

Nelly Bonifaci

List of Publications by Year in descending order

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papers

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28
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48
all docs

48
docs citations

48
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Streamer propagation and breakdown in natural ester at high voltage. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 1582-1594.	2.9	106
2	Self-healing of capacitors with metallized film technology. Journal of Electrostatics, 2001, 53, 159-169.	1.9	70
3	Deviations from the Paschen's law at short gap distances from 100 nm to 10 μ m in air and nitrogen. Applied Physics Letters, 2014, 105, .	3.3	64
4	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
5	Formation of vapor bubbles in nonpolar liquids initiated by current pulses. IEEE Transactions on Electrical Insulation, 1991, 26, 656-662.	0.8	58
6	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
7	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
8	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
9	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
10	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
11	Hot electron phenomena in liquid and gaseous Ar and N ₂ in divergent electric fields. IEEE Transactions on Dielectrics and Electrical Insulation, 1994, 1, 412-418.	2.9	25
12	Impulsive Discharges in Water: Acoustic and Hydrodynamic Parameters. IEEE Transactions on Plasma Science, 2016, 44, 2156-2166.	1.3	25
13	Thermally and electrically induced bubbles in liquid argon and nitrogen. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 17-22.	2.9	23
14	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
15	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
16	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
17	A Macroscopic Approach to Determine Electron Mobilities in Low-Density Helium. Journal of Low Temperature Physics, 2011, 162, 702-709.	1.4	15
18	Luminescence from Liquid Helium Excited by Corona Discharges. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 742-750.	2.9	14

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19	Contact degradation due to material transfer in MEM switches. <i>Microelectronics Reliability</i> , 2012, 52, 2261-2266.	1.7	14
20	Modelling the mobility of positive ion clusters in normal liquid helium over large pressure ranges. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18535-18540.	2.8	14
21	Study of Turn-to-Turn Electrical Breakdown for Superconducting Fault Current Limiter Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.7	13
22	Determination of charge mobility in He gas from current-voltage measurements in point-plane geometry. <i>IEEE Transactions on Industry Applications</i> , 2001, 37, 1634-1640.	4.9	11
23	Spectral analysis of the light emitted from streamers in chlorinated alkane and alkene liquids. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 235204.	2.8	11
24	Insulating properties of some liquids after an electrical arc. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2002, 9, 3-9.	2.9	10
25	Ionization and charge transport phenomena in liquid helium induced by corona discharge. <i>Journal of Electrostatics</i> , 2008, 66, 263-274.	1.9	10
26	Formation of Positively Charged Liquid Helium Clusters in Supercritical Helium and their Solidification upon Compression. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3036-3040.	4.6	10
27	Negative corona discharge in liquid helium. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2006, 13, 624-631.	2.9	9
28	Analysis of the He(3 ³ S)-He(2 ³ P) line profile obtained in dense helium plasma. <i>Europhysics Letters</i> , 2009, 88, 53002.	2.0	8
29	Excimers in the Lowest Rotational Quantum State in Liquid Helium. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4666-4670.	4.6	8
30	Field-Time Breakdown Characteristics of Air, N ₂ , CO ₂ , and SF ₆ . <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 3321-3331.	1.3	8
31	Work functions for a HV cathode in nonpolar liquids. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 1994, 1, 657-662.	2.9	7
32	Interaction of Helium Rydberg State Molecules with Dense Helium. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9019-9027.	2.5	6
33	Onset voltage for corona pulses in gaseous Ar under high pressure and in liquid Ar. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 1995, 2, 137-142.	2.9	5
34	Application de la spectroscopie d'émision à l'étude des charges électriques dans les liquides. <i>Journal of Electrostatics</i> , 2006, 64, 445-449.	1.9	5
35	Acoustic impulses generated by air-bubble stimulated underwater spark discharges. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 1915-1923.	2.9	5
36	Electrical and Acoustic Parameters of Wire-Guided Discharges in Water: Experimental Determination and Phenomenological Scaling. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 2648-2655.	1.3	4

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37	Line Shape Modeling for the Diagnostic of the Electron Density in a Corona Discharge. <i>Atoms</i> , 2017, 5, 35.	1.6	4
38	Broadening of the Neutral Helium 492 nm Line in a Corona Discharge: Code Comparisons and Data Fitting. <i>Atoms</i> , 2018, 6, 19.	1.6	4
39	Modelling of Positive Streamers in SF6 Gas under Non-Uniform Electric Field Conditions: Effect of Electronegativity on Streamer Discharges. <i>J.</i> , 2022, 5, 255-276.	0.9	4
40	A New Procedure to Determine the Plasma Parameters from a Genetic Algorithm Coupled with the Spectral Line-Shape Code PPP. <i>Atoms</i> , 2018, 6, 55.	1.6	3
41	Etude de la g�n�ration de bulles dans les hydrocarbures liquides g�n�r�es par les impulsions de Trichel. <i>Journal De Physique III</i> , 1991, 1, 1209-1216.	0.3	3
42	Spectra, line intensities of the C 1�g + � A 1� u + and c 3�g + � a 3� u. <i>High Temperature</i> , 2017, 55, 165-173.	1.0	2
43	Nonmonotonic distribution of population of the a 3� u + triplet state rotational levels in corona discharge in cryogenic helium gas. <i>High Temperature</i> , 2017, 55, 326-333.	1.0	2
44	H-� Line in a Corona Helium Plasma: A Multi-Code Line Shape Comparison. <i>Atoms</i> , 2018, 6, 29.	1.6	2
45	Electrodeless atmospheric secondary induced ionization jet (EASII-jet): Dynamics and properties of a transferred helium plasma source. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	2
46	Atomic and molecular spectra of normal liquid 4He excited by corona discharges. <i>Low Temperature Physics</i> , 2011, 37, 378-383.	0.6	1
47	Measurement and analysis of blue shift on the helium 492.2�nm line in a liquid corona discharge. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 255, 107248.	2.3	0
48	Dispositif d'�tude des d�charges couronnes dans les gaz � pression �lev�e ou liqu�fi�s. <i>Journal De Physique III</i> , 1993, 3, 1839-1848.	0.3	0