JÃ¶rn Winter

List of Publications by Year
in descending order

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33 papers	3,323 citations	279778 23 h-index	414395 32 g-index
33 all docs	33 docs citations	33 times ranked	2361 citing authors

#	Article	IF	Citations
1	Low temperature atmospheric pressure plasma sources for microbial decontamination. Journal Physics D: Applied Physics, 2011, 44, 013002.	2.8	599
2	Atmospheric pressure plasma jets: an overview of devices and new directions. Plasma Sources Science and Technology, 2015, 24, 064001.	3.1	337
3	Estimation of Possible Mechanisms of Escherichia coli Inactivation by Plasma Treated Sodium Chloride Solution. Plasma Processes and Polymers, 2011, 8, 904-913.	3.0	245
4	From RONS to ROS: Tailoring Plasma Jet Treatment of Skin Cells. IEEE Transactions on Plasma Science, 2012, 40, 2986-2993.	1.3	228
5	Quantitative detection of plasma-generated radicals in liquids by electron paramagnetic resonance spectroscopy. Journal Physics D: Applied Physics, 2013, 46, 435401.	2.8	184
6	Controlling the Ambient Air Affected Reactive Species Composition in the Effluent of an Argon Plasma Jet. IEEE Transactions on Plasma Science, 2012, 40, 2788-2794.	1.3	182
7	Tracking plasma generated H₂O₂from gas into liquid phase and revealing its dominant impact on human skin cells. Journal Physics D: Applied Physics, 2014, 47, 285401.	2.8	164
8	On the plasma chemistry of a cold atmospheric argon plasma jet with shielding gas device. Plasma Sources Science and Technology, 2016, 25, 015005.	3.1	161
9	Feed gas humidity: a vital parameter affecting a cold atmospheric-pressure plasma jet and plasma-treated human skin cells. Journal Physics D: Applied Physics, 2013, 46, 295401.	2.8	149
10	Reactive species output of a plasma jet with a shielding gas deviceâ€"combination of FTIR absorption spectroscopy and gas phase modelling. Journal Physics D: Applied Physics, 2014, 47, 145201.	2.8	124
11	Plasma Processes and Plasma Sources in Medicine. Contributions To Plasma Physics, 2012, 52, 644-654.	1.1	120
12	Atomic oxygen in a cold argon plasma jet: TALIF spectroscopy in ambient air with modelling and measurements of ambient species diffusion. Plasma Sources Science and Technology, 2012, 21, 024005.	3.1	92
13	Propagation mechanisms of guided streamers in plasma jets: the influence of electronegativity of the surrounding gas. Plasma Sources Science and Technology, 2015, 24, 035022.	3.1	89
14	Ambient air particle transport into the effluent of a cold atmospheric-pressure argon plasma jet investigated by molecular beam mass spectrometry. Journal Physics D: Applied Physics, 2013, 46, 435203.	2.8	86
15	Decontamination of Microbiologically Contaminated Specimen by Direct and Indirect Plasma Treatment. Plasma Processes and Polymers, 2012, 9, 569-575.	3.0	83
16	Detection of ozone in a MHz argon plasma bullet jet. Plasma Sources Science and Technology, 2012, 21, 034015.	3.1	77
17	The Influence of Feed Gas Humidity Versus Ambient Humidity on Atmospheric Pressure Plasma Jet-Effluent Chemistry and Skin Cell Viability. IEEE Transactions on Plasma Science, 2015, 43, 3185-3192.	1.3	67
18	Atmospheric pressure streamer follows the turbulent argon air boundary in a MHz argon plasma jet investigated by OH-tracer PLIF spectroscopy. Journal Physics D: Applied Physics, 2014, 47, 152001.	2.8	49

#	Article	IF	Citations
19	Aspects of UV-absorption spectroscopy on ozone in effluents of plasma jets operated in air. Journal Physics D: Applied Physics, 2012, 45, 385201.	2.8	47
20	Innovative Plasma Generation in Flexible Biopsy Channels for Innerâ€Tube Decontamination and Medical Applications. Plasma Processes and Polymers, 2012, 9, 67-76.	3.0	46
21	The spatio-temporal distribution of He (2³S₁) metastable atoms in a MHz-driven helium plasma jet is influenced by the oxygen/nitrogen ratio of the surrounding atmosphere. Plasma Sources Science and Technology, 2015, 24, 025015.	3.1	44
22	Characterization of the global impact of low temperature gas plasma on vegetative microorganisms. Proteomics, 2011, 11, 3518-3530.	2.2	41
23	On the development of a deployable cold plasma endoscope. Contributions To Plasma Physics, 2018, 58, 404-414.	1.1	26
24	Enhanced atmospheric pressure plasma jet setup for endoscopic applications. Journal Physics D: Applied Physics, 2019, 52, 024005.	2.8	24
25	Common versus nobleBacillus subtilisdifferentially responds to air and argon gas plasma. Proteomics, 2013, 13, 2608-2621.	2.2	21
26	On the Bullet-Streamer Dualism. IEEE Transactions on Plasma Science, 2014, 42, 2428-2429.	1.3	10
27	Gas temperature in the cathode region of a dc glow discharge with a thermionic cathode. Journal Physics D: Applied Physics, 2008, 41, 085210.	2.8	7
28	Spatial distribution of metastable and resonance atoms in a low-pressure Heâ€“Xe discharge in spot mode. Journal Physics D: Applied Physics, 2012, 45, 055205.	2.8	5
29	Multimodal Nonlinear Microscopy for Therapy Monitoring of Cold Atmospheric Plasma Treatment. Micromachines, 2019, 10, 564.	2.9	5
30	A Systematic Characterization of a Novel Surface Dielectric Barrier Discharge for Biomedical Experiments. Plasma Medicine, 2013, 3, 27-44.	0.6	4
31	Novel focal point multipass cell for absorption spectroscopy on small sized atmospheric pressure plasmas. Review of Scientific Instruments, 2016, 87, 043117.	1.3	4
32	Assembly of Standardized Test Specimen for Microbial Quantification of Plasma Sterilization Processes of Fine PTFE Tubes as Used in Thermo Sensitive Medical Devices Like Flexible Endoscopes. Plasma Processes and Polymers, 2011, 8, 200-207.	3.0	3
33	Spot Mode Operation of a Low-Pressure Heliumâ€“Xenon Glow Discharge. IEEE Transactions on Plasma Science, 2011, 39, 2540-2541.	1.3	0