Somayeh Asadi

List of Publications by Year in Descending Order

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	Charging and Discharging of Electric Vehicles in Power Systems: An Updated and Detailed Review of Methods, Control Structures, Objectives, and Optimization Methodologies. *Sustainability*, **2022**, 14, 2137	3.6	11
127	Application of Machine Learning for Predicting User Preferences in Optimal Scheduling of Smart Appliances. *Power Systems*, **2021**, 345-355	0.4	
126	Role of Architectural Design in Creating Circadian-Effective Interior Settings. *Energies*, **2021**, 14, 6731	3.1	1
125	Financial Risk-Based Scheduling of Micro grids Accompanied by Surveying the Influence of the Demand Response Program **2021**,		4
124	Investigation of the performance properties of asphalt binders and mixtures modified by Crumb Rubber and Gilsonite. *Construction and Building Materials*, **2021**, 279, 122424	6.7	8
123	Distributionally Robust Chance-Constrained Transactive Energy Framework for Coupled Electrical and Gas Microgrids. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 347-357	8.9	27
122	A Novel Operational Model for Interconnected Microgrids Participation in Transactive Energy Market: A Hybrid IGDT/Stochastic Approach. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 4025-4035	11.9	36
121	Transactive energy management for optimal scheduling of interconnected microgrids with hydrogen energy storage. *International Journal of Hydrogen Energy*, **2021**, 46, 16267-16278	6.7	22
120	On the optimization of energy efficient fenestration for small commercial buildings in the United States. *Journal of Cleaner Production*, **2021**, 283, 124604	10.3	4
119	Technical and Theoretical Analysis of the Future Energy Network Modernization from Various Aspects. *Power Systems*, **2021**, 61-116	0.4	
118	Energy vehicles as means of energy storage **2021**, 131-146		
117	Introduction and Literature Review of the Operation of Multi-carrier Energy Networks. *Power Systems*, **2021**, 39-57	0.4	0
116	Overview of the Grid Modernization and Smart Grids. *Power Systems*, **2021**, 1-31	0.4	0
115	Energy storage fundamentals and components **2021**, 23-39		1
114	Mathematical Modeling and Uncertainty Management of the Modern Multi-Carrier Energy Networks. *Power Systems*, **2021**, 215-267	0.4	
113	Data Management in Modernizing the Future Multi-Carrier Energy Networks. *Power Systems*, **2021**, 117-174	0.4	0
112	Modernizing the Energy from Customer-Side. *Power Systems*, **2021**, 33-60	0.4	0

111	Employing a hybrid GA-ANN method for simulating fracture toughness of RCC mixture containing waste materials. *Construction and Building Materials*, **2021**, 272, 121928	6.7	1
110	Chance-constrained scheduling of hybrid microgrids under transactive energy control. *International Journal of Energy Research*, **2021**, 45, 10173-10190	4.5	17
109	Lighting preferences in office spaces concerning the indoor thermal environment. *Frontiers of Architectural Research*, **2021**, 10, 639-651	2.3	3
108	Investigating the probability of designing net-zero energy buildings with consideration of electric vehicles and renewable energy. *Engineering, Construction and Architectural Management*, **2021**, ahead-of-print,	3.1	1
107	A novel fusion-based deep learning model for sentiment analysis of COVID-19 tweets. *Knowledge-Based Systems*, **2021**, 228, 107242	7.3	23
106	Investigating the thermal performance of green wall: Experimental analysis, deep learning model, and simulation studies in a humid climate. *Building and Environment*, **2021**, 205, 108201	6.5	3
105	Non-invasive physical demand assessment using wearable respiration sensor and random forest classifier. *Journal of Building Engineering*, **2021**, 44, 103279	5.2	4
104	Energy Trading Possibilities in the Modern Multi-Carrier Energy Networks. *Power Systems*, **2021**, 175-214	0.4	1
103	Economic dispatch of large-scale integrated heat and power systems by application of a novel harmony search approach **2021**, 279-296		
102	Robust scheduling of multi-chiller system with chilled-water storage under hourly electricity pricing. *Energy and Buildings*, **2020**, 218, 110058	7	12
101	Evaluating the impact of multi-carrier energy storage systems in optimal operation of integrated electricity, gas and district heating networks. *Applied Thermal Engineering*, **2020**, 176, 115413	5.8	56
100	New Approach in Designing a Kinetic Window Shading Using Optimization Methods. *Journal of Architectural Engineering*, **2020**, 26, 04020023	1.5	1
99	Chance-constrained models for transactive energy management of interconnected microgrid clusters. *Journal of Cleaner Production*, **2020**, 271, 122177	10.3	39
98	Optimal operation of multi-carrier energy networks with gas, power, heating, and water energy sources considering different energy storage technologies. *Journal of Energy Storage*, **2020**, 31, 101574	7.8	19
97	Energy choices in Alaska: Mining people's perception and attitudes from geotagged tweets. *Renewable and Sustainable Energy Reviews*, **2020**, 124, 109781	16.2	17
96	Building Envelope Thermal Mass and Its Effect on Spring and the Autumn Seasonal Transition Period. *Journal of Architectural Engineering*, **2020**, 26, 04020003	1.5	1
95	An Updated Review on Net-Zero Energy and Water Buildings: Design and Operation **2020**, 267-290		4
94	Optimal Operation of Multi-Carrier Energy Networks Considering Uncertain Parameters and Thermal Energy Storage. *Sustainability*, **2020**, 12, 5158	3.6	15

93	A solar dish Stirling engine combined humidification-dehumidification desalination cycle for cleaner production of cool, pure water, and power in hot and humid regions. *Sustainable Energy Technologies and Assessments*, **2020**, 37, 100642	4.7	14
92	Two-Stage Robust Stochastic Model Scheduling for Transactive Energy Based Renewable Microgrids. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 6857-6867	11.9	41
91	Neurophysiological testing for assessing construction workers' task performance at virtual height. *Automation in Construction*, **2020**, 113, 103143	9.6	4
90	A Stochastic Transactive Energy Model for Optimal Dispatch of Integrated Low-Carbon Energy Hubs in the Incorporated Electricity and Gas Networks **2020**,		1
89	Combined Heat and Power Stochastic Dynamic Economic Dispatch Using Particle Swarm Optimization Considering Load and Wind Power Uncertainties. *Studies in Systems, Decision and Control*, **2020**, 143-169	0.8	1
88	Energy Exchange Control in Multiple Microgrids with Transactive Energy Management. *Journal of Modern Power Systems and Clean Energy*, **2020**, 8, 719-726	4	17
87	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		
86	Introduction to FEW Nexus **2020**, 29-56		1
85	A Novel Forward-Backward Sweep Based Optimal DG Placement Approach in Radial Distribution Systems. *Studies in Systems, Decision and Control*, **2020**, 49-61	0.8	2
84	Optimal Capacitor Placement in Distribution Systems Using a Backward-Forward Sweep Based Load Flow Method. *Studies in Systems, Decision and Control*, **2020**, 63-74	0.8	0
83	Binary Group Search Optimization for Distribution Network Reconfiguration. *Studies in Systems, Decision and Control*, **2020**, 103-126	0.8	2
82	CPS-Based Transactive Energy Technology for Smart Grids **2020**, 323-338		2
81	Evaluation of hydrogen storage technology in risk-constrained stochastic scheduling of multi-carrier energy systems considering power, gas and heating network constraints. *International Journal of Hydrogen Energy*, **2020**, 45, 30129-30141	6.7	31
80	Intelligent approach for residential load scheduling. *IET Generation, Transmission and Distribution*, **2020**, 14, 4738-4745	2.5	10
79	An Incentive-Based Vehicle to Grid Service in Electrical Energy Networks Considering the Effect of Battery Degradation Cost **2020**,		2
78	Two-stage stochastic programming model for optimal scheduling of the wind-thermal-hydropower-pumped storage system considering the flexibility assessment. *Energy*, **2020**, 193, 116657	7.9	40
77	Influence of energy mix on the life cycle of an eco-neighborhood, a case study of 150 countries. *Renewable Energy*, **2020**, 162, 81-97	8.1	7
76	An updated review on multi-carrier energy systems with electricity, gas, and water energy sources. *Journal of Cleaner Production*, **2020**, 275, 123136	10.3	10

75	A comparative study on the implementation of carbon and glass fibers wrappings to improve the compressive strength and seismic behavior of concrete. *Asian Journal of Civil Engineering*, **2020**, 21, 1389-1398	1.5	2
74	A screening method for lowering customer acquisition cost in small commercial building energy efficiency projects. *Energy Efficiency*, **2020**, 13, 1665-1676	3	1
73	Economic-environmental effect of power to gas technology in coupled electricity and gas systems with price-responsive shiftable loads. *Journal of Cleaner Production*, **2020**, 244, 118769	10.3	88
72	A study of life cycle assessment in two old neighbourhoods in Belgium. *Sustainable Cities and Society*, **2020**, 52, 101744	10.1	7
71	Sustainable Energy Systems Planning, Integration, and Management. *Applied Sciences (Switzerland)*, **2019**, 9, 4451	2.6	4
70	Optimal Day-Ahead Scheduling of the Renewable Based Energy Hubs Considering Demand Side Energy Management **2019**,		12
69	A Transactive Energy Management Framework for Regional Network of Microgrids **2019**,		11
68	Building energy model calibration using automated optimization-based algorithm. *Energy and Buildings*, **2019**, 198, 106-114	7	17
67	Risk-constrained energy management of PV integrated smart energy hub in the presence of demand response program and compressed air energy storage. *IET Renewable Power Generation*, **2019**, 13, 998-1008	2.9	41
66	Large-scale combined heat and power economic dispatch using a novel multi-player harmony search method. *Applied Thermal Engineering*, **2019**, 154, 493-504	5.8	67
65	An Exploration of Synergies between Lean Concepts and BIM in FM: A Review and Directions for Future Research. *Buildings*, **2019**, 9, 147	3.2	11
64	Bi-level model for generation expansion planning with contract pricing of renewable energy in the presence of energy storage. *IET Renewable Power Generation*, **2019**, 13, 1544-1553	2.9	10
63	Investigation of thermal comfort efficacy of solar chimneys under different climates and operation time periods. *Energy and Buildings*, **2019**, 205, 109528	7	11
62	The Relationship between Sustainability and Resilience of Food-Energy-Water Systems **2019**,		1
61	Development of an Integrated Quality Function Deployment and Utility Theory Weighting System to Improve Occupants' Satisfaction. *Journal of Architectural Engineering*, **2019**, 25, 04019020	1.5	
60	Artificial Intelligence Techniques to Support Design and Construction **2019**,		3
59	Intelligent designer: A computational approach to automating design of windows in buildings. *Automation in Construction*, **2019**, 102, 160-169	9.6	10
58	Harmony search algorithm for energy system applications: an updated review and analysis. *Journal of Experimental and Theoretical Artificial Intelligence*, **2019**, 31, 723-749	2	16

57	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. *Sustainable Cities and Society*, **2019**, 44, 629-645	10.1	44
56	Influence of indoor environmental quality on the self-estimated performance of office workers in the tropical wet and hot climate of Cameroon. *Journal of Building Engineering*, **2019**, 21, 141-148	5.2	15
55	Framework for Energy-Efficient Building Envelope Design Optimization Tool. *Journal of Architectural Engineering*, **2018**, 24, 04018008	1.5	5
54	Optimal chiller loading for saving energy by exchange market algorithm. *Energy and Buildings*, **2018**, 169, 245-253	7	36
53	Single and combined phase change materials: Their effect on seasonal transition period. *Energy and Buildings*, **2018**, 169, 453-472	7	17
52	Predicting the strength of polymer-modified thin-layer asphalt with fuzzy logic. *Construction and Building Materials*, **2018**, 169, 826-834	6.7	8
51	Improved harmony search algorithm for the solution of non-linear non-convex short-term hydrothermal scheduling. *Energy*, **2018**, 151, 226-237	7.9	51
50	Towards the optimization of sustainable food-energy-water systems: A stochastic approach. *Journal of Cleaner Production*, **2018**, 171, 662-674	10.3	66
49	Quantitative modeling of interconnections associated with sustainable food, energy and water (FEW) systems. *Journal of Cleaner Production*, **2018**, 200, 86-99	10.3	15
48	Determining the Optimum Geometrical Design Parameters of Windows in Commercial Buildings: Comparison between Humid Subtropical and Humid Continental Climate Zones in the United States. *Journal of Architectural Engineering*, **2018**, 24, 04018026	1.5	5
47	Exploring Agent-Based Modeling Approaches for Human-Centered Energy Consumption Prediction **2018**,		2
46	BIM Implementation in Facilities Management: An Analysis of Implementation Processes **2018**,		1
45	Development of a new methodology to optimize building life cycle cost, environmental impacts, and occupant satisfaction. *Energy*, **2017**, 121, 606-615	7.9	57
44	Stochastic Optimization Model for Sustainable Water Treatment with Minimal Energy Use **2017**,		2
43	Thermal comfort and comparison of some parameters coming from hospitals and shopping centers under natural ventilation: The case of Madagascar Island. *Journal of Building Engineering*, **2017**, 13, 196-206	5.2	32
42	Application of Dynamic Non-Linear Programming Technique to Non-Convex Short-Term Hydrothermal Scheduling Problem. *Energies*, **2017**, 10, 1440	3.1	19
41	Improving the performance profile of energy conservation measures at the Penn State University Park Campus. *Engineering, Construction and Architectural Management*, **2017**, 24, 610-628	3.1	2
40	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. *Journal of Architectural Engineering*, **2016**, 22, 04016013	1.5	6

39	Completing the Missing Puzzle Piece of the Building Design Process: Modeling and Identifying Occupants Satisfaction Level in Commercial Buildings **2016**,		1
38	Integrating building and transportation energy use to design a comprehensive greenhouse gas mitigation strategy. *Applied Energy*, **2016**, 165, 234-243	10.7	21
37	Determining the Role of Attentional Control among Construction Workers in Improving Safety Performance **2016**,		1
36	A stochastic optimization approach to reduce greenhouse gas emissions from buildings and transportation. *Energy*, **2016**, 106, 367-377	7.9	21
35	The effect of solar chimney layout on ventilation rate in buildings. *Energy and Buildings*, **2016**, 123, 71-78	7	23
34	Environmental and economic life cycle assessment of PEX and copper plumbing systems: A case study. *Journal of Cleaner Production*, **2016**, 137, 1228-1236	10.3	18
33	A study on the thermal behavior of traditional residential buildings: Rasoulian house case study. *Journal of Building Engineering*, **2016**, 7, 334-342	5.2	13
32	Quantification of Residential Energy Consumption Reduction Using Glass-Modified Asphalt Shingle. *Journal of Architectural Engineering*, **2015**, 21,	1.5	3
31	Life cycle assessment of exterior window shadings in residential buildings in different climate zones. *Building and Environment*, **2015**, 90, 168-177	6.5	49
30	Using multiple regression analysis to develop energy consumption indicators for commercial buildings in the U.S.. *Energy and Buildings*, **2015**, 109, 209-216	7	63
29	Measuring End-User Satisfaction in the Design of Building Projects Using Eye-Tracking Technology **2015**,		4
28	Life Cycle Assessment of Common Materials Used for Exterior Window Shadings in Residential Buildings. *Procedia Engineering*, **2015**, 118, 794-801		2
27	Using Building Energy Simulation and Geospatial Analysis to Determine Building and Transportation Related Energy Use **2015**,		4
26	Supervised Intelligence Committee Machine to Evaluate Field Performance of Photocatalytic Asphalt Pavement for Ambient Air Purification. *Transportation Research Record*, **2015**, 2528, 96-105	1.7	18
25	Simulating the Impact of Feedback on Energy Consumption and Emission Production in Commercial Buildings Using Agent-Based Approach **2015**,		2
24	Feasibility Study of the Potential Use of Drill Cuttings in Concrete. *Procedia Engineering*, **2015**, 118, 1015-1023		33
23	Evaluation of Self-Healing Mechanisms in Concrete with Double-Walled Sodium Silicate Microcapsules. *Journal of Materials in Civil Engineering*, **2015**, 27, 04015035	3	63
22	Multi-linear Regression Models to Predict the Annual Energy Consumption of an Office Building with Different Shapes. *Procedia Engineering*, **2015**, 118, 622-629		31

21	Sustainable Building Design: A Review on Recent Metaheuristic Methods. *Studies in Computational Intelligence*, **2015**, 203-223	0.8	3
20	Dicyclopentadiene and Sodium Silicate Microencapsulation for Self-Healing of Concrete. *Journal of Materials in Civil Engineering*, **2014**, 26, 886-896	3	69
19	On the development of multi-linear regression analysis to assess energy consumption in the early stages of building design. *Energy and Buildings*, **2014**, 85, 246-255	7	137
18	Evaluation of the thermal performance of a roof-mounted radiant barrier in residential buildings: Experimental study. *Journal of Building Physics*, **2014**, 38, 66-80	2.6	7
17	Artificial intelligence modeling to evaluate field performance of photocatalytic asphalt pavement for ambient air purification. *Environmental Science and Pollution Research*, **2014**, 21, 8847-57	5.1	29
16	A Multiobjective Harmony-Search Algorithm for Building Life-cycle Energy Optimization **2014**,		5
15	Durability Quantification of TiO2 Surface Coating on Concrete and Asphalt Pavements. *Journal of Materials in Civil Engineering*, **2014**, 26, 331-337	3	32
14	Photocatalytic Warm Mix Asphalt laboratory performance testing **2014**, 1807-1815		
13	Experimental Evaluation of a Newly Developed Flat Plate Integrated Solar Collector System. *Journal of Energy Engineering - ASCE*, **2013**, 139, 48-53	1.7	2
12	Sustainable Photocatalytic Asphalt Pavements for Mitigation of Nitrogen Oxide and Sulfur Dioxide Vehicle Emissions. *Journal of Materials in Civil Engineering*, **2013**, 25, 365-371	3	42
11	Evaluating photocatalytic asphalt pavement effectiveness in real-world environments through developing models: a statistical and kinetic study. *Road Materials and Pavement Design*, **2013**, 14, 92-105	2.6	13
10	Performance evaluation of an attic radiant barrier system using three-dimensional transient finite element method. *Journal of Building Physics*, **2013**, 36, 247-264	2.6	14
9	Development and validation of a simple estimating tool to predict heating and cooling energy demand for attics of residential buildings. *Energy and Buildings*, **2012**, 54, 12-21	7	21
8	Laboratory Evaluation of Environmental Performance of Photocatalytic Titanium Dioxide Warm-Mix Asphalt Pavements. *Journal of Materials in Civil Engineering*, **2012**, 24, 599-605	3	30
7	Characterization of Nano Particles Released during Asphalt and Concrete Laboratory Activities **2012**,		1
6	Nitrogen Oxide Reduction and Nitrate Measurements on TiO 2 Photocatalytic Pervious Concrete Pavement **2012**,		2
5	Development of Photocatalytic Pervious Concrete Pavement for Air and Storm Water Improvements. *Transportation Research Record*, **2012**, 2290, 161-167	1.7	17
4	Environmental analysis of health damages coming from a residential neighborhood built in 150 countries. *Journal of Housing and the Built Environment*, 1		2

3	Robust stochastic optimal short-term generation scheduling of hydrothermal systems in deregulated environment. *Journal of Energy Systems*,168-179	0.8	11
2	Folded double-skin façade (DSF): in-depth evaluation of fold influence on the thermal and flow performance in naturally ventilated channels. *International Journal of Sustainable Energy*,1-30	2.7	1
1	Evaluating the different boundary conditions to simulate airflow and heat transfer in Double-Skin Facade. *Building Simulation*,1	3.9	3