Saad Mekhilef

List of Publications by Citations

545 papers	21,345 citations	74 h-index	133 g-index
640 ext. papers	27,713 ext. citations	5.1 avg, IF	7.81 L-index

#	Paper	IF	Citations
545	A comprehensive review on biodiesel as an alternative energy resource and its characteristics. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 2070-2093	16.2	1126
544	A review on biomass as a fuel for boilers. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 2262-2289	16.2	945
543	Simulation and Hardware Implementation of Incremental Conductance MPPT With Direct Control Method Using Cuk Converter. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 1154-1161	8.9	587
542	A review on solar energy use in industries. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 1777-1790	16.2	575
541	. *IEEE Transactions on Power Electronics*, **2012**, 27, 3627-3638	7.2	571
540	A review on energy saving strategies in industrial sector. *Renewable and Sustainable Energy Reviews* , **2011**, 15, 150-168	16.2	457
539	Comparative study of different fuel cell technologies. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 981-989	16.2	419
538	Forecasting of photovoltaic power generation and model optimization: A review. *Renewable and Sustainable Energy Reviews*, **2018**, 81, 912-928	16.2	338
537	Effect of dust, humidity and air velocity on efficiency of photovoltaic cells. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 2920-2925	16.2	335
536	Inertia response and frequency control techniques for renewable energy sources: A review. *Renewable and Sustainable Energy Reviews*, **2017**, 69, 144-155	16.2	335
535	Energy management strategies in hybrid renewable energy systems: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 62, 821-835	16.2	284
534	Modified Incremental Conductance Algorithm for Photovoltaic System Under Partial Shading Conditions and Load Variation. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 5384-5392	8.9	274
533	Solar cell parameters extraction based on single and double-diode models: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 56, 494-509	16.2	272
532	Parameter extraction of solar photovoltaic modules using penalty-based differential evolution. *Applied Energy*, **2012**, 99, 297-308	10.7	253
531	Modified incremental conductance MPPT algorithm to mitigate inaccurate responses under fast-changing solar irradiation level. *Solar Energy*, **2014**, 101, 333-342	6.8	246
530	Performance, materials and coating technologies of thermochromic thin films on smart windows. *Renewable and Sustainable Energy Reviews*, **2013**, 26, 353-364	16.2	222
529	A review on prospect of Jatropha curcas for biodiesel in Indonesia. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 3733-3756	16.2	221

528	A support vector machine–firefly algorithm-based model for global solar radiation prediction. *Solar Energy*, **2015**, 115, 632-644	6.8	217
527	Progress and recent trends of wind energy technology. *Renewable and Sustainable Energy Reviews*, **2013**, 21, 456-468	16.2	216
526	Optimization of micro-grid system using MOPSO. *Renewable Energy*, **2014**, 71, 295-306	8.1	215
525	Energy, economic and environmental analysis of metal oxides nanofluid for flat-plate solar collector. *Energy Conversion and Management*, **2013**, 76, 162-168	10.6	209
524	Progress and latest developments of evacuated tube solar collectors. *Renewable and Sustainable Energy Reviews*, **2015**, 51, 1038-1054	16.2	205
523	A review on palm oil biodiesel as a source of renewable fuel. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 1937-1949	16.2	204
522	Mitigating methods of power fluctuation of photovoltaic (PV) sources–A review. *Renewable and Sustainable Energy Reviews*, **2016**, 59, 1170-1184	16.2	188
521	Simulation and Hardware Implementation of New Maximum Power Point Tracking Technique for Partially Shaded PV System Using Hybrid DEPSO Method. *IEEE Transactions on Sustainable Energy*, **2015**, 6, 850-862	8.2	186
520	Solar energy in Malaysia: Current state and prospects. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 386-396	16.2	182
519	State of the art artificial intelligence-based MPPT techniques for mitigating partial shading effects on PV systems–A review. *Renewable and Sustainable Energy Reviews*, **2016**, 64, 435-455	16.2	180
518	Performance evaluation of a stand-alone PV-wind-diesel-battery hybrid system feasible for a large resort center in South China Sea, Malaysia. *Sustainable Cities and Society*, **2017**, 28, 358-366	10.1	176
517	Performance analysis of hybrid PV/diesel/battery system using HOMER: A case study Sabah, Malaysia. *Energy Conversion and Management*, **2017**, 144, 322-339	10.6	173
516	Performance enhancement of a Flat Plate Solar collector using Titanium dioxide nanofluid and Polyethylene Glycol dispersant. *Journal of Cleaner Production*, **2015**, 92, 343-353	10.3	172
515	Economic evaluation of hybrid energy systems for rural electrification in six geo-political zones of Nigeria. *Renewable Energy*, **2015**, 83, 435-446	8.1	151
514	Overview of model-based online state-of-charge estimation using Kalman filter family for lithium-ion batteries. *Renewable and Sustainable Energy Reviews*, **2019**, 113, 109233	16.2	148
513	Energy performance of an evacuated tube solar collector using single walled carbon nanotubes nanofluids. *Energy Conversion and Management*, **2015**, 105, 1377-1388	10.6	145
512	Environmental and exergy benefit of nanofluid-based hybrid PV/T systems. *Energy Conversion and Management*, **2016**, 123, 431-444	10.6	144
511	A Fast-Converging MPPT Technique for Photovoltaic System Under Fast-Varying Solar Irradiation and Load Resistance. *IEEE Transactions on Industrial Informatics*, **2015**, 11, 176-186	11.9	141

510	Long-Term Wind Speed Forecasting and General Pattern Recognition Using Neural Networks. *IEEE Transactions on Sustainable Energy*, **2014**, 5, 546-553	8.2	141
509	Exergy analysis of solar energy applications. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 350-356	16.2	141
508	Solar energy harvesting with the application of nanotechnology. *Renewable and Sustainable Energy Reviews*, **2013**, 26, 837-852	16.2	137
507	Biomass energy in Malaysia: Current state and prospects. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 3360-3370	16.2	136
506	Implementation of a modified incremental conductance MPPT algorithm with direct control based on a fuzzy duty cycle change estimator using dSPACE. *Solar Energy*, **2014**, 110, 325-337	6.8	135
505	Single phase transformerless inverter topologies for grid-tied photovoltaic system: A review. *Renewable and Sustainable Energy Reviews*, **2015**, 45, 69-86	16.2	135
504	A review on global fuel economy standards, labels and technologies in the transportation sector. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 4586-4610	16.2	132
503	. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 4322-4333	11.9	129
502	Dust as an unalterable deteriorative factor affecting PV panel's efficiency: Why and how. *Renewable and Sustainable Energy Reviews*, **2016**, 65, 1267-1278	16.2	125
501	Review on forecasting of photovoltaic power generation based on machine learning and metaheuristic techniques. *IET Renewable Power Generation*, **2019**, 13, 1009-1023	2.9	123
500	Optimal Design of a New Cascaded Multilevel Inverter Topology With Reduced Switch Count. *IEEE Access*, **2019**, 7, 24498-24510	3.5	117
499	Application of extreme learning machine for short term output power forecasting of three grid-connected PV systems. *Journal of Cleaner Production*, **2017**, 167, 395-405	10.3	117
498	Adaptive neuro-fuzzy approach for solar radiation prediction in Nigeria. *Renewable and Sustainable Energy Reviews*, **2015**, 51, 1784-1791	16.2	115
497	Analytical Modeling of Partially Shaded Photovoltaic Systems. *Energies*, **2013**, 6, 128-144	3.1	114
496	Applications of variable speed drive (VSD) in electrical motors energy savings. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 543-550	16.2	113
495	Modified Model Predictive Control of a Bidirectional AC–DC Converter Based on Lyapunov Function for Energy Storage Systems. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 704-715	8.9	111
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493	Techno-economic analysis of hybrid PV–diesel–battery and PV–wind–diesel–battery power systems for mobile BTS: the way forward for rural development. *Energy Science and Engineering*, **2015**, 3, 271-285	3.4	109

492	Potential application of renewable energy for rural electrification in Malaysia. *Renewable Energy*, **2013**, 59, 210-219	8.1	107
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489	Grid-connected isolated PV microinverters: A review. *Renewable and Sustainable Energy Reviews*, **2017**, 67, 1065-1080	16.2	97
488	A cascade nanofluid-based PV/T system with optimized optical and thermal properties. *Energy*, **2016**, 112, 963-975	7.9	94
487	Inductively coupled power transfer (ICPT) for electric vehicle charging A review. *Renewable and Sustainable Energy Reviews*, **2015**, 47, 462-475	16.2	93
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470	Voltage Control of Three-Stage Hybrid Multilevel Inverter Using Vector Transformation. *IEEE Transactions on Power Electronics*, **2010**, 25, 2599-2606	7.2	73
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445	Maximum power point tracking of partial shaded photovoltaic array using an evolutionary algorithm: A particle swarm optimization technique. *Journal of Renewable and Sustainable Energy*, **2014**, 6, 023102	2.5	46
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435	Progress on the demand side management in smart grid and optimization approaches. *International Journal of Energy Research*, **2021**, 45, 36-64	4.5	43
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420	A Single DC Source Nine-Level Switched-Capacitor Boost Inverter Topology With Reduced Switch Count. *IEEE Access*, **2020**, 8, 5840-5851	3.5	36
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