

# Adel Gastli

## List of Publications by Citations

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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.

93  
papers

2,295  
citations

25  
h-index

46  
g-index

101  
ext. papers

2,846  
ext. citations

6.5  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
93	Review of optimization techniques applied for the integration of distributed generation from renewable energy sources. <i>Renewable Energy</i> , <b>2017</b> , 113, 266-280	8.1	225
92	PV site suitability analysis using GIS-based spatial fuzzy multi-criteria evaluation. <i>Renewable Energy</i> , <b>2011</b> , 36, 2554-2561	8.1	221
91	Review of policies encouraging renewable energy integration & best practices. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 45, 249-262	16.2	173
90	Review of the use of Numerical Weather Prediction (NWP) Models for wind energy assessment. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 3192-3198	16.2	149
89	Solar electricity prospects in Oman using GIS-based solar radiation maps. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 790-797	16.2	125
88	Wind farm land suitability indexing using multi-criteria analysis. <i>Renewable Energy</i> , <b>2012</b> , 44, 80-87	8.1	117
87	Real-Time Fault Detection and Identification for MMC Using 1-D Convolutional Neural Networks. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8760-8771	8.9	87
86	Modular Multilevel Converter Circulating Current Reduction Using Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 3857-3866	8.9	84
85	Assessment of renewable energy resources potential in Oman and identification of barrier to their significant utilization. <i>Renewable and Sustainable Energy Reviews</i> , <b>2009</b> , 13, 2734-2739	16.2	71
84	Assessment of wind energy potential locations in Oman using data from existing weather stations. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 1428-1436	16.2	70
83	GIS-based assessment of combined CSP electric power and seawater desalination plant for Duqum, Oman. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 821-827	16.2	58
82	Recommendations on renewable energy policies for the GCC countries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 50, 1181-1191	16.2	57
81	A simple method for extracting the parameters of the PV cell single-diode model. <i>Renewable Energy</i> , <b>2017</b> , 113, 885-894	8.1	53
80	Sustainable energy usage in Oman: Opportunities and barriers. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 3780-3788	16.2	48
79	Smart-home automation using IoT-based sensing and monitoring platform <b>2018</b> ,		47
78	GIS assessment of large CSP plant in Duqum, Oman. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 835-841	16.2	46
77	Solar water heating initiative in Oman energy saving and carbon credits. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 1851-1856	16.2	41

76	Nested ensemble NWP approach for wind energy assessment. <i>Renewable Energy</i> , <b>2012</b> , 37, 150-160	8.1	39
75	Factors affecting cathodic-protection interference. <i>Engineering Analysis With Boundary Elements</i> , <b>2007</b> , 31, 485-493	2.6	38
74	Identification of induction motor equivalent circuit parameters using the single-phase test. <i>IEEE Transactions on Energy Conversion</i> , <b>1999</b> , 14, 51-56	5.4	37
73	Integration of temperature and dust effects in siting large PV power plant in hot arid area. <i>Renewable Energy</i> , <b>2013</b> , 57, 635-644	8.1	36
72	Long-term performance analysis and power prediction of PV technology in the State of Qatar. <i>Renewable Energy</i> , <b>2017</b> , 113, 952-965	8.1	34
71	ANN-based soft starting of Voltage-controlled-fed IM drive system. <i>IEEE Transactions on Energy Conversion</i> , <b>2005</b> , 20, 497-503	5.4	31
70	Review and simulation of leakage current in transformerless microinverters for PV applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 74, 1240-1256	16.2	28
69	Evaluation of NWP performance for wind energy resource assessment in Oman. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 1545-1555	16.2	26
68	Spatio-temporal assessment of dust risk maps for solar energy systems using proxy data. <i>Renewable Energy</i> , <b>2012</b> , 44, 23-31	8.1	24
67	CO2 greenhouse emissions in Oman over the last forty-two years: Review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 52, 1702-1712	16.2	17
66	Survey about public perception regarding smart grid, energy efficiency & renewable energies applications in Qatar. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 168-175	16.2	14
65	Investigation of the dependence of DC insulation resistivity of ultra-clean polyethylene on temperature and electric field. <i>IEEE Transactions on Power Delivery</i> , <b>1999</b> , 14, 699-704	4.3	14
64	. <i>IEEE Transactions on Industrial Electronics</i> , <b>1992</b> , 39, 334-340	8.9	14
63	Design and realization of an open-source and modular smart meter. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 1405-1422	3.4	13
62	Conductors of a linear induction motor. <i>IEEE Transactions on Energy Conversion</i> , <b>1998</b> , 13, 111-116	5.4	13
61	Reinforcement Learning Based EV Charging Management Systems: A Review. <i>IEEE Access</i> , <b>2021</b> , 9, 41506-41531	3.5	13
60	Withstand capability tests of transient voltage surge suppressors. <i>Electric Power Systems Research</i> , <b>2007</b> , 77, 859-864	3.5	12
59	Stray currents of ESP well casings. <i>Engineering Analysis With Boundary Elements</i> , <b>2008</b> , 32, 32-40	2.6	11

58	Production of solar radiation bankable datasets from high-resolution solar irradiance derived with dynamical downscaling Numerical Weather prediction model. <i>Energy Reports</i> , <b>2016</b> , 2, 67-73	4.6	10
57	Greenhouse gas (GHG) emissions in the Sultanate of Oman <b>2015</b> , 5, 339-346		10
56	Improved field oriented control of an LIM having joints in its secondary conductors. <i>IEEE Transactions on Energy Conversion</i> , <b>2002</b> , 17, 349-355	5.4	10
55	A Battery Health Monitoring Method Using Machine Learning: A Data-Driven Approach. <i>Energies</i> , <b>2020</b> , 13, 3658	3.1	10
54	Modeling and control for new LLCL filter based grid-tied PV inverters with active power decoupling and active resonance damping capabilities. <i>Electric Power Systems Research</i> , <b>2018</b> , 155, 307-319	3.5	10
53	Correlation between climate data and maximum electricity demand in Qatar <b>2013</b> ,		9
52	Asymmetrical constants and effect of joints in the secondary conductors of a linear induction motor. <i>IEEE Transactions on Energy Conversion</i> , <b>2000</b> , 15, 251-256	5.4	9
51	Probabilistic wind speed forecast for wind power prediction using pseudo ensemble approach <b>2012</b> ,		8
50	Boundary element simulation of DC stray currents in oil industry due to cathodic protection interference. <i>European Transactions on Electrical Power</i> , <b>2007</b> , 17, 486-499		8
49	Factors affecting transient overvoltages of electric submersible pumps. <i>IEEE Potentials</i> , <b>2006</b> , 25, 13-17	1	8
48	A New Stator-Flux-Oriented Speed-Sensorless Control Algorithm for General Purpose Induction Motor Drive.. <i>IEEJ Transactions on Industry Applications</i> , <b>1994</b> , 114, 9-16	0.2	8
47	Assessment of Isolated and Non-Isolated DC-DC Converters for Medium-Voltage PV Applications <b>2017</b> ,		7
46	<b>2018</b> ,		7
45	Siting of large PV farms in Al-Batinah region of Oman <b>2010</b> ,		7
44	A highly efficient PV power system for DC MicroGrids <b>2016</b> ,		6
43	Siting of PV power plants on inclined terrains. <i>International Journal of Sustainable Energy</i> , <b>2016</b> , 35, 834-843		5
42	Wind resource assessment using numerical weather prediction models and multi-criteria decision making technique: case study (Masirah Island, Oman). <i>International Journal of Renewable Energy Technology</i> , <b>2013</b> , 4, 17	0.1	5
41	Assessment of topologies to minimize leakage currents in transformerless PV inverters <b>2010</b> ,		5

40	Solar car efficient power converters' design <b>2016,</b>		5
39	Reinforcement Learning-Based School Energy Management System. <i>Energies</i> , <b>2020</b> , 13, 6354	3.1	4
38	A novel control scheme for three-phase seven-level packed U-Cell based DSTATCOM. <i>Electric Power Systems Research</i> , <b>2020</b> , 182, 106201	3.5	4
37	Review of Medium Voltage High Power Electric Drives. <i>IEEJ Journal of Industry Applications</i> , <b>2019</b> , 8, 1-11b.7		3
36	<b>2020,</b>		3
35	Switchless Power Decoupling and Switchless Leakage Current Elimination in Grid-Tied Inverters <b>2017,</b>		3
34	<b>2013,</b>		3
33	Innovative program and course outcomes' assessment tools <b>2009,</b>		3
32	Comparative investigation of lightning impulse tests on electrical submersible pump motors. <i>Electric Power Systems Research</i> , <b>2007</b> , 77, 1065-1072	3.5	3
31	Voltage stability margins assessment for Muscat power system. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2002</b> , 24, 665-671	5.1	3
30	Mitigation of voltage imbalance in power distribution system using MPC-controlled packed-U-cells converter. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 1659-1668	3.4	2
29	Numerical differential protection algorithm for power transformers <b>2013,</b>		2
28	Optimal micro-siting of small wind turbine using numerical simulation <b>2013,</b>		2
27	Estimating wind resource over Oman using meso-scale modeling <b>2010,</b>		2
26	Enhanced Deadbeat Control Approach for Grid-Tied Multilevel Flying Capacitors Inverter. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	2
25	Impact of Passive and Active Security Attacks on MIMO Smart Grid Communications. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 2873-2876	4.3	2
24	Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 2133-2143	4.3	2
23	. <i>IEEE Access</i> , <b>2021</b> , 9, 81057-81067	3.5	2

22	. <i>IEEE Access</i> , <b>2021</b> , 9, 88327-88347	3.5	2
21	Enhanced low-voltage ride-through capability of flying capacitors inverter using model predictive control. <i>International Transactions on Electrical Energy Systems</i> , <b>2017</b> , 27, e2430	2.2	1
20	Geometrical approach for wind farm symmetrical layout design optimization <b>2015</b> ,		1
19	Optimal PMU Placement for Large Practical Systems Qatar Grid as an Example <b>2017</b> ,		1
18	Microcontroller-based inverter topology integrated in PV systems. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2015</b> , 34, 132-150	0.7	1
17	GIS-based estimation of roof-PV capacity & energy production for the Seeb region in Oman <b>2010</b> ,		1
16	Computation of eddy-current density on ESP motor and well casings under different operating conditions. <i>Simulation Modelling Practice and Theory</i> , <b>2008</b> , 16, 483-493	3.9	1
15	Planning and Optimizing Electric-Vehicle Charging Infrastructure Through System Dynamics (December 2021). <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
14	Performance Evaluation of No-Pairing ECC-Based KPABE on IoT Platforms <b>2020</b> ,		1
13	Speed Sensor-Less Vector Control of Secondary Flux Controlled Induction Motor.. <i>IEEJ Transactions on Industry Applications</i> , <b>1993</b> , 113, 87-95	0.2	1
12	The Simultaneous Impact of EV Charging and PV Inverter Reactive Power on the Hosting Distribution System Performance: A Case Study in Kuwait. <i>Energies</i> , <b>2020</b> , 13, 4409	3.1	1
11	Novel Home Energy Optimization Technique based on Multi-Zone and Multi-Objective Approach <b>2019</b> ,		1
10	Design considerations, modelling, and control of dual-active full bridge for electric vehicles charging applications. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 8439-8447	0.7	1
9	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. <i>Sensors</i> , <b>2019</b> , 19,	3.8	1
8	Review of Common-Mode Voltage in Transformerless Inverter Topologies for PV Systems. <i>Smart Innovation, Systems and Technologies</i> , <b>2012</b> , 589-596	0.5	0
7	Algorithms for automatic torus motor parameters identification: comparative study. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2005</b> , 24, 1299-1310	0.7	0
6	Reinforcement Learning-based Control of Signalized Intersections having Platoons. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	0
5	Differential Flatness-Based Performance Enhancement of a Vector Controlled VSC With an LCL-Filter for Weak Grids. <i>IEEE Access</i> , <b>2021</b> , 9, 33557-33568	3.5	0

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|---|---|-----|---|
| 4 | 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. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 130, 106895 | 5.1 | 0 |
| 3 | PREDICTION OF RUNNING FORCES IN HIGH CURVATURE WELL BORES USING FINITE ELEMENT ANALYSIS AND ARTIFICIAL NEURAL NETWORK. <i>Petroleum Science and Technology</i> , <b>2001</b> , 19, 521-534  | 1.4 |   |
| 2 | Factors pertaining to academic probation of engineering students: A case study. <i>Qscience Proceedings</i> , <b>2015</b> , 2015, 4   |     |   |
| 1 | Lightweight KPABE Architecture Enabled in Mesh Networked Resource-Constrained IoT Devices. <i>IEEE Access</i> , <b>2021</b> , 9, 5640-5650  | 3.5 |   |