Thomas Guillod

List of Publications by Year
in descending order

18 papers	854 citations	759233 12 h-index	1125743 13 g-index
18 all docs	18 docs citations	18 times ranked	580 citing authors

#	Article	IF	Citations
1	Analysis of the Performance Limits of 166 kW/7 kV Air- and Magnetic-Core Medium-Voltage Medium-Frequency Transformers for 1:1-DCX Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2989-3012.	5.4	13
2	MagNet: An Open-Source Database for Data-Driven Magnetic Core Loss Modeling. , 2022, , .		23
3	Transient Calorimetric Measurement of Ferrite Core Losses up to 50 MHz. IEEE Transactions on Power Electronics, 2021, 36, 2548-2563.	7.9	22
4	Load-Independent Voltage Balancing of Multi-Level Flying Capacitor Converters in Quasi-2-Level Operation. Electronics (Switzerland), 2021, 10, 2414.	3.1	6
5	Dielectric Losses in Dry-Type Insulation of Medium-Voltage Power Electronic Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2716-2732.	5.4	38
6	Active Magnetizing Current Splitting ZVS Modulation of a 7 kV/400 V DC Transformer. IEEE Transactions on Power Electronics, 2020, 35, 1293-1305.	7.9	54
7	Minimum Loss Operation and Optimal Design of High-Frequency Inductors for Defined Core and Litz Wire. IEEE Open Journal of Power Electronics, 2020, 1, 469-487.	5.7	28
8	Artificial Neural Network (ANN) Based Fast and Accurate Inductor Modeling and Design. IEEE Open Journal of Power Electronics, 2020, 1, 284-299.	5.7	103
9	Endurance of Polymeric Insulation Foil Exposed to DC-Biased Medium-Frequency Rectangular Pulse Voltage Stress. Energies, 2020, 13, 13.	3.1	19
10	99.1% Efficient 10 kV SiC-Based Medium-Voltage ZVS Bidirectional Single-Phase PFC AC/DC Stage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 779-797.	5.4	88
11	99% Efficient 10 kV SiC-Based 7 kV/400 V DC Transformer for Future Data Centers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 753-767.	5.4	185
12	Magnetic equivalent circuit of MF transformers: modeling and parameter uncertainties. Electrical Engineering, 2018, 100, 2261-2275.	2.0	16
13	Electrical shielding of MV/MF transformers subjected to high dv/dt PWM voltages. , 2017, , .		35
14	Electromagnetic field patterns and energy flux of efficiency optimal inductive power transfer systems. Electrical Engineering, 2017, 99, 969-977.	2.0	12
15	Protection of MV Converters in the Grid: The Case of MV/LV Solid-State Transformers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 393-408.	5.4	83
16	Litz wire losses: Effects of twisting imperfections. , 2017, , .		44
17	Computation and analysis of dielectric losses in MV power electronic converter insulation. , 2016, , .		34
18	Characterization of the voltage and electric field stresses in multi-cell solid-state transformers. , 2014, , .		51