Nicolas NaudÃ©

List of Publications by Year
in descending order

39 papers	1,593 citations	430442 18 h-index	344852 36 g-index
39 all docs	39 docs citations	39 times ranked	1185 citing authors

#	Article	IF	Citations
1	Modification of microfibrillated cellulosic foams in a dielectric barrier discharge at atmospheric pressure. Plasma Processes and Polymers, 2021, 18, 2000158.	1.6	10
2	New local electrical diagnostic tool for dielectric barrier discharge (DBD). Review of Scientific Instruments, 2021, 92, 053552.	0.6	0
3	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
4	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
5	Refined analysis of currentâ€“voltage characteristics in Townsend dielectric barrier discharges in nitrogen at atmospheric pressure. Journal Physics D: Applied Physics, 2021, 54, 095204.	1.3	5
6	The role of associative ionization reactions in the memory effect of atmospheric pressure Townsend discharges in N₂ with a small O₂ addition. Journal Physics D: Applied Physics, 2020, 53, 205201.	1.3	13
7	Fine-tuning of chemical and physical polymer surface modifications by atmospheric pressure post-discharge plasma and its correlation with adhesion improvement. Surface and Coatings Technology, 2019, 362, 388-396.	2.2	20
8	Electron density and temperature in an atmospheric-pressure helium diffuse dielectric barrier discharge from kHz to MHz. Plasma Sources Science and Technology, 2018, 27, 035005.	1.3	24
9	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
10	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
11	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
12	Interaction of atomized colloid with an ac electric field in a dielectric barrier discharge reactor used for deposition of nanocomposite coatings. Journal Physics D: Applied Physics, 2017, 50, 075201.	1.3	21
13	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
14	Characterization of argon dielectric barrier discharges applied to ethyl lactate plasma polymerization. Journal Physics D: Applied Physics, 2017, 50, 475205.	1.3	11
15	Transition from diffuse to self-organized discharge in a high frequency dielectric barrier discharge. EPJ Applied Physics, 2017, 79, 10802.	0.3	9
16	Influence of the voltage waveform during nanocomposite layer deposition by aerosol-assisted atmospheric pressure Townsend discharge. Journal of Applied Physics, 2016, 120, .	1.1	27
17	Deposition of TiO₂-SiO₂ nanocomposite coatings using atmospheric-pressure plasmas. , 2016, , .		1
18	Determination of the electron temperature in plane-to-plane He dielectric barrier discharges at atmospheric pressure. Plasma Sources Science and Technology, 2016, 25, 015011.	1.3	20

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	Plasma synthetic jet actuator: electrical and optical analysis of the discharge. Journal Physics D: Applied Physics, 2014, 47, 345202.	1.3	61
24	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
25	Role of substrate outgassing on the formation dynamics of either hydrophilic or hydrophobic wood surfaces in atmospheric-pressure, organosilicon plasmas. Surface and Coatings Technology, 2013, 234, 42-47.	2.2	34
26	Polyimide lifetime under partial discharge aging: effects of temperature, pressure and humidity. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 435-442.	1.8	48
27	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
28	Deposition of Hydrophobic Functional Groups on Wood Surfaces Using Atmosphericâ€Pressure Dielectric Barrier Discharge in Heliumâ€Hexamethyldisiloxane Gas Mixtures. Plasma Processes and Polymers, 2012, 9, 1168-1175.	1.6	71
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	Atmospheric Pressure Low Temperature Direct Plasma Technology: Status and Challenges for Thin Film Deposition. Plasma Processes and Polymers, 2012, 9, 1041-1073.	1.6	298
31	Influence of the Spark Discharge Size on a Plasma Synthetic Jet Actuator. IEEE Transactions on Plasma Science, 2011, 39, 2334-2335.	0.6	24
32	Absolute nitrogen atom density measurements by two-photon laser-induced fluorescence spectroscopy in atmospheric pressure dielectric barrier discharges of pure nitrogen. Journal of Applied Physics, 2009, 106, .	1.1	42
33	Influence of gas flow dynamics on discharge stability and on the uniformity of atmospheric pressure PECVD thin film. Journal Physics D: Applied Physics, 2009, 42, 125201.	1.3	36
34	Recent advances in the understanding of homogeneous dielectric barrier discharges. EPJ Applied Physics, 2009, 47, 22805.	0.3	265
35	Influence of the Surface Conductivity on the Stability of a Glow Dielectric-Barrier Discharge. IEEE Transactions on Plasma Science, 2008, 36, 1322-1323.	0.6	19
36	Electrical model of the atmospheric pressure glow discharge (APGD) in helium. EPJ Applied Physics, 2006, 33, 15-21.	0.3	15

#	ARTICLE	IF	CITATIONS
37	Electrical model of an atmospheric pressure Townsend-like discharge (APTD). EPJ Applied Physics, 2005, 29, 173-180.	0.3	30
38	Electrical model and analysis of the transition from an atmospheric pressure Townsend discharge to a filamentary discharge. Journal Physics D: Applied Physics, 2005, 38, 530-538.	1.3	136
39	Glow and Townsend dielectric barrier discharge in various atmosphere. Plasma Physics and Controlled Fusion, 2005, 47, B577-B588.	0.9	241