

# Adel Gastli

## List of Publications by Year in descending order

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Version: 2024-02-01

100  
papers

3,481  
citations

230014

27  
h-index

175968

55  
g-index

101  
all docs

101  
docs citations

101  
times ranked

4068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of optimization techniques applied for the integration of distributed generation from renewable energy sources. Renewable Energy, 2017, 113, 266-280.	4.3	364
2	PV site suitability analysis using GIS-based spatial fuzzy multi-criteria evaluation. Renewable Energy, 2011, 36, 2554-2561.	4.3	293
3	Review of policies encouraging renewable energy integration & best practices. Renewable and Sustainable Energy Reviews, 2015, 45, 249-262.	8.2	249
4	Review of the use of Numerical Weather Prediction (NWP) Models for wind energy assessment. Renewable and Sustainable Energy Reviews, 2010, 14, 3192-3198.	8.2	213
5	Real-Time Fault Detection and Identification for MMC Using 1-D Convolutional Neural Networks. IEEE Transactions on Industrial Electronics, 2019, 66, 8760-8771.	5.2	193
6	Solar electricity prospects in Oman using GIS-based solar radiation maps. Renewable and Sustainable Energy Reviews, 2010, 14, 790-797.	8.2	159
7	Wind farm land suitability indexing using multi-criteria analysis. Renewable Energy, 2012, 44, 80-87.	4.3	151
8	Modular Multilevel Converter Circulating Current Reduction Using Model Predictive Control. IEEE Transactions on Industrial Electronics, 2016, 63, 3857-3866.	5.2	116
9	Smart-home automation using IoT-based sensing and monitoring platform. , 2018, , .		103
10	Assessment of renewable energy resources potential in Oman and identification of barrier to their significant utilization. Renewable and Sustainable Energy Reviews, 2009, 13, 2734-2739.	8.2	88
11	Assessment of wind energy potential locations in Oman using data from existing weather stations. Renewable and Sustainable Energy Reviews, 2010, 14, 1428-1436.	8.2	84
12	Recommendations on renewable energy policies for the GCC countries. Renewable and Sustainable Energy Reviews, 2015, 50, 1181-1191.	8.2	77
13	A simple method for extracting the parameters of the PV cell single-diode model. Renewable Energy, 2017, 113, 885-894.	4.3	73
14	Reinforcement Learning Based EV Charging Management Systems—A Review. IEEE Access, 2021, 9, 41506-41531.	2.6	72
15	GIS-based assessment of combined CSP electric power and seawater desalination plant for Duqum—Oman. Renewable and Sustainable Energy Reviews, 2010, 14, 821-827.	8.2	68
16	Sustainable energy usage in Oman—Opportunities and barriers. Renewable and Sustainable Energy Reviews, 2011, 15, 3780-3788.	8.2	61
17	Identification of induction motor equivalent circuit parameters using the single-phase test. IEEE Transactions on Energy Conversion, 1999, 14, 51-56.	3.7	56
18	GIS assessment of large CSP plant in Duqum, Oman. Renewable and Sustainable Energy Reviews, 2010, 14, 835-841.	8.2	55

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19	ANN-Based Soft Starting of Voltage-Controlled-Fed IM Drive System. IEEE Transactions on Energy Conversion, 2005, 20, 497-503.	3.7	50
20	Solar water heating initiative in Oman energy saving and carbon credits. Renewable and Sustainable Energy Reviews, 2011, 15, 1851-1856.	8.2	49
21	Integration of temperature and dust effects in siting large PV power plant in hot arid area. Renewable Energy, 2013, 57, 635-644.	4.3	49
22	Long-term performance analysis and power prediction of PV technology in the State of Qatar. Renewable Energy, 2017, 113, 952-965.	4.3	49
23	Factors affecting cathodic-protection interference. Engineering Analysis With Boundary Elements, 2007, 31, 485-493.	2.0	48
24	Nested ensemble NWP approach for wind energy assessment. Renewable Energy, 2012, 37, 150-160.	4.3	48
25	Review and simulation of leakage current in transformerless microinverters for PV applications. Renewable and Sustainable Energy Reviews, 2017, 74, 1240-1256.	8.2	35
26	Survey about public perception regarding smart grid, energy efficiency & renewable energies applications in Qatar. Renewable and Sustainable Energy Reviews, 2018, 82, 168-175.	8.2	32
27	A Battery Health Monitoring Method Using Machine Learning: A Data-Driven Approach. Energies, 2020, 13, 3658.	1.6	32
28	Evaluation of NWP performance for wind energy resource assessment in Oman. Renewable and Sustainable Energy Reviews, 2011, 15, 1545-1555.	8.2	29
29	Spatio-temporal assessment of dust risk maps for solar energy systems using proxy data. Renewable Energy, 2012, 44, 23-31.	4.3	25
30	CO2 greenhouse emissions in Oman over the last forty-two years: Review. Renewable and Sustainable Energy Reviews, 2015, 52, 1702-1712.	8.2	24
31	Investigation of the dependence of DC insulation resistivity of ultra-clean polyethylene on temperature and electric field. IEEE Transactions on Power Delivery, 1999, 14, 699-704.	2.9	22
32	Stator flux controlled V/f PWM inverter with identification of IM parameters (induction motors). IEEE Transactions on Industrial Electronics, 1992, 39, 334-340.	5.2	21
33	Platoon Transitional Maneuver Control System: A Review. IEEE Access, 2021, 9, 88327-88347.	2.6	21
34	Conductors of a linear induction motor. IEEE Transactions on Energy Conversion, 1998, 13, 111-116.	3.7	20
35	Design and realization of an open-source and modular smart meter. Energy Science and Engineering, 2019, 7, 1405-1422.	1.9	19
36	Production of solar radiation bankable datasets from high-resolution solar irradiance derived with dynamical downscaling Numerical Weather prediction model. Energy Reports, 2016, 2, 67-73.	2.5	16

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37	Assessment of Isolated and Non-Isolated DC-DC Converters for Medium-Voltage PV Applications. , 2017, , .		16
38	Improved field oriented control of an LIM having joints in its secondary conductors. IEEE Transactions on Energy Conversion, 2002, 17, 349-355.	3.7	15
39	Boundary element simulation of DC stray currents in oil industry due to cathodic protection interference. European Transactions on Electrical Power, 2007, 17, 486-499.	1.0	15
40	Stray currents of ESP well casings. Engineering Analysis With Boundary Elements, 2008, 32, 32-40.	2.0	15
41	Correlation between climate data and maximum electricity demand in Qatar. , 2013, , .		15
42	Modeling and control for new LLCL filter based grid-tied PV inverters with active power decoupling and active resonance damping capabilities. Electric Power Systems Research, 2018, 155, 307-319.	2.1	15
43	Review of Medium Voltage High Power Electric Drives. IEEJ Journal of Industry Applications, 2019, 8, 1-11.	0.9	15
44	Planning and Optimizing Electric-Vehicle Charging Infrastructure Through System Dynamics. IEEE Access, 2022, 10, 17495-17514.	2.6	15
45	A New Stator-Flux-Oriented Speed-Sensorless Control Algorithm for General Purpose Induction Motor Drive.. IEEJ Transactions on Industry Applications, 1994, 114, 9-16.	0.1	13
46	Withstand capability tests of transient voltage surge suppressors. Electric Power Systems Research, 2007, 77, 859-864.	2.1	13
47	Innovative program and course outcomes' assessment tools. , 2009, , .		13
48	Asymmetrical constants and effect of joints in the secondary conductors of a linear induction motor. IEEE Transactions on Energy Conversion, 2000, 15, 251-256.	3.7	12
49	Matlab/Simulink implementation & simulation of islanding detection using passive methods. , 2013, , .		12
50	Greenhouse gas (GHG) emissions in the Sultanate of Oman. , 2015, 5, 339-346.		12
51	Reinforcement Learning-Based School Energy Management System. Energies, 2020, 13, 6354.	1.6	11
52	Factors affecting transient overvoltages of electric submersible pumps. IEEE Potentials, 2006, 25, 13-17.	0.2	10
53	Siting of large PV farms in Al-Batinah region of Oman. , 2010, , .		10
54	Probabilistic wind speed forecast for wind power prediction using pseudo ensemble approach. , 2012, , .		10

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55	Design considerations, modelling, and control of dualâ€œactive full bridge for electric vehicles charging applications. Journal of Engineering, 2019, 2019, 8439-8447.	0.6	10
56	A highly efficient PV power system for DC MicroGrids. , 2016, , .		9
57	Electrolytic capacitor-less dual buck inverter with CM and DM active resonance damping control for Non-isolated grid-connected PV applications. , 2018, , .		9
58	A novel control scheme for three-phase seven-level packed U-Cell based DSTATCOM. Electric Power Systems Research, 2020, 182, 106201.	2.1	9
59	Wind resource assessment using numerical weather prediction models and multi-criteria decision making technique: case study (Masirah Island, Oman). International Journal of Renewable Energy Technology, 2013, 4, 17.	0.2	8
60	Solar car efficient power converters' design. , 2016, , .		8
61	Fault detection in modular multilevel converter using principle component analysis. , 2018, , .		8
62	Assessment of topologies to minimize leakage currents in transformerless PV inverters. , 2010, , .		7
63	Siting of PV power plants on inclined terrains. International Journal of Sustainable Energy, 2016, 35, 834-843.	1.3	7
64	Impact of Passive and Active Security Attacks on MIMO Smart Grid Communications. IEEE Systems Journal, 2019, 13, 2873-2876.	2.9	6
65	A Novel Features-Based Multivariate Gaussian Distribution Method for the Fraudulent Consumers Detection in the Power Utilities of Developing Countries. IEEE Access, 2021, 9, 81057-81067.	2.6	6
66	Reinforcement Learning-Based Control of Signalized Intersections Having Platoons. IEEE Access, 2022, 10, 17683-17696.	2.6	6
67	Enhanced Deadbeat Control Approach for Grid-Tied Multilevel Flying Capacitors Inverter. IEEE Access, 2022, 10, 16720-16728.	2.6	6
68	Voltage stability margins assessment for Muscat power system. International Journal of Electrical Power and Energy Systems, 2002, 24, 665-671.	3.3	5
69	Switchless Power Decoupling and Switchless Leakage Current Elimination in Grid-Tied Inverters. , 2017, , .		5
70	Mitigation of voltage imbalance in power distribution system using MPC â€œcontrolled packedâ€œcells converter. Energy Science and Engineering, 2019, 7, 1659-1668.	1.9	5
71	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. Sensors, 2019, 19, 5148.	2.1	5
72	Qatar Green Schools Initiative: Energy Management System with Cost-Efficient and Lightweight Networked IoT. , 2020, , .		5

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73	EV Impact on the Residential Distribution Network with Smart PV Inverters. , 2020, , .		5
74	A novel model predictive control with an integrated SOC and floating DC-link voltage balancing for 3-phase 7-level PUC converter-based MV BESS. International Journal of Electrical Power and Energy Systems, 2021, 130, 106895.	3.3	5
75	Numerical differential protection algorithm for power transformers. , 2013, , .		4
76	Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. IEEE Systems Journal, 2020, 14, 2133-2143.	2.9	4
77	The Simultaneous Impact of EV Charging and PV Inverter Reactive Power on the Hosting Distribution System's Performance: A Case Study in Kuwait. Energies, 2020, 13, 4409.	1.6	4
78	Comparative investigation of lightning impulse tests on electrical submersible pump motors. Electric Power Systems Research, 2007, 77, 1065-1072.	2.1	3
79	GIS-based estimation of roof-PV capacity & energy production for the Seeb region in Oman. , 2010, , .		3
80	Microcontroller-based inverter topology integrated in PV systems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 132-150.	0.5	3
81	Hardware in Loop (HIL) Testing of Energy Management Controller for Electric Vehicle integrated Microgrid. , 2019, , .		3
82	Estimating wind resource over Oman using meso-scale modeling. , 2010, , .		2
83	Optimal micro-siting of small wind turbine using numerical simulation. , 2013, , .		2
84	Enhanced low-voltage ride-through capability of flying capacitors inverter using model predictive control. International Transactions on Electrical Energy Systems, 2017, 27, e2430.	1.2	2
85	Optimal PMU Placement for Large Practical Systems Qatar Grid as an Example. , 2017, , .		2
86	A Soft Switching Single Stage Isolated Three Phase Bidirectional PFC Converter for Electric Vehicles charging. , 2019, , .		2
87	Algorithms for automatic torus motor parameters identification: comparative study. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 1299-1310.	0.5	1
88	Computation of eddy-current density on ESP motor and well casings under different operating conditions. Simulation Modelling Practice and Theory, 2008, 16, 483-493.	2.2	1
89	Low cost microcontroller-based inverter integrated in PV systems. , 2013, , .		1
90	Geometrical approach for wind farm symmetrical layout design optimization. , 2015, , .		1

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91	Novel Home Energy Optimization Technique based on Multi-Zone and Multi-Objective Approach. , 2019, , .		1
92	Lightweight KPABE Architecture Enabled in Mesh Networked Resource-Constrained IoT Devices. IEEE Access, 2021, 9, 5640-5650.	2.6	1
93	Differential Flatness-Based Performance Enhancement of a Vector Controlled VSC With an LCL-Filter for Weak Grids. IEEE Access, 2021, 9, 33557-33568.	2.6	1
94	Speed Sensor-Less Vector Control of Secondary Flux Controlled Induction Motor.. IEEJ Transactions on Industry Applications, 1993, 113, 87-95.	0.1	1
95	Performance Evaluation of No-Pairing ECC-Based KPABE on IoT Platforms. , 2020, , .		1
96	PREDICTION OF RUNNING FORCES IN HIGH CURVATURE WELL BORES USING FINITE ELEMENT ANALYSIS AND ARTIFICIAL NEURAL NETWORK. Petroleum Science and Technology, 2001, 19, 521-534.	0.7	0
97	Message from the SGRE 2015 technical program chairs. , 2015, , .		0
98	Simple voltage regulation method for smart grid applications. , 2015, , .		0
99	Matlab/Simulink Modeling and Simulation of Electric Appliances Based on their Actual Current Waveforms. , 2019, , .		0
100	Factors pertaining to academic probation of engineering students: A case study. Qscience Proceedings, 2015, 2015, 4.	0.0	0