

Adel A Elbaset

List of Publications by Year in descending order

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69
papers

1,405
citations

471509

17
h-index

414414

32
g-index

72
all docs

72
docs citations

72
times ranked

1178
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel seven-parameter model for photovoltaic modules. Solar Energy Materials and Solar Cells, 2014, 130, 442-455.	6.2	159
2	Multi-objective optimization of grid-connected PV-wind hybrid system considering reliability, cost, and environmental aspects. Sustainable Cities and Society, 2020, 60, 102178.	10.4	126
3	Design and simulation of DC/DC boost converter. , 2008, , .		119
4	SMES based a new PID controller for frequency stability of a real hybrid power system considering high wind power penetration. IET Renewable Power Generation, 2018, 12, 1304-1313.	3.1	98
5	A New Frequency Control Strategy in an Islanded Microgrid Using Virtual Inertia Control-Based Coefficient Diagram Method. IEEE Access, 2019, 7, 16979-16990.	4.2	94
6	A Novel Coordination Scheme of Virtual Inertia Control and Digital Protection for Microgrid Dynamic Security Considering High Renewable Energy Penetration. IET Renewable Power Generation, 2019, 13, 462-474.	3.1	90
7	Implementation of a modified perturb and observe maximum power point tracking algorithm for photovoltaic system using an embedded microcontroller. IET Renewable Power Generation, 2016, 10, 551-560.	3.1	82
8	Microgrid dynamic security considering high penetration of renewable energy. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	72
9	Renewable power systems dynamic security using a new coordination of frequency control strategy based on virtual synchronous generator and digital frequency protection. International Journal of Electrical Power and Energy Systems, 2019, 109, 351-368.	5.5	71
10	Stochastic Optimal Planning of Distribution System Considering Integrated Photovoltaic-Based DG and DSTATCOM Under Uncertainties of Loads and Solar Irradiance. IEEE Access, 2021, 9, 26541-26555.	4.2	42
11	New seven parameters model for amorphous silicon and thin film PV modules based on solar irradiance. Solar Energy, 2016, 138, 26-35.	6.1	38
12	Optimized coordinated control of LFC and SMES to enhance frequency stability of a real multi-source power system considering high renewable energy penetration. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	36
13	Optimal Design of Wind-PV-Diesel-Battery System using Genetic Algorithm. IEEJ Transactions on Power and Energy, 2009, 129, 413-420.	0.2	35
14	Impact of interconnection photovoltaic/wind system with utility on their reliability using a fuzzy scheme. Renewable Energy, 2006, 31, 2475-2491.	8.9	30
15	Tustin's technique based digital decentralized load frequency control in a realistic multi power system considering wind farms and communications delays. Ain Shams Engineering Journal, 2019, 10, 327-341.	6.1	30
16	Optimal design of a PV/fuel cell hybrid power system for the city of Brest in France. , 2014, , .		25
17	Digital coordination strategy of protection and frequency stability for an islanded microgrid. IET Generation, Transmission and Distribution, 2018, 12, 3637-3646.	2.5	25
18	Frequency Stabilization of Renewable Power Systems Based on MPC With Application to The Egyptian Grid. IFAC-PapersOnLine, 2018, 51, 280-285.	0.9	19

#	ARTICLE	IF	CITATIONS
19	Economic and Reliability Evaluation of Wind-Diesel-Battery System for Isolated Island Considering CO2 Emission. IEEJ Transactions on Power and Energy, 2009, 129, 1000-1008.	0.2	19
20	Performance improvement of a PV-powered induction-motor-driven water pumping system. , 2016, , .		16
21	Decentralized model predictive control strategy of a realistic multi power system automatic generation control. , 2017, , .		13
22	Design and Power Quality Improvement of Photovoltaic Power System. , 2017, , .		12
23	Performance Analysis of Photovoltaic Systems with Energy Storage Systems. , 2019, , .		12
24	Modeling and simulation of Photovoltaic/Wind Hybrid Electric Power System Interconnected with electrical utility. , 2008, , .		10
25	Performance analysis of grid-connected PV system. , 2016, , .		10
26	Parallel PI/CDM Frequency Controller to Support V2G Plan for Microgrid. Energy Procedia, 2016, 100, 342-351.	1.8	10
27	Fault Detection and Classification in Transmission Lines Using ANFIS. IEEJ Transactions on Industry Applications, 2009, 129, 705-713.	0.2	9
28	Sizing and Analysis of Grid-Connected Microgrid System for Assiut University Using HOMER Software. , 2018, , .		8
29	Electric power regulation and modeling of a central tower receiver power plant based on artificial neural network technique. Journal of Renewable and Sustainable Energy, 2018, 10, 043706.	2.0	8
30	Modelling, Simulation of MPPT Using Perturb and Observe and Incremental Conductance techniques For Stand-Alone PV Systems. , 2019, , .		8
31	Simulation studies on ECS application in a clean power distribution system. International Journal of Electrical Power and Energy Systems, 2011, 33, 43-54.	5.5	7
32	Boost Inverter Topology with High-Frequency Link Transformer for PV Grid-Tied Applications. IEEJ Journal of Industry Applications, 2019, 8, 849-856.	1.1	7
33	A Novel Design of Decentralized LFC to Enhance Frequency Stability of Egypt Power System Including Wind Farms. International Journal on Energy Conversion, 2018, 6, 17.	0.1	7
34	Voltage stability improvement of an Egyptian power grid-based wind energy system using STATCOM. Wind Energy, 2022, 25, 1077-1120.	4.2	7
35	Particle Swarm Optimization for layout design of utility interconnected wind parks. , 2018, , .		6
36	Electrical Energy Consumption Forecasting Using Gaussian Process Regression. , 2018, , .		4

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37	Renewable Power Systems Dynamic Security. Power Systems, 2020, , .	0.5	4
38	Optimal allocation of a hybrid photovoltaicâ€based<scp>DG</scp>and<scp>DSTATCOM</scp>under the load and irradiance variability. International Transactions on Electrical Energy Systems, 2021, 31, e13131.	1.9	4
39	A novel single-stage high-frequency boost inverter for PV grid-tie applications. , 2018, , .		3
40	Concentrated solar power plants impact on PV penetration level and grid flexibility under Egyptian climate. AIP Conference Proceedings, 2018, , .	0.4	3
41	Power Quality Issues of Grid Connected Wind Energy System Focus on DFIG and Various Control Techniques of Active Harmonic Filter: A review. , 2019, , .		3
42	A Comparative Study for Optimum Design of Grid Connected PV System based on Actual System Specifications. International Journal of Computer Applications, 2015, 116, 19-34.	0.2	3
43	Frequency stability and digital protection coordination of multi-source power system. International Journal of Smart Grid and Clean Energy, 2018, , 240-251.	0.4	3
44	Short-Term Load Forecasting using Dynamic Neural Networks. , 2010, , .		2
45	Design and performance of single-phase grid inverter photovoltaic system for residential applications with maximum power point tracking. , 2016, , .		2
46	A developed concentrated solar power model using artificial neural network technique. , 2017, , .		2
47	A developed model predictive control algorithm for modular multilevel converter with reduced execution time. , 2017, , .		2
48	Voltage control of modular multilevel converter employing finite control set-model predictive control. , 2017, , .		2
49	A Comprehensive Digital Protection Scheme for Low-inertia Microgrids Considering High Penetration of Renewables. Power Systems, 2020, , 39-57.	0.5	2
50	Optimal operation of photovoltaic/utility grid interconnected electrical power system using neural network. , 2005, , .		1
51	Discrete-time optimal controller for load frequency control of multi-source power system in Egypt. , 2018, , .		1
52	Particle Swarm Optimization Technique for Shunt Active Power Filter. , 2018, , .		1
53	Coordination of Optimal LFC and Digital Frequency Relay for Multi-Source Power System in Egypt. , 2018, , .		1
54	A New Frequency Control Strategy in Real Power Systems Considering Wind Energy. Power Systems, 2020, , 15-38.	0.5	1

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55	Introduction and Literature Review. Power Systems, 2021, , 1-27.	0.5	1
56	Introducing matrix in islanding operation. , 2009, , .		0
57	Practical Identification of the Photovoltaic Module Parameters. , 2016, , 403-413.		0
58	A Novel Single- Stage High-Frequency Boost Inverter Cascaded by Rectifier-Inverter System for PV Grid-Tie Applications. , 2018, , .		0
59	A robust control strategy for mitigating renewable energy fluctuations in a real hybrid power system combined with SMES. AIP Conference Proceedings, 2018, , .	0.4	0
60	Enhancement LFC of a Realistic Multi-Source Power System Concerning Wind Farms Using SMES and New Optimized PID Controller. , 2018, , .		0
61	Modeling of Maximum Power Point Tracking for Stand-Alone PV Systems. , 2019, , 27-48.		0
62	Design and Sizing of Photovoltaic Power Systems. , 2021, , 61-113.		0
63	Introduction and Literature Review. Power Systems, 2020, , 1-13.	0.5	0
64	A New Trend in Control of Renewable Power Systems Based on Virtual Synchronous Generator. Power Systems, 2020, , 89-118.	0.5	0
65	Digital Decentralized Control Scheme in Multi-source Power Systems Based on Mapping Technique. Power Systems, 2020, , 119-143.	0.5	0
66	Dynamic Security Assessment of Low-inertia Microgrids Based on the Concept of Virtual Inertia Control. Power Systems, 2020, , 59-87.	0.5	0
67	Solar Power Plants Design. Power Systems, 2021, , 29-56.	0.5	0
68	ANN-Based CTR Modelling and Validation Results. Power Systems, 2021, , 71-98.	0.5	0
69	Application of hybrid renewable energy for supplying the emergency power supply system in case of station blackout in nuclear power plant. Annals of Nuclear Energy, 2022, 175, 109222.	1.8	0