Nelly Bonifaci

List of Publications by Year
in descending order

48 papers	879 citations	516710 16 h-index	501196 28 g-index
48 all docs	48 docs citations	48 times ranked	501 citing authors

#	Article	IF	Citations
1	Modelling of Positive Streamers in SF6 Gas under Non-Uniform Electric Field Conditions: Effect of Electronegativity on Streamer Discharges. J, 2022, 5, 255-276.	0.9	4
2	Measurement and analysis of blue shift on the helium 492.2â€¯nm line in a liquid corona discharge. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107248.	2.3	0
3	Field-Time Breakdown Characteristics of Air, N₂, CO₂, and SF₆. IEEE Transactions on Plasma Science, 2020, 48, 3321-3331.	1.3	8
4	Electrodeless atmospheric secondary induced ionization jet (EASII-jet): Dynamics and properties of a transferred helium plasma source. Physics of Plasmas, 2020, 27, .	1.9	2
5	Study of Turn-to-Turn Electrical Breakdown for Superconducting Fault Current Limiter Applications. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	13
6	Broadening of the Neutral Helium 492 nm Line in a Corona Discharge: Code Comparisons and Data Fitting. Atoms, 2018, 6, 19.	1.6	4
7	A New Procedure to Determine the Plasma Parameters from a Genetic Algorithm Coupled with the Spectral Line-Shape Code PPP. Atoms, 2018, 6, 55.	1.6	3
8	Acoustic impulses generated by air-bubble stimulated underwater spark discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 1915-1923.	2.9	5
9	H-Î² Line in a Corona Helium Plasma: A Multi-Code Line Shape Comparison. Atoms, 2018, 6, 29.	1.6	2
10	Spectra, line intensities of the C 1Î£ g + â‡' A 1Î£ u + and c 3Î£ g + â‡' a 3Î£ u. High Temperature, 2017, 55, 165-173.	1.0	2
11	Nonmonotonic distribution of population of the a 3Î£ u + triplet state rotational levels in corona discharge in cryogenic helium gas. High Temperature, 2017, 55, 326-333.	1.0	2
12	Electrical and Acoustic Parameters of Wire-Guided Discharges in Water: Experimental Determination and Phenomenological Scaling. IEEE Transactions on Plasma Science, 2017, 45, 2648-2655.	1.3	4
13	Line Shape Modeling for the Diagnostic of the Electron Density in a Corona Discharge. Atoms, 2017, 5, 35.	1.6	4
14	Impulsive Discharges in Water: Acoustic and Hydrodynamic Parameters. IEEE Transactions on Plasma Science, 2016, 44, 2156-2166.	1.3	25
15	Interaction of Helium Rydberg State Molecules with Dense Helium. Journal of Physical Chemistry A, 2016, 120, 9019-9027.	2.5	6
16	Excimers in the Lowest Rotational Quantum State in Liquid Helium. Journal of Physical Chemistry Letters, 2016, 7, 4666-4670.	4.6	8
17	Modelling the mobility of positive ion clusters in normal liquid helium over large pressure ranges. Physical Chemistry Chemical Physics, 2015, 17, 18535-18540.	2.8	14
18	Formation of Positively Charged Liquid Helium Clusters in Supercritical Helium and their Solidification upon Compression. Journal of Physical Chemistry Letters, 2015, 6, 3036-3040.	4.6	10

#	Article	IF	Citations
19	Deviations from the Paschen's law at short gap distances from 100â€‰nm to 10â€‰Î¼m in air and nitrogen. Applied Physics Letters, 2014, 105, .	3.3	64
20	Contact degradation due to material transfer in MEM switches. Microelectronics Reliability, 2012, 52, 2261-2266.	1.7	14
21	Electron mobility in liquid and supercritical helium measured using corona discharges: a new semi-empirical model for cavity formation. Physical Chemistry Chemical Physics, 2011, 13, 719-724.	2.8	22
22	A Macroscopic Approach to Determine Electron Mobilities in Low-Density Helium. Journal of Low Temperature Physics, 2011, 162, 702-709.	1.4	15
23	Atomic and molecular spectra of normal liquid4He excited by corona discharges. Low Temperature Physics, 2011, 37, 378-383.	0.6	1
24	Streamer propagation and breakdown in natural ester at high voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 1582-1594.	2.9	106
25	Analysis of the He(3 ³ S)-He(2 ³ P) line profile obtained in dense helium plasma. Europhysics Letters, 2009, 88, 53002.	2.0	8
26	Luminescence from Liquid Helium Excited by Corona Discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 742-750.	2.9	14
27	Ionization and charge transport phenomena in liquid helium induced by corona discharge. Journal of Electrostatics, 2008, 66, 263-274.	1.9	10
28	Partial discharges at a triple junction metal/solid insulator/gas and simulation of inception voltage. Journal of Electrostatics, 2008, 66, 319-327.	1.9	23
29	Spectral analysis of the light emitted from streamers in chlorinated alkane and alkene liquids. Journal Physics D: Applied Physics, 2008, 41, 235204.	2.8	11
30	Application de la spectroscopie dâ€™Ã©mission Ã lâ€™Ã©tude des dÃ©charges Ã©lectriques dans les liquides. Journal of Electrostatics, 2006, 64, 445-449.	1.9	5
31	Negative corona discharge in liquid helium. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 624-631.	2.9	9
32	Prebreakdown and breakdown phenomena under uniform field in liquid nitrogen and comparison with mineral oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2003, 10, 970-976.	2.9	22
33	Streamers in liquid nitrogen: characterization and spectroscopic determination of gaseous filament temperature and electron density. Journal Physics D: Applied Physics, 2002, 35, 369-377.	2.8	45
34	Insulating properties of some liquids after an electrical arc. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 3-9.	2.9	10
35	Thermally and electrically induced bubbles in liquid argon and nitrogen. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 17-22.	2.9	23
36	Prebreakdown phenomena at high voltage in liquid nitrogen and comparison with mineral oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 899-909.	2.9	27

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37	Determination of charge mobility in He gas from current-voltage measurements in point-plane geometry. IEEE Transactions on Industry Applications, 2001, 37, 1634-1640.	4.9	11
38	Self-healing of capacitors with metallized film technology:. Journal of Electrostatics, 2001, 53, 159-169.	1.9	70
39	Study of streamer inception in cyclohexane with a sensitive charge measurement technique under impulse voltage. Journal of Electrostatics, 2001, 53, 135-146.	1.9	60
40	Spectral analysis of the light emitted by streamers in hydrocarbon liquids. IEEE Transactions on Dielectrics and Electrical Insulation, 1998, 5, 382-387.	2.9	35
41	Ionization phenomenon in high-density gaseous and liquid argon in corona discharge experiments. Journal Physics D: Applied Physics, 1997, 30, 2717-2725.	2.8	35
42	Onset voltage for corona pulses in gaseous Ar under high pressure and in liquid Ar. IEEE Transactions on Dielectrics and Electrical Insulation, 1995, 2, 137-142.	2.9	5
43	Work functions for a HV cathode in nonpolar liquids. IEEE Transactions on Dielectrics and Electrical Insulation, 1994, 1, 657-662.	2.9	7
44	Hot electron phenomena in liquid and gaseous Ar and N/sub 2/ in divergent electric fields. IEEE Transactions on Dielectrics and Electrical Insulation, 1994, 1, 412-418.	2.9	25
45	Dispositif d'Ã©tude des dÃ©charges couronnes dans les gaz Ã pression Ã©levÃ©e ou liquÃ©fiÃ©s. Journal De Physique III, 1993, 3, 1839-1848.	0.3	0
46	Spectral analysis of light emitted by prebreakdown phenomena in nonpolar liquids and gases. IEEE Transactions on Electrical Insulation, 1991, 26, 610-614.	0.8	25
47	Formation of vapor bubbles in nonpolar liquids initiated by current pulses. IEEE Transactions on Electrical Insulation, 1991, 26, 656-662.	0.8	58
48	Etude de la gÃ©nÃ©ration de bulles dans les hydrocarbures liquides gÃ©nÃ©rÃ©es par les impulsio.ns de Trichel. Journal De Physique III, 1991, 1, 1209-1216.	0.3	3