

List of publications

Journals

- Morren, J., Roodenburg, B. & Haan, S.W.H. de, Electrochemical reactions and electrode corrosion in pulsed electric field (PEF) treatment chambers, *Innovative Food Science & Emerging Technologies*, 4, 3, p285-295, 2003
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- Roodenburg, B., Taffone, A., Gilardi, E., Tenconi, S.M., Evenblij, B.H. & Kaanders, M.A.M., Combined ZVS–ZCS topology for high-current direct current hybrid switches: design aspects and first measurements, *Journal of Electric Power Applications*, 1, 2, p183-192, 2007
- Roodenburg, B. & Evenblij, B.H., Design of a fast linear drive for (hybrid) circuit breakers – Development and validation of a multi domain simulation environment, *Mechatronics*, 18, p159-171, 2008
- Roodenburg, B., Malchev, P.G., Haan, S.W.H. de, Leitão, T.I.V. & Ferreira, J.A., Conductive Carbon Loaded Polymer Film Electrodes for Pulsed-Power Applications; Part I: Determination of the Film Properties, *International Journal of Polymer Analysis and Characterization*, 13, 6, p395-412, 2008
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- Roodenburg, B., Haan, S.W.H. de, Boxtel, L.B.J. van, Hatt, V., Wouters, P.C., Coronel, P., & Ferreira J.A., Conductive plastic film electrodes for Pulsed Electric Field (PEF) treatment – A proof of principle, *Innovative Food Science & Emerging Technologies*, 11, 2, p274-282, 2010
- Roodenburg, B., Haan, S.W.H. de, Ferreira, J.A., Coronel, P., Wouters, P.C., & Hatt, V., Towards 6 log₁₀ Pulsed Electric Field (PEF) inactivation with conductive plastic packaging material, *Journal of Food Process Engineering* (accepted for publication)

Book chapters

- Roodenburg, B., Electrochemistry in pulsed electric field treatment chambers, Chapter in *Food preservation by pulsed electric fields; from research to application*, Lelieveld, H.L.M., Notermans, S. & Haan, S.W.H. de (Ed.), ISBN 978-1-84569-058-8, Woodhead Publishing, 2007
- Roodenburg, B., Haan, S.W.H. de, Malchev, P., Leitão, T.I.V. & Mendes, E., Pulsed Power Applications with Conductive (Carbon- loaded) Composite Polymer Electrodes – Requirements and Characterization, *Encyclopaedia of Analytical Chemistry*, R.A. Meyers (Ed.), John Wiley & Sons Ltd, 2010

Conferences and symposia

- Haan, S.W.H. de, Roodenburg, B., Morshuis, P.H.F., Bosch, H.F.M. van den, Creyghton, Y.L.M. Prins, H.A. & Volanschi, A., Design and first test results of a 80 kV, microsecond pulser for pulsed electric fields (PEF), In proc. *IEE Pulsed Power symposium*, p9/1-9/4, 1-2 May 2001, London, United Kingdom
- Prins, H.A., Beurskens, R.H.S.H., Creyghton, Y.L.M., Dutreux, N., Haan, S.W.H. de & Roodenburg, B., Solid state pulsed power source for pulsed electric field and plasma treatment of food products, In proc. *IEEE, Pulse Power Plasma Science Conference*, 2, p1294-1297, 17-22 June 2001, Las Vegas, Nevada, USA
- Roodenburg, B., Morren, J., Haan, S.W.H. de, Prins, H.A., & Creyghton, Y.L.M., Modeling a 80 kV Pulse Source for Pulsed Electric Fields (PEF), In proc. *10th International Conference on Power Electronics and Motion Control*, p265, 9-11 September 2002, Cavtat, Dubrovnik, Croatia
- Haan, S.W.H. de, Roodenburg, B., Morren, J. & Prins, H.A., Technology for preservation of food with Pulsed Electric fields (PEF), In proc. *IEEE African, Conference on Electrical Engineering*, George, October 2002, South Africa
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- Haan, S.W.H. de, Roodenburg, B., Creyghton, Y.L.M., Fiala, A. & Huijser, T., High-voltage pulsed-power supplies for automotive exhaust gas treatment with dielectric barrier reactor, In proc. *IEEE, 13th International symposium on high-voltage engineering*, September 2003, Delft, The Netherlands
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- Roodenburg, B., Huijser, T. & Evenblij, B.H., Simulation of an Electro-Magnetic (EM) Drive for a fast Opening Circuit Breaker Contact, In proc. *IEE Pulsed Power Symposium*, p4/1-4/6, 8 September 2005, Basingstoke, United Kingdom
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- Roodenburg, B., Malchev, P.G., Leitão, T.I.V. & Haan, S.W.H. de, Electrical Characterisation of a (Carbon Loaded) Conductive Polymer Film, Related to Pulsed Power Applications, In proc. *20th IET Symposium on Pulsed Power*, p53-p58, 17-19 September 2007, Oxfordshire, United Kingdom
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- Roodenburg, B. & Evenblij, B.H., Current Source Semiconductor Opening Switch with Parallel IGCTs, In proc. *IEE, Pulsed Power Seminar*, p2/1-2/4, September 2003, Loughborough University, United Kingdom
- Roodenburg, B., Morren, J., Haan, S.W.H. de & Berg, H.E., Corrosion experiments in a pulsed electric field (PEF) treatment chamber with stainless steel electrodes fed with three different pulse shapes, In proc. *IEE, Pulsed Power Seminar*, p7/1-7/4, September 2003, Loughborough University, United Kingdom
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