.. <i>Energy and Buildings</i> , 2015 , 109, 209-216	7	63
122	Evaluation of Self-Healing Mechanisms in Concrete with Double-Walled Sodium Silicate Microcapsules. <i>Journal of Materials in Civil Engineering</i> , 2015 , 27, 04015035	3	63
121	Development of a new methodology to optimize building life cycle cost, environmental impacts, and occupant satisfaction. <i>Energy</i> , 2017 , 121, 606-615	7.9	57
120	Evaluating the impact of multi-carrier energy storage systems in optimal operation of integrated electricity, gas and district heating networks. <i>Applied Thermal Engineering</i> , 2020 , 176, 115413	5.8	56
119	Improved harmony search algorithm for the solution of non-linear non-convex short-term hydrothermal scheduling. <i>Energy</i> , 2018 , 151, 226-237	7.9	51
118	Life cycle assessment of exterior window shadings in residential buildings in different climate zones. <i>Building and Environment</i> , 2015 , 90, 168-177	6.5	49
117	Impact of climate change on demands for heating and cooling energy in hospitals: An in-depth case study of six islands located in the Indian Ocean region. <i>Sustainable Cities and Society</i> , 2019 , 44, 629-645	10.1	44
116	Sustainable Photocatalytic Asphalt Pavements for Mitigation of Nitrogen Oxide and Sulfur Dioxide Vehicle Emissions. <i>Journal of Materials in Civil Engineering</i> , 2013 , 25, 365-371	3	42
115	Risk-constrained energy management of PV integrated smart energy hub in the presence of demand response program and compressed air energy storage. <i>IET Renewable Power Generation</i> , 2019 , 13, 998-1008	2.9	41
114	Two-Stage Robust Stochastic Model Scheduling for Transactive Energy Based Renewable Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6857-6867	11.9	41
113	Two-stage stochastic programming model for optimal scheduling of the wind-thermal-hydropower-pumped storage system considering the flexibility assessment. <i>Energy</i> , 2020 , 193, 116657	7.9	40
112	Chance-constrained models for transactive energy management of interconnected microgrid clusters. <i>Journal of Cleaner Production</i> , 2020 , 271, 122177	10.3	39

111	Optimal chiller loading for saving energy by exchange market algorithm. <i>Energy and Buildings</i> , 2018 , 169, 245-253	7	36
110	A Novel Operational Model for Interconnected Microgrids Participation in Transactive Energy Market: A Hybrid IGD/STochastic Approach. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 4025-4035	11.9	36
109	Feasibility Study of the Potential Use of Drill Cuttings in Concrete. <i>Procedia Engineering</i> , 2015 , 118, 1015-1023		33
108	Thermal comfort and comparison of some parameters coming from hospitals and shopping centers under natural ventilation: The case of Madagascar Island. <i>Journal of Building Engineering</i> , 2017 , 13, 196-206	5.3	32
107	Durability Quantification of TiO ₂ Surface Coating on Concrete and Asphalt Pavements. <i>Journal of Materials in Civil Engineering</i> , 2014 , 26, 331-337	3	32
106	Multi-linear Regression Models to Predict the Annual Energy Consumption of an Office Building with Different Shapes. <i>Procedia Engineering</i> , 2015 , 118, 622-629		31
105	Evaluation of hydrogen storage technology in risk-constrained stochastic scheduling of multi-carrier energy systems considering power, gas and heating network constraints. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 30129-30141	6.7	31
104	Laboratory Evaluation of Environmental Performance of Photocatalytic Titanium Dioxide Warm-Mix Asphalt Pavements. <i>Journal of Materials in Civil Engineering</i> , 2012 , 24, 599-605	3	30
103	Artificial intelligence modeling to evaluate field performance of photocatalytic asphalt pavement for ambient air purification. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 8847-57	5.1	29
102	Distributionally Robust Chance-Constrained Transactive Energy Framework for Coupled Electrical and Gas Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 347-357	8.9	27
101	The effect of solar chimney layout on ventilation rate in buildings. <i>Energy and Buildings</i> , 2016 , 123, 71-78		23
100	A novel fusion-based deep learning model for sentiment analysis of COVID-19 tweets. <i>Knowledge-Based Systems</i> , 2021 , 228, 107242	7.3	23
99	Transactive energy management for optimal scheduling of interconnected microgrids with hydrogen energy storage. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16267-16278	6.7	22
98	Integrating building and transportation energy use to design a comprehensive greenhouse gas mitigation strategy. <i>Applied Energy</i> , 2016 , 165, 234-243	10.7	21
97	Development and validation of a simple estimating tool to predict heating and cooling energy demand for attics of residential buildings. <i>Energy and Buildings</i> , 2012 , 54, 12-21	7	21
96	A stochastic optimization approach to reduce greenhouse gas emissions from buildings and transportation. <i>Energy</i> , 2016 , 106, 367-377	7.9	21
95	Optimal operation of multi-carrier energy networks with gas, power, heating, and water energy sources considering different energy storage technologies. <i>Journal of Energy Storage</i> , 2020 , 31, 101574	7.8	19
94	Application of Dynamic Non-Linear Programming Technique to Non-Convex Short-Term Hydrothermal Scheduling Problem. <i>Energies</i> , 2017 , 10, 1440	3.1	19

93	Supervised Intelligence Committee Machine to Evaluate Field Performance of Photocatalytic Asphalt Pavement for Ambient Air Purification. <i>Transportation Research Record</i> , 2015 , 2528, 96-105	1.7	18
92	Environmental and economic life cycle assessment of PEX and copper plumbing systems: A case study. <i>Journal of Cleaner Production</i> , 2016 , 137, 1228-1236	10.3	18
91	Building energy model calibration using automated optimization-based algorithm. <i>Energy and Buildings</i> , 2019 , 198, 106-114	7	17
90	Energy choices in Alaska: Mining people's perception and attitudes from geotagged tweets. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 124, 109781	16.2	17
89	Single and combined phase change materials: Their effect on seasonal transition period. <i>Energy and Buildings</i> , 2018 , 169, 453-472	7	17
88	Development of Photocatalytic Pervious Concrete Pavement for Air and Storm Water Improvements. <i>Transportation Research Record</i> , 2012 , 2290, 161-167	1.7	17
87	Energy Exchange Control in Multiple Microgrids with Transactive Energy Management. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020 , 8, 719-726	4	17
86	Chance-constrained scheduling of hybrid microgrids under transactive energy control. <i>International Journal of Energy Research</i> , 2021 , 45, 10173-10190	4.5	17
85	Harmony search algorithm for energy system applications: an updated review and analysis. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2019 , 31, 723-749	2	16
84	Optimal Operation of Multi-Carrier Energy Networks Considering Uncertain Parameters and Thermal Energy Storage. <i>Sustainability</i> , 2020 , 12, 5158	3.6	15
83	Quantitative modeling of interconnections associated with sustainable food, energy and water (FEW) systems. <i>Journal of Cleaner Production</i> , 2018 , 200, 86-99	10.3	15
82	Influence of indoor environmental quality on the self-estimated performance of office workers in the tropical wet and hot climate of Cameroon. <i>Journal of Building Engineering</i> , 2019 , 21, 141-148	5.2	15
81	A solar dish Stirling engine combined humidification-dehumidification desalination cycle for cleaner production of cool, pure water, and power in hot and humid regions. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 37, 100642	4.7	14
80	Performance evaluation of an attic radiant barrier system using three-dimensional transient finite element method. <i>Journal of Building Physics</i> , 2013 , 36, 247-264	2.6	14
79	Evaluating photocatalytic asphalt pavement effectiveness in real-world environments through developing models: a statistical and kinetic study. <i>Road Materials and Pavement Design</i> , 2013 , 14, 92-105 ^{2.6}	2.6	13
78	A study on the thermal behavior of traditional residential buildings: Rasoulia house case study. <i>Journal of Building Engineering</i> , 2016 , 7, 334-342	5.2	13
77	Optimal Day-Ahead Scheduling of the Renewable Based Energy Hubs Considering Demand Side Energy Management 2019 ,		12
76	Robust scheduling of multi-chiller system with chilled-water storage under hourly electricity pricing. <i>Energy and Buildings</i> , 2020 , 218, 110058	7	12

75	A Transactive Energy Management Framework for Regional Network of Microgrids 2019 ,		11
74	An Exploration of Synergies between Lean Concepts and BIM in FM: A Review and Directions for Future Research. <i>Buildings</i> , 2019 , 9, 147	3.2	11
73	Investigation of thermal comfort efficacy of solar chimneys under different climates and operation time periods. <i>Energy and Buildings</i> , 2019 , 205, 109528	7	11
72	Robust stochastic optimal short-term generation scheduling of hydrothermal systems in deregulated environment. <i>Journal of Energy Systems</i> , 168-179	0.8	11
71	Charging and Discharging of Electric Vehicles in Power Systems: An Updated and Detailed Review of Methods, Control Structures, Objectives, and Optimization Methodologies. <i>Sustainability</i> , 2022 , 14, 2137	3.6	11
70	Bi-level model for generation expansion planning with contract pricing of renewable energy in the presence of energy storage. <i>IET Renewable Power Generation</i> , 2019 , 13, 1544-1553	2.9	10
69	Intelligent approach for residential load scheduling. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4738-4745	2.5	10
68	An updated review on multi-carrier energy systems with electricity, gas, and water energy sources. <i>Journal of Cleaner Production</i> , 2020 , 275, 123136	10.3	10
67	Intelligent designer: A computational approach to automating design of windows in buildings. <i>Automation in Construction</i> , 2019 , 102, 160-169	9.6	10
66	Predicting the strength of polymer-modified thin-layer asphalt with fuzzy logic. <i>Construction and Building Materials</i> , 2018 , 169, 826-834	6.7	8
65	Investigation of the performance properties of asphalt binders and mixtures modified by Crumb Rubber and Gilsonite. <i>Construction and Building Materials</i> , 2021 , 279, 122424	6.7	8
64	Evaluation of the thermal performance of a roof-mounted radiant barrier in residential buildings: Experimental study. <i>Journal of Building Physics</i> , 2014 , 38, 66-80	2.6	7
63	Influence of energy mix on the life cycle of an eco-neighborhood, a case study of 150 countries. <i>Renewable Energy</i> , 2020 , 162, 81-97	8.1	7
62	A study of life cycle assessment in two old neighbourhoods in Belgium. <i>Sustainable Cities and Society</i> , 2020 , 52, 101744	10.1	7
61	Application of Bass Diffusion Theory to Simulate the Impact of Feedback and Word of Mouth on Occupants Behavior in Commercial Buildings: An Agent-Based Approach. <i>Journal of Architectural Engineering</i> , 2016 , 22, 04016013	1.5	6
60	Framework for Energy-Efficient Building Envelope Design Optimization Tool. <i>Journal of Architectural Engineering</i> , 2018 , 24, 04018008	1.5	5
59	Determining the Optimum Geometrical Design Parameters of Windows in Commercial Buildings: Comparison between Humid Subtropical and Humid Continental Climate Zones in the United States. <i>Journal of Architectural Engineering</i> , 2018 , 24, 04018026	1.5	5
58	A Multiobjective Harmony-Search Algorithm for Building Life-cycle Energy Optimization 2014 ,		5

57	Sustainable Energy Systems Planning, Integration, and Management. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4451	2.6	4
56	Measuring End-User Satisfaction in the Design of Building Projects Using Eye-Tracking Technology 2015 ,		4
55	An Updated Review on Net-Zero Energy and Water Buildings: Design and Operation 2020 , 267-290		4
54	Neurophysiological testing for assessing construction workers' task performance at virtual height. <i>Automation in Construction</i> , 2020 , 113, 103143	9.6	4
53	Using Building Energy Simulation and Geospatial Analysis to Determine Building and Transportation Related Energy Use 2015 ,		4
52	Financial Risk-Based Scheduling of Micro grids Accompanied by Surveying the Influence of the Demand Response Program 2021 ,		4
51	On the optimization of energy efficient fenestration for small commercial buildings in the United States. <i>Journal of Cleaner Production</i> , 2021 , 283, 124604	10.3	4
50	Non-invasive physical demand assessment using wearable respiration sensor and random forest classifier. <i>Journal of Building Engineering</i> , 2021 , 44, 103279	5.2	4
49	Quantification of Residential Energy Consumption Reduction Using Glass-Modified Asphalt Shingle. <i>Journal of Architectural Engineering</i> , 2015 , 21,	1.5	3
48	Sustainable Building Design: A Review on Recent Metaheuristic Methods. <i>Studies in Computational Intelligence</i> , 2015 , 203-223	0.8	3
47	Artificial Intelligence Techniques to Support Design and Construction 2019 ,		3
46	Lighting preferences in office spaces concerning the indoor thermal environment. <i>Frontiers of Architectural Research</i> , 2021 , 10, 639-651	2.3	3
45	Evaluating the different boundary conditions to simulate airflow and heat transfer in Double-Skin Facade. <i>Building Simulation</i> ,1	3.9	3
44	Investigating the thermal performance of green wall: Experimental analysis, deep learning model, and simulation studies in a humid climate. <i>Building and Environment</i> , 2021 , 205, 108201	6.5	3
43	Stochastic Optimization Model for Sustainable Water Treatment with Minimal Energy Use 2017 ,		2
42	Life Cycle Assessment of Common Materials Used for Exterior Window Shadings in Residential Buildings. <i>Procedia Engineering</i> , 2015 , 118, 794-801		2
41	Experimental Evaluation of a Newly Developed Flat Plate Integrated Solar Collector System. <i>Journal of Energy Engineering - ASCE</i> , 2013 , 139, 48-53	1.7	2
40	Simulating the Impact of Feedback on Energy Consumption and Emission Production in Commercial Buildings Using Agent-Based Approach 2015 ,		2

39	Nitrogen Oxide Reduction and Nitrate Measurements on TiO ₂ Photocatalytic Pervious Concrete Pavement 2012 ,		2
38	Improving the performance profile of energy conservation measures at the Penn State University Park Campus. <i>Engineering, Construction and Architectural Management</i> , 2017 , 24, 610-628	3.1	2
37	A Novel Forward-Backward Sweep Based Optimal DG Placement Approach in Radial Distribution Systems. <i>Studies in Systems, Decision and Control</i> , 2020 , 49-61	0.8	2
36	Binary Group Search Optimization for Distribution Network Reconfiguration. <i>Studies in Systems, Decision and Control</i> , 2020 , 103-126	0.8	2
35	CPS-Based Transactive Energy Technology for Smart Grids 2020 , 323-338		2
34	An Incentive-Based Vehicle to Grid Service in Electrical Energy Networks Considering the Effect of Battery Degradation Cost 2020 ,		2
33	A comparative study on the implementation of carbon and glass fibers wrappings to improve the compressive strength and seismic behavior of concrete. <i>Asian Journal of Civil Engineering</i> , 2020 , 21, 1389-1398	1.5	2
32	Exploring Agent-Based Modeling Approaches for Human-Centered Energy Consumption Prediction 2018 ,		2
31	New Approach in Designing a Kinetic Window Shading Using Optimization Methods. <i>Journal of Architectural Engineering</i> , 2020 , 26, 04020023	1.5	1
30	Building Envelope Thermal Mass and Its Effect on Spring and the Autumn Seasonal Transition Period. <i>Journal of Architectural Engineering</i> , 2020 , 26, 04020003	1.5	1
29	Completing the Missing Puzzle Piece of the Building Design Process: Modeling and Identifying Occupants Satisfaction Level in Commercial Buildings 2016 ,		1
28	The Relationship between Sustainability and Resilience of Food-Energy-Water Systems 2019 ,		1
27	Characterization of Nano Particles Released during Asphalt and Concrete Laboratory Activities 2012 ,		1
26	A Stochastic Transactive Energy Model for Optimal Dispatch of Integrated Low-Carbon Energy Hubs in the Incorporated Electricity and Gas Networks 2020 ,		1
25	Combined Heat and Power Stochastic Dynamic Economic Dispatch Using Particle Swarm Optimization Considering Load and Wind Power Uncertainties. <i>Studies in Systems, Decision and Control</i> , 2020 , 143-169	0.8	1
24	Role of Architectural Design in Creating Circadian-Effective Interior Settings. <i>Energies</i> , 2021 , 14, 6731	3.1	1
23	Introduction to FEW Nexus 2020 , 29-56		1
22	A screening method for lowering customer acquisition cost in small commercial building energy efficiency projects. <i>Energy Efficiency</i> , 2020 , 13, 1665-1676	3	1

21	Folded double-skin façade (DSF): in-depth evaluation of fold influence on the thermal and flow performance in naturally ventilated channels. <i>International Journal of Sustainable Energy</i> ,1-30	2.7	1
20	Determining the Role of Attentional Control among Construction Workers in Improving Safety Performance 2016 ,		1
19	Energy storage fundamentals and components 2021 , 23-39		1
18	Employing a hybrid GA-ANN method for simulating fracture toughness of RCC mixture containing waste materials. <i>Construction and Building Materials</i> , 2021 , 272, 121928	6.7	1
17	BIM Implementation in Facilities Management: An Analysis of Implementation Processes 2018 ,		1
16	Investigating the probability of designing net-zero energy buildings with consideration of electric vehicles and renewable energy. <i>Engineering, Construction and Architectural Management</i> , 2021 , ahead-of-print,	3.1	1
15	Energy Trading Possibilities in the Modern Multi-Carrier Energy Networks. <i>Power Systems</i> , 2021 , 175-214	0.4	1
14	Optimal Capacitor Placement in Distribution Systems Using a Backward-Forward Sweep Based Load Flow Method. <i>Studies in Systems, Decision and Control</i> , 2020 , 63-74	0.8	0
13	Introduction and Literature Review of the Operation of Multi-carrier Energy Networks. <i>Power Systems</i> , 2021 , 39-57	0.4	0
12	Overview of the Grid Modernization and Smart Grids. <i>Power Systems</i> , 2021 , 1-31	0.4	0
11	Data Management in Modernizing the Future Multi-Carrier Energy Networks. <i>Power Systems</i> , 2021 , 117-174	0.4	0
10	Modernizing the Energy from Customer-Side. <i>Power Systems</i> , 2021 , 33-60	0.4	0
9	Development of an Integrated Quality Function Deployment and Utility Theory Weighting System to Improve Occupants' Satisfaction. <i>Journal of Architectural Engineering</i> , 2019 , 25, 04019020	1.5	
8	Environmental analysis of health damages coming from a residential neighborhood built in 150 countries. <i>Journal of Housing and the Built Environment</i> ,1	2	
7	Application of Machine Learning for Predicting User Preferences in Optimal Scheduling of Smart Appliances. <i>Power Systems</i> , 2021 , 345-355	0.4	
6	The Necessity of a Food-Energy-Water Nexus Approach for Lake Urmia Basin Under the Risks of Climate Change and Environment Degradation 2020 , 201-227		
5	Photocatalytic Warm Mix Asphalt laboratory performance testing 2014 , 1807-1815		
4	Technical and Theoretical Analysis of the Future Energy Network Modernization from Various Aspects. <i>Power Systems</i> , 2021 , 61-116	0.4	

3 Energy vehicles as means of energy storage **2021**, 131-146

2 Mathematical Modeling and Uncertainty Management of the Modern Multi-Carrier Energy Networks. *Power Systems*, **2021**, 215-267

0.4

1 Economic dispatch of large-scale integrated heat and power systems by application of a novel harmony search approach **2021**, 279-296