

Rupert Gouws

List of Publications by Year in descending order

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51
papers

407
citations

933447

10
h-index

839539

18
g-index

51
all docs

51
docs citations

51
times ranked

286
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of energy sources for unmanned aerial vehicles, their shortfalls and opportunities for improvements. Heliyon, 2020, 6, e05285.	3.2	60
2	Electrical Circuit Modelling of Double Layer Capacitors for Power Electronics and Energy Storage Applications: A Review. Electronics (Switzerland), 2018, 7, 268.	3.1	47
3	On the Role of Magnetic Shunts for Increasing Performance of Transverse Flux Machines. IEEE Transactions on Magnetics, 2017, 53, 1-8.	2.1	26
4	A Comparative Review of Lead-Acid, Lithium-Ion and Ultra-Capacitor Technologies and Their Degradation Mechanisms. Energies, 2022, 15, 4930.	3.1	26
5	A review on switched reluctance machines for electric vehicles. , 2016, , .		23
6	Performance Analysis of a Permanent Magnet Transverse Flux Generator With Double Coil. IEEE Transactions on Magnetics, 2016, 52, 1-11.	2.1	21
7	Axial-Flux PM Disk Generator With Magnetic Gear for Oceanic Wave Energy Harvesting. IEEE Access, 2019, 7, 44813-44822.	4.2	21
8	Effect of a ripple current on the efficiency of a PEM electrolyser. Results in Engineering, 2021, 10, 100216.	5.1	21
9	Analysis of PM Transverse-Flux Outer Rotor Machines With Different Configuration. IEEE Transactions on Industry Applications, 2017, 53, 4260-4268.	4.9	19
10	Comparison analysis of electric motors with two degrees of mechanical freedom: PM synchronous motor vs induction motor. , 2016, , .		17
11	Overview of Power Electronic Switches: A Summary of the Past, State-of-the-Art and Illumination of the Future. Micromachines, 2020, 11, 1116.	2.9	12
12	An Active Hybrid Energy Storage System Utilising a Fuzzy Logic Rule-Based Control Strategy. World Electric Vehicle Journal, 2020, 11, 34.	3.0	11
13	Thermal and efficiency analysis of a single phase induction motor with Peltier devices. World Journal of Engineering, 2012, 9, 63-70.	1.6	7
14	Improvement of Transverse-Flux Machine Characteristics by Finding an Optimal Air-Gap Diameter and Coil Cross-Section at the Given Magneto-Motive Force of the PMs. Energies, 2021, 14, 755.	3.1	7
15	Integration of battery and super-capacitor banks into a single-power system for a hybrid electric vehicle. , 2016, , .		6
16	Combination of LiCs and EDLCs with Batteries: A New Paradigm of Hybrid Energy Storage for Application in EVs. World Electric Vehicle Journal, 2018, 9, 47.	3.0	6
17	Effect of supercapacitors on the operation of an air-cooled hydrogen fuel cell. Heliyon, 2021, 7, e06569.	3.2	6
18	A comparative study on fault detection and correction techniques on active magnetic bearing systems. , 2007, , .		5

#	ARTICLE	IF	CITATIONS
19	Active magnetic bearing condition monitoring. World Journal of Engineering, 2013, 10, 179-188.	1.6	5
20	Energy management system for a residential grid-tied micro-grid. , 2015, , .		5
21	Comparative Thermal and Demagnetization Analysis of the PM Machines with Neodymium and Ferrite Magnets. Energies, 2022, 15, 4484.	3.1	5
22	Comparison analysis of PM transverse flux outer rotor machines with and without magnetic shunts. , 2016, , .		4
23	Hybridization of Battery, Supercapacitor and Hybrid Capacitor for Electric Vehicles. , 2018, , .		4
24	Solar powered peltier cooling storage for vaccines in rural areas. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 17, 36.	0.8	4
25	Measurement and verification of irrigation pumping DSM projects: Application of novel methodology designs. Journal of Energy in Southern Africa, 2016, 27, 15.	0.8	4
26	Measurement and verification of load shifting interventions for a fridge plant system in South Africa. Journal of Energy in Southern Africa, 2013, 24, 9-14.	0.8	4
27	Study on energy losses in industrial sector caused by low actual efficiency of induction motors. , 2014, , .		3
28	Solar power pumping system for domestic appliances. , 2014, , .		3
29	Data logger and companion application for time-of-use electricity. , 2018, , .		3
30	Smart whiteboard for interactive learning. , 2018, , .		3
31	Real-time displacement analysis and correction system for vibration forces on rotor of rotational active magnetic bearing system. World Journal of Engineering, 2011, 8, 381-394.	1.6	2
32	Improving energy consumption of an induction motor by design of a power factor correction system and estimation of it's saving on a large scale. , 2014, , .		2
33	Verifying the cooling capacity and power consumption of thermoelectric cooling holders for vaccine storage. , 2015, , .		2
34	3-D Finite element method analysis of twin-armature permanent magnet motor with two degrees of mechanical freedom. Electrical Engineering, 2017, 99, 997-1004.	2.0	2
35	Fuel allocation and lockout system. , 2018, , .		2
36	Design Considerations of the PM Transverse Flux Linear Motor for an Urban-Type Electromagnetic Train. , 2018, , .		2

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37	Smart Cooling System for Milk Transportation in Rural Areas. , 2021, , .		2
38	Efficiency and cost analysis of a designed in-line water heating system compared to a conventional water heating system in South Africa. Journal of Energy in Southern Africa, 2012, 23, 9-15.	0.8	2
39	Efficiency analysis of an induction motor with field-oriented control at a hot rolling mill. Scientific Research and Essays, 2012, 7, .	0.4	1
40	Impact of thermoelectric cooling modules on the efficiency of a single-phase asynchronous machine. Journal of Energy in Southern Africa, 2014, 25, 13-18.	0.8	1
41	Efficiency analysis of an induction motor with direct torque and flux control at a hot rolling mill. Journal of Energy in Southern Africa, 2015, 26, 111-115.	0.8	1
42	Environmental Impact of an Industrial Compressed Air System with a Solar Powered Compressor in South Africa. Energy and Environment, 2012, 23, 1327-1337.	4.6	0
43	Design and heat flow analysis of a commercial energy efficient in-line water heating system. World Journal of Engineering, 2014, 11, 239-246.	1.6	0
44	Development of an axial suspended AMB experimental bench for load and disturbance tests. Journal of Applied Research and Technology, 2015, 13, 382-391.	0.9	0
45	Magnetic Circuit Analysis of the Low-Cost in-Wheel Switching Flux Motor for HEV Applications. , 2019, , .		0
46	Hybrid Energy Storage for Underground Mining EV. , 2021, , .		0
47	Impact of frequency switching on the efficiency of a fully suspended active magnetic bearing system. International Journal of Physical Sciences, 2012, 7, .	0.4	0
48	Fly Ash Resistivity Profiling for South African Coal Fired Power Stations. Journal of Energy and Power Engineering, 2013, 7, .	0.2	0
49	Prototype Monitoring System for Power Line Inspection by Means of a PandaBoard. Journal of Energy and Power Engineering, 2014, 8, .	0.2	0
50	Design of a transmission line monitoring solution for an unmanned quadcopter. South African Journal of Science and Technology, 2014, 33, .	0.1	0
51	Ultracapacitor rough terrain mine vehicle. South African Journal of Science and Technology, 2014, 33, .	0.1	0