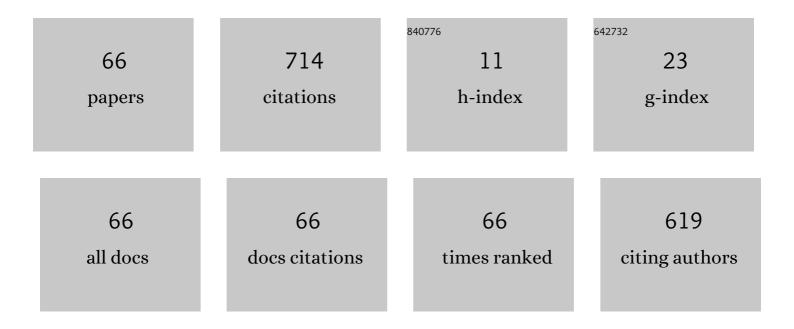
Alex Van den Bossche

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Developed cascaded multilevel inverter topology to minimise the number of circuit devices and voltage stresses of switches. IET Power Electronics, 2014, 7, 459-466.	2.1	105
2	A Smart Voltage and Current Monitoring System for Three Phase Inverters Using an Android Smartphone Application. Sensors, 2017, 17, 872.	3.8	72
3	Segmentation of Magnets to Reduce Losses in Permanent-Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2008, 44, 4409-4412.	2.1	69
4	Comparison of Nonoriented and Grain-Oriented Material in an Axial Flux Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2010, 46, 279-285.	2.1	51
5	An Active Cell Equalization Technique for Lithium Ion Batteries Based on Inductor Balancing. , 2018, , .		50
6	An Efficient Equalizing Method for Lithium-Ion Batteries Based on Coupled Inductor Balancing. Electronics (Switzerland), 2019, 8, 136.	3.1	32
7	A Ćuk Converter Cell Balancing Technique by Using Coupled Inductors for Lithium-Based Batteries. Energies, 2019, 12, 2881.	3.1	30
8	Flyback Converter Balancing Technique for Lithium Based Batteries. , 2019, , .		21
9	A Computationally Efficient Method to Determine Iron and Magnet Losses in VSI-PWM Fed Axial Flux Permanent Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2014, 50, 1-10.	2.1	20
10	A Procedure for the Extraction of Intrinsic AC Conductivity and Dielectric Constant of N87 Mn–Zn Ferrite Samples Based on Impedance Measurements and Equivalent Electrical Circuit Modeling. IEEE Transactions on Power Electronics, 2018, 33, 10723-10735.	7.9	20
11	A Cell Equalization Method Based on Resonant Switched Capacitor Balancing for Lithium Ion Batteries. , 2018, , .		18
12	Evaluation of a Simple Lamination Stacking Method for the Teeth of an Axial Flux Permanent-Magnet Synchronous Machine With Concentrated Stator Windings. IEEE Transactions on Magnetics, 2012, 48, 999-1002.	2.1	17
13	A Battery Equalization Technique Based on Ćuk Converter Balancing for Lithium Ion Batteries. , 2019, , .		15
14	An open-source non-contact thermometer using low-cost electronic components. HardwareX, 2021, 9, e00183.	2.2	15
15	Multi-Winding Equalization Technique for Lithium Ion Batteries for Electrical Vehicles. , 2018, , .		12
16	Forward Converter Current Fed Equalizer for Lithium Based Batteries in Ultralight Electrical Vehicles. Electronics (Switzerland), 2019, 8, 408.	3.1	12
17	Feasibility Study of Wind Farm Grid-Connected Project in Algeria under Grid Fault Conditions Using D-Facts Devices. Applied Sciences (Switzerland), 2018, 8, 2250.	2.5	11

18 Electric Vehicles Charging Concepts for Lithium Based Batteries. , 2018, , .

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#	Article	IF	CITATIONS
19	Analytical and calculation DC-link capacitor of a three-phase grid-tied photovoltaic inverter. , 2018, , .		10
20	A Single Transformer for Active Cell Equalization Method of Lithium-Ion Batteries with Two Times Fewer Secondaries than Cells. Electronics (Switzerland), 2019, 8, 951.	3.1	9
21	Circulating Current Reduction in MMC-HVDC System Using Average Model. Applied Sciences (Switzerland), 2019, 9, 1383.	2.5	8
22	A Novel Driving Method for Switched Reluctance Motor With Standard Full Bridge Inverter. IEEE Transactions on Energy Conversion, 2020, 35, 994-1003.	5.2	7
23	Drivetrain design for an ultra light electric vehicle with high efficiency. , 2013, , .		6
24	Design considerations and loss analysis of DC chokes. , 2016, , .		6
25	Voltage Unbalance and Overvoltage Mitigation by Using the Three-phase Damping Control Strategy in Battery Storage Applications. , 2018, , .		6
26	A Smart High-Voltage Cell Detecting and Equalizing Circuit for LiFePO4 Batteries in Electric Vehicles. Applied Sciences (Switzerland), 2019, 9, 5391.	2.5	5
27	Successive resistive braking circuit for permanent magnet wind turbine generators. , 2010, , .		4
28	Inductive components in Power Electronics. , 2011, , .		4
29	Reducing the permanent magnet content in fractional-slot concentrated-windings permanent magnet synchronous machines. , 2012, , .		4
30	A novel design and electromagnetic analysis for a linear switched reluctance motor. Electrical Engineering, 2019, 101, 609-618.	2.0	4
31	Capacitor voltage ripple reduction in MMC-HVDC system using flat bottom current method. Electrical Engineering, 2021, 103, 1483-1492.	2.0	4
32	Modelling of electrical properties of mn-zn ferrites taking into account the frequency of the occurrence of the dimensional resonance. Journal of Electrical Engineering, 2018, 69, 219-225.	0.7	4
33	Low stand by power, self oscillating power supply. , 2007, , .		3
34	Soft-Switch DC-DC Converter with a High Conversion Ratio for an Electrical Bicycle. , 2007, , .		3
35	Improving the torque output in radial- and axial-flux permanent-magnet synchronous machines with concentrated windings by using a combined wye-delta connection. , 2011, , .		3
36	Influence of Soft Magnetic Material in a Permanent Magnet Synchronous Machine With a Commercial Induction Machine Stator. IEEE Transactions on Magnetics, 2012, 48, 1645-1648.	2.1	3

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37	Magnetic stray field based position detection in BLDC outer rotor permanent magnet synchronous machines. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 544-554.	1.9	3
38	A Control Method with Ring Structure for Switched Reluctance Motor. , 2018, , .		3
39	Controlling a Switched Reluctance Motor with a Conventional Three-Phase Bridge Instead of Asymmetric H-Bridges. Energies, 2018, 11, 3242.	3.1	3
40	New Pulse Width Modulation Technique to Reduce Losses for Three-Phase Photovoltaic Inverters. Active and Passive Electronic Components, 2018, 2018, 1-10.	0.3	3
41	Investigation of a delay compensated deadbeat current controller for inverters by Z-transform. Electrical Engineering, 2018, 100, 2341-2349.	2.0	3
42	Circulating-Current-Excited Switched Reluctance Generator System With Diode Rectifier. IEEE Transactions on Industrial Electronics, 2022, 69, 7859-7868.	7.9	3
43	Losses in VSI-PWM fed axial flux machines. , 2014, , .		2
44	Comparison and design of power electronics transformers in 25 kHz–400 kHz range. , 2016, , .		2
45	Frequency synchronization of a single-phase grid-connected DC/AC inverter using a double integration method. Automatika, 2017, 58, 141-146.	2.0	2
46	Comparison and design of DC chokes based on different magnetic materials. , 2017, , .		2
47	A Tuning Method for the Derivative Filter in PID Controller with Delay Time. , 2018, , .		2
48	A thyristor- and thermistor-based inrush current limiter for DC-link start-up. International Journal of Electronics, 2018, 105, 1615-1627.	1.4	2
49	Design and Implementation A Smart Monitoring and Controlling System of Three-Phase Photovoltaic Inverter Based on LoRa. IOP Conference Series: Materials Science and Engineering, 2019, 518, 042022.	0.6	2
50	Dynamic voltage stability for embedded electrical networks in marine vessels using FACTS devices. International Journal of Dynamics and Control, 2021, 9, 1783-1799.	2.5	2
51	Core loss model for nanocrystalline cores for full and half bridge waveforms. , 2007, , .		1
52	Eddy current based, contactless position transducer for a gas handle. , 2010, , .		1
53	Driving electric vehicles: As green as the grid. , 2015, , .		1

54 Comparison of multiple stage braking circuits for wind driven generators. , 2016, , .

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#	Article	IF	CITATIONS
55	Comparative study of winding arrangements for power electronic transformers. , 2016, , .		1
56	Direct Usage of Photovoltaic Solar Panels to Supply a Freezer Motor with Variable DC Input Voltage. Electronics (Switzerland), 2020, 9, 167.	3.1	1
57	Design and Implementation Low Cost of Photovoltaic Monitoring System Network Based on LoRaWAN. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012046.	0.6	1
58	Low wind speed wind turbine in DIY version. , 2013, , .		0
59	Overvoltage protection for range extended electric vehicles. , 2015, , .		0
60	Self-oscillating gate driver used for gallium nitride transistors in high frequency applications. , 2016, , .		0
61	A simplified controller and detailed dynamics of constant off-time peak current control. Journal of Electrical Engineering, 2017, 68, 390-395.	0.7	0
62	Less-Conventional Low-Consumption Galvanic Separated MOSFET-IGBT Gate Drive Supply. Active and Passive Electronic Components, 2017, 2017, 1-8.	0.3	0
63	A Tuning Method for PI Controller for an Integrating System with Time Delay. , 2018, , .		0
64	A modified Smart Controlling and Monitoring Scheme of Three Phase Photovoltaic Inverter rely on LoRa Technology. IOP Conference Series: Materials Science and Engineering, 2019, 518, 052005.	0.6	0
65	High frequency power loss measurement platform. International Journal of Electronics Letters, 2020, 8, 28-37.	1.2	0
66	Set-up and measurements on a Mn-Zn ferrite ring core under sinusoidal excitation and dc bias conditions. , 2021, , .		0