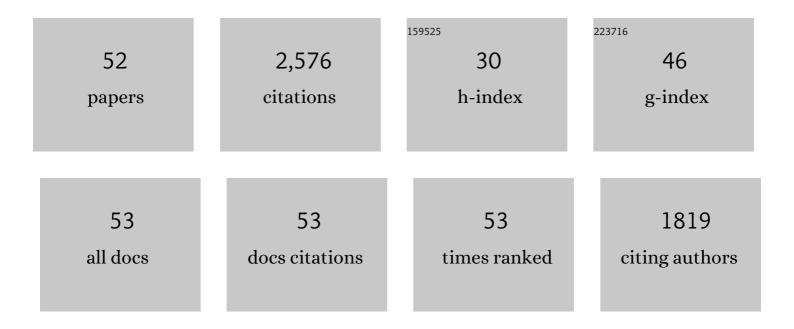
Vahid M Nik

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	High-resolution impact assessment of climate change on building energy performance considering extreme weather events and microclimate – Investigating variations in indoor thermal comfort and degree-days. Sustainable Cities and Society, 2022, 78, 103634.	5.1	39
2	Climate Change and Renewable Energy Generation in Europe—Long-Term Impact Assessment on Solar and Wind Energy Using High-Resolution Future Climate Data and Considering Climate Uncertainties. Energies, 2022, 15, 302.	1.6	29
3	Combining computational fluid dynamics and neural networks to characterize microclimate extremes: Learning the complex interactions between meso-climate and urban morphology. Science of the Total Environment, 2022, 829, 154223.	3.9	16
4	Towards climate resilient urban energy systems: a review. National Science Review, 2021, 8, nwaa134.	4.6	45
5	Using collective intelligence to enhance demand flexibility and climate resilience in urban areas. Applied Energy, 2021, 281, 116106.	5.1	27
6	Towards realization of an Energy Internet: Designing distributed energy systems using game-theoretic approach. Applied Energy, 2021, 283, 116349.	5.1	27
7	Climate resilient interconnected infrastructure: Co-optimization of energy systems and urban morphology. Applied Energy, 2021, 285, 116430.	5.1	60
8	Climate change and energy performance of European residential building stocks – A comprehensive impact assessment using climate big data from the coordinated regional climate downscaling experiment. Applied Energy, 2021, 298, 117246.	5.1	57
9	Assessing the climate change adaptation over four European cities. Journal of Physics: Conference Series, 2021, 2069, 012069.	0.3	0
10	Empowering energy flexibility and climate resilience using collective intelligence based demand side management (CI-DSM). Journal of Physics: Conference Series, 2021, 2069, 012149.	0.3	1
11	Interactions between extreme climate and urban morphology: Investigating the evolution of extreme wind speeds from mesoscale to microscale. Urban Climate, 2020, 31, 100544.	2.4	38
12	The Importance of Developing Climate-Resilient Pathways for Energy Transition and Climate Change Adaptation. One Earth, 2020, 3, 423-424.	3.6	7
13	Impact assessment of climate change on the energy performance of the building stocks in four European cities. E3S Web of Conferences, 2020, 172, 02008.	0.2	2
14	Quantifying the impacts of climate change and extreme climate events on energy systems. Nature Energy, 2020, 5, 150-159.	19.8	309
15	Introducing reinforcement learning to the energy system design process. Applied Energy, 2020, 262, 114580.	5.1	48
16	Optimization of building form and its fenestration in response to microclimate conditions of an urban area. E3S Web of Conferences, 2020, 172, 19002.	0.2	3
17	Future Climate Resilience Through Informed Decision Making in Retrofitting Projects. Lecture Notes in Computer Science, 2020, , 352-364.	1.0	1
18	Redefining energy system flexibility for distributed energy system design. Applied Energy, 2019, 253, 113572.	5.1	68

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#	Article	IF	CITATIONS
19	Towards climate robust buildings: An innovative method for designing buildings with robust energy performance under climate change. Energy and Buildings, 2019, 202, 109378.	3.1	34
20	Impacts of extreme climate conditions due to climate change on the energy system design and operation. Energy Procedia, 2019, 159, 358-363.	1.8	8
21	Impacts of Microclimate Conditions on the Energy Performance of Buildings in Urban Areas. Buildings, 2019, 9, 189.	1.4	43
22	A review of assessment methods for the urban environment and its energy sustainability to guarantee climate adaptation of future cities. Renewable and Sustainable Energy Reviews, 2019, 112, 733-746.	8.2	128
23	A novel design-based optimization framework for enhancing the energy efficiency of high-rise office buildings in urban areas. Sustainable Cities and Society, 2019, 49, 101597.	5.1	45
24	Economic feasibility of building retrofitting mitigation potentials: Climate change uncertainties for Swedish cities. Applied Energy, 2019, 242, 1022-1035.	5.1	38
25	Machine learning methods to assist energy system optimization. Applied Energy, 2019, 243, 191-205.	5.1	59
26	Impacts of future weather data typology on building energy performance – Investigating long-term patterns of climate change and extreme weather conditions. Applied Energy, 2019, 238, 696-720.	5.1	184
27	Linking Neighborhoods into Sustainable Energy Systems. Energy, Environment, and Sustainability, 2019, , 93-110.	0.6	1
28	Assessing the Potential of Energy Retrofitting and Renewables in the Campus of Lund University. Springer Proceedings in Energy, 2019, , 519-529.	0.2	0
29	Integrating Renewable Energy Technologies into Distributed Energy Systems Maintaining System Flexibility. , 2018, , .		6
30	Simulations of Moisture Gradients in Wood Subjected to Changes in Relative Humidity and Temperature Due to Climate Change. Geosciences (Switzerland), 2018, 8, 378.	1.0	27
31	Impacts of urban morphology on reducing cooling load and increasing ventilation potential in hot-arid climate. Applied Energy, 2018, 231, 714-746.	5.1	112
32	A New Framework to Evaluate Urban Design Using Urban Microclimatic Modeling in Future Climatic Conditions. Sustainability, 2018, 10, 1134.	1.6	41
33	Passive design optimization of newly-built residential buildings in Shanghai for improving indoor thermal comfort while reducing building energy demand. Energy and Buildings, 2018, 169, 484-506.	3.1	197
34	Electrical hubs: An effective way to integrate non-dispatchable renewable energy sources with minimum impact to the grid. Applied Energy, 2017, 190, 232-248.	5.1	110
35	Using Typical and Extreme Weather Files for Impact Assessment of Climate Change on Buildings. Energy Procedia, 2017, 132, 616-621.	1.8	13
36	Optimum design of distributed energy hubs using hybrid surrogate models (HSM). Energy Procedia, 2017, 122, 187-192.	1.8	3

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#	Article	IF	CITATIONS
37	Investigating the importance of future climate typology on estimating the energy performance of buildings in the EPFL campus. Energy Procedia, 2017, 122, 1087-1092.	1.8	12
38	Application of typical and extreme weather data sets in the hygrothermal simulation of building components for future climate – A case study for a wooden frame wall. Energy and Buildings, 2017, 154, 30-45.	3.1	50
39	An integrated approach to design site specific distributed electrical hubs combining optimization, multi-criterion assessment and decision making. Energy, 2017, 134, 103-120.	4.5	56
40	Making energy simulation easier for future climate – Synthesizing typical and extreme weather data sets out of regional climate models (RCMs). Applied Energy, 2016, 177, 204-226.	5.1	123
41	Sensitivity of the dispatch strategy in designing grid integrated hybrid energy systems. , 2016, , .		2
42	Effective and robust energy retrofitting measures for future climatic conditions—Reduced heating demand of Swedish households. Energy and Buildings, 2016, 121, 176-187.	3.1	60
43	Optimum design and control of grid integrated electrical hubs considering lifecycle cost and emission. , 2016, , .		12
44	Design Optimization of Electrical Hubs Using Hybrid Evolutionary Algorithm. , 2016, , .		2
45	Assessing the Efficiency and Robustness of the Retrofitted Building Envelope Against Climate change. Energy Procedia, 2015, 78, 955-960.	1.8	17
46	Straw bale: A Waste from Agriculture, a New Construction Material for Sustainable Buildings. Energy Procedia, 2015, 78, 297-302.	1.8	31
47	Climate responsive strategies of traditional dwellings located in an ancient village in hot summer and cold winter region of China. Building and Environment, 2015, 86, 151-165.	3.0	83
48	A statistical method for assessing retrofitting measures of buildings and ranking their robustness against climate change. Energy and Buildings, 2015, 88, 262-275.	3.1	41
49	Future moisture loads for building facades in Sweden: Climate change and wind-driven rain. Building and Environment, 2015, 93, 362-375.	3.0	54
50	Impact study of the climate change on the energy performance of the building stock in Stockholm considering four climate uncertainties. Building and Environment, 2013, 60, 291-304.	3.0	116
51	Statistical methods for assessing and analysing the building performance in respect to the future climate. Building and Environment, 2012, 53, 107-118.	3.0	33
52	Assessment of hygrothermal performance and mould growth risk in ventilated attics in respect to possible climate changes in Sweden. Building and Environment, 2012, 55, 96-109.	3.0	58