Andrei Blinov

List of Publications by Year
in descending order

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Version: 2024-02-01

67	719	623734	713466
papers	citations	14 h-index	21 g-index

68	68	68	359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Efficiency Single-Stage On-Board Charger for Electrical Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 12581-12592.	6.3	50
2	Bidirectional Isolated Current-Source DAB Converter With Extended ZVS/ZCS Range and Reduced Energy Circulation for Storage Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 10552-10563.	7.9	41
3	Recent Contributions, Future Prospects and Limitations of Interlinking Converter Control in Hybrid AC/DC Microgrids. IEEE Access, 2021, 9, 7960-7984.	4.2	40
4	Novel Isolated Power Conditioning Unit for Micro Wind Turbine Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 5984-5993.	7.9	30
5	Review of Isolated Matrix Inverters: Topologies, Modulation Methods and Applications. Energies, 2020, 13, 2394.	3.1	26
6	Bidirectional softâ€switching dcâ€“dc converter for battery energy storage systems. IET Power Electronics, 2018, 11, 2000-2009.	2.1	24
7	High Gain DCâ€“AC High-Frequency Link Inverter With Improved Quasi-Resonant Modulation. IEEE Transactions on Industrial Electronics, 2022, 69, 1465-1476.	7.9	24
8	DC Integration of Residential Photovoltaic Systems: A Survey. IEEE Access, 2022, 10, 66974-66991.	4.2	22
9	Full soft-switching bidirectional current-fed DC-DC converter. , 2015, , .		20
10	Evaluation of GaN HEMTs for high-voltage stage of isolated DC-DC converters. , 2016, , .		17
11	Modular Self-Balancing Battery Charger Concept for Cost-Effective Power-Assist Wheelchairs. Energies, 2019, 12, 1526.	3.1	17
12	Modular Battery Charger for Light Electric Vehicles. Energies, 2020, 13, 774.	3.1	17
13	Analytical approach for maximizing self-consumption of nearly zero energy buildings- case study: Baltic region. Energy, 2022, 238, 121744.	8.8	17
14	Quasi Single-Stage Three-Phase Filterless Converter for EV Charging Applications. IEEE Open Journal of Power Electronics, 2022, 3, 51-60.	5.7	17
15	Full soft-switching high step-up DC-DC converter for photovoltaic applications. , 2014, , .		16
16	Multi-cell DC-DC converter with high step-down voltage ratio. , 2015, , .		16
17	Regenerative Passive Snubber Circuit for High-Frequency Link Converters. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 252-257.	3.9	16
18	Four Novel PWM Shoot-Through Control Methods for Impedance Source DC-DC Converters. Journal of Power Electronics, 2015, 15, 299-308.	1.5	16

#	Article	IF	Citations
19	A Series Partial Power Converter Based on Dual Active Bridge Converter for Residential Battery Energy Storage System. , 2021, , .		16
20	Feasibility study of Si and SiC MOSFETs in high-gain DC/DC converter for renewable energy applications. , 2013, , .		14
21	Considerations regarding the concept of cost-effective power-assist wheelchair subsystems. Electrical, Control and Communication Engineering, 2018, 14, 71-80.	0.8	14
22	Full-soft-switching high step-up bidirectional isolated current-fed push-pull DC-DC converter for battery energy storage applications. , 2016, , .		12
23	Bidirectional isolated ZVS DC-DC converter with auxiliary active switch for high-power energy storage applications. , 2017, , .		12
24	Snubberless boost fullâ€bridge converters: Analysis of soft switching performance and limitations. International Journal of Circuit Theory and Applications, 2019, 47, 884-908.	2.0	12
25	Analysis of Oscillation Suppression Methods in the AC-AC Stage of High Frequency Link Converters. , 2019, , .		12
26	Interface Converters for Residential Battery Energy Storage Systems: Practices, Difficulties and Prospects. Energies, 2021, 14, 3365.	3.1	12
27	Isolated High-Frequency Link PFC Rectifier With High Step-Down Factor and Reduced Energy Circulation. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 788-796.	3.9	12
28	Experimental verification of DC/DC converter with full-bridge active rectifier. , 2012, , .		11
29	Bidirectional Soft Switching Current Source DC-DC Converter for Residential DC Microgrids. , 2018, , .		11
30	Three-level half-bridge ZVS DC/DC converter for electrolyzer integration with renewable energy systems. , 2011, , .		10
31	Study on power losses of the full soft-switching current-fed DC/DC converter with Si and GaN devices. , 2015, , .		9
32	Analysis of Fault-Tolerant Operation Capabilities of an Isolated Bidirectional Current-Source DCâ€“DC Converter. Energies, 2019, 12, 3203.	3.1	9
33	Soft-Switching Modulation Method for Full-Bridge DC-AC HF-Link Inverter. , 2019, , .		9
34	A novel high-voltage half-bridge converter with phase-shifted active rectifier. , 2012, , .		8
35	Full soft-switching bidirectional isolated current-fed dual inductor push-pull DC-DC converter for battery energy storage applications. , 2016, , .		8
36	An Efficient Non-Inverting Buck-Boost Converter with Improved Step Up/Down Ability. Energies, 2022, 15, 4550.	3.1	8

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37	Energy-efficient high-voltage switch based on parallel connection of IGBT and IGCT. , 2011, , .		7
38	Floating high step-down stacked dc-dc converter based on buck-boost cells. , 2015, , .		7
39	Zero-voltage switching galvanically isolated current-fed full-bridge DC-DC converter. , 2016, , .		7
40	New High-Gain Non-Inverting Buck-Boost Converter. , 2021, , .		6
41	Buck-Boost Resonant Z-Source Parital Power Converter. , 2022, , .		6
42	Steady-state analysis of qZS-derived push-pull DC/DC converter with wide input voltage regulation range. , 2013, , .		5
43	Dynamic characteristic evaluation of a 600V reverse blocking IGBT device. , 2017, , .		5
44	Asymmetric snubberless current-fed full-bridge isolated DC-DC converters. Electrical, Control and Communication Engineering, 2018, 14, 5-11.	0.8	5
45	Operation of single-chip mosfet and igbt devices after failure due to repetitive avalanche. , 2015, , .		4
46	Comparison and verification of boost control methods for full soft-switching bidirectional current-fed isolated full-bridge DC-DC converter. , 2016, , .		4
47	Evaluation of low-and high-voltage GaN transistors in soft-switching DC-DC converter. , 2017, , .		4
48	Grid-frequency Vienna rectifier and isolated current-source DC-DC converters for efficient off-board charging of electric vehicles. , 2020, , .		4
49	Multiport converter with integrated energy storage for hydrogen buffer interfacing with renewable energy systems. , 2012, , .		3
50	CM voltage compensator for DC/DC converters. , 2013, , .		3
51	Improved Modulation Method for Full-Bridge AC-DC HF-Link Converter. , 2020, , .		3
52	Operation and Design of Series-Resonant Current-Source Full-Bridge DC-DC Converter. , 2021, , .		3
53	Soft Start and Protection of Bidirectional Buck-Boost Partial Power Converter. , 2022, , .		3
54	Comparison of Soft Switching Methods of DC-AC Full Bridge High-Frequency Link Converter. , 2018, , .		2

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55	Design of Multiphase Single-Switch Impedance-Source Converters. , 2018, , .		2
56	Wide Range Series Resonant DC-DC Converter with a Reduced Component Count and Capacitor Voltage Stress for Distributed Generation. Energies, 2021, 14, 2051.	3.1	2
57	Modelling of Consumption Shares for Small Wind Energy Prosumers. Symmetry, 2021, 13, 647.	2.2	2
58	Single-Stage Series-Connected Isolated Converters for MVAC to DC Applications. , 2022, , .		2
59	Feasibility study of cascading of full soft-switching current-fed naturally clamped DC-DC converters. , 2016, , .		1
60	A three-phase full soft-switching current-fed naturally clamped DC-DC converter for high-power fuel cell applications. , 2016, , .		1
61	Wide ZVS Range Full-Bridge DC-DC Converter with Quasi-Resonant Switching. , 2020, , .		1
62	Optimization and Design of Planar Transformer for the High Frequency Link Converter. , 2020, , .		1
63	Design of High Frequency Transformer for Isolated Bridge-Type PFC Converter. , 2020, , .		1
64	Implementation possibilities of hybrid IGBTâ€IGCT switches in threeâ€level NPC inverters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1917-1930.	0.9	0
65	Experimental Results of Parallel Active Filter Implementation in Nonideal Power Grid. International Federation for Information Processing, 2012, , 291-298.	0.4	0
66	A three-phase full soft-switching current-fed naturally clamped DC-DC converter for high-power energy storage applications. , 2016, , .		0
67	Zero-Current Switching Impedance-Source DC-DC Converter. , 2019, , .		0