

Ahmed N Abdalla

List of Publications by Year in descending order

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97
papers

2,063
citations

279798

23
h-index

265206

42
g-index

98
all docs

98
docs citations

98
times ranked

1779
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Image Watermarking Theories and Techniques: A Review. Journal of Applied Research and Technology, 2014, 12, 122-138.	0.9	147
2	Secured Data Collection With Hardware-Based Ciphers for IoT-Based Healthcare. IEEE Internet of Things Journal, 2019, 6, 410-420.	8.7	135
3	Solar irradiance measurement instrumentation and power solar generation forecasting based on Artificial Neural Networks (ANN): A review of five years research trend. Science of the Total Environment, 2020, 715, 136848.	8.0	113
4	Integration of energy storage system and renewable energy sources based on artificial intelligence: An overview. Journal of Energy Storage, 2021, 40, 102811.	8.1	110
5	A comprehensive review on the exergy analysis of combined cycle power plants. Renewable and Sustainable Energy Reviews, 2018, 90, 835-850.	16.4	91
6	Challenges in improving the performance of eddy current testing: Review. Measurement and Control, 2019, 52, 46-64.	1.8	90
7	The optimum performance of the combined cycle power plant: A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 79, 459-474.	16.4	83
8	A wavelet-based particle swarm optimization algorithm for digital image watermarking. Integrated Computer-Aided Engineering, 2012, 19, 81-91.	4.6	82
9	Giant Magnetoresistance Sensors: A Review on Structures and Non-Destructive Eddy Current Testing Applications. Sensors, 2016, 16, 298.	3.8	73
10	Prediction of small hydropower plant power production in Himreen Lake dam (HLD) using artificial neural network. AEJ - Alexandria Engineering Journal, 2018, 57, 211-221.	6.4	70
11	Experimental study on the effect of perforations shapes on vertical heated fins performance under forced convection heat transfer. International Journal of Heat and Mass Transfer, 2018, 118, 832-846.	4.8	68
12	Computational techniques for assessing the reliability and sustainability of electrical power systems: A review. Renewable and Sustainable Energy Reviews, 2017, 80, 1175-1186.	16.4	55
13	An Eddy Current Testing Platform System for Pipe Defect Inspection Based on an Optimized Eddy Current Technique Probe Design. Sensors, 2017, 17, 579.	3.8	53
14	Gas Turbine Configuration for Improving the performance of Combined Cycle Power Plant. Procedia Engineering, 2011, 15, 4216-4223.	1.2	51
15	Advanced Wind Speed Prediction Model Based on a Combination of Weibull Distribution and an Artificial Neural Network. Energies, 2017, 10, 1744.	3.1	47
16	Prediction of emissions and performance of a gasoline engine running with fusel oil "gasoline blends using response surface methodology. Fuel, 2019, 253, 1-14.	6.4	45
17	Review on system development in eddy current testing and technique for defect classification and characterization. IET Circuits, Devices and Systems, 2017, 11, 338-351.	1.4	40
18	Optimal placement and sizing of distributed generators based on a novel MPSI index. International Journal of Electrical Power and Energy Systems, 2014, 60, 389-398.	5.5	39

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19	Experimental and numerical investigation of heat transfer augmentation in heat sinks using perforation technique. <i>Applied Thermal Engineering</i> , 2019, 160, 113974.	6.0	39
20	A New Efficient Step-Up Boost Converter with CLD Cell for Electric Vehicle and New Energy Systems. <i>Energies</i> , 2020, 13, 1791.	3.1	33
21	Efficacy and safety of desloratadine combined with dipyrindamole in the treatment of chronic urticaria. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2008, 22, 487-492.	2.4	30
22	Detrended fluctuation analysis as a statistical method to study ion single channel signal. <i>Cell Biology International</i> , 2008, 32, 247-252.	3.0	29
23	Evaluating the managerial behavior of managing knowledge in Chinese SMEs. <i>Information Technology and Management</i> , 2013, 14, 159-165.	2.4	27
24	Subsurface Defects Evaluation using Eddy Current Testing. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.7	26
25	Wavelet analysis of an SI engine cycle-to-cycle variations fuelled with the blending of gasoline -fusel oil at a various water content. <i>Energy Conversion and Management</i> , 2019, 183, 746-752.	9.2	24
26	Garra Rufaâ€inspired optimization technique. <i>International Journal of Intelligent Systems</i> , 2020, 35, 1831-1856.	5.7	23
27	Comparison of Small-Scale Wind Energy Conversion Systems: Economic Indexes. <i>Clean Technologies</i> , 2020, 2, 144-155.	4.2	20
28	Wind Energy Generation Assessment at Specific Sites in a Peninsula in Malaysia Based on Reliability Indices. <i>Processes</i> , 2019, 7, 399.	2.8	19
29	Modified Direct Torque Control using Algorithm Control of Stator Flux Estimation and Space Vector Modulation Based on Fuzzy Logic Control for Achieving High Performance from Induction Motors. <i>Journal of Power Electronics</i> , 2013, 13, 369-380.	1.5	19
30	A Novel Eddy Current Testing Error Compensation Technique Based on Mamdani-Type Fuzzy Coupled Differential and Absolute Probes. <i>Sensors</i> , 2018, 18, 2108.	3.8	18
31	Metaheuristic searching genetic algorithm based reliability assessment of hybrid power generation system. <i>Energy Exploration and Exploitation</i> , 2021, 39, 488-501.	2.3	18
32	Design and Finite Element Analysis of Piezoresistive Cantilever with Stress Concentration Holes. , 2007, , .		17
33	The robustness assessment of doubly fed induction generator-wind turbine during short circuit. <i>Energy and Environment</i> , 2020, 31, 570-582.	4.6	17
34	Improving the Performance of Doubly Fed Induction Generator Using Fault Tolerant Controlâ€A Hierarchical Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 924.	2.5	17
35	Air cooling techniques and corresponding impacts on combined cycle power plant (CCPP) performance: A review. <i>International Journal of Refrigeration</i> , 2020, 120, 161-177.	3.4	16
36	An Energy Storage Assessment: Using Frequency Modulation Approach to Capture Optimal Coordination. <i>Sustainability</i> , 2022, 14, 8510.	3.2	16

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37	DTC-SVM Based on PI Torque and PI Flux Controllers to Achieve High Performance of Induction Motor. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 875-891.	0.1	15
38	Deceptive jamming suppression in multistatic radar based on coherent clustering. Journal of Systems Engineering and Electronics, 2018, 29, 269-277.	2.2	15
39	Adaptive Neuro-Fuzzy Inference System Model Based on the Width and Depth of the Defect in an Eddy Current Signal. Applied Sciences (Switzerland), 2017, 7, 668.	2.5	13
40	Study on improving electric vehicle drive range using solar energy. , 2011, , .		12
41	A new parameters identification of single area power system based LFC using Segmentation Particle Swarm Optimization (SePSO) algorithm. , 2013, , .		12
42	Reliability Assessment of Power Generation Systems Using Intelligent Search Based on Disparity Theory. Energies, 2017, 10, 343.	3.1	12
43	Performance and emissions of gasoline blended with fusel oil that a potential using as an octane enhancer. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 931-947.	2.3	12
44	Hybrid GMR/IR probe to reduce the effects of lift-off. Measurement and Control, 2019, 52, 588-598.	1.8	11
45	An Investigation of Scaled-FLC Using PSO for Multi-area Power System Load Frequency Control. Energy and Power Engineering, 2013, 05, 458-462.	0.8	11
46	A Novel Database System Model Design for Tender Management System. Journal of Computer Science, 2008, 4, 463-466.	0.6	10
47	Advance Two-Area Load Frequency Control Using Particle Swarm Optimization Scaled Fuzzy Logic. Advanced Materials Research, 0, 622-623, 80-85.	0.3	8
48	Advanced Control of Hybrid-PLC System. Procedia Engineering, 2012, 38, 218-225.	1.2	8
49	Reliability Assessment of Generating Systems with Wind Power Penetration via BPSO. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 1248.	0.4	8
50	Adaptive Speed Estimation of induction motor Based on Neural network Inverse Control. Procedia Engineering, 2011, 15, 4188-4193.	1.2	7
51	ECCM schemes in netted radar system based on temporal pulse diversity. Journal of Systems Engineering and Electronics, 2016, 27, 1001-1009.	2.2	7
52	Investigate of the Effect of Width Defect on Eddy Current Testing Signals under Different Materials. Indian Journal of Science and Technology, 2017, 10, .	0.7	7
53	Investigate the effect of lift-off on eddy current signal for carbon steel plate. MATEC Web of Conferences, 2018, 225, 06005.	0.2	7
54	Efficient Topology for DC-DC Boost Converter Based on Charge Pump Capacitor for Renewable Energy System. International Journal of Photoenergy, 2021, 2021, 1-13.	2.5	7

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55	Harmonics mitigation for Supercapacitor and Active Power Filter based Double Closed Loop Control. International Journal of Electronics, 2021, 108, 1803-1820.	1.4	7
56	Cryogenic-Energy-Storage-Based Optimized Green Growth of an Integrated and Sustainable Energy System. Sustainability, 2022, 14, 5301.	3.2	7
57	Prediction of Vehicle Fuel Consumption Model Based on Artificial Neural Network. Applied Mechanics and Materials, 2014, 492, 3-6.	0.2	6
58	Visual Object Tracking in RGB-D Data via Genetic Feature Learning. Complexity, 2019, 2019, 1-8.	1.6	6
59	Effect of swirl at intake manifold on engine performance using ethanol fuel blend. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 73-88.	2.3	6
60	Prediction of queuing length at metering roundabout using adaptive neuro fuzzy inference system. Measurement and Control, 2019, 52, 432-440.	1.8	5
61	Design of CHWHG Type Low Frequency Magnetic Fields Generator. Journal of Computer Science, 2007, 3, 81-83.	0.6	5
62	Construct Coil Probe Using GMR Sensor for Eddy Current Testing. MATEC Web of Conferences, 2018, 225, 02021.	0.2	4
63	Effect of Crack on Bending Process for S55c Carbon Steel with Ultrasonic Testing on Zero Degree Probes. Journal of Physics: Conference Series, 2020, 1532, 012027.	0.4	4
64	The Application of Agent Technology on the Power Flow of Iraqi Supper Grid Network. American Journal of Applied Sciences, 2006, 3, 2174-2177.	0.2	4
65	Improved Close Loop Stator Flux Estimation of Direct Torque Control Drive. Procedia Engineering, 2012, 38, 572-577.	1.2	3
66	Design and develop automatic battery cyclic tester. , 2013, , .		3
67	Effect of Wind Energy Unit Availability on Power System Adequacy. Indian Journal of Science and Technology, 2016, 9, .	0.7	3
68	A Ripple Minimization Strategy For Matrix Converter Using Hybrid PSO. Procedia Engineering, 2012, 38, 111-124.	1.2	2
69	Radial Basis Function Neural Network Model for Optimizing Thermal Annealing Process Operating Condition. Nano Hybrids, 2013, 4, 21-31.	0.3	2
70	Long Range Ultrasonic Testing System Based on Lamb Wave Method for Validation an Optimized Piezoelectric Sensor Gap Array. Lecture Notes in Electrical Engineering, 2021, , 205-217.	0.4	2
71	Managing Registration of New Student Intake using ORNSIS-Integrated Barcode Technology. Procedia, Social and Behavioral Sciences, 2011, 28, 144-150.	0.5	1
72	Design MIMO Switch Architecture Based IEC 61850 Standard of Substation Automation Systems. Research Journal of Applied Sciences, Engineering and Technology, 2015, 10, 401-407.	0.1	1

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73	Joint clipping and amplifying techniques for PAPR reduction in OFDM systems. , 2015, , .		1
74	Differential Evolution Optimization Algorithm Based on Generation Systems Reliability Assessment Integrated with Wind Energy. , 2019, , .		1
75	Implementation of Adaptive Neuro-fuzzy Model to Optimize Operational Process of Multiconfiguration Gas-Turbines. Advances in High Energy Physics, 2020, 2020, 1-17.	1.1	1
76	Improving the performance of silicon solar cell by optimizing metallization. Measurement and Control, 2020, 53, 742-747.	1.8	1
77	Investigation the effect of heat treatment on brass defect measurement using Eddy Current Testing. Journal of Physics: Conference Series, 2021, 1874, 012060.	0.4	1
78	Neural Network Prediction of Electromagnetic Field Strength in Hybrid Micro-Grid System. International Journal of Soft Computing, 2010, 5, 62-66.	0.4	1
79	Simulation Model of Brushless Excitation System. Journal of Applied Sciences, 2007, 7, 1186-1190.	0.3	1
80	Graph Partitioning applied to Fault Location in power transmission Lines. Journal of Applied Sciences, 2007, 7, 2327-2332.	0.3	1
81	Assessment of loading phase change material into net meter building to boost excess electricity generation. Journal of Building Engineering, 2022, 52, 104386.	3.4	1
82	Design of smart energy level controller for UMP buildings. , 2011, , .		0
83	Sophisticated Educational Software for Dentistry Students using Dental Measurement System (DEMS). Procedia, Social and Behavioral Sciences, 2011, 28, 133-138.	0.5	0
84	Optimization of Hot Wire Mass Airflow Sensor by Using Fuzzy Logic Controller. Procedia Engineering, 2012, 38, 226-237.	1.2	0
85	An Optimized 2.4GHz RF Power Amplifier Performance for WLAN System. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012117.	0.3	0
86	Response Surface Method in-cooperating embedded system for bus route optimization. , 2013, , .		0
87	An investigation of the coefficient of variation using voltage clamps techniques. International Journal of Basic and Applied Sciences, 2015, 4, 364-370.	0.2	0
88	Peak-to-average power ratio reduction based on optimized phase shift technique. , 2017, , .		0
89	Neural-Fuzzy model Based Steel Pipeline Multiple Cracks Classification. Journal of Physics: Conference Series, 2017, 914, 012018.	0.4	0
90	Development of Neuron Ion Channel Model using Colored Noise Terms in the Conductance. Research Journal of Applied Sciences, Engineering and Technology, 2017, 14, 262-270.	0.1	0

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91	The Solution to Linear Variation Inequality by Evolution Strategies. Journal of Applied Sciences, 2007, 7, 1181-1185.	0.3	0
92	Winner-Take-All Neural Network with Massively Optoelectronic Interconnections. American Journal of Applied Sciences, 2009, 6, 268-272.	0.2	0
93	Optimization Health Care Resources in Sensor Network Using Fuzzy Logic Controller. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 595-604.	0.7	0
94	Overview Between Clustering and Load Balancing. Advanced Science Letters, 2017, 23, 11109-11113.	0.2	0
95	The Contribution of Wind Energy Capacity on Generation Systems Adequacy Reliability using Differential Evolution Optimization Algorithm. Advances in Science, Technology and Engineering Systems, 2020, 5, 331-340.	0.5	0
96	Clinical Decision Support System Based on KNN/Ontology Extraction Method. , 2020, , .		0
97	An adaptive filtering algorithm in pulse-Doppler radar for counteracting range-velocity jamming. International Journal of Electronics, 0, , 1-19.	1.4	0