Anne Bourdon - Publication list up to October 2020

88. A. Bourdon, F. Pechereau, F. Tholin, Z. Bonaventura, Study of the electric field in a diffuse nanosecond positive ionization wave generated in a pin-to-plane geometry in atmospheric pressure air, accepted for publication in Journal of Physics D: Applied Physics (https://doi.org/10.1088/1361-6463/abbc3a)


86. P. Viegas, M. Hofmans, O. van Rooij, A. Obrusnik, B. Klarenaar, Z. Bonaventura, O. Guaitella, A. Sobota and A. Bourdon (2020) Interaction of an atmospheric pressure plasma jet with grounded and floating metallic targets: simulations and experiments, Plasma Sources Science and Technology vol 29, 095011


84. S. Boccelli, T. Charoy, A. Alvarez Laguna, P. Chabert, A. Bourdon and T. E. Magin (2020) Collisionless ion modeling in Hall thrusters: analytical axial velocity distribution function and heat flux closures Physics of Plasmas, vol 27, 073506


82. T. Charoy, T. Lafleur, A. Tavant, P. Chabert, and A. Bourdon (2020) Instability-enhanced electron transport in Hall-effect thrusters Physics of Plasmas, vol 27, 063510 (article featured on the cover of Physics of Plasmas in June 2020)

81. M. Hofmans, P. Viegas, O. van Rooij, B. Klarenaar, O. Guaitella, A. Bourdon and A. Sobota (2020) Characterization of a kHz atmospheric pressure plasma jet: comparison of discharge propagation parameters in experiments and simulations without target, Plasma Sources Science and Technology, vol 29, 034003

80. A. Alvarez-Laguna, T. Magin, M. Massot, A. Bourdon, P. Chabert (2020) Plasma-sheath transition in multi-fluid models with inertial terms under low pressure conditions: Comparison with the classical and kinetic theory, Plasma Sources Science and Technology, vol 29, 025003


78. R. Lucken, A. Tavant, A. Bourdon, M. A. Lieberman, P. Chabert (2020) Saturation of the magnetic confinement in weakly ionized plasma, Plasma Sources Science and Technology, vol 29, 065014

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


68. R. Lucken, V. Croes, T. Lafleur, J.-L. Raimbault, A. Bourdon and P. Chabert (2018) Edge-to-center plasma density ratios in two-dimensional plasma discharges *Plasma Sources Science and Technology*, vol 27, 035004


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

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
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

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


58. T. Hoder, Z. Bonaventura, A. Bourdon and M. Simek (2015) Sub-nanosecond delays of light emitted by streamer in atmospheric pressure air : Analysis of N\textsubscript{2}(C\textsuperscript{3}\Pi\textsubscript{u}) and N\textsubscript{2}\textsuperscript{+}(B\textsuperscript{3}\Sigma\textsuperscript{+}) emissions and fundamental streamer structure *Journal of applied physics*, vol 117, 073302


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


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 (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


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


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


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


