

# Stéphane Pasquiers

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

581  
citations

759233

12  
h-index

610901

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

566  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffuse mode and diffuse-to-filamentary transition in a high pressure nanosecond scale corona discharge under high voltage. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 175202.	2.8	91
2	Plasma Reactivity and Plasma-Surface Interactions During Treatment of Toluene by a Dielectric Barrier Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2008, 28, 429-466.	2.4	74
3	Influence of water on NO removal by pulsed discharge in N <sub>2</sub> /H <sub>2</sub> O/NO mixtures. <i>Plasma Sources Science and Technology</i> , 2002, 11, 152-160.	3.1	63
4	Kinetic of the NO removal by nonthermal plasma in N <sub>2</sub> /NO/C <sub>2</sub> H <sub>4</sub> mixtures. <i>Applied Physics Letters</i> , 2000, 77, 4118-4120.	3.3	53
5	Production and reactivity of the hydroxyl radical in homogeneous high pressure plasmas of atmospheric gases containing traces of light olefins. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 3112-3127.	2.8	52
6	Modification of the electric field distribution in a diffuse streamer-induced discharge under extreme overvoltage. <i>Plasma Sources Science and Technology</i> , 2019, 28, 055016.	3.1	33
7	Detailed Characterization of 2-Heptanone Conversion by Dielectric Barrier Discharge in N <sub>2</sub> and N <sub>2</sub> /O <sub>2</sub> Mixtures. <i>Journal of Physical Chemistry A</i> , 2010, 114, 397-407.	2.5	28
8	LIF spectroscopy applied to the study of non-thermal plasmas for atmospheric pollutant abatement. <i>Comptes Rendus Physique</i> , 2005, 6, 908-917.	0.9	27
9	Electron impact ionization cross-sections of toluene. <i>Chemical Physics Letters</i> , 2007, 434, 188-193.	2.6	22
10	Effect of the gas flow rate on the spatiotemporal distribution of Ar(1s <sub>5</sub> ) absolute densities in a ns pulsed plasma jet impinging on a glass surface. <i>Plasma Sources Science and Technology</i> , 2018, 27, 065003.	3.1	18
11	Production of hydroxyl radicals and removal of acetaldehyde in a photo-triggered discharge in N <sub>2</sub> /O <sub>2</sub> /CH <sub>3</sub> CHO mixtures. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 3446-3450.	2.8	15
12	Impact of an atmospheric argon plasma jet on a dielectric surface and desorption of organic molecules. <i>EPJ Applied Physics</i> , 2016, 75, 24713.	0.7	15
13	Effect Of Propene, n-Decane, and Toluene Plasma Kinetics on NO Conversion in Homogeneous Oxygen-Rich Dry Mixtures at Ambient Temperature. <i>Plasma Chemistry and Plasma Processing</i> , 2007, 27, 414-445.	2.4	12
14	OH density measured by PLIF in a nanosecond atmospheric pressure diffuse discharge in humid air under steep high voltage pulses. <i>Plasma Sources Science and Technology</i> , 2018, 27, 045002.	3.1	12
15	Dynamics and breakdown delay times in neon-ethene and neon-propene photo-triggered discharges. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 882-890.	2.8	11
16	Spatio-temporal distribution of absolute densities of argon metastable 1s <sub>5</sub> state in the diffuse area of an atmospheric pressure nanosecond pulsed argon microplasma jet propagating into ambient air. <i>Journal of Applied Physics</i> , 2019, 126, 073302.	2.5	8
17	Experimental characterization of a ns-pulsed micro-hollow cathode discharge (MHCD) array in a N <sub>2</sub> /Ar mixture. <i>Plasma Sources Science and Technology</i> , 2019, 28, 035003.	3.1	8
18	Ar(1s <sub>5</sub> ) absolute radial densities in a ns-pulsed argon plasma jet impinging on dielectric targets at floating potential – plasma action on organic molecules. <i>Plasma Processes and Polymers</i> , 2018, 15, 1800080.	3.0	7

#	ARTICLE	IF	CITATIONS
19	Experimental study of the effect of water vapor on dynamics of a high electric field non-equilibrium diffuse discharge in air. Journal Physics D: Applied Physics, 2021, 54, 215204.	2.8	7
20	Experimental investigation of a ns-pulsed argon plasma jet for the fast desorption of weakly volatile organic compounds deposited on glass substrates at variable electric potential. Journal Physics D: Applied Physics, 2020, 53, 475202.	2.8	7
21	Cross-comparison of diagnostic and OD modeling of a micro-hollow cathode discharge in the stationary regime in an Ar/N <sub>2</sub> gas mixture. Journal Physics D: Applied Physics, 2022, 55, 105202.	2.8	6
22	Filamentation of a Nanosecond Pulse Corona Discharge in Air-Propane Mixtures at Atmospheric Pressure. IEEE Transactions on Plasma Science, 2011, 39, 2236-2237.	1.3	5
23	Periodic forced flow in a nanosecond pulsed cold atmospheric pressure argon plasma jet. Plasma Sources Science and Technology, 2021, 30, 105021.	3.1	4
24	Real-time analysis of toluene removal in dry air by a dielectric barrier discharge using proton transfer reaction mass spectrometry. Journal Physics D: Applied Physics, 2018, 51, 425201.	2.8	3