Somayeh Asadi

List of Publications by Year
in descending order

145 papers	3,277 citations	126708 33 h-index	174990 52 g-index
146 all docs	146 docs citations	146 times ranked	2918 citing authors

#	Article	IF	Citations
1	Investigating the probability of designing net-zero energy buildings with consideration of electric vehicles and renewable energy. Engineering, Construction and Architectural Management, 2022, 29, 4061-4087.	1.8	5
2	Evaluating the different boundary conditions to simulate airflow and heat transfer in Double-Skin Facade. Building Simulation, 2022, 15, 799-815.	3.0	11
3	Environmental analysis of health damages coming from a residential neighborhood built in 150 countries. Journal of Housing and the Built Environment, 2022, 37, 1643-1665.	0.9	1
4	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.	1.6	50
5	Information Exchange for Supporting BIM to Robotic Construction. , 2022, , .		1
6	Sustainability in Affordable Housing: Trends and Opportunities for Connected Communities. , 2022, , .		0
7	The role of demand energy profile on the optimum layout of photovoltaic system in commercial buildings. Energy and Buildings, 2022, 271, 112320.	3.1	6
8	Distributionally Robust Chance-Constrained Transactive Energy Framework for Coupled Electrical and Gas Microgrids. IEEE Transactions on Industrial Electronics, 2021, 68, 347-357.	5.2	44
9	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.	7.2	78
10	Transactive energy management for optimal scheduling of interconnected microgrids with hydrogen energy storage. International Journal of Hydrogen Energy, 2021, 46, 16267-16278.	3.8	76
11	On the optimization of energy efficient fenestration for small commercial buildings in the United States. Journal of Cleaner Production, 2021, 283, 124604.	4.6	15
12	Technical and Theoretical Analysis of the Future Energy Network Modernization from Various Aspects. Power Systems, 2021, , 61-116.	0.3	0
13	Energy vehicles as means of energy storage. , 2021, , 131-146.		0
14	Introduction and Literature Review of the Operation of Multi-carrier Energy Networks. Power Systems, 2021, , 39-57.	0.3	4
15	Overview of the Grid Modernization and Smart Grids. Power Systems, 2021, , 1-31.	0.3	3
16	Energy storage fundamentals and components. , 2021, , 23-39.		4
17	Mathematical Modeling and Uncertainty Management of the Modern Multi-Carrier Energy Networks. Power Systems, 2021, , 215-267.	0.3	0
18	Data Management in Modernizing the Future Multi-Carrier Energy Networks. Power Systems, 2021, , 117-174.	0.3	2

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19	Modernizing the Energy from Customer-Side. Power Systems, 2021, , 33-60.	0.3	1
20	Employing a hybrid GA-ANN method for simulating fracture toughness of RCC mixture containing waste materials. Construction and Building Materials, 2021, 272, 121928.	3.2	10
21	<scp>Chance‐constrained</scp> scheduling of hybrid microgrids under transactive energy control. International Journal of Energy Research, 2021, 45, 10173-10190.	2.2	33
22	Financial Risk-Based Scheduling of Micro grids Accompanied by Surveying the Influence of the Demand Response Program. , 2021, , .		7
23	Investigation of the performance properties of asphalt binders and mixtures modified by Crumb Rubber and Gilsonite. Construction and Building Materials, 2021, 279, 122424.	3.2	24
24	Lighting preferences in office spaces concerning the indoor thermal environment. Frontiers of Architectural Research, 2021, 10, 639-651.	1.3	11
25	A novel fusion-based deep learning model for sentiment analysis of COVID-19 tweets. Knowledge-Based Systems, 2021, 228, 107242.	4.0	99
26	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.	3.0	17
27	Non-invasive physical demand assessment using wearable respiration sensor and random forest classifier. Journal of Building Engineering, 2021, 44, 103279.	1.6	12
28	Energy Trading Possibilities in the Modern Multi-Carrier Energy Networks. Power Systems, 2021, , 175-214.	0.3	1
29	Economic dispatch of large-scale integrated heat and power systems by application of a novel harmony search approach. , 2021, , 279-296.		0
30	Application of Machine Learning for Predicting User Preferences in Optimal Scheduling of Smart Appliances. Power Systems, 2021, , 345-355.	0.3	1
31	Role of Architectural Design in Creating Circadian-Effective Interior Settings. Energies, 2021, 14, 6731.	1.6	9
32	Uuncertainty-based scheduling of multi-chiller system with thermal energy storage under real-time prices. , 2021, , .		1
33	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.	4.6	119
34	A study of life cycle assessment in two old neighbourhoods in Belgium. Sustainable Cities and Society, 2020, 52, 101744.	5.1	8
35	Two-stage stochastic programming model for optimal scheduling of the wind-thermal-hydropower-pumped storage system considering the flexibility assessment. Energy, 2020, 193, 116657.	4.5	66
36	Influence of energy mix on the life cycle of an eco-neighborhood, a case study of 150 countries. Renewable Energy, 2020, 162, 81-97.	4.3	13

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37	An updated review on multi-carrier energy systems with electricity, gas, and water energy sources. Journal of Cleaner Production, 2020, 275, 123136.	4.6	27
38	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.	0.8	2
39	A screening method for lowering customer acquisition cost in small commercial building energy efficiency projects. Energy Efficiency, 2020, 13, 1665-1676.	1.3	3
40	Robust scheduling of multi-chiller system with chilled-water storage under hourly electricity pricing. Energy and Buildings, 2020, 218, 110058.	3.1	18
41	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.	3.0	79
42	New Approach in Designing a Kinetic Window Shading Using Optimization Methods. Journal of Architectural Engineering, 2020, 26, 04020023.	0.8	2
43	Chance-constrained models for transactive energy management of interconnected microgrid clusters. Journal of Cleaner Production, 2020, 271, 122177.	4.6	68
44	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.	3.9	29
45	Energy choices in Alaska: Mining people's perception and attitudes from geotagged tweets. Renewable and Sustainable Energy Reviews, 2020, 124, 109781.	8.2	40
46	Building Envelope Thermal Mass and Its Effect on Spring and the Autumn Seasonal Transition Period. Journal of Architectural Engineering, 2020, 26, .	0.8	2
47	An Updated Review on Net-Zero Energy and Water Buildings: Design and Operation. , 2020, , 267-290.		5
48	Optimal Operation of Multi-Carrier Energy Networks Considering Uncertain Parameters and Thermal Energy Storage. Sustainability, 2020, 12, 5158.	1.6	17
49	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.	1.7	19
50	Two-Stage Robust Stochastic Model Scheduling for Transactive Energy Based Renewable Microgrids. IEEE Transactions on Industrial Informatics, 2020, 16, 6857-6867.	7.2	84
51	Neurophysiological testing for assessing construction workers' task performance at virtual height. Automation in Construction, 2020, 113, 103143.	4.8	11
52	Binary Group Search Optimization for Distribution Network Reconfiguration. Studies in Systems, Decision and Control, 2020, , 103-126.	0.8	3
53	CPS-Based Transactive Energy Technology for Smart Grids. , 2020, , 323-338.		3
54	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.	3.8	55

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55	Intelligent approach for residential load scheduling. IET Generation, Transmission and Distribution, 2020, 14, 4738-4745.	1.4	22
56	An Incentive-Based Vehicle to Grid Service in Electrical Energy Networks Considering the Effect of Battery Degradation Cost. , 2020, , .		2
57	Energy Exchange Control in Multiple Microgrids with Transactive Energy Management. Journal of Modern Power Systems and Clean Energy, 2020, 8, 719-726.	3.3	44
58	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.		1
59	Introduction to FEW Nexus. , 2020, , 29-56.		1
60	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	5
61	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	1
62	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	3
63	Robust Energy Management of Integrated Power Infrastructure and Gas Networks with High Penetration of Renewable Energy Sources. , 2020, , .		2
64	A Stochastic Transactive Energy Model for Optimal Dispatch of Integrated Low-Carbon Energy Hubs in the Incorporated Electricity and Gas Networks. , 2020, , .		5
65	An Exploration of Synergies between Lean Concepts and BIM in FM: A Review and Directions for Future Research. Buildings, 2019, 9, 147.	1.4	26
66	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.	1.7	14
67	Investigation of thermal comfort efficacy of solar chimneys under different climates and operation time periods. Energy and Buildings, 2019, 205, 109528.	3.1	19
68	The Relationship between Sustainability and Resilience of Food-Energy-Water Systems. , 2019, , .		1
69	Development of an Integrated Quality Function Deployment and Utility Theory Weighting System to Improve Occupants' Satisfaction. Journal of Architectural Engineering, 2019, 25, 04019020.	0.8	0
70	Sustainable Energy Systems Planning, Integration, and Management. Applied Sciences (Switzerland), 2019, 9, 4451.	1.3	7
71	Optimal Day-Ahead Scheduling of the Renewable Based Energy Hubs Considering Demand Side Energy Management. , 2019, , .		16
72	A Transactive Energy Management Framework for Regional Network of Microgrids. , 2019, , .		17

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73	Building energy model calibration using automated optimization-based algorithm. Energy and Buildings, 2019, 198, 106-114.	3.1	22
74	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.	1.7	70
75	Large-scale combined heat and power economic dispatch using a novel multi-player harmony search method. Applied Thermal Engineering, 2019, 154, 493-504.	3.0	96
76	Intelligent designer: A computational approach to automating design of windows in buildings. Automation in Construction, 2019, 102, 160-169.	4.8	22
77	Harmony search algorithm for energy system applications: an updated review and analysis. Journal of Experimental and Theoretical Artificial Intelligence, 2019, 31, 723-749.	1.8	30
78	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.	5.1	58
79	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.	1.6	21
80	Artificial Intelligence Techniques to Support Design and Construction. , 2019, , .		11
81	Framework for Energy-Efficient Building Envelope Design Optimization Tool. Journal of Architectural Engineering, 2018, 24, .	0.8	7
82	Optimal chiller loading for saving energy by exchange market algorithm. Energy and Buildings, 2018, 169, 245-253.	3.1	46
83	Single and combined phase change materials: Their effect on seasonal transition period. Energy and Buildings, 2018, 169, 453-472.	3.1	21
84	Identifying the Optimum Aspect Ratio of Windows in Small Commercial Buildings. , 2018, , .		1
85	Predicting the strength of polymer-modified thin-layer asphalt with fuzzy logic. Construction and Building Materials, 2018, 169, 826-834.	3.2	13
86	Improved harmony search algorithm for the solution of non-linear non-convex short-term hydrothermal scheduling. Energy, 2018, 151, 226-237.	4.5	65
87	Towards the optimization of sustainable food-energy-water systems: A stochastic approach. Journal of Cleaner Production, 2018, 171, 662-674.	4.6	95
88	Exploring Agent-Based Modeling Approaches for Human-Centered Energy Consumption Prediction. , 2018, , .		4
89	BIM Implementation in Facilities Management: An Analysis of Implementation Processes. , 2018, , .		3
90	Quantitative modeling of interconnections associated with sustainable food, energy and water (FEW) systems. Journal of Cleaner Production, 2018, 200, 86-99.	4.6	19

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91	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, .	0.8	10
92	Robust stochastic optimal short-term generation scheduling of hydrothermal systems in deregulated environment. Journal of Energy Systems, 2018, 2, 168-179.	0.8	11
93	Development of a new methodology to optimize building life cycle cost, environmental impacts, and occupant satisfaction. Energy, 2017, 121, 606-615.	4.5	72
94	Stochastic Optimization Model for Sustainable Water Treatment with Minimal Energy Use. , 2017, , .		2
95	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.	1.6	44
96	Application of Dynamic Non-Linear Programming Technique to Non-Convex Short-Term Hydrothermal Scheduling Problem. Energies, 2017, 10, 1440.	1.6	24
97	Improving the performance profile of energy conservation measures at the Penn State University Park Campus. Engineering, Construction and Architectural Management, 2017, 24, 610-628.	1.8	6
98	Determining the Role of Attentional Control among Construction Workers in Improving Safety Performance. , 2016, , .		4
99	Building Energy Efficiency through Engaged Scholarship. , 2016, , .		1
100	On the Development of a Stochastic Model to Mitigate Greenhouse Gas Emissions in Building and Transportation Sectors. , 2016, , .		0
101	A stochastic optimization approach to reduce greenhouse gas emissions from buildings and transportation. Energy, 2016, 106, 367-377.	4.5	25
102	The effect of solar chimney layout on ventilation rate in buildings. Energy and Buildings, 2016, 123, 71-78.	3.1	42
103	Value and Trust Performance Metrics in Home Energy Audits. , 2016, , .		0
104	Environmental and economic life cycle assessment of PEX and copper plumbing systems: A case study. Journal of Cleaner Production, 2016, 137, 1228-1236.	4.6	23
105	A study on the thermal behavior of traditional residential buildings: Rasoulian house case study. Journal of Building Engineering, 2016, 7, 334-342.	1.6	25
106	Application of Bass Diffusion Theory to Simulate the Impact of Feedback and Word of Mouth on Occupantsâ€™ Behavior in Commercial Buildings: An Agent-Based Approach. Journal of Architectural Engineering, 2016, 22, 04016013.	0.8	7
107	A Methodology to Model Occupantsâ€™ Day Lighting Quality Satisfaction in Residential Buildings. , 2016, , .		0
108	Exploring Project Manager Motivations in the Construction Industry. , 2016, , .		0

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109	On the Performance of a Net Zero Energy House: A Case Study of the GridStar House in the Navy Yard, Philadelphia. , 2016, , .		0
110	Completing the Missing Puzzle Piece of the Building Design Process: Modeling and Identifying Occupantsâ€™ Satisfaction Level in Commercial Buildings. , 2016, , .		1
111	Integrating building and transportation energy use to design a comprehensive greenhouse gas mitigation strategy. Applied Energy, 2016, 165, 234-243.	5.1	26
112	Identifying Optimal Design of Office Buildings Using Harmony Search Optimization Algorithm. , 2016, , .		1
113	Life Cycle Assessment of Common Materials Used for Exterior Window Shadings in Residential Buildings. Procedia Engineering, 2015, 118, 794-801.	1.2	6
114	Using Building Energy Simulation and Geospatial Analysis to Determine Building and Transportation Related Energy Use. , 2015, , .		4
115	Supervised Intelligence Committee Machine to Evaluate Field Performance of Photocatalytic Asphalt Pavement for Ambient Air Purification. Transportation Research Record, 2015, 2528, 96-105.	1.0	20
116	Development of Multi-Linear Regression Model to Predict Energy Consumption in the Early Stages of Building Design. , 2015, , .		0
117	Integration of QFD and Utility Theory to Improve End-User Satisfaction in the Design of High-Performance Buildings. , 2015, , .		0
118	Simulating the Impact of Feedback on Energy Consumption and Emission Production in Commercial Buildings Using Agent-Based Approach. , 2015, , .		2
119	Parametric Analysis of Building Elements on Building Energy Use. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	3
120	Feasibility Study of the Potential Use of Drill Cuttings in Concrete. Procedia Engineering, 2015, 118, 1015-1023.	1.2	44
121	Evaluation of Self-Healing Mechanisms in Concrete with Double-Walled Sodium Silicate Microcapsules. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	100
122	Multi-linear Regression Models to Predict the Annual Energy Consumption of an Office Building with Different Shapes. Procedia Engineering, 2015, 118, 622-629.	1.2	43
123	Sustainable Building Design: A Review on Recent Metaheuristic Methods. Studies in Computational Intelligence, 2015, , 203-223.	0.7	7
124	Quantification of Residential Energy Consumption Reduction Using Glass-Modified Asphalt Shingle. Journal of Architectural Engineering, 2015, 21, .	0.8	4
125	Life cycle assessment of exterior window shadings in residential buildings in different climate zones. Building and Environment, 2015, 90, 168-177.	3.0	60
126	Using multiple regression analysis to develop energy consumption indicators for commercial buildings in the U.S.. Energy and Buildings, 2015, 109, 209-216.	3.1	87

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127	Measuring End-User Satisfaction in the Design of Building Projects Using Eye-Tracking Technology. , 2015, , .		8
128	A Multiobjective Harmony-Search Algorithm for Building Life-cycle Energy Optimization. , 2014, , .		5
129	Durability Quantification of TiO2 Surface Coating on Concrete and Asphalt Pavements. Journal of Materials in Civil Engineering, 2014, 26, 331-337.	1.3	42
130	Development of the Simple Estimating Tool to Assess the Energy Cost Savings of Attic Radiant Barrier System in Temperate Climate Regions. , 2014, , .		0
131	Dicyclopentadiene and Sodium Silicate Microencapsulation for Self-Healing of Concrete. Journal of Materials in Civil Engineering, 2014, 26, 886-896.	1.3	98
132	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.	3.1	189
133	Evaluation of the thermal performance of a roof-mounted radiant barrier in residential buildings: Experimental study. Journal of Building Physics, 2014, 38, 66-80.	1.2	7
134	Artificial intelligence modeling to evaluate field performance of photocatalytic asphalt pavement for ambient air purification. Environmental Science and Pollution Research, 2014, 21, 8847-8857.	2.7	37
135	Experimental Evaluation of a Newly Developed Flat Plate Integrated Solar Collector System. Journal of Energy Engineering - ASCE, 2013, 139, 48-53.	1.0	2
136	Sustainable Photocatalytic Asphalt Pavements for Mitigation of Nitrogen Oxide and Sulfur Dioxide Vehicle Emissions. Journal of Materials in Civil Engineering, 2013, 25, 365-371.	1.3	64
137	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.	2.0	17
138	Performance evaluation of an attic radiant barrier system using three-dimensional transient finite element method. Journal of Building Physics, 2013, 36, 247-264.	1.2	18
139	Characterization of Nano Particles Released during Asphalt and Concrete Laboratory Activities. , 2012, , .		1
140	Evaluation of the Thermal Performance of Radiant Barrier in Heating and Cooling Load Reduction of Residential Buildings. , 2012, , .		1
141	Nitrogen Oxide Reduction and Nitrate Measurements on TiO 2 Photocatalytic Pervious Concrete Pavement. , 2012, , .		2
142	Development of Photocatalytic Pervious Concrete Pavement for Air and Storm Water Improvements. Transportation Research Record, 2012, 2290, 161-167.	1.0	29
143	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.	3.1	23
144	Laboratory Evaluation of Environmental Performance of Photocatalytic Titanium Dioxide Warm-Mix Asphalt Pavements. Journal of Materials in Civil Engineering, 2012, 24, 599-605.	1.3	38

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145	Folded double-skin faÃ§ade (DSF): in-depth evaluation of fold influence on the thermal and flow performance in naturally ventilated channels. International Journal of Sustainable Energy, 0, , 1-30.	1.3	3