

Patents

- Kolb, J. F.; Weltmann, K.-D.; Banaschik, R.; Zhuang, J.: System for Treating Fluids by Producing Corona Discharges in a Fluid Volume, EP3003988 B1, granted: 04/12/2019

Publications

- Decomposition of Pharmaceuticals by Pulsed Corona Discharges in Water Depending on Streamer Length, R. Banaschik, F. Koch, J. F. Kolb and K. Weltmann, *IEEE Transactions on Plasma Science* 42 (2014) 2736-2737
- Potential of pulsed corona discharges generated in water for the degradation of persistent pharmaceutical residues, R. Banaschik, P. Lukes, H. Jablonowski, M. U. Hammer, K.-D. Weltmann and J. F. Kolb, *Water Research* 84 (2015) 127-135
- Fenton chemistry promoted by sub-microsecond pulsed corona plasmas for organic micropollutant degradation in water, R. Banaschik, P. Lukes, C. Miron, A. V. Pipa, K. Fricke, P. J. Bednarski and J. F. Kolb, *Electrochimica Acta* 245 (2017) 539-548
- Degradation and Intermediates of Diclofenac as Instructive Example for Decomposition of Recalcitrant Pharmaceuticals by Hydroxyl Radicals Generated with Pulsed Corona Plasma in Water, R. Banaschik, H. Jablonowski, P. J. Bednarski and J. F. Kolb, *Journal of Hazardous Materials* 342 (2018) 651-660
- Cylindrospermopsin is effectively degraded in water by pulsed corona-like and dielectric barrier discharges, M. Schneider, R. Rataj, J. F. Kolb and L. Bláha, *Environmental Pollution* 266 (2020) 115423