

# Alex Van den Bossche

## List of Publications by Year in descending order

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66  
papers

714  
citations

840585

11  
h-index

642610

23  
g-index

66  
all docs

66  
docs citations

66  
times ranked

619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating-Current-Excited Switched Reluctance Generator System With Diode Rectifier. IEEE Transactions on Industrial Electronics, 2022, 69, 7859-7868.	5.2	3
2	Dynamic voltage stability for embedded electrical networks in marine vessels using FACTS devices. International Journal of Dynamics and Control, 2021, 9, 1783-1799.	1.5	2
3	An open-source non-contact thermometer using low-cost electronic components. HardwareX, 2021, 9, e00183.	1.1	15
4	Capacitor voltage ripple reduction in MMC-HVDC system using flat bottom current method. Electrical Engineering, 2021, 103, 1483-1492.	1.2	4
5	Set-up and measurements on a Mn-Zn ferrite ring core under sinusoidal excitation and dc bias conditions. , 2021, , .		0
6	High frequency power loss measurement platform. International Journal of Electronics Letters, 2020, 8, 28-37.	0.7	0
7	Direct Usage of Photovoltaic Solar Panels to Supply a Freezer Motor with Variable DC Input Voltage. Electronics (Switzerland), 2020, 9, 167.	1.8	1
8	A Novel Driving Method for Switched Reluctance Motor With Standard Full Bridge Inverter. IEEE Transactions on Energy Conversion, 2020, 35, 994-1003.	3.7	7
9	Design and Implementation Low Cost of Photovoltaic Monitoring System Network Based on LoRaWAN. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012046.	0.3	1
10	A Battery Equalization Technique Based on Ąuk Converter Balancing for Lithium Ion Batteries. , 2019, , .		15
11	A novel design and electromagnetic analysis for a linear switched reluctance motor. Electrical Engineering, 2019, 101, 609-618.	1.2	4
12	Flyback Converter Balancing Technique for Lithium Based Batteries. , 2019, , .		21
13	A Ąuk Converter Cell Balancing Technique by Using Coupled Inductors for Lithium-Based Batteries. Energies, 2019, 12, 2881.	1.6	30
14	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.	0.3	0
15	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.	0.3	2
16	A Single Transformer for Active Cell Equalization Method of Lithium-Ion Batteries with Two Times Fewer Secondaries than Cells. Electronics (Switzerland), 2019, 8, 951.	1.8	9
17	Circulating Current Reduction in MMC-HVDC System Using Average Model. Applied Sciences (Switzerland), 2019, 9, 1383.	1.3	8
18	Forward Converter Current Fed Equalizer for Lithium Based Batteries in Ultralight Electrical Vehicles. Electronics (Switzerland), 2019, 8, 408.	1.8	12

#	ARTICLE	IF	CITATIONS
19	An Efficient Equalizing Method for Lithium-Ion Batteries Based on Coupled Inductor Balancing. Electronics (Switzerland), 2019, 8, 136.	1.8	32
20	A Smart High-Voltage Cell Detecting and Equalizing Circuit for LiFePO <sub>4</sub> Batteries in Electric Vehicles. Applied Sciences (Switzerland), 2019, 9, 5391.	1.3	5
21	A Procedure for the Extraction of Intrinsic AC Conductivity and Dielectric Constant of N <sub>87</sub> Mn <sup>2+</sup> Zn Ferrite Samples Based on Impedance Measurements and Equivalent Electrical Circuit Modeling. IEEE Transactions on Power Electronics, 2018, 33, 10723-10735.	5.4	20
22	Voltage Unbalance and Overvoltage Mitigation by Using the Three-phase Damping Control Strategy in Battery Storage Applications. , 2018, , .		6
23	Electric Vehicles Charging Concepts for Lithium Based Batteries. , 2018, , .		10
24	Feasibility Study of Wind Farm Grid-Connected Project in Algeria under Grid Fault Conditions Using D-Facts Devices. Applied Sciences (Switzerland), 2018, 8, 2250.	1.3	11
25	A Control Method with Ring Structure for Switched Reluctance Motor. , 2018, , .		3
26	Controlling a Switched Reluctance Motor with a Conventional Three-Phase Bridge Instead of Asymmetric H-Bridges. Energies, 2018, 11, 3242.	1.6	3
27	Multi-Winding Equalization Technique for Lithium Ion Batteries for Electrical Vehicles. , 2018, , .		12
28	A Tuning Method for PI Controller for an Integrating System with Time Delay. , 2018, , .		0
29	An Active Cell Equalization Technique for Lithium Ion Batteries Based on Inductor Balancing. , 2018, , .		50
30	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
31	A Cell Equalization Method Based on Resonant Switched Capacitor Balancing for Lithium Ion Batteries. , 2018, , .		18
32	A Tuning Method for the Derivative Filter in PID Controller with Delay Time. , 2018, , .		2
33	A thyristor- and thermistor-based inrush current limiter for DC-link start-up. International Journal of Electronics, 2018, 105, 1615-1627.	0.9	2
34	Investigation of a delay compensated deadbeat current controller for inverters by Z-transform. Electrical Engineering, 2018, 100, 2341-2349.	1.2	3
35	Analytical and calculation DC-link capacitor of a three-phase grid-tied photovoltaic inverter. , 2018, , .		10
36	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.	0.4	4

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37	Frequency synchronization of a single-phase grid-connected DC/AC inverter using a double integration method. <i>Automatika</i> , 2017, 58, 141-146.	1.2	2
38	A simplified controller and detailed dynamics of constant off-time peak current control. <i>Journal of Electrical Engineering</i> , 2017, 68, 390-395.	0.4	0
39	Comparison and design of DC chokes based on different magnetic materials. , 2017, , .		2
40	A Smart Voltage and Current Monitoring System for Three Phase Inverters Using an Android Smartphone Application. <i>Sensors</i> , 2017, 17, 872.	2.1	72
41	Less-Conventional Low-Consumption Galvanic Separated MOSFET-IGBT Gate Drive Supply. <i>Active and Passive Electronic Components</i> , 2017, 2017, 1-8.	0.3	0
42	Self-oscillating gate driver used for gallium nitride transistors in high frequency applications. , 2016, , .		0
43	Comparison and design of power electronics transformers in 25 kHzâ€“400 kHz range. , 2016, , .		2
44	Design considerations and loss analysis of DC chokes. , 2016, , .		6
45	Comparison of multiple stage braking circuits for wind driven generators. , 2016, , .		1
46	Comparative study of winding arrangements for power electronic transformers. , 2016, , .		1
47	Overvoltage protection for range extended electric vehicles. , 2015, , .		0
48	Driving electric vehicles: As green as the grid. , 2015, , .		1
49	Magnetic stray field based position detection in BLDC outer rotor permanent magnet synchronous machines. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2014, 27, 544-554.	1.2	3
50	Developed cascaded multilevel inverter topology to minimise the number of circuit devices and voltage stresses of switches. <i>IET Power Electronics</i> , 2014, 7, 459-466.	1.5	105
51	Losses in VSI-PWM fed axial flux machines. , 2014, , .		2
52	A Computationally Efficient Method to Determine Iron and Magnet Losses in VSI-PWM Fed Axial Flux Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-10.	1.2	20
53	Low wind speed wind turbine in DIY version. , 2013, , .		0
54	Drivetrain design for an ultra light electric vehicle with high efficiency. , 2013, , .		6

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55	Reducing the permanent magnet content in fractional-slot concentrated-windings permanent magnet synchronous machines. , 2012, , .		4
56	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.	1.2	17
57	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.	1.2	3
58	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
59	Inductive components in Power Electronics. , 2011, , .		4
60	Comparison of Nonoriented and Grain-Oriented Material in an Axial Flux Permanent-Magnet Machine. IEEE Transactions on Magnetics, 2010, 46, 279-285.	1.2	51
61	Successive resistive braking circuit for permanent magnet wind turbine generators. , 2010, , .		4
62	Eddy current based, contactless position transducer for a gas handle. , 2010, , .		1
63	Segmentation of Magnets to Reduce Losses in Permanent-Magnet Synchronous Machines. IEEE Transactions on Magnetics, 2008, 44, 4409-4412.	1.2	69
64	Core loss model for nanocrystalline cores for full and half bridge waveforms. , 2007, , .		1
65	Low stand by power, self oscillating power supply. , 2007, , .		3
66	Soft-Switch DC-DC Converter with a High Conversion Ratio for an Electrical Bicycle. , 2007, , .		3