Nahid Mohajeri

List of Publications by Year
in descending order

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47 papers	2,084 citations	394421 19 h-index	243625 44 g-index
49 all docs	49 docs citations	49 times ranked	1538 citing authors

#	Article	IF	Citations
1	The 2021 report of the Lancet Countdown on health and climate change: code red for a healthy future. Lancet, The, 2021, 398, 1619-1662.	13.7	669
2	Quantifying rooftop photovoltaic solar energy potential: A machine learning approach. Solar Energy, 2017, 141, 278-296.	6.1	163
3	Effects of urban compactness on solar energy potential. Renewable Energy, 2016, 93, 469-482.	8.9	156
4	Large-scale rooftop solar photovoltaic technical potential estimation using Random Forests. Applied Energy, 2018, 217, 189-211.	10.1	109
5	Big data mining for the estimation of hourly rooftop photovoltaic potential and its uncertainty. Applied Energy, 2020, 262, 114404.	10.1	92
6	Railway station site selection using analytical hierarchy process and data envelopment analysis. Computers and Industrial Engineering, 2010, 59, 107-114.	6.3	86
7	Dike emplacement at Bardarbunga, Iceland, induces unusual stress changes, caldera deformation, and earthquakes. Bulletin of Volcanology, 2014, 76, 1.	3.0	86
8	A city-scale roof shape classification using machine learning for solar energy applications. Renewable Energy, 2018, 121, 81-93.	8.9	76
9	Entropy and order in urban street networks. Scientific Reports, 2013, 3, 3324.	3.3	63
10	Improving the energy sustainability of a Swiss village through building renovation and renewable energy integration. Energy and Buildings, 2018, 158, 906-923.	6.7	58
11	A solar-based sustainable urban design: The effects of city-scale street-canyon geometry on solar access in Geneva, Switzerland. Applied Energy, 2019, 240, 173-190.	10.1	49
12	CO2 emissions in relation to street-network configuration and city size. Transportation Research, Part D: Transport and Environment, 2015, 35, 116-129.	6.8	42
13	The Evolution and Complexity of Urban Street Networks. Geographical Analysis, 2014, 46, 345-367.	3.5	39
14	Entropies and Scaling Exponents of Street and Fracture Networks. Entropy, 2012, 14, 800-833.	2.2	34
15	Quantifying the technical geothermal potential from shallow borehole heat exchangers at regional scale. Renewable Energy, 2021, 165, 369-380.	8.9	33
16	Integrating urban form and distributed energy systems: Assessment of sustainable development scenarios for a Swiss village to 2050. Renewable Energy, 2019, 143, 810-826.	8.9	32
17	Shallow geothermal energy potential for heating and cooling of buildings with regeneration under climate change scenarios. Energy, 2022, 244, 123086.	8.8	30
18	A machine learning approach for mapping the very shallow theoretical geothermal potential. Geothermal Energy, 2019, 7, .	1.9	27

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19	Evolution and entropy in the organization of urban street patterns. Annals of GIS, 2013, 19, 1-16.	3.1	26
20	Entropy Measures of Street-Network Dispersion: Analysis of Coastal Cities in Brazil and Britain. Entropy, 2013, 15, 3340-3360.	2.2	20
21	Impact of the COVID-19 pandemic on the energy performance of residential neighborhoods and their occupancy behavior. Sustainable Cities and Society, 2022, 82, 103896.	10.4	19
22	Effects of landscape constraints on street patterns in cities: Examples from Khorramabad, Iran. Applied Geography, 2012, 34, 10-20.	3.7	15
23	Relations between the scaling exponents, entropies, and energies of fracture networks. Bulletin - Societie Geologique De France, 2013, 184, 373-382.	2.2	14
24	Correspondence Analysis: A New Method for Analyzing Qualitative Data in Architecture. Nexus Network Journal, 2012, 14, 517-538.	0.7	12
25	Street networks in relation to landforms: Implications for fast-growing cities. Journal of Chinese Geography, 2014, 24, 363-381.	3.9	12
26	Statistical-thermodynamics modelling of the built environment in relation to urban ecology. Ecological Modelling, 2015, 307, 32-47.	2.5	11
27	Spatio-temporal estimation of wind speed and wind power using extreme learning machines: predictions, uncertainty and technical potential. Stochastic Environmental Research and Risk Assessment, 2022, 36, 2049-2069.	4.0	11
28	Estimation of Large-Scale Solar Rooftop PV Potential for Smart Grid Integration: A Methodological Review. Studies in Systems, Decision and Control, 2018, , 173-219.	1.0	10
29	City Shape and the Fractality of Street Patterns. Quaestiones Geographicae, 2012, 31, 29-37.	0.6	9
30	Spatio-temporal modelling and uncertainty estimation of hourly global solar irradiance using Extreme Learning Machines. Energy Procedia, 2019, 158, 6378-6383.	1.8	9
31	A tool for assessing the climate change mitigation and health impacts of environmental policies: the Cities Rapid Assessment Framework for Transformation (CRAFT). Wellcome Open Research, 2020, 5, 269.	1.8	9
32	Covid-19 mobility restrictions: impacts on urban air quality and health. Buildings and Cities, 2021, 2, 759.	2.3	9
33	A tool for assessing the climate change mitigation and health impacts of environmental policies: the Cities Rapid Assessment Framework for Transformation (CRAFT). Wellcome Open Research, 2020, 5, 269.	1.8	8
34	Building rooftop classification using random forests for large-scale PV deployment. , 2017, , .		7
35	Extending building integrated photovoltaics (BiPV) using distributed energy hubs. A case study in Cartigny, Switzerland. Energy Procedia, 2017, 122, 487-492.	1.8	6
36	Relationship-building around a policy decision-support tool for urban health. Buildings and Cities, 2021, 2, 717.	2.3	5

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37	A critical comparison of methods to estimate solar rooftop photovoltaic potential in Switzerland. Journal of Physics: Conference Series, 2019, 1343, 012035.	0.4	5
38	Effects of city size on the large-scale decentralised solar energy potential. Energy Procedia, 2017, 122, 697-702.	1.8	4
39	Machine learning and geographic information systems for large-scale wind energy potential estimation in rural areas. Journal of Physics: Conference Series, 2019, 1343, 012036.	0.4	4
40	The CUSSH programme: supporting citiesâ€™ transformational change towards health and sustainability. Wellcome Open Research, 0, 6, 100.	1.8	4
41	The CUSSH programme: learning how to support citiesâ€™ transformational change towards health and sustainability. Wellcome Open Research, 2021, 6, 100.	1.8	3
42	Quantifying the Differences in Geometry and Size Distributions of Buildings Within Cities. Nexus Network Journal, 2014, 16, 417-436.	0.7	2
43	Achieving energy sustainability in future neighborhoods through building refurbishment and energy hub concept: a case study in Hemberg-Switzerland. Energy Procedia, 2017, 122, 265-270.	1.8	2
44	Quantitative Analysis of Structural Changes during Rapid Urban Growth: Case Study of Kerman, Iran. Journal of the Urban Planning and Development Division, ASCE, 2015, 141, 05014014.	1.7	1
45	Combining Fourier Analysis and Machine Learning to Estimate the Shallow-Ground Thermal Diffusivity in Switzerland. , 2018, , .		1
46	Urban greening archetypes at the European scale. Journal of Physics: Conference Series, 2019, 1343, 012024.	0.4	1
47	Using Machine Learning to estimate the technical potential of shallow ground-source heat pumps with thermal interference. Journal of Physics: Conference Series, 2021, 2042, 012010.	0.4	1