

mgr inż. Piotr Szczerba

Wykaz publikacji autora związanych z rozprawą doktorską: „*Modeling and Analysis of Magnetic Components used in High-Frequency Power Electronics Systems*”.

1. **Szczerba, P.**; Worek, C., *Improved rectangular extension of Steinmetz equation including small and large excitation signals with DC bias*, Electronics, vol. 14, issue 14, MDPI, 18 July 2025. [[CrossRef](#)]
 2. **Szczerba, P.**, Ligenza, S., Worek, C., *Measurement and calculation techniques of complex permeability applied to Mn-Zn ferrites based on iterative approximation curve fitting and modified equivalent inductor model*, Electronics, vol. 12, issue 19, MDPI, 22 September 2023. [[CrossRef](#)]
 3. **Szczerba, P.**; Raczko, W.; Ligenza, S.; Worek, C., *Analytical PFC boost inductor power loss calculation method in CCM*, 2021 21st International Symposium on Power Electronics (Ee), 27-30 October 2021, Novi Sad, Serbia. [[CrossRef](#)]
 4. **Szczerba, P.**; Raczko, W.; Ligenza, S.; Worek, C., *Analytical design optimization of PFC boost inductor in CCM*, 2021 21st International Symposium on Power Electronics (Ee), 27-30 October 2021, Novi Sad, Serbia. [[CrossRef](#)]
 5. **Szczerba, P.**; Ligenza, S.; Worek, C., *Inductor AC resistance extraction method from an impedance measurement based on complex permeability model*, In the Proceedings of 19th International Power Electronics and Motion Control Conference, Gliwice, Poland, 25–29 April 2021. [[CrossRef](#)]
 6. **Szczerba, P.**; Ligenza, S.; Trojan, P.; Worek, C., *Practical design considerations of inductor AC resistance calculation methods*, 20th International Symposium on Power Electronics (Ee), Novi Sad, Serbia, 2019. [[CrossRef](#)]
-