## Hossam AGabbar

List of Publications by Year in descending order

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			393982	3	315357
	138	1,911	19		38
	papers	citations	h-index		g-index
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	151	151	151		1702
	151	151	151		1793
	all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Review of pipeline integrity management practices. International Journal of Pressure Vessels and Piping, 2010, 87, 373-380.	1.2	254
2	Review of Battery Management Systems (BMS) Development and Industrial Standards. Technologies, 2021, 9, 28.	3.0	165
3	Optimal planning of combined heat and power systems within microgrids. Energy, 2015, 93, 235-244.	4.5	95
4	Microgrid energy management in grid-connected and islanding modes based on SVC. Energy Conversion and Management, 2014, 86, 964-972.	4.4	67
5	Energy consumption and conservation practices in Qatarâ€"A case study of a hotel building. Energy and Buildings, 2014, 84, 55-69.	3.1	64
6	Comfort-based fuzzy control optimization for energy conservation in HVAC systems. Control Engineering Practice, 2014, 32, 172-182.	3.2	63
7	Optimal scheduling of interconnected micro energy grids with multiple fuel options. Sustainable Energy, Grids and Networks, 2016, 7, 80-89.	2.3	59
8	Control and EMS of a Grid-Connected Microgrid with Economical Analysis. Energies, 2018, 11, 129.	1.6	49
9	Electric Vehicle to Power Grid Integration Using Three-Phase Three-Level AC/DC Converter and PI-Fuzzy Controller. Energies, 2016, 9, 532.	1.6	48
10	Performance enhancement of hybrid AC/DC microgrid based D-FACTS. International Journal of Electrical Power and Energy Systems, 2014, 63, 382-393.	3.3	47
11	Improved qualitative fault propagation analysis. Journal of Loss Prevention in the Process Industries, 2007, 20, 260-270.	1.7	34
12	Analysis of Microgrid protection strategies. , 2012, , .		34
13	A new methodology for multiple incipient fault diagnosis in transmission lines using QTA and Na $ ilde{A}^{-}$ ve Bayes classifier. International Journal of Electrical Power and Energy Systems, 2018, 103, 326-346.	3.3	31
14	Engineering design of green hybrid energy production and supply chains. Environmental Modelling and Software, 2009, 24, 423-435.	1.9	29
15	Comparative study of MSW heat treatment processes and electricity generation. Journal of the Energy Institute, 2018, 91, 481-488.	2.7	28
16	A hybrid statistical genetic-based demand forecasting expert system. Expert Systems With Applications, 2009, 36, 11662-11670.	4.4	26
17	Optimal electrical fast charging stations by enhanced descent gradient and Voronoi diagram. Computers and Electrical Engineering, 2020, 83, 106574.	3.0	25
18	Risk-based performance analysis of microgrid topology with distributed energy generation. International Journal of Electrical Power and Energy Systems, 2012, 43, 1363-1375.	3.3	24

#	Article	IF	CITATIONS
19	DC Thermal Plasma Design and Utilization for the Low Density Polyethylene to Diesel Oil Pyrolysis Reaction. Energies, 2017, 10, 784.	1.6	24
20	Optimal Planning of Nuclear-Renewable Micro-Hybrid Energy System by Particle Swarm Optimization. IEEE Access, 2020, 8, 181049-181073.	2.6	22
21	A novel method for real time gear fault detection based on pulse shape analysis. Mechanical Systems and Signal Processing, 2011, 25, 1287-1298.	4.4	21
22	Fuzzy logic control for improved pressurizer systems in nuclear power plants. Annals of Nuclear Energy, 2014, 72, 461-466.	0.9	20
23	Study of small modular reactors in modern microgrids. International Transactions on Electrical Energy Systems, 2015, 25, 1943-1951.	1.2	20
24	Analysis of nuclear-renewable hybrid energy system for marine ships. Energy Reports, 2021, 7, 2398-2417.	2.5	20
25	Risk based life cycle assessment conceptual framework for energy supply systems in large buildings. Journal of Cleaner Production, 2015, 107, 291-309.	4.6	19
26	Techno-Economic Evaluation of Interconnected Nuclear-Renewable Micro Hybrid Energy Systems with Combined Heat and Power. Energies, 2020, 13, 1642.	1.6	19
27	DG Mix and Energy Storage Units for Optimal Planning of Self-Sufficient Micro Energy Grids. Energies, 2016, 9, 616.	1.6	18
28	A comprehensive review on radioactive waste cycle from generation to disposal. Journal of Radioanalytical and Nuclear Chemistry, 2021, 329, 15-31.	0.7	18
29	Fault diagnosis in gearbox using adaptive wavelet filtering and shock response spectrum features extraction. Structural Health Monitoring, 2013, 12, 169-180.	4.3	17
30	Performance optimization of integrated gas and power within microgrids using hybrid PSO-PS algorithm. International Journal of Energy Research, 2016, 40, 971-982.	2.2	15
31	Synergistic interactions, kinetic and thermodynamic analysis of co-pyrolysis of municipal paper and polypropylene waste. Waste Management, 2022, 146, 86-93.	3.7	14
32	Intelligent topology analyzer for improved plant operation. Industrial Management and Data Systems, 2007, 107, 229-250.	2.2	13
33	Optimal operation and battery management in a grid-connected microgrid. Journal of International Council on Electrical Engineering, 2018, 8, 195-206.	0.4	13
34	Review of energy storage technologies in harsh environment. Safety in Extreme Environments, 2019, $1$ , $11-25$ .	1.8	13
35	Optimal Design of Electric Bus Transport Systems With Minimal Total Ownership Cost. IEEE Access, 2020, 8, 119184-119199.	2.6	13
36	Optimal scheduling of energy hubs in interconnected multi energy systems. , 2016, , .		12

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37	Evaluation and optimization of thermoelectric generator network for waste heat utilization in nuclear power plants and non-nuclear energy applications. Annals of Nuclear Energy, 2017, 101, 454-464.	0.9	12
38	Fractional Order PID Control of Hybrid Power System with Renewable Generation Using Genetic Algorithm. , 2019, , .		12
39	Study of ozone concentration from CO2 decomposition in a water cooled coaxial dielectric barrier discharge. Vacuum, 2020, 177, 109370.	1.6	12
40	Recipe formal definition language for operating procedures synthesis. Computers and Chemical Engineering, 2004, 28, 1809-1822.	2.0	11
41	Fuzzyâ€Logicâ€Based Safety Verification Framework for Nuclear Power Plants. Risk Analysis, 2013, 33, 1128-1145.	1.5	11
42	ANN Model for Energy Demand and Supply Forecasting in a Hybrid Energy Supply System. , 2018, , .		11
43	Modeling and performance analysis of nuclear-renewable micro hybrid energy system based on different coupling methods. Energy Reports, 2020, 6, 189-206.	2.5	11
44	Micro Nuclear Reactors: Potential Replacements for Diesel Gensets within Micro Energy Grids. Energies, 2020, 13, 5172.	1.6	11
45	Flywheel-Based Fast Charging Station – FFCS for Electric Vehicles and Public Transportation. IOP Conference Series: Earth and Environmental Science, 2017, 83, 012009.	0.2	10
46	Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). IEEE Systems Journal, 2020, 14, 824-831.	2.9	10
47	Modeling Approach for Flexible Production Chain Operation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 48-55.	3.4	9
48	Integrated framework for safety control design of nuclear power plants. Nuclear Engineering and Design, 2010, 240, 3550-3558.	0.8	9
49	Dynamic aggregated building electricity load modeling and simulation. Simulation Modelling Practice and Theory, 2014, 42, 19-31.	2.2	9
50	Performance optimisation for novel green plugâ€energy economizer in microâ€grids based on recent heuristic algorithm. IET Generation, Transmission and Distribution, 2016, 10, 678-687.	1.4	9
51	Risk-based performance analysis for regional hybrid fuel with compressed natural gas option. International Journal of Process Systems Engineering, 2012, 2, 154.	0.2	8
52	Operations optimization towards high performance cooling in commercial buildings. , 2013, , .		8
53	Resilient micro energy grids with gas-power and renewable technologies. , 2014, , .		8
54	Signal de-noising methods for fault diagnosis and troubleshooting at CANDU $\hat{A}^{\otimes}$ stations. Nuclear Engineering and Design, 2014, 280, 481-492.	0.8	8

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55	Building thermal energy modeling with loss minimization. Simulation Modelling Practice and Theory, 2014, 49, 110-121.	2.2	8
56	Optimal Planning of Integrated Nuclear-Renewable Energy System for Marine Ships Using Artificial Intelligence Algorithm. Energies, 2021, 14, 3188.	1.6	8
57	Energy saving and management of water pumping networks. Heliyon, 2021, 7, e07820.	1.4	8
58	Key performance indicators (KPIs) for evaluation of energy conservation in buildings., 2013,,.		7
59	A multi-objective evolutionary optimization of fuzzy controller for energy conservation in air conditioning systems. International Journal of Energy Research, 2014, 38, 847-859.	2.2	7
60	Supervisory controller for power management of AC/DC microgrid. , 2016, , .		7
61	Effects of Ultra-Fast Charging System for Battery Size of Public Electric Bus. , 2020, , .		7
62	Fault Semantic Networks for Accident Forecasting of LNG Plants. Lecture Notes in Computer Science, 2010, , 427-437.	1.0	7
63	Plant object-orientated model formalization â€" case study: HDS plant design. Design Studies, 2003, 24, 101-108.	1.9	6
64	A robust method for coupling detection among process variables. International Journal of Process Systems Engineering, 2012, 2, 93.	0.2	6
65	Energy Semantic Network for Building Energy Management. Intelligent Industrial Systems, 2015, 1, 213-231.	1.0	6
66	Performance evaluation of gas-power strategies for building energy conservation. Energy Conversion and Management, 2015, 93, 187-196.	4.4	6
67	Key performance assessment of fuel cell based distributed energy generation system in resilient micro energy grid., 2015,,.		6
68	Risk Assessment of Micro Energy Grid Protection Layers. Energies, 2017, 10, 1176.	1.6	6
69	Sizing Analysis of Hybrid DC Fast Charging System for Electric Vehicles. , 2018, , .		6
70	Nuclear-Powered Hybrid Energy Storage-Based Fast Charging Station for Electrification Transportation. , 2019, , .		6
71	A Novel Sooty Terns Algorithm for Deregulated MPC-LFC Installed in Multi-Interconnected System with Renewable Energy Plants. Energies, 2021, 14, 5393.	1.6	6
72	Hierarchical control architecture for resilient interconnected microgrids for mass transit systems. IET Electrical Systems in Transportation, 2020, 10, 320-327.	1.5	6

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73	Design of fault simulator. Reliability Engineering and System Safety, 2009, 94, 1289-1298.	5.1	5
74	Micro grid renewables dynamic and static performance optimization using genetic algorithm. , 2015, , .		5
75	Design and control of resilient interconnected microgrid for sustained railway. , 2017, , .		5
76	Fault diagnosis of micro energy grids using Bayesian belief network and adaptive neuro-fuzzy interference system. , 2017, , .		5
77	Optimizing Charging Infrastructures of Electric Bus Routes to Minimize Total Ownership Cost., 2020,		5
78	CTIMS: Automated Defect Detection Framework Using Computed Tomography. Applied Sciences (Switzerland), 2022, 12, 2175.	1.3	5
79	Trend analysis using real time fault simulation for improved fault diagnosis. , 2007, , .		4
80	Gearbox Fault Detection Using Real Coded Genetic Algorithm and Novel Shock Response Spectrum Features Extraction. Journal of Nondestructive Evaluation, 2013, 33, 111.	1.1	4
81	Tuning of fault semantic network using Bayesian theory for probabilistic fault diagnosis in process industry., 2013,,.		4
82	Micro Grid stability enhancement using SVC with fuzzy model reference learning controller algorithm. , 2015, , .		4
83	Hierarchical safety control for micro energy grids using adaptive neuro-fuzzy decision making method., 2016,,.		4
84	Integrated modeling for optimized regional transportation with compressed natural gas fuel. AEJ - Alexandria Engineering Journal, 2016, 55, 533-545.	3.4	4
85	FSNâ€based cosimulation for fault propagation analysis in nuclear power plants. Process Safety Progress, 2016, 35, 53-60.	0.4	4
86	Enhanced MG with optimum operational cost of pumping water distribution systems. , 2017, , .		4
87	Modeling of Interconnected Infrastructures with Unified Interface Design toward Smart Cities. Energies, 2021, 14, 4572.	1.6	4
88	Design of Fast Charging Station with Energy Management for eBuses. Vehicles, 2021, 3, 807-820.	1.7	4
89	FSN-based fault modeling in CANDU® stations. Annals of Nuclear Energy, 2014, 65, 325-337.	0.9	3
90	Application of principal component analysis for the diagnosis of neutron overpower system oscillations in CANDU reactors. Nuclear Engineering and Design, 2014, 270, 238-248.	0.8	3

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91	Application of Safety Instrumented System (SIS) approach in older nuclear power plants. Nuclear Engineering and Design, 2016, 301, 1-14.	0.8	3
92	Smart distribution system Volt/VAR control using the intelligence of smart transformer. , 2016, , .		3
93	Control Architecture of Resilient Interconnected Microgrids (RIMGs) for Railway Infrastructures. Energy Procedia, 2017, 141, 594-603.	1.8	3
94	Conceptual Design and Energy Analysis of Integrated Combined Cycle Gasification System. Sustainability, 2017, 9, 1474.	1.6	3
95	Stochastic uncertainty quantification for safety verification applications in nuclear power plants. Annals of Nuclear Energy, 2018, 113, 399-408.	0.9	3
96	Modeling of a Plasma-Based Waste Gasification System for Solid Waste Generated Onboard of Typical Cruiser Vessels Used as a Feedstock. Designs, 2020, 4, 33.	1.3	3
97	Energy—Water Nexus: Integration, Monitoring, KPIs Tools and Research Vision. Energies, 2020, 13, 6697.	1.6	3
98	Simulated testing algorithm for $\hat{A}\mu$ PMU full observation of unbalanced radial distribution grid. Electric Power Systems Research, 2021, 191, 106842.	2.1	3
99	Evaluation of renewable energy deployment scenarios for building energy management. AIMS Energy, 2016, 4, 742-761.	1.1	3
100	Conceptual Process Design, Energy and Economic Analysis of Solid Waste to Hydrocarbon Fuels via Thermochemical Processes. Processes, 2021, 9, 2149.	1.3	3
101	Modelling and simulation framework for pollution control of chemical processes. International Journal of Environment and Pollution, 2007, 29, 165.	0.2	2
102	Evaluation of thermal comfort and cooling performance of residential buildings in arid climates. , 2013, , .		2
103	Modeling, evaluation, and optimization of gas-power and energy supply scenarios. Frontiers in Energy, 2016, 10, 393-408.	1.2	2
104	Performance evaluation of a new signal processing system design to improve CANDU SDS1 trip response during large break LOCA events. Journal of Nuclear Science and Technology, 2016, 53, 1513-1520.	0.7	2
105	Bayesian-neuro-fuzzy network based online condition monitoring system for resilient micro energy grid using FPGA., 2017,,.		2
106	Design of Resilient Energy Storage Platform for Power Grid Substation. , 2018, , .		2
107	X-Pinch Plasma Generation Testing for Neutron Source Development and Nuclear Fusion. Energies, 2018, 11, 988.	1.6	2
108	Realization of MPPT of PMSG-Based Wind Turbines Using New MPPT Indices. , 2019, , .		2

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109	Resiliency Analysis of Hybrid Energy Systems within Interconnected Infrastructures. Energies, 2021, 14, 7499.	1.6	2
110	Demonstration of Resilient Microgrid with Real-Time Co-Simulation and Programmable Loads. Technologies, 2022, 10, 83.	3.0	2
111	Neurofuzzy-based learning algorithm for fault detection & amp; amp; simulation., 2007, , .		1
112	Non-destructive testing of machines to reduce maintenance time and cost. , 2012, , .		1
113	Fault semantic network for micro grid diagnosis and control. , 2012, , .		1
114	Risk-based microgrid design and protection & Demonstration at UOIT., 2012, , .		1
115	Detecting nonlinear interrelation patterns among process variables using genetic programming. Soft Computing, 2014, 18, 1283-1292.	2.1	1
116	CHP within smart micro energy grid: optimum operation with distributed energy resources. International Journal of Process Systems Engineering, 2015, 3, 268.	0.2	1
117	Co-simulation for real time safety verification of nuclear power plants. Mechanical Engineering Journal, 2017, 4, 15-00532-15-00532.	0.2	1
118	RF-assisted DC single beam plasma generation for multi-beam nuclear fusion. Ain Shams Engineering Journal, 2018, 9, 1745-1751.	3.5	1
119	Resilient Interconnected Microgrids for Subway Networks. , 2018, , .		1
120	Wireless Flywheel-Based Fast Charging Station (WFFCS)., 2018,,.		1
121	An Approach for Energy Conservation Management Systems in Buildings. , 2018, , .		1
122	Enhanced Nature-Inspired Meta-Heuristic Algorithm for Microgrid Performance Improvement. Electric Power Components and Systems, 2020, 48, 459-470.	1.0	1
123	Fractional PID Controller Tuning Using Krill Herd for Renewable Power Systems Control. , 2021, , .		1
124	BBN-Based Reasoning Approach for Safety Verification Using FSN. Journal of Chemical Engineering of Japan, 2015, 48, 684-689.	0.3	1
125	Safety design of next generation SUI of CANDU stations. Nuclear Engineering and Design, 2013, 254, 53-66.	0.8	0
126	Research on multi-data sources data center architecture at UOIT., 2013,,.		0

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127	Optimal planned scheduling of distributed generators in microgrids. , 2015, , .		0
128	Signal processing system design for improved shutdown system of CANDU® nuclear reactors in large break LOCA events. Nuclear Engineering and Design, 2016, 298, 255-263.	0.8	0
129	Safety design of Experimental Plasma Generation Systems. Journal of Loss Prevention in the Process Industries, 2017, 47, 140-150.	1.7	0
130	Anomaly Detection in a Reactor Coolant Pump Flywheel System via Pulse Shape Analysis. Journal of Failure Analysis and Prevention, 2017, 17, 1174-1181.	0.5	0
131	Comparative analyses of scheduling scenarios to facilitate optimal operation of interconnected micro energy grids., 2017,,.		0
132	Short report on the potential of energy recovery from plastic wastes in Tehran. , 2017, , .		0
133	Demonstration of Advanced Electric Wheel and Integrated Test Platform. , 2019, , .		0
134	Approximate Power Loss Minimization in Radial Distribution Networks Using the Feeder Reconfiguration. , 2020, , .		0
135	Development of Knowledge Base Using Human Experience Semantic Network for Instructive Texts. Applied Sciences (Switzerland), 2021, 11, 8072.	1.3	0
136	PLL wrap function for synchronization in phase jump disturbances. Ingenieria E Investigacion, 2021, 41, e84955.	0.2	0
137	ICONE23-1952 Co-Simulation for Real Time Safety Verification of Nuclear Power Plants. The Proceedings of the International Conference on Nuclear Engineering (ICONE), 2015, 2015.23, _ICONE23-1ICONE23-1.	0.0	0
138	Financial and technical planning of decarbonized hybrid energy systems for modern cities. , 2022, , 399-414.		0