Anne Bourdon - Publication list up to September 2019


76. E. Slikboer, P. Viegas, Z. Bonaventura, E. Garcia-Caurel, A. Sobota, A. Bourdon and O. Guaitella (2019) Experimental and numerical investigation of the transient charging of a dielectric surface exposed to a plasma jet, *Plasma Sources Science and Technology*, vol 28, 095016 (12 pages)


72. A. Tavant, V. Croes, R. Lucken, T. Lafleur, A. Bourdon, P. Chabert, (2018) The effects of secondary electron emission on plasma sheath characteristics and electron transport in an ExB discharge via kinetic simulations, *Plasma Sources Science and Technology* vol 27, 124001 (12 pages)


66. P. Viegas, F. Pechereau and A. Bourdon (2018) Numerical study on the time evolutions of the electric field in helium plasma jets with positive and negative polarities Plasma Sources Science and Technology, vol 27, 025007 (16 pages)

65. S. Kobayashi, Z. Bonaventura, F. Tholin, N. Popov and A. Bourdon (2017) Study of nanosecond discharges in H₂-air mixtures at atmospheric pressure for plasma assisted combustion applications Plasma Sources Science and Technology, vol 26, 075004 (12 pages)

64. V. Croes, T. Lafleur, Z. Bonaventura, A. Bourdon and P. Chabert (2017) 2D particle-in-cell simulations of the electron drift instability and associated anomalous electron transport in Hall-effect thrusters Plasma Sources Science and Technology, vol 26, 034001 (14 pages)

63. F. Pechereau, Z. Bonaventura and A. Bourdon (2016) Influence of surface emission processes on a fast-pulsed dielectric barrier discharge in air at atmospheric pressure, Plasma Sources Science and Technology, vol 25, 044004 (10 pages)


58. T. Hodar, Z. Bonaventura, A. Bourdon and M. Simek (2015) Sub-nanosecond delays of light emitted by streamer in atmospheric pressure air : Analysis of N₂ (C²Πₗ) and N₂⁺ (B²Σ⁺) emissions and fundamental streamer structure Journal of applied physics, vol 117, 073302 (13 pages)

57. F. Tholin, A. Bourdon (2015) Influence of the external electrical circuit on the regimes of a nanosecond repetitively pulsed discharge in air at atmospheric pressure, Plasma Physics and Controlled Fusion, Plasma Physics and controlled fusion, vol 57, 014016 (12 pages)


49. F. Tholin, A. Bourdon (2013) Simulation of the hydrodynamic expansion following a nanosecond pulsed spark discharge in air at atmospheric pressure, *Journal of Physics D: Applied Physics*, vol 46, 365205 (18 pages)

48. F. Tholin, A. Bourdon (2013) Simulation of the stable 'quasi-periodic' glow regime of a nanosecond repetitively pulsed discharge in air at atmospheric pressure, *Plasma Sources Science and Technology*, vol 22, 045014 (14 pages)


44. F. Pechereau, J. Jansky and A. Bourdon (2012) Simulation of the reignition of a discharge behind a dielectric layer in air at atmospheric pressure, *Plasma Sources Science and Technology*, vol 21, 055011 (16 pages) (selected in the "Plasma Sources Science and Technology highlights of 2012")

43. Z. Bonaventura, M. Duarte, A. Bourdon, and M. Massot (2012) Derivation of a merging condition for two interacting streamers in air *Plasma Sources Science and Technology*, vol 21, 052001 (5 pages)


40. T. Magin, M. Panesi, A. Bourdon, R. Jaffe and D. Schwenke (2012) Uniform rovibrational collisional coarse-grain model for internal energy excitation and dissociation of molecular nitrogen, *Chemical Physics, special issue "Chemical Physics of Low Temperature Plasmas (in honour of Prof Mario Capitelli)"*, vol 398, pp 90-95 (6 pages)


34. J. Jansky and A. Bourdon (2011) Surface charge deposition inside a capillary tube by a atmospheric pressure discharge in air, *European Physical Journal - Applied Physics*, vol 55, n°1, 13810 (8 pages)


32. Z. Bonaventura, A. Bourdon, S. Celestin and V. P. Pasko (2011) Electric field determination in streamer discharges in air at atmospheric pressure, *Plasma Sources Science and Technology*, vol 20, 035012 (10 pages)


29. A. Bourdon, Z. Bonaventura and S. Célestin (2010) Influence of the pre-ionization background and simulation of the optical emission of a streamer discharge in preheated air at atmospheric pressure between two point electrodes, *Plasma Sources Science and Technology*, vol 19, 034012 (10 pages)


17. A. Bourdon, V. P. Pasko, N. Y. Liu, S. Célestin, P. Ségur and E. Marode (2007) Efficient models for photoionization produced by non-thermal gas discharges in air
based on radiative transfer and the Helmholtz equations, *Plasma Sources Science and Technology*, vol 16, pp 656-678 (23 pages)


