

Nicolas NaudÃ©

List of Publications by Year in descending order

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39
papers

1,593
citations

430442

18
h-index

344852

36
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39
all docs

39
docs citations

39
times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric Pressure Low Temperature Direct Plasma Technology: Status and Challenges for Thin Film Deposition. <i>Plasma Processes and Polymers</i> , 2012, 9, 1041-1073.	1.6	298
2	Recent advances in the understanding of homogeneous dielectric barrier discharges. <i>EPJ Applied Physics</i> , 2009, 47, 22805.	0.3	265
3	Glow and Townsend dielectric barrier discharge in various atmosphere. <i>Plasma Physics and Controlled Fusion</i> , 2005, 47, B577-B588.	0.9	241
4	Electrical model and analysis of the transition from an atmospheric pressure Townsend discharge to a filamentary discharge. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 530-538.	1.3	136
5	Deposition of Hydrophobic Functional Groups on Wood Surfaces Using Atmospheric Pressure Dielectric Barrier Discharge in Helium Hexamethyldisiloxane Gas Mixtures. <i>Plasma Processes and Polymers</i> , 2012, 9, 1168-1175.	1.6	71
6	Plasma synthetic jet actuator: electrical and optical analysis of the discharge. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 345202.	1.3	61
7	Polyimide lifetime under partial discharge aging: effects of temperature, pressure and humidity. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 435-442.	1.8	48
8	Absolute nitrogen atom density measurements by two-photon laser-induced fluorescence spectroscopy in atmospheric pressure dielectric barrier discharges of pure nitrogen. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	42
9	Influence of gas flow dynamics on discharge stability and on the uniformity of atmospheric pressure PECVD thin film. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 125201.	1.3	36
10	Role of substrate outgassing on the formation dynamics of either hydrophilic or hydrophobic wood surfaces in atmospheric-pressure, organosilicon plasmas. <i>Surface and Coatings Technology</i> , 2013, 234, 42-47.	2.2	34
11	Electrical model of an atmospheric pressure Townsend-like discharge (APTD). <i>EPJ Applied Physics</i> , 2005, 29, 173-180.	0.3	30
12	Influence of the voltage waveform during nanocomposite layer deposition by aerosol-assisted atmospheric pressure Townsend discharge. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	27
13	Influence of the Spark Discharge Size on a Plasma Synthetic Jet Actuator. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2334-2335.	0.6	24
14	Electron density and temperature in an atmospheric-pressure helium diffuse dielectric barrier discharge from kHz to MHz. <i>Plasma Sources Science and Technology</i> , 2018, 27, 035005.	1.3	24
15	Interaction of atomized colloid with an ac electric field in a dielectric barrier discharge reactor used for deposition of nanocomposite coatings. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 075201.	1.3	21
16	Determination of the electron temperature in plane-to-plane He dielectric barrier discharges at atmospheric pressure. <i>Plasma Sources Science and Technology</i> , 2016, 25, 015011.	1.3	20
17	Fine-tuning of chemical and physical polymer surface modifications by atmospheric pressure post-discharge plasma and its correlation with adhesion improvement. <i>Surface and Coatings Technology</i> , 2019, 362, 388-396.	2.2	20
18	Influence of the Surface Conductivity on the Stability of a Glow Dielectric-Barrier Discharge. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1322-1323.	0.6	19

#	ARTICLE	IF	CITATIONS
19	Design of a current converter to maximize the power into homogeneous dielectric barrier discharge (DBD) devices. EPJ Applied Physics, 2013, 64, 10901.	0.3	16
20	Time-resolved study of the electron temperature and number density of argon metastable atoms in argon-based dielectric barrier discharges. Plasma Sources Science and Technology, 2018, 27, 015015.	1.3	16
21	Investigation of memory effect in atmospheric pressure dielectric barrier discharge in nitrogen with small oxygen or nitric oxide addition. Journal Physics D: Applied Physics, 2018, 51, 354001.	1.3	16
22	Electrical model of the atmospheric pressure glow discharge (APGD) in helium. EPJ Applied Physics, 2006, 33, 15-21.	0.3	15
23	Influence of substrate outgassing on the plasma properties during wood treatment in He dielectric barrier discharges at atmospheric pressure. Plasma Processes and Polymers, 2017, 14, 1600172.	1.6	15
24	The role of associative ionization reactions in the memory effect of atmospheric pressure Townsend discharges in N ₂ with a small O ₂ addition. Journal Physics D: Applied Physics, 2020, 53, 205201.	1.3	13
25	Experimental and modelling study of organization phenomena in dielectric barrier discharges with structurally inhomogeneous wood substrates. Plasma Sources Science and Technology, 2014, 23, 054006.	1.3	11
26	Characterization of argon dielectric barrier discharges applied to ethyl lactate plasma polymerization. Journal Physics D: Applied Physics, 2017, 50, 475205.	1.3	11
27	Modification of microfibrillated cellulosic foams in a dielectric barrier discharge at atmospheric pressure. Plasma Processes and Polymers, 2021, 18, 2000158.	1.6	10
28	Transition from diffuse to self-organized discharge in a high frequency dielectric barrier discharge. EPJ Applied Physics, 2017, 79, 10802.	0.3	9
29	Influence of electromagnetic radiation on the power balance in a radiofrequency microdischarge with a hollow needle electrode. Applied Physics Letters, 2012, 101, .	1.5	6
30	Adding of Nitrogen in Helium DBD: Consequences on the Self-Organization of the Discharge. IEEE Transactions on Plasma Science, 2014, 42, 2816-2817.	0.6	6
31	Maximization of the working domain of an Atmospheric Pressure Townsend Discharge (APTD) using a current-source static converter. Journal of Physics: Conference Series, 2014, 550, 012044.	0.3	6
32	Organization of Dielectric Barrier Discharges in the Presence of Structurally Inhomogeneous Wood Substrates. IEEE Transactions on Plasma Science, 2014, 42, 2366-2367.	0.6	5
33	Influence of a square pulse voltage on argon-ethyl lactate discharges and their plasma-deposited coatings using time-resolved spectroscopy and surface characterization. Physics of Plasmas, 2018, 25, 103504.	0.7	5
34	Refined analysis of current-voltage characteristics in Townsend dielectric barrier discharges in nitrogen at atmospheric pressure. Journal Physics D: Applied Physics, 2021, 54, 095204.	1.3	5
35	On the nature of the discharges in samples fed by bipolar pulse like voltage and its possible impact on the detection of partial discharge in machines fed by inverter. , 2014, , .		4
36	Experimental investigations of a remote atmospheric pressure plasma by electrical diagnostics and related effects on polymer composite surfaces. EPJ Applied Physics, 2021, 95, 30801.	0.3	4

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37	Characterization of non-thermal dielectric barrier discharges at atmospheric pressure in presence of microfibrillated cellulosic foams. Plasma Sources Science and Technology, 2021, 30, 095019.	1.3	2
38	Deposition of TiO ₂ -SiO ₂ nanocomposite coatings using atmospheric-pressure plasmas. , 2016, , .		1
39	New local electrical diagnostic tool for dielectric barrier discharge (DBD). Review of Scientific Instruments, 2021, 92, 053552.	0.6	0