

## Veröffentlichungen

- [15] B. Truschenski, M.Praast, L. Burgmaier und T. Komma, „**Leistungselektronischer Konzeptvergleich für modulare bidirektionale Hochleistungsladesäulen im Megawatt-Bereich,**“ 2024 24. Nachwuchswissenschaftler:innenkonferenz, Prüfung, Netze, Leistungselektronik, Mittweida, Germany, 2024, pp. 13-19, doi: 10.48446/opus-15362.
- [14] B. Truschenski, A. Reinhold, M. Praast and T. Komma, "New Method for Determining the Peak Ripple Current for Different Modulation Techniques of Hard-Switching Three-Phase VSIs," PCIM Europe 2023; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, Nuremberg, Germany, 2023, pp. 1-8, doi: 10.30420/566091355.
- [13] M. Finkenzeller, M. Poebl and T. Komma, "A new Approach of Resonant Converter using Large Air Gap Transformer," 2020 22nd European Conference on Power Electronics and Applications (EPE'20 ECCE Europe), Lyon, France, 2020, pp. P.1-P.8, doi: 10.23919/EPE20ECCEEurope43536.2020.9215723.
- [12] A. Reinhold: „Theoretische Untersuchung und Simulation einer aktiven Filteranlage mit parallel-serieller Struktur für sechspulsige Diodengleichrichter“, Dissertation, TU Ilmenau, May 2018, Prof. J. Petzoldt.
- [11] A. Reinhold, U. Raedel, R. Grohmann and J. Petzoldt, "Influence of the Zero Sequence Voltage on the Design of a Series Active Filter," PCIM Europe 2016; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, Nuremberg, Germany, 2016, pp. 1-6.
- [10] A. Reinhold, U. Rädel, R. Grohmann and J. Petzoldt, "AC Side Parallel-Series Active Filter with DC Voltage Control Capability of a Diode Rectifier," 2015 17th European Conference on Power Electronics and Applications (EPE'15 ECCE-Europe), Geneva, Switzerland, 2015, pp. 1-8, doi: 10.1109/EPE.2015.7309184.

Prof. Dr.-Ing. Thomas Komma | thomas.komma@htwk-leipzig.de | +49 (0)341 3076 1115

Professur für Leistungselektronik und elektrische Antriebssysteme

Hochschule für Technik, Wirtschaft und Kultur Leipzig

- [9] A. Reinhold, U. Raedel, R. Grohmann and J. Petzoldt, "**AC- and DC-Power Quality Improvement of Diode Rectifiers due to Parallel-Series Active Filtering,**" *Proceedings of PCIM Europe 2015; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management*, Nuremberg, Germany, 2015, pp. 1-6.
- [8] T. Komma, M. Poebl: "**Determination and Comparison of Equivalent Circuit Parameters in Large-Air-Gap Transformers by Different Methods,**" *PCIM 2015*, Nuremberg, May 2015.
- [7] T. Komma, M. Poebl: "**Characterization of Large-Air-Gap Transformer Systems by Two-Port-Theory,**" *PCIM 2013*, Nuremberg, May 2013.
- [6] K. Kriegel, T. Komma, W. Kiffe, S. Levchuk and J. Otto, "**Influence of Baseplate Design on Cooling Performance and Reliability,**" *2012 7th International Conference on Integrated Power Electronics Systems (CIPS)*, Nuremberg, Germany, 2012, pp. 1-5.
- [5] T. Komma and W. Kiffe, "**Dynamic junction temperature calculation and measurement by Four-pole theory and complex Fourier-Series,**" *2009 13th European Conference on Power Electronics and Applications*, Barcelona, Spain, 2009, pp. 1-9.
- [4] T. Komma and H. Gueldner, "**The effect of different air-gap positions on the winding losses of modern planar ferrite cores in switch mode power supplies,**" *2008 International Symposium on Power Electronics, Electrical Drives, Automation and Motion*, Ischia, Italy, 2008, pp. 632-637, doi: 10.1109/SPEEDHAM.2008.4581182.
- [3] B. Ulrich, T. Komma and H. Gueldner, "**A measurement system for determining inductor losses in inverters in the MHz range,**" *4th International Conference on Integrated Power Systems*, Naples, Italy, 2006, pp. 1-6.
- [2] T. Komma: „**Allgemein gültiger Entwurfsalgorithmus für magnetische Komponenten in Schaltnetzteilen mit unterschiedlichen Topologien und Schaltfrequenzen bis 2 MHz,**“ Dissertation, TU Dresden, 2005, Prof. H. Güldner.
- [1] T. Komma, H. Gueldner: "**A Measurement Method to determine Core Losses caused by a DC-Flux-Density-Bias,**" PCIM Nuremberg, 2002, PCIM/ZM Communications GmbH.