

# Kasra Mohammadi

## List of Publications by Year in descending order

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82  
papers

4,245  
citations

87888

38  
h-index

118850

62  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3410  
citing authors

#	ARTICLE	IF	CITATIONS
1	A support vector machineâ€“firefly algorithm-based model for global solar radiation prediction. <i>Solar Energy</i> , 2015, 115, 632-644.	6.1	295
2	Assessing different parameters estimation methods of Weibull distribution to compute wind power density. <i>Energy Conversion and Management</i> , 2016, 108, 322-335.	9.2	229
3	A new hybrid support vector machineâ€“wavelet transform approach for estimation of horizontal global solar radiation. <i>Energy Conversion and Management</i> , 2015, 92, 162-171.	9.2	227
4	Support vector regression based prediction of global solar radiation on a horizontal surface. <i>Energy Conversion and Management</i> , 2015, 91, 433-441.	9.2	173
5	An analysis of wind energy potential and economic evaluation in Zahedan, Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 30, 641-650.	16.4	147
6	A comparative evaluation for identifying the suitability of extreme learning machine to predict horizontal global solar radiation. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1031-1042.	16.4	112
7	Using different methods for comprehensive study of wind turbine utilization in Zarrineh, Iran. <i>Energy Conversion and Management</i> , 2013, 65, 463-470.	9.2	109
8	Daily global solar radiation prediction from air temperatures using kernel extreme learning machine: A case study for Iran. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 134, 109-117.	1.6	104
9	Potential of adaptive neuro-fuzzy system for prediction of daily global solar radiation by day of the year. <i>Energy Conversion and Management</i> , 2015, 93, 406-413.	9.2	103
10	Evaluating the suitability of wind speed probability distribution models: A case of study of east and southeast parts of Iran. <i>Energy Conversion and Management</i> , 2016, 119, 101-108.	9.2	103
11	Extreme learning machine based prediction of daily dew point temperature. <i>Computers and Electronics in Agriculture</i> , 2015, 117, 214-225.	7.7	102
12	Estimating the diffuse solar radiation using a coupled support vector machineâ€“wavelet transform model. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 428-435.	16.4	94
13	Using self-adaptive evolutionary algorithm to improve the performance of an extreme learning machine for estimating soil temperature. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 150-160.	7.7	89
14	Evaluating the wind energy potential for hydrogen production: A case study. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6200-6210.	7.1	89
15	Hybrid concentrated solar power (CSP)-desalination systems: A review. <i>Desalination</i> , 2019, 468, 114083.	8.2	83
16	Use of Birnbaum-Saunders distribution for estimating wind speed and wind power probability distributions: A review. <i>Energy Conversion and Management</i> , 2017, 143, 109-122.	9.2	80
17	Identifying the most significant input parameters for predicting global solar radiation using an ANFIS selection procedure. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 423-434.	16.4	75
18	Dynamic simulation and techno-economic analysis of a concentrated solar power (CSP) plant hybridized with both thermal energy storage and natural gas. <i>Journal of Cleaner Production</i> , 2020, 248, 119193.	9.3	74

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19	Economic feasibility of developing wind turbines in Aligoodarz, Iran. <i>Energy Conversion and Management</i> , 2013, 76, 645-653.	9.2	73
20	Predicting the wind power density based upon extreme learning machine. <i>Energy</i> , 2015, 86, 232-239.	8.8	73
21	A review of unconventional bottoming cycles for waste heat recovery: Part II " Applications. <i>Energy Conversion and Management</i> , 2019, 180, 559-583.	9.2	65
22	Determining the most important variables for diffuse solar radiation prediction using adaptive neuro-fuzzy methodology; case study: City of Kerman, Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1570-1579.	16.4	63
23	A comprehensive review of solar only and hybrid solar driven multigeneration systems: Classifications, benefits, design and prospective. <i>Applied Energy</i> , 2020, 268, 114940.	10.1	59
24	Assessment of solar and wind energy potentials for three free economic and industrial zones of Iran. <i>Energy</i> , 2014, 67, 117-128.	8.8	58
25	Diffuse solar radiation on a horizontal surface: Reviewing and categorizing the empirical models. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 338-362.	16.4	56
26	Economic feasibility of developing grid-connected photovoltaic plants in the southern coast of Iran. <i>Energy</i> , 2018, 156, 17-31.	8.8	55
27	Solving the duck curve in a smart grid environment using a non-cooperative game theory and dynamic pricing profiles. <i>Energy Conversion and Management</i> , 2020, 220, 113102.	9.2	55
28	Establishing new empirical models for predicting monthly mean horizontal diffuse solar radiation in city of Isfahan, Iran. <i>Energy</i> , 2014, 69, 571-577.	8.8	51
29	Prediction of horizontal diffuse solar radiation using clearness index based empirical models; A case study. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21888-21898.	7.1	50
30	A statistical comparative study to demonstrate the merit of day of the year-based models for estimation of horizontal global solar radiation. <i>Energy Conversion and Management</i> , 2014, 87, 37-47.	9.2	49
31	Evaluation of installing photovoltaic plants using a hybrid approach for Khuzestan province, Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 60-74.	16.4	46
32	Using ANFIS for selection of more relevant parameters to predict dew point temperature. <i>Applied Thermal Engineering</i> , 2016, 96, 311-319.	6.0	43
33	Thermodynamic analysis of hybrid cycles based on a regenerative steam Rankine cycle for cogeneration and trigeneration. <i>Energy Conversion and Management</i> , 2018, 158, 460-475.	9.2	43
34	A novel triple power cycle featuring a gas turbine cycle with supercritical carbon dioxide and organic Rankine cycles: Thermo-economic analysis and optimization. <i>Energy Conversion and Management</i> , 2020, 220, 113123.	9.2	41
35	Techno-economic analysis of the impact of dynamic electricity prices on solar penetration in a smart grid environment with distributed energy storage. <i>Applied Energy</i> , 2021, 282, 116168.	10.1	41
36	Novel hybrid solar tower-gas turbine combined power cycles using supercritical carbon dioxide bottoming cycles. <i>Applied Thermal Engineering</i> , 2020, 178, 115588.	6.0	40

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37	Study of inter-correlations of solar radiation, wind speed and precipitation under the influence of El Niño Southern Oscillation (ENSO) in California. <i>Renewable Energy</i> , 2018, 120, 190-200.	8.9	39
38	The potential and deployment viability of concentrated solar power (CSP) in Iran. <i>Energy Strategy Reviews</i> , 2019, 24, 358-369.	7.3	38
39	A review of unconventional bottoming cycles for waste heat recovery: Part I " Analysis, design, and optimization. <i>Energy Conversion and Management</i> , 2019, 198, 110905.	9.2	38
40	Thermoeconomic analysis of multi-stage recuperative Brayton power cycles: Part I- hybridization with a solar power tower system. <i>Energy Conversion and Management</i> , 2019, 185, 898-919.	9.2	37
41	Wind wake influence estimation on energy production of wind farm by adaptive neuro-fuzzy methodology. <i>Energy</i> , 2015, 80, 361-372.	8.8	36
42	A thermo-economic analysis of a combined cooling system for air conditioning and low to medium temperature refrigeration. <i>Journal of Cleaner Production</i> , 2019, 206, 580-597.	9.3	36
43	Electricity Generation and Energy Cost Estimation of Large-Scale Wind Turbines in Jarandagh, Iran. <i>Journal of Energy</i> , 2014, 2014, 1-8.	3.2	35
44	Economic evaluation for cooling and ventilation of medicine storage warehouses utilizing wind catchers. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 12-19.	16.4	35
45	Thermoeconomic analysis of multi-stage recuperative Brayton cycles: Part II " Waste energy recovery using CO <sub>2</sub> and organic Rankine power cycles. <i>Energy Conversion and Management</i> , 2019, 185, 920-934.	9.2	32
46	Assessing the suitability of hybridizing the Cuckoo optimization algorithm with ANN and ANFIS techniques to predict daily evaporation. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	29
47	A combined method to estimate wind speed distribution based on integrating the support vector machine with firefly algorithm. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 867-875.	2.3	28
48	Prediction of Daily Dewpoint Temperature Using a Model Combining the Support Vector Machine with Firefly Algorithm. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016, 142, 04016013.	1.0	25
49	A novel means to flexibly operate a hybrid concentrated solar power plant and improve operation during non-ideal direct normal irradiation conditions. <i>Energy Conversion and Management</i> , 2020, 203, 112275.	9.2	25
50	Dynamic optimization and economic evaluation of flexible heat integration in a hybrid concentrated solar power plant. <i>Applied Energy</i> , 2020, 276, 115513.	10.1	22
51	Hybrid systems based on gas turbine combined cycle for trigeneration of power, cooling, and freshwater: A comparative techno-economic assessment. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 37, 100632.	2.7	22
52	A review of solar radiation on vertically mounted solar surfaces and proper azimuth angles in six Iranian major cities. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 504-518.	16.4	21
53	Thermo-economic analysis of a novel hybrid multigeneration system based on an integrated triple effect refrigeration system for production of power and refrigeration. <i>Journal of Cleaner Production</i> , 2019, 238, 117912.	9.3	21
54	A novel hybrid dual-temperature absorption refrigeration system: Thermodynamic, economic, and environmental analysis. <i>Journal of Cleaner Production</i> , 2019, 233, 1075-1087.	9.3	21

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55	Thermo-economic evaluation of modifications to a gas power plant with an air bottoming combined cycle. <i>Energy Conversion and Management</i> , 2018, 172, 619-644.	9.2	20
56	A hybrid computational intelligence method for predicting dew point temperature. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	19
57	Thermo-economic analysis and optimization of heliostat fields using AINEH code: Analysis of implementation of non-equal heliostats (AINEH). <i>Renewable Energy</i> , 2019, 135, 920-935.	8.9	19
58	Thermodynamic and economic analysis of different cogeneration and trigeneration systems based on carbon dioxide vapor compression refrigeration systems. <i>Applied Thermal Engineering</i> , 2020, 164, 114503.	6.0	19
59	Hybrid auto-regressive neural network model for estimating global solar radiation in Bandar Abbas, Iran. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	18
60	Thermoeconomic analysis of a multigeneration system using waste heat from a triple power cycle. <i>Applied Thermal Engineering</i> , 2021, 190, 116790.	6.0	16
61	Investigation of wind resources in Timimoun region, Algeria. <i>Wind Engineering</i> , 2016, 40, 250-260.	1.9	14
62	An efficient integrated trigeneration system for the production of dual temperature cooling and fresh water: Thermoeconomic analysis and optimization. <i>Applied Thermal Engineering</i> , 2018, 145, 652-666.	6.0	13
63	Assessing the proficiency of adaptive neuro-fuzzy system to estimate wind power density: Case study of Aligoodarz, Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 429-435.	16.4	12
64	Simulating a solar parabolic trough collector plant used for industrial process heat using an optimized operating scheme that utilizes flexible heat integration. <i>Solar Energy</i> , 2022, 236, 756-771.	6.1	12
65	Influence of introducing various meteorological parameters to the Angström-Prescott model for estimation of global solar radiation. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	11
66	Association of direct normal irradiance with El Niño Southern Oscillation and its consequence on concentrated solar power production in the US Southwest. <i>Applied Energy</i> , 2018, 212, 1126-1137.	10.1	9
67	Application and economic viability of wind turbine installation in Lutak, Iran. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	8
68	Predicting the reference evapotranspiration based on tensor decomposition. <i>Theoretical and Applied Climatology</i> , 2017, 130, 1099-1109.	2.8	8
69	Thermo-economic assessment and optimization of a hybrid triple effect absorption chiller and compressor. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 38, 100652.	2.7	7
70	Economic and environmental impacts of a non-traditional combined heat and power system for a discrete manufacturing facility. <i>Journal of Cleaner Production</i> , 2020, 265, 121816.	9.3	6
71	Wind Resource Assessment and Economic Viability of Conventional and Unconventional Small Wind Turbines: A Case Study of Maryland. <i>Energies</i> , 2020, 13, 5874.	3.1	5
72	Design and analysis of a dual-receiver direct steam generator solar power tower plant with a flexible heliostat field. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100698.	2.7	5

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73	State-by-State comparison of combined heat and power to photovoltaic installations at manufacturing facilities with heat and power loads. Sustainable Energy Technologies and Assessments, 2021, 47, 101502.	2.7	5
74	Techno-Economic Assessment of Utilizing Wind Energy for Hydrogen Production Through Electrolysis. , 2017, , .		4
75	Simulation and Characterization of a Hybrid Concentrated Solar Tower System for Co-Generation of Power and Fresh Water. , 2017, , .		3
76	Optimization of solar-coal hybridization for low solar augmentation. Applied Energy, 2022, 319, 119225.	10.1	3
77	Development of high concentration photovoltaics (HCPV) power plants in the US Southwest: Economic assessment and sensitivity analysis. Sustainable Energy Technologies and Assessments, 2020, 42, 100873.	2.7	2
78	Thermoeconomic Evaluation and Optimization of Using Different Environmentally Friendly Refrigerant Pairs for a Dual-Evaporator Cascade Refrigeration System. Processes, 2021, 9, 1855.	2.8	2
79	Feasibility of installing wind turbines for electricity generation in Jarandagh, Iran. , 2015, , .		1
80	Modeling, Control, and Optimization of Multi-Generation and Hybrid Energy Systems. Processes, 2021, 9, 1125.	2.8	1
81	A survey of hybrid water desalination systems driven by renewable energy based components. , 0, 150, 9-37.		1
82	Proposal and assessment of a novel multigeneration system based on a supercritical CO2 Brayton cycle driven by a solar power tower plant. AIP Conference Proceedings, 2022, , .	0.4	0