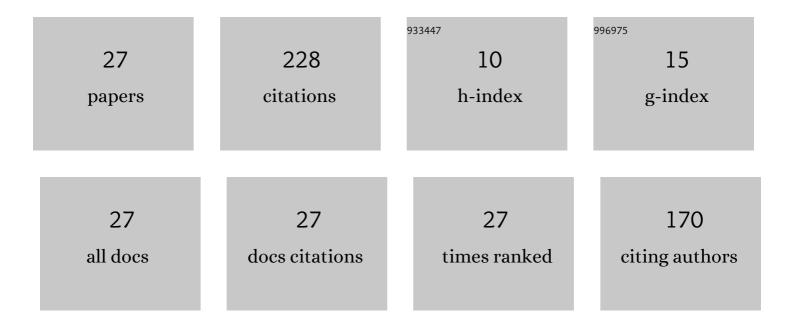
Pedro G C Almeida

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Multiple solutions in the theory of dc glow discharges. Plasma Sources Science and Technology, 2010, 19, 025019. | 3.1 | 27 |
| 2 | Three-Dimensional Modeling of Self-Organization in DC Glow Microdischarges. IEEE Transactions on Plasma Science, 2011, 39, 2190-2191. | 1.3 | 24 |
| 3 | Simulation of pre-breakdown discharges in high-pressure air. I: The model and its application to corona inception. Journal Physics D: Applied Physics, 2019, 52, 355206. | 2.8 | 20 |
| 4 | Analysing bifurcations encountered in numerical modelling of current transfer to cathodes of dc glow and arc discharges. Journal Physics D: Applied Physics, 2009, 42, 194010. | 2.8 | 16 |
| 5 | Computational and Experimental Study of Time-Averaged Characteristics of Positive and Negative DC Corona Discharges in Point-Plane Gaps in Atmospheric Air. IEEE Transactions on Plasma Science, 2020, 48, 4080-4088. | 1.3 | 16 |
| 6 | Self-organization in dc glow microdischarges in krypton: modelling and experiments. Plasma Sources Science and Technology, 2014, 23, 054012. | 3.1 | 15 |
| 7 | Multiple solutions in the theory of direct current glow discharges: Effect of plasma chemistry and nonlocality, different plasma-producing gases, and 3D modelling. Physics of Plasmas, 2013, 20, 101613. | 1.9 | 14 |
| 8 | Calculation of ion mobilities by means of the two-temperature displaced-distribution theory. Journal Physics D: Applied Physics, 2002, 35, 1577-1584. | 2.8 | 13 |
| 9 | Modelling cathode spots in glow discharges in the cathode boundary layer geometry. Journal Physics D: Applied Physics, 2016, 49, 105201. | 2.8 | 13 |
| 10 | Self-consistent modeling of self-organized patterns of spots on anodes of DC glow discharges. Plasma Sources Science and Technology, 2018, 27, 05LT03. | 3.1 | 13 |
| 11 | Study of stability of dc glow discharges with the use of Comsol Multiphysics software. Journal Physics D: Applied Physics, 2011, 44, 415203. | 2.8 | 10 |
| 12 | A practical guide to modeling low-current quasi-stationary gas discharges: Eigenvalue, stationary, and time-dependent solvers. Journal of Applied Physics, 2021, 130, . | 2.5 | 10 |
| 13 | Transient Spots on Cathodes of High-Pressure Arc Discharges. IEEE Transactions on Plasma Science, 2008, 36, 1032-1033. | 1.3 | 8 |
| 14 | Computing Different Modes on Cathodes of DC Glow and Highâ€Pressure Arc Discharges: Timeâ€Dependent Versus Stationary Solvers. Plasma Processes and Polymers, 2017, 14, 1600122. | 3.0 | 7 |
| 15 | Simple computation of ignition voltage of self-sustaining gas discharges. Plasma Sources Science and Technology, 2020, 29, 125005. | 3.1 | 7 |
| 16 | Formation of stationary and transient spots on thermionic cathodes and its prevention. Journal Physics D: Applied Physics, 2008, 41, 144004. | 2.8 | 5 |
| 17 | Bifurcations in the theory of current transfer to cathodes of DC discharges and observations of transitions between different modes. Physics of Plasmas, 2018, 25, . | 1.9 | 4 |
| 18 | Comment on "Electric field measurements under DC corona discharges in ambient air by electric field induced second harmonic generation―[Appl. Phys. Lett. 115, 244101 (2019)]. Applied Physics Letters, 2020, 117, 026101. | 3.3 | 4 |

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|----|--|-----|-----------|
| 19 | Quenching thermal instability in the body of a thermionic arc cathode. Plasma Sources Science and Technology, 2013, 22, 012002. | 3.1 | 1 |
| 20 | A Simple Model of Distribution of Current Over Cathodes of Vacuum Circuit Breakers. IEEE Transactions on Plasma Science, 2019, 47, 3462-3469. | 1.3 | 1 |
| 21 | Real-time prevention of spots on thermionic cathodes in high-pressure ARC discharges. , 2012, , . | | 0 |
| 22 | Predicting self-organization in DC glow microdischarges in different gases with the use of COMSOL Multiphysics. , 2012, , . | | 0 |
| 23 | Computing DC glow and arc discharges by means of COMSOL MultiPhysics: Time-dependent vs. stationary solvers. , 2013, , . | | 0 |
| 24 | Bifurcations of steady-state solutions in DC glow microdischarges. , 2015, , . | | 0 |
| 25 | Three-dimensional modelling of self-organization phenomena in cathode boundary layer discharges using comsol multiphysics. , 2015, , . | | 0 |
| 26 | Computing DC discharges in a wide range of currents with comsol multiphysics: Time-dependent solvers vs. stationary solvers. , 2015, , . | | 0 |
| 27 | Self-organization in dc glow microdischarges in the cathode well configuration. , 2016, , . | | 0 |