

# Mohit Bajaj

## List of Publications by Year in descending order

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95  
papers

1,495  
citations

393982

19  
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433756

31  
g-index

98  
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98  
docs citations

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times ranked

494  
citing authors

#	ARTICLE	IF	CITATIONS
1	SMES and TCSC Coordinated Strategy for Multi-area Multi-source System with Water Cycle Algorithm Based 3DOF-PID Controller. <i>Smart Science</i> , 2023, 11, 1-15.	1.9	8
2	Design of Optimal Energy Management System in a Residential Microgrid Based on Smart Control. <i>Smart Science</i> , 2022, 10, 25-39.	1.9	36
3	Hybrid ROCOF Relay for Islanding Detection. <i>Journal of Electrical Engineering and Technology</i> , 2022, 17, 51-60.	1.2	9
4	Performance assessment of hybrid active filtering technique to enhance the hosting capacity of distorted grids for renewable energy systems. <i>International Journal of Energy Research</i> , 2022, 46, 2783-2809.	2.2	8
5	Design and analysis of optimal passive filters for increasing the harmonic-constrained hosting capacity of inverter-based DG systems in non-sinusoidal grids. <i>Electrical Engineering</i> , 2022, 104, 1883-1907.	1.2	9
6	Interconnection and damping assignment passivity-based non-linear observer control for efficiency maximization of permanent magnet synchronous motor. <i>Energy Reports</i> , 2022, 8, 1350-1361.	2.5	8
7	Feasibility of Solar Grid-Based Industrial Virtual Power Plant for Optimal Energy Scheduling: A Case of Indian Power Sector. <i>Energies</i> , 2022, 15, 752.	1.6	14
8	Optimal design of passive power filter for enhancing the harmonic-constrained hosting capacity of renewable DG systems. <i>Computers and Electrical Engineering</i> , 2022, 97, 107646.	3.0	19
9	Comparative Performance Assessment of Different Energy Storage Devices in Combined LFC and AVR Analysis of Multi-Area Power System. <i>Energies</i> , 2022, 15, 629.	1.6	34
10	Implementation of Islanding Recognizing Technique for Wind Distributed Generations Considering Insignificant NDZ. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	5
11	Modeling and sensitivity analysis of grid-connected hybrid green microgrid system. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101679.	3.5	38
12	Robust interconnection and damping assignment energy-based control for a permanent magnet synchronous motor using high order sliding mode approach and nonlinear observer. <i>Energy Reports</i> , 2022, 8, 1731-1740.	2.5	29
13	Water-Cycle-Algorithm-Tuned Intelligent Fuzzy Controller for Stability of Multi-Area Multi-Fuel Power System with Time Delays. <i>Mathematics</i> , 2022, 10, 508.	1.1	17
14	Improving the Sharing of Active and Reactive Power of the Islanded Microgrid Based on Load Voltage Control. <i>Smart Science</i> , 2022, 10, 142-157.	1.9	15
15	Biogeography-Based Optimization for Power Quality Improvement in HRES System. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 309-316.	0.3	4
16	Calculation of Capacitive-Based Sensors of Rotating Shaft Vibration for Fault Diagnostic Systems of Powerful Generators. <i>Sensors</i> , 2022, 22, 1634.	2.1	14
17	Increasing renewable energy penetration in harmonically polluted distribution grids using passive filtering: a comparative assessment of common filter types. <i>Electrical Engineering</i> , 2022, 104, 2979-3005.	1.2	6
18	Investigation and Field Measurements for Demand Side Management Control Technique of Smart Air Conditioners located at Residential, Commercial, and Industrial Sites. <i>Energies</i> , 2022, 15, 2482.	1.6	4

#	ARTICLE	IF	CITATIONS
19	A Topological Advancement Review of Magnetically Coupled Impedance Source Network Configurations. Sustainability, 2022, 14, 3123.	1.6	6
20	Faulted Section Identification and Fault Location in Power Network Based on Histogram Analysis of Three-phase Current and Voltage Modulated. Journal of Electrical Engineering and Technology, 2022, 17, 2631-2647.	1.2	7
21	Placement and optimal size of DG in the distribution network based on nodal pricing reduction with nonlinear load model using the IABC algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, 1.	0.8	6
22	Mitigation of Circulating Bearing Current in Induction Motor Drive Using Modified ANN Based MRAS for Traction Application. Mathematics, 2022, 10, 1220.	1.1	4
23	Effect of cryogenic treatment on drill tool for enhancing metal cutting operation of aluminium alloy IS737.Gr19000. Journal of Materials Research and Technology, 2022, 18, 1488-1501.	2.6	3
24	Residential Demand Side Management model, optimization and future perspective: A review. Energy Reports, 2022, 8, 3727-3766.	2.5	68
25	Prospects of biogas and evaluation of unseen livestock based resource potential as distributed generation in India. Ain Shams Engineering Journal, 2022, 13, 101657.	3.5	12
26	Reliability Analysis of Bifacial PV Panel-Based Inverters Considering the Effect of Geographical Location. Energies, 2022, 15, 170.	1.6	8
27	Passivity-Based Control of Tidal Turbine Based PMSG Using Interconnection and Damping Assignment Approach. Lecture Notes in Electrical Engineering, 2022, , 505-514.	0.3	3
28	Automatic Speech Recognition (ASR) Systems for Children: A Systematic Literature Review. Applied Sciences (Switzerland), 2022, 12, 4419.	1.3	20
29	Match-Level Fusion of Finger-Knuckle Print and Iris for Human Identity Validation Using Neuro-Fuzzy Classifier. Sensors, 2022, 22, 3620.	2.1	5
30	A hybrid machine learning technique for feature optimization in object-based classification of debris-covered glaciers. Ain Shams Engineering Journal, 2022, 13, 101809.	3.5	8
31	Analysis of Power Quality issues of different types of household applications. Energy Reports, 2022, 8, 5370-5386.	2.5	14
32	A Hybrid Approach for an Efficient Estimation and Control of Permanent Magnet Synchronous Motor with Fast Dynamics and Practically Unavailable Measurements. Applied Sciences (Switzerland), 2022, 12, 4958.	1.3	5
33	Generalized regression neural network and fitness dependent optimization: Application to energy harvesting of centralized TEG systems. Energy Reports, 2022, 8, 6332-6346.	2.5	4
34	New direct reactive power control based fuzzy and modulated hysteresis method for micro-grid applications under real wind speed. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 4862-4887.	1.2	6
35	Financial Hazard Assessment for Electricity Suppliers Due to Power Outages: The Revenue Loss Perspective. Energies, 2022, 15, 4327.	1.6	3
36	Improved Deep Neural Network (IDNN) with SMO Algorithm for Enhancement of Third Zone Distance Relay under Power Swing Condition. Mathematics, 2022, 10, 1944.	1.1	2

#	ARTICLE	IF	CITATIONS
37	Optimal BLDC Motor Control Using a WOA-based LQR Strategy. , 2022, , .		1
38	Propitious Step for CO <sub>2</sub> Mitigation in University Campus boosting Clean Development Mechanism. , 2022, , .		1
39	Performance Investigation of Innovative Induction Motor Strategy Using Magnet for Traction Application. International Transactions on Electrical Energy Systems, 2022, 2022, 1-15.	1.2	0
40	Brushless Wound Rotor Synchronous Machine Based on a Consequent-Pole Rotor Structure with Better Torque Attributes. International Transactions on Electrical Energy Systems, 2022, 2022, 1-12.	1.2	1
41	Optimal sizing and cost assessment of off grid connected hybrid microgrid system. , 2022, , .		6
42	Capacitor voltage control of PV based quasi-z-source inverter. , 2022, , .		3
43	Load Frequency Control of Multi-Area Power System with Integration of SMES and Plug-In Electric Vehicles. , 2022, , .		2
44	Optimal sizing of hybrid Systems for Power loss Reduction and Voltage improvement using PSO algorithm: Case study of Guissia Rural Grid. Energy Reports, 2022, 8, 86-95.	2.5	25
45	Influence of Artificial and Natural Cooling on Performance Parameters of a Solar PV System: A Case Study. IEEE Access, 2021, 9, 29449-29457.	2.6	13
46	Increasing Electric Vehicle Autonomy Using a Photovoltaic System Controlled by Particle Swarm Optimization. IEEE Access, 2021, 9, 72040-72054.	2.6	33
47	Hybrid Local-Global Optimum Search Using Particle Swarm Gravitation Search Algorithm (HLGOS-PSGSA) for Waveguide Selection. IEEE Access, 2021, 9, 127866-127882.	2.6	3
48	Electric Vehicle Model Based on Multiple Recharge System and a Particular Traction Motor Conception. IEEE Access, 2021, 9, 49308-49324.	2.6	17
49	Correction to "Optimal Design of Passive Power Filter Using Multi-Objective Pareto-Based Firefly Algorithm and Analysis Under Background and Load-Side's Nonlinearity" IEEE Access, 2021, 9, 45399-45399.	2.6	0
50	A Lyapunov-Function Based Controller for 3-Phase Shunt Active Power Filter and Performance Assessment Considering Different System Scenarios. IEEE Access, 2021, 9, 66079-66102.	2.6	28
51	Optimal Design of Passive Power Filter Using Multi-Objective Pareto-Based Firefly Algorithm and Analysis Under Background and Load-Side's Nonlinearity. IEEE Access, 2021, 9, 22724-22744.	2.6	37
52	Hosting capacity enhancement of renewable-based distributed generation in harmonically polluted distribution systems using passive harmonic filtering. Sustainable Energy Technologies and Assessments, 2021, 44, 101030.	1.7	38
53	Optimized Economic Operation of Microgrid: Combined Cooling and Heating Power and Hybrid Energy Storage Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	27
54	A single index for voltage quality ranking in the distribution power networks using multiple criteria decision-making. International Transactions on Electrical Energy Systems, 2021, 31, e12965.	1.2	6

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55	The Impact of Coil Position and Number on Wireless System Performance for Electric Vehicle Recharging. <i>Sensors</i> , 2021, 21, 4343.	2.1	10
56	Enhanced Direct Reactive Power Control-Based Multi-Level Inverter for DFIG Wind System under Variable Speeds. <i>Sustainability</i> , 2021, 13, 9060.	1.6	21
57	Water Cycle Algorithm Optimized Type II Fuzzy Controller for Load Frequency Control of a Multi-Area, Multi-Fuel System with Communication Time Delays. <i>Energies</i> , 2021, 14, 5387.	1.6	27
58	Improving voltage profile and reducing power losses based on reconfiguration and optimal placement of UPQC in the network by considering system reliability indices. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e13120.	1.2	15
59	Multilevel Inverter: A Survey on Classical and Advanced Topologies, Control Schemes, Applications to Power System and Future Prospects. <i>Energies</i> , 2021, 14, 5773.	1.6	49
60	Power Quality Improvement Using Distributed Power Flow Controller with BWO-Based FOPID Controller. <i>Sustainability</i> , 2021, 13, 11194.	1.6	19
61	Hardware-in-the-Loop Implementation and Performance Evaluation of Three-Phase Hybrid Shunt Active Power Filter for Power Quality Improvement. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-23.	0.6	9
62	New intelligent direct power control of DFIG-based wind conversion system by using machine learning under variations of all operating and compensation modes. <i>Energy Reports</i> , 2021, 7, 6394-6412.	2.5	29
63	Decaying DC Offset Removal in Fault Current Signals of Digital Relays Based on LMSR Method. , 2021, , .		1
64	Performance Assessment of Lyapunov-Function based 3-Phase SAPF in Compensating Harmonics of Industrial Motor Drive. , 2021, , .		2
65	Determination of Technical Condition of the Power Transformer by Frequency Response Analysis Method. , 2021, , .		0
66	Method for Calculation Controlled Compensating Devices Parameters Extra High Voltage Power Lines. , 2021, , .		3
67	Simultaneous Competition Modeling of Generations and Consumers in the New Market Structure based on the Supply Function Equilibrium Model Systems. , 2021, , .		2
68	Novel Energy-Based Speed Control of Grid-Connecting PMSG Wind System. , 2021, , .		3
69	Falcon Optimizer based PID Controller for AGC of Dual Area Realistic System with AC-DC Links. , 2021, , .		3
70	A Comparative Study of Short Channel Effects in 3-D FinFET with High-K Gate Di-electric. , 2021, , .		0
71	AGC of Multi Area Multi Fuel System with Water Cycle Algorithm based 3DOF-PID Controller and Integration of PEVs. , 2021, , .		2
72	Grid integrated renewable DG systems: A review of power quality challenges and state-of-the-art mitigation techniques. <i>International Journal of Energy Research</i> , 2020, 44, 26-69.	2.2	186

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73	A Grid-connected Solar PV Module with Autonomous Power Management. , 2020, , .		17
74	Analysis of Electric Vehicle Charging Station Allocation in Deregulated Electric Power System. , 2020, , .		3
75	Power Quality Concerns with Integration of RESs into the Smart Power Grid and Associated Mitigation Techniques. , 2020, , .		25
76	Power Quality Assessment of Distorted Distribution Networks Incorporating Renewable Distributed Generation Systems Based on the Analytic Hierarchy Process. IEEE Access, 2020, 8, 145713-145737.	2.6	49
77	Designing of a Solar Energy based Single Phase Dynamic Voltage Restorer using Fuzzy Logic Controlled Novel Boost Inverter. , 2020, , .		21
78	An analytic hierarchy process-based novel approach for benchmarking the power quality performance of grid-integrated renewable energy systems. Electrical Engineering, 2020, 102, 1153-1173.	1.2	49
79	Design and Simulation of Hybrid DG System Fed Single-Phase Dynamic Voltage Restorer for Smart Grid Application. Smart Science, 2020, 8, 24-38.	1.9	28
80	A Streamlined Approach for Assessing the Power Quality in Renewable Energy Systems. , 2020, , .		7
81	An MCDM-based approach for ranking the voltage quality in the distribution power networks. , 2020, , .		5
82	Power Quality Challenges Associated with Distributed Generation Planning: A Simulation-based Demonstration. , 2019, , .		21
83	Predictive TCAD of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) Solar Cells. , 2018, , .		0
84	Harmonics and Reactive Power Compensation of Three Phase Induction Motor Drive by Photovoltaic-based DSTATCOM. Smart Science, 2018, 6, 319-329.	1.9	22
85	Overview of ESP8266 Wi-Fi module based Smart Irrigation System using IOT. , 2018, , .		48
86	IOT based controlling of hybrid energy system using ESP8266. , 2018, , .		43
87	A comparative study of control techniques of distribution-STATCOM under abnormal source voltage. , 2016, , .		5
88	A comparative analysis of control techniques of SAPF under source side disturbance. , 2016, , .		11
89	An improved SRF based control algorithm for D-STATCOM under abnormal source voltage. , 2015, , .		9
90	A modified algorithm for time varying reactive power control and harmonics compensation by D-STATCOM. , 2015, , .		6

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91	An IRP based control algorithm for load compensation by DSTATCOM under polluted supply system. , 2015, , .		7
92	Performance Comparison of Control Algorithms for Load Compensation Using D-STATCOM under Abnormal Source Voltage. Journal of Automation and Control Engineering, 2014, 2, 54-58.	0.3	3
93	Optimal Power Flow Solution in Smart Grid Environment Using SVC and TCSC. , 0, , .		12
94	A global power quality index for assessment in distributed energy systems connected to a harmonically polluted network. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-27.	1.2	10
95	Seagull Optimization Algorithmâ€‘Based Fractional-Order Fuzzy Controller for LFC of Multi-Area Diverse Source System With Realistic Constraints. Frontiers in Energy Research, 0, 10, .	1.2	9