

# Mohammadjavad Mahdavinejad

## List of Publications by Year in Descending Order

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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.

79 papers	632 citations	13 h-index	20 g-index
83 ext. papers	835 ext. citations	2.6 avg, IF	4.76 L-index

#	Paper	IF	Citations
79	Architectural layout design through deep learning and agent-based modeling: A hybrid approach. <i>Journal of Building Engineering</i> , <b>2022</b> , 47, 103822	5.2	5
78	Learning from plants: a new framework to approach water-harvesting design concepts. <i>International Journal of Building Pathology and Adaptation</i> , <b>2021</b> , ahead-of-print,	1.6	2
77	The Impact Assessment of Climate Change on Building Energy Consumption in Poland. <i>Energies</i> , <b>2021</b> , 14, 4084	3.1	11
76	A dynamic vertical shading optimisation to improve view, visual comfort and operational energy. <i>Open House International</i> , <b>2021</b> , ahead-of-print,	0.4	5
75	Influence of permeability ratio on wind-driven ventilation and cooling load of mid-rise buildings. <i>Sustainable Cities and Society</i> , <b>2021</b> , 70, 102894	10.1	3
74	Bioinspired Azimuthally Varying Nanoscale Cu Columns on Acupuncture Needles for Fog Collection. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8733-8743	5.6	5
73	Multi-objective optimization of building-integrated microalgae photobioreactors for energy and daylighting performance. <i>Journal of Building Engineering</i> , <b>2021</b> , 42, 102832	5.2	6
72	Improving the suitability of selected thermal indices for predicting outdoor thermal sensation in Tehran. <i>Sustainable Cities and Society</i> , <b>2021</b> , 74, 103205	10.1	3
71	Efficient Shading Device as an Important Part of Daylightophil Architecture; a Designerly Framework of High-Performance Architecture for an Office Building in Tehran. <i>Energies</i> , <b>2021</b> , 14, 8272	3.1	1
70	Leaf venation patterns as a model for bioinspired fog harvesting. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 603, 125170	5.1	8
69	Lighting Branding:. <i>International Review for Spatial Planning and Sustainable Development</i> , <b>2020</b> , 8, 137-159		3
68	A Novel Approach to Multi-Apertures and Multi-Aspects Ratio Light Pipe. <i>Journal of Daylighting</i> , <b>2020</b> , 7, 186-200	1.6	5
67	Thermal and energy performance of algae bioreactive faades: A review. <i>Journal of Building Engineering</i> , <b>2020</b> , 28, 101011	5.2	17
66	Significance of authenticity: learning from best practice of adaptive reuse in the industrial heritage of Iran. <i>International Journal of Architectural Heritage</i> , <b>2020</b> , 14, 329-344	2.1	10
65	Viewerphilic nightscape based on correlated color temperature. <i>Color Research and Application</i> , <b>2020</b> , 45, 120-128	1.3	1
64	Multi-objective optimisation framework for designing office windows: quality of view, daylight and energy efficiency. <i>Applied Energy</i> , <b>2020</b> , 261, 114356	10.7	53
63	Thermal comfort prediction by applying supervised machine learning in green sidewalks of Tehran. <i>Smart and Sustainable Built Environment</i> , <b>2020</b> , 9, 361-374	3	9

62	A novel design-based optimization framework for enhancing the energy efficiency of high-rise office buildings in urban areas. <i>Sustainable Cities and Society</i> , <b>2019</b> , 49, 101597	10.1	27
61	Probable cause of damage to the panel of microalgae bioreactor building façade: Hypothetical evaluation. <i>Engineering Failure Analysis</i> , <b>2019</b> , 101, 9-21	3.2	4
60	Generating Synthetic Space Allocation Probability Layouts Based on Trained Conditional-GANs. <i>Applied Artificial Intelligence</i> , <b>2019</b> , 33, 689-705	2.3	8
59	DATA MINING AND CONTENT ANALYSIS OF THE JURY CITATIONS OF THE PRITZKER ARCHITECTURE PRIZE (1977-2017). <i>Journal of Architecture and Urbanism</i> , <b>2019</b> , 43, 71-90	0.2	3
58	Effects of windward and leeward wind directions on outdoor thermal and wind sensation in Tehran. <i>Building and Environment</i> , <b>2019</b> , 150, 164-180	6.5	10
57	Seasonal differences of subjective thermal sensation and neutral temperature in an outdoor shaded space in Tehran, Iran. <i>Sustainable Cities and Society</i> , <b>2018</b> , 39, 751-764	10.1	40
56	The Impact of Iwan as a Traditional Shading Device on the Building Energy Consumption. <i>Buildings</i> , <b>2018</b> , 8, 3	3.2	0
55	Bioware fog collectors: the Texas horned lizard as a model for a biomimetic fog-harvesting. <i>Materials Research Express</i> , <b>2018</b> , 5, 115502	1.7	9
54	A study on terraced apartments and their natural ventilation performance in hot and humid regions. <i>Building Simulation</i> , <b>2018</b> , 11, 359-372	3.9	9
53	Impacts of urban morphology on reducing cooling load and increasing ventilation potential in hot-arid climate. <i>Applied Energy</i> , <b>2018</b> , 231, 714-746	10.7	61
52	Multi Objective Computing and Applying Expert System in Double Skin Façade system <b>2018</b> ,		3
51	An ENVI-met Simulation Study on Influence of Urban Vegetation Congestion on Pollution Dispersion. <i>Asian Journal of Water, Environment and Pollution</i> , <b>2018</b> , 15, 187-194	0.7	4
50	Integrated Model for Shading and Airflow Window in BSk. <i>Energy Procedia</i> , <b>2017</b> , 122, 571-576	2.3	2
49	Daylightophil High-Performance Architecture: Multi-Objective Optimization of Energy Efficiency and Daylight Availability in BSk Climate. <i>Energy Procedia</i> , <b>2017</b> , 115, 92-101	2.3	4
48	A Review on Interaction of Innovative Building Envelope Technologies and Solar Energy Gain. <i>Energy Procedia</i> , <b>2017</b> , 141, 24-28	2.3	11
47	Contribution of City Prosperity to Decisions on Healthy Building Design: A case study of Tehran. <i>Frontiers of Architectural Research</i> , <b>2016</b> , 5, 319-331	2.3	14
46	Impact of roof shape on air pressure, wind flow and indoor temperature of residential buildings. <i>International Journal of Sustainable Building Technology and Urban Development</i> , <b>2016</b> , 7, 87-103		5
45	Girih for Domes: Analysis of Three Iranian Domes. <i>Nexus Network Journal</i> , <b>2016</b> , 18, 311-321	0.3	5

44	Sustainability assessment, rating systems and historical buildings Case study: Rehabilitated construction in a university site. <i>MATEC Web of Conferences</i> , <b>2016</b> , 66, 00069	0.3	0
43	Optimisation of building shape and orientation for better energy efficient architecture. <i>International Journal of Energy Sector Management</i> , <b>2015</b> , 9, 593-618	2.5	36
42	The Emergence of Nature in Contemporary Iranian Architecture. <i>Current World Environment Journal</i> , <b>2015</b> , 10, 144-156	0.7	
41	Dilemma of green and pseudo green architecture based on LEED norms in case of developing countries. <i>International Journal of Sustainable Built Environment</i> , <b>2014</b> , 3, 235-246		24
40	The Impacts of Formalistic Approach in Architectural Design Process on Quality of Students' Learning, Case: Design Studio II, IV. <i>Procedia, Social and Behavioral Sciences</i> , <b>2014</b> , 136, 271-277		0
39	DEVELOPING A NEW PARADIGM FOR PERFORMANCE OF EDUCATING CITY THEORY IN ADVANCED TECHNOLOGY MEGA-CITIES, CASE: TEHRAN, IRAN. <i>Journal of Architecture and Urbanism</i> , <b>2014</b> , 38, 130-141	0.2	8
38	Contemporizing Valuable Urban Districts Regarding to Educating Environment Paradigms, Case: Yazd, Iran. <i>Procedia, Social and Behavioral Sciences</i> , <b>2014</b> , 116, 4406-4410		
37	Role of bazaars as a unifying factor in traditional cities of Iran: The Isfahan bazaar. <i>Frontiers of Architectural Research</i> , <b>2014</b> , 3, 10-19	2.3	17
36	Nature-oriented Architectural Learning in Contemporary Educating Environment Paradigms. <i>Procedia, Social and Behavioral Sciences</i> , <b>2014</b> , 131, 432-435		1
35	Contemporary Architectural Schools and Efficiency of Learning Systems in Educating Environments Paradigm. <i>Procedia, Social and Behavioral Sciences</i> , <b>2014</b> , 131, 436-441		
34	Natural ventilation performance of ancient wind catchers, an experimental and analytical study - case studies: one-sided, two-sided and four-sided wind catchers. <i>International Journal of Energy Technology and Policy</i> , <b>2014</b> , 10, 36	1	14
33	Natural Energy Efficient Materials for Rock Cut Architecture in Case of Kandovan, Iran. <i>Advanced Materials Research</i> , <b>2014</b> , 935, 202-206	0.5	2
32	Recombinant Materials and Contemporary Energy Efficient Architecture. <i>Advanced Materials Research</i> , <b>2014</b> , 936, 1423-1427	0.5	3
31	Aesthetics and Architectural Education and Learning Process. <i>Procedia, Social and Behavioral Sciences</i> , <b>2014</b> , 116, 4443-4448		3
30	Proposing a More Efficient Model to Enhance Natural Ventilation in Residential Buildings. <i>Environment and Ecology Research</i> , <b>2014</b> , 2, 194-205	1	2
29	Commercialization Strategies for Industrial Applications of Nanomaterials in Building Construction. <i>Advanced Materials Research</i> , <b>2013</b> , 829, 879-883	0.5	7
28	Protection of High-Tech Buildings Facades and Envelopes with One Sided Nano-Coatings. <i>Advanced Materials Research</i> , <b>2013</b> , 829, 857-861	0.5	4
27	Challenges Regarding to Usage of Nanostructured Materials in Contemporary Building Construction. <i>Advanced Materials Research</i> , <b>2013</b> , 829, 426-430	0.5	6

26	Investigating condensation role in defects and moisture problems in historic buildings. Case study. <i>World Journal of Science Technology and Sustainable Development</i> , <b>2013</b> , 10, 308-324	1.3	5
25	Mechanism of Manufacturing and Adoption of Nanomaterials in Contemporary Architectural Project of Developing Countries. <i>Advanced Materials Research</i> , <b>2013</b> , 748, 1150-1154	0.5	2
24	Architectural Design Criteria of Socio-Behavioral Approach toward Healthy Model. <i>Procedia, Social and Behavioral Sciences</i> , <b>2012</b> , 35, 475-482		9
23	Proposing a Flexible Approach to Architectural Design as a Tool for Achievement Eco-Friendly Multi-Purpose Buildings. <i>Advanced Materials Research</i> , <b>2012</b> , 622-623, 1856-1859	0.5	5
22	The Role of Form Compositions in Energy Consumption of High-Rise Buildings (Case Study: Iran, Tehran). <i>Advanced Materials Research</i> , <b>2012</b> , 488-489, 175-181	0.5	4
21	Usage of Indigenous Architectural Patterns for Manufacturing Industrial Housing, Case: Renovation Project of Odlajan of Tehran, Iran. <i>Advanced Materials Research</i> , <b>2012</b> , 548, 875-879	0.5	7
20	Development of Intelligent Pattern for Modeling a Parametric Program for Public Space (Case Study: Isfahan, Mosalla, Iran). <i>Applied Mechanics and Materials</i> , <b>2012</b> , 220-223, 2930-2935	0.3	9
19	Architectural Application of Smart Materials for Non-Flexible Structures Made by Flexible Formworks. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 232, 132-136	0.3	2
18	Enhancement HSE Factors in Pedestrian Underpass regarding to Chemical Hazards, Mashhad, Iran. <i>Procedia, Social and Behavioral Sciences</i> , <b>2012</b> , 51, 10-14		4
17	Designing Communal Spaces in Residential Complexes. <i>Procedia, Social and Behavioral Sciences</i> , <b>2012</b> , 51, 333-339		6
16	Formal Architectural Education and Training Professional Technicians (case study: Iran). <i>Procedia, Social and Behavioral Sciences</i> , <b>2012</b> , 51, 454-458		5
15	The Role of Site Analysis in Creativity of Students of Bachelor of Architecture, Case: Design Studio III. <i>Procedia, Social and Behavioral Sciences</i> , <b>2012</b> , 51, 1000-1004		4
14	Socio-cultural Approach to Create an Educative City Case: Tehran-Iran. <i>Procedia, Social and Behavioral Sciences</i> , <b>2012</b> , 51, 943-947		4
13	The Role of Vernacular Architecture in Design of Green Sidewalk (Case Study: Iran, Shushtar). <i>Applied Mechanics and Materials</i> , <b>2012</b> , 260-261, 65-68	0.3	1
12	Utilization of Wind Power as a Renewable Energy in Asbads, Case of Iran, Sistan. <i>Advanced Materials Research</i> , <b>2012</b> , 433-440, 1141-1145	0.5	2
11	Role of LSF Technology in Economic Housing for Urban Sustainability, Case of Iran. <i>Procedia Engineering</i> , <b>2011</b> , 21, 2-7		5
10	Community-Oriented Landscape Design for Sustainability in Architecture and Planning. <i>Procedia Engineering</i> , <b>2011</b> , 21, 337-344		19
9	Public Participation for Sustainable Urban Planning in Case of Iran. <i>Procedia Engineering</i> , <b>2011</b> , 21, 405-413		18

8	Design an Optimum Pattern of Orientation in Residential Complexes by Analyzing the Level of Energy Consumption (Case Study: Maskan Mehr Complexes, Tehran, Iran). <i>Procedia Engineering</i> , <b>2011</b> , 21, 1179-1187		13
7	Application of Combined-Scale Smart Structures as a Necessity for Multifunctional Spaces. <i>Advanced Materials Research</i> , <b>2011</b> , 403-408, 4132-4136	0.5	
6	Horizontal Distribution of Illuminance with Reference to Window Wall Ratio (WWR) in Office Buildings in Hot and Dry Climate, Case of Iran, Tehran. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 110-116, 72-76	0.3	8
5	Modeling of LSF Technology in Building Design and Construction Case-Study: Parand Residential Complex, Iran. <i>Advanced Materials Research</i> , <b>2011</b> , 341-342, 447-451	0.5	1
4	Designery optimization of devices (as reflectors) to improve daylight and scrutiny of the light-well configuration. <i>Building Simulation</i> ,1	3.9	1
3	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
2	Evaluating the different boundary conditions to simulate airflow and heat transfer in Double-Skin Facade. <i>Building Simulation</i> ,1	3.9	3
1	Investigation of displacement ventilation performance under various room configurations using computational fluid dynamics simulation. <i>Building Services Engineering Research and Technology</i> ,014362442210973	2.3	8