

# Raja Singh

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

630  
citations

1039406

9  
h-index

610482

24  
g-index

49  
all docs

49  
docs citations

49  
times ranked

297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards the future of smart electric vehicles: Digital twin technology. Renewable and Sustainable Energy Reviews, 2021, 141, 110801.	8.2	214
2	Power electronics in hydro electric energy systems â€œ A review. Renewable and Sustainable Energy Reviews, 2014, 32, 944-959.	8.2	77
3	Enforcement of cost-effective energy conservation on single-fed asynchronous machine using a novel switching strategy. Energy, 2017, 126, 179-191.	4.5	50
4	Torque ripple minimization of PMSM using an adaptive Elman neural networkâ€controlled feedback linearizationâ€based direct torque control strategy. International Transactions on Electrical Energy Systems, 2021, 31, .	1.2	49
5	IoT embedded cloud-based intelligent power quality monitoring system for industrial drive application. Future Generation Computer Systems, 2020, 112, 884-898.	4.9	46
6	Thermal Mapping of a High-Speed Electric Motor Used for Traction Applications and Analysis of Various Cooling Methodsâ€A Review. Energies, 2021, 14, 1472.	1.6	31
7	Review and experimental illustrations of electronic load controller used in standalone Micro-Hydro generating plants. Engineering Science and Technology, an International Journal, 2018, 21, 886-900.	2.0	21
8	Solar Energy Application in Indian Irrigation System. IOP Conference Series: Materials Science and Engineering, 2020, 937, 012016.	0.3	16
9	Water cooling, PSG, PCM, Cryogenic cooling strategies and thermal analysis (experimental and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Engineering Sciences, 2021, 46, 1.	0.8	12
10	Dynamic Performance of Doubly Fed Hydroelectric Machines Under Voltage Unbalanceâ€A Relative Electrothermomechanical Analysis. IEEE Transactions on Industry Applications, 2018, 54, 4156-4166.	3.3	7
11	Steady State Modeling and Performance Analysis of a Wind Turbine-Based Doubly Fed Induction Generator System with Rotor Control. Energies, 2022, 15, 3327.	1.6	7
12	Advancement of Inventive Solar Power Based Frameworks for Rural India. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012001.	0.3	6
13	Design of a Microgrid Architecture for Rental E-Bike Charging Stations. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012009.	0.3	6
14	Modeling and Simulation of Electric Motors Using Lightweight Materials. Energies, 2022, 15, 5183.	1.6	6
15	ANN deployed DTC for Enhanced Torque Performance on IM based EV Drive. , 2021, , .		5
16	An Energy-Efficient Start-Up Strategy for Large Variable Speed Hydro Pump Turbine Equipped with Doubly Fed Asynchronous Machine. Energies, 2022, 15, 3138.	1.6	5
17	Inter turn Fault Analysis on Wound Rotor Induction Machine. IOP Conference Series: Materials Science and Engineering, 2019, 623, 012016.	0.3	4
18	Impact of Voltage Variation on Hydroelectric Doubly Fed Machines â€œ An Electro-thermomechanical Investigation. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	Materials for lightweight electric motors – a review. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012020.	0.3	4
20	Design and implementation of Sun Tracking Solar Panel and Smart Wiping Mechanism using Tinkercad. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012030.	0.3	4
21	Microgrid-Based Sustainable E-Bike Charging Station. Advances in Mechatronics and Mechanical Engineering, 2021, , 144-167.	1.0	4
22	Sensorless Start-Up Control for BLDC Motor using Initial Position Detection Technique. , 2020, , .		4
23	Intelligent Fault Diagnosis Mechanism for Industrial Robot Actuators using Digital Twin Technology. , 2021, , .		4
24	Short Circuit and Open Circuit Fault Identification Strategy for 3-Level Neutral Point Clamped Inverter. , 2021, , .		4
25	Sensor Fault Detection using Machine Learning Technique for Automobile Drive Applications. , 2021, , .		4
26	Energy conservation on induction motors drives with immune control strategy using full spectrum simulator. , 2017, , .		3
27	Implementation of a DC Micro-grid for House Hold Applications. , 2018, , .		3
28	Implementation of FOC based speed control for an E-Rickshaw brushless DC drive. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012026.	0.3	3
29	Hardware-in-Loop-Based Reliability Improvement of Power Converter for Critical Electrical Drive Applications. Energy Systems in Electrical Engineering, 2022, , 275-294.	0.5	3
30	Enforcement of ELC using reduced dump load for micro hydropower plant with the interpretation of switching transients and vibrations. , 2015, , .		2
31	Performance of doubly fed machines influenced to electrical perturbation in pumped storage plant - a comparative electromechanical analysis. , 2016, , .		2
32	Energy saving start-up strategy of pumped storage power plant equipped with doubly-fed asynchronous machine. , 2016, , .		2
33	An IoT Based Home Automation System. IOP Conference Series: Materials Science and Engineering, 2019, 623, 012014.	0.3	2
34	Self-commissioning of induction motor drives-A critical review. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012003.	0.3	2
35	Energy Saving on Industrial Drive Technologies - Past, Present, and Future Perspective. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012005.	0.3	2
36	Energy Optimal Intelligent Switching Mechanism for Induction Motors with Time Varying Load. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012017.	0.3	2

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37	SMART WATER GRID: AN IoT FRAMEWORK. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012022.	0.3	2
38	Mitigation of switching effects on induction motor under star-delta scheme based energy conservation. , 2015, , .		1
39	An electro thermomechanical analysis of hydroelectric machines operated in condenser regime under single phasing fault and excitation failure. , 2016, , .		1
40	Energy saving strategy on electric propulsion system integrated with doubly fed asynchronous motors. , 2016, , .		1
41	Optimal energy switching strategy for doubly fed VSD using fuzzy " Decision control algorithm. , 2017, , .		1
42	Implementation of on-demand low rate wireless parameter monitoring system for industrial machineries.. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012019.	0.3	1
43	Dynamic Analysis of Sensorless Controlled Industrial Pump Drive. IOP Conference Series: Materials Science and Engineering, 2020, 906, 012029.	0.3	1
44	A Review on Power Electronics and Drives in Electric Propulsion System. IOP Conference Series: Materials Science and Engineering, 2020, 937, 012050.	0.3	1
45	Design of rogowski coil to measure the power frequency alternating current. International Journal of Engineering and Technology(UAE), 2018, 7, 1605.	0.2	0
46	Optimal design, control and implementation of multi-drones for commercial utility. International Journal of Intelligent Unmanned Systems, 2021, 9, 336-359.	0.6	0
47	Performance Investigation of 3-Level NPC Inverter for Solar PV Application. , 2021, , .		0
48	IoT enabled Intelligent Fault Diagnosis System for Two-level Voltage Source Converter. , 2021, , .		0