

# Bharat Singh Rajpurohit

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

604  
citations

932766

10  
h-index

794141

19  
g-index

82  
all docs

82  
docs citations

82  
times ranked

412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Planning and optimization of autonomous DC microgrids for rural and urban applications in India. Renewable and Sustainable Energy Reviews, 2018, 82, 194-204.	8.2	92
2	A review on economics of power quality: Impact, assessment and mitigation. Renewable and Sustainable Energy Reviews, 2018, 88, 363-372.	8.2	55
3	Review of fault modeling methods for permanent magnet synchronous motors and their comparison. , 2017, , .		40
4	Demand-Side Management System for Autonomous DC Microgrid for Building. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	1.8	29
5	Development of Fractional Order Modeling of Voltage Source Converters. IEEE Access, 2020, 8, 131750-131759.	2.6	29
6	Finite Element Modeling of Demagnetization Fault in Permanent Magnet Direct Current Motors. , 2018, , .		23
7	Comprehensive Analysis of Demagnetization Faults in BLDC Motors Using Novel Hybrid Electrical Equivalent Circuit and Numerical Based Approach. IEEE Access, 2019, 7, 147542-147552.	2.6	21
8	Speed control of a BLDC Motor using Fuzzy Logic Controller. , 2016, , .		20
9	A Novel Application of Pseudorandom-Based Technique for Acoustic Noise and Vibration Reduction of PMSM Drive. IEEE Transactions on Industry Applications, 2020, 56, 5511-5522.	3.3	18
10	A Novel Application of Harmonics Spread Spectrum Technique for Acoustic Noise and Vibration Reduction of PMSM Drive. IEEE Access, 2020, 8, 103273-103284.	2.6	18
11	Virtual Inertia from Renewable Energy Sources: Mathematical Representation and Control Strategy. , 2020, , .		17
12	Modeling and Classification of Stator Inter-Turn Fault and Demagnetization Effects in BLDC Motor Using Rotor Back-EMF and Radial Magnetic Flux Analysis. IEEE Access, 2020, 8, 118030-118049.	2.6	16
13	Intelligent Energy Management System for PV-Battery-based Microgrids in Future DC Homes. International Journal of Emerging Electric Power Systems, 2016, 17, 339-350.	0.6	14
14	Numerical and Experimental Analysis of Torsional Vibration and Acoustic Noise of PMSM Coupled With DC Generator. IEEE Transactions on Industrial Electronics, 2022, 69, 3345-3356.	5.2	13
15	A survey on active power filters control strategies. , 2014, , .		12
16	Stator Winding Faults investigation in Permanent Magnet Synchronous Motor using Motor Signatures: Part I. , 2019, , .		12
17	Battery charging topology, infrastructure, and standards for electric vehicle applications: A comprehensive review. IET Energy Systems Integration, 2021, 3, 381-396.	1.1	11
18	Smart multi-terminal DC $\hat{1}/4$ -grids for autonomous zero-net energy buildings: Implicit concepts. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
19	Real-time parameter estimation of single-phase transformer. , 2016, , .		8
20	Modeling and Analysis of Demagnetization Faults in BLDC Motor using Hybrid Analytical-Numerical Approach. , 2019, , .		8
21	Numerical Analysis of Stator Inter-turn Fault and Demagnetization effect on a BLDC Motor using Electromagnetic Signatures. , 2020, , .		8
22	Time-Efficient Fault Diagnosis of a BLDC Motor Drive Deployed in Electric Vehicle Applications. , 2020, , .		8
23	Estimation of Rotor and Stator Resistance for Induction Motor Drives using Second order of Sliding Mode Controller. Journal of Engineering Science and Technology Review, 2017, 10, 9-15.	0.2	8
24	Smart DC Grid for Autonomous Zero Net Electric Energy of Cluster of Buildings. IFAC-PapersOnLine, 2015, 48, 108-113.	0.5	7
25	Sign Regressor LMS Algorithm Based Adaptive Control Algorithm for Multi-objective Solar PV Generator System Connected to Grid. , 2020, , .		7
26	Efficient energy management measures in steel industry for economic utilization. Energy Reports, 2016, 2, 267-273.	2.5	6
27	Affine projection sign algorithm based control for mitigation of distribution side power quality problems. Energy Conversion and Economics, 2021, 2, 79-90.	1.9	6
28	Design and Control of a BLDC Motor drive using Hybrid Modeling Technique and FPGA based Hysteresis Current Controller. , 2020, , .		5
29	A Novel Application of Random Hysteresis Current Control: Acoustic Noise and Vibration Reduction of a Permanent Magnet Synchronous Motor Drive. IEEE Industry Applications Magazine, 2022, 28, 27-39.	0.3	5
30	Performance Evaluation of Current Control Algorithms Used for Active Power Filters. , 2007, , .		4
31	Electric Grid Connection and System Operational Aspect of Wind Power Generation. Green Energy and Technology, 2012, , 267-293.	0.4	4
32	Performance comparisons of grid connected SPV system with different MPPT algorithms. International Journal of Renewable Energy Technology, 2015, 6, 84.	0.2	4
33	A review of modeling, analysis and control methods of Brushless DCMotors. , 2016, , .		4
34	Finite Element Modeling of Stator Winding Faults in Permanent Magnet Synchronous Motor: Part II. , 2019, , .		4
35	Fault Diagnosis of BLDC Motor Drive using Vibration Spectrum Analysis: Part II. , 2020, , .		4
36	Data Analytics Based Power Quality Investigations in Emerging Electric Power System Using Sparse Decomposition. IEEE Transactions on Power Delivery, 2022, 37, 4838-4847.	2.9	4

#	ARTICLE	IF	CITATIONS
37	Optimal structure of a Smart DC micro-grid for a cluster of zero net energy buildings. , 2016, , .		3
38	Induction Machine Drive Design for Enhanced Torque Profile. IEEE Transactions on Industry Applications, 2018, 54, 1283-1291.	3.3	3
39	Energy Management by Role of Energy-Efficient Machines and Rescheduling of Transformer Load in Steel Rolling Mill: A Case Study. Journal of the Institution of Engineers (India): Series B, 2019, 100, 277-284.	1.3	3
40	Detection and Identification of Stator Inter-turn Faults and Demagnetization effects in Hybrid Analytical-Numerical model of a BLDC Motor using Electromagnetic Signatures. , 2020, , .		3
41	Fault Detection Scheme for Grid-connected PV based Multi-terminal DC Microgrid. , 2020, , .		3
42	Rotor Position Sensorless Technique using High-Speed Sliding Mode Observer for PMSM Drive. , 2021, , .		3
43	Performance evaluation of shunt active power filter control strategies under different supply conditions. , 2014, , .		2
44	DG Integration with Power Quality Improvement Feature for Smart Grid. Advances in Intelligent Systems and Computing, 2016, , 901-913.	0.5	2
45	Design and development of efficient induction machine drive for reduced torque pulsations. , 2016, , .		2
46	Design and comparison analysis of speed controllers for PMSM. , 2017, , .		2
47	Condition monitoring and severity estimation of rotor demagnetisation fault using magnetic flux measurement data. IET Energy Systems Integration, 2021, 3, 437-450.	1.1	2
48	Revampment of surface permanent magnet synchronous motor design for ameliorated torque profile in eâ€mobility applications. IET Electrical Systems in Transportation, 2021, 11, 99-108.	1.5	2
49	Superimposed Component based Fault Detection Scheme for Multi-port DC Microgrid. , 2020, , .		2
50	State of Health Estimation of Battery Charging System and BLDC Motor Drive deployed in Electric Vehicle Applications. , 2021, , .		2
51	Characteristic Analysis of Partial Demagnetization Faults in Surface Mounted BLDC Motors. , 2020, , .		2
52	Generation cost and loss power minimization in intentional islanded networks based on BPSO. , 2014, , .		1
53	Enhancing performance of APF by fuzzy controller. , 2014, , .		1
54	Protection and energy management of zero net electric energy clusters of buildings. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
55	Numerical Analysis of Water drop on Silicone Rubber Insulator for High Voltage Power Transmission Line. , 2018, , .		1
56	Real-time FuzzyLogic Based Power Quality Analysis of Hybrid microgrid System. , 2018, , .		1
57	Power Management of Multi-level Renewable-Grid Integrated Hybrid Energy Harvesting System using Model Predictive Approach. , 2018, , .		1
58	Numerical Investigation of Particle Effect on Water Drop Under High Voltage Silicone Rubber Insulator. , 2019, , .		1
59	An Experimental Investigation of Electrical Clearance in Air for Overhead Traction System. IEEE Access, 2020, 8, 105766-105774.	2.6	1
60	Harmonic Analysis of a BLDC Motor Under Demagnetization Fault Conditions. , 2020, , .		1
61	Condition monitoring of a surface mounted permanent magnetâ€”type brushless direct current motor using remodelling of rotor magnetic field and stator winding inductance. IET Electrical Systems in Transportation, 2021, 11, 81-98.	1.5	1
62	Broken Magnet Fault detection for a BLDC Motor Drive using Magnetic Flux Signatures adopting Hybrid/Co-Simulation-based Techniques. , 2021, , .		1
63	Vibration Analysis of Brushless Permanent Magnet Motor using Numerical Methods: Part I. , 2020, , .		1
64	Islanding detection technique for multi-port grid-integrated DC microgrid based on superimposed components. , 2020, , .		1
65	Application of Fractional Calculus in Voltage Source Converters. , 2021, , .		1
66	Development of an online condition monitoring based system for the partial demagnetization fault diagnosis of SPMâ€”type BLDC motor. Energy Conversion and Economics, 2022, 3, 72-84.	1.9	1
67	Generation cost and loss power minimization in intentional islanded networks based on BPSO. , 2014, , .		0
68	Investigation of Water Drop on Silicone Rubber Insulator for High Voltage Transmission Line Using FEM. , 2018, , .		0
69	Minimization in the price of electricity bills of consumers using MILP. , 2018, , .		0
70	Model Predictive Control for Three Level Neutral Point Clamped Inverter With Reduced Numbers of Switching State Combinations. , 2019, , .		0
71	Numerical Analysis on Factors Affecting Hydrophobicity and Icephobicity of the High Voltage Insulator. , 2020, , .		0
72	Investigation of Factors Affecting Nano-dielectric Strength under High Voltage Stress using Finite Element Method. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Water Purification and Biomineralization using Nanofibres-Based Membrane Technology. Current Science, 2021, 120, 809.	0.4	0
74	Modeling and Analysis of Stator Inter-turn Faults in a BLDC Motor Using Hybrid Analytical-Numerical Approach. Lecture Notes in Electrical Engineering, 2020, , 273-284.	0.3	0
75	Current Slope Detection Technique for Estimation of Rotor Position of PMSM Drive. , 2020, , .		0
76	An Experimental Investigation of Acoustic Noise and Vibration of PMSM Induced by Power Electronics Converters. Electric Power Components and Systems, 2020, 48, 2005-2018.	1.0	0
77	Investigation on Fractional Order Controller Using Ball-and-Beam System. , 2021, , .		0
78	Condition Monitoring of Electric Vehicle Drives deployed in Rural Electric Transportation. , 2021, , .		0
79	Effect of Stator Fault Currents on Rotor Permanent Magnets for a SPM-type BLDC Motor. , 2020, , .		0
80	Capabilities and incapacibilities of unity power factor control algorithm for DSTATCOM under abnormal grid and load conditions. International Journal of Power Electronics, 2022, 15, 55.	0.1	0
81	Experimental analysis of fractional order PI $\lambda$ D $\lambda/4$ controller for improvement of power quality in smart grid environment. Energy Conversion and Economics, 0, , .	1.9	0