

Alexander F Gutsol

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2613974/publications.pdf>

Version: 2024-02-01

25
papers

5,439
citations

394421

19
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

3751
citing authors

#	ARTICLE	IF	CITATIONS
1	Applied Plasma Medicine. Plasma Processes and Polymers, 2008, 5, 503-533.	3.0	1,790
2	Blood Coagulation and Living Tissue Sterilization by Floating-Electrode Dielectric Barrier Discharge in Air. Plasma Chemistry and Plasma Processing, 2006, 26, 425-442.	2.4	589
3	Floating Electrode Dielectric Barrier Discharge Plasma in Air Promoting Apoptotic Behavior in Melanoma Skin Cancer Cell Lines. Plasma Chemistry and Plasma Processing, 2007, 27, 163-176.	2.4	533
4	The 2012 Plasma Roadmap. Journal Physics D: Applied Physics, 2012, 45, 253001.	2.8	511
5	Comparison of Direct and Indirect Effects of Non-Thermal Atmospheric-Pressure Plasma on Bacteria. Plasma Processes and Polymers, 2007, 4, 370-375.	3.0	487
6	Mechanism of Blood Coagulation by Nonthermal Atmospheric Pressure Dielectric Barrier Discharge Plasma. IEEE Transactions on Plasma Science, 2007, 35, 1559-1566.	1.3	270
7	Characterization of a dc atmospheric pressure normal glow discharge. Plasma Sources Science and Technology, 2005, 14, 700-711.	3.1	244
8	Spectroscopic studies and rotational and vibrational temperature measurements of atmospheric pressure normal glow plasma discharges in air. Plasma Sources Science and Technology, 2006, 15, 818-827.	3.1	149
9	Combustion Enhancement via Stabilized Piecewise Nonequilibrium Gliding Arc Plasma Discharge. AIAA Journal, 2006, 44, 142-150.	2.6	146
10	Rapid Inactivation of Airborne Bacteria Using Atmospheric Pressure Dielectric Barrier Grating Discharge. IEEE Transactions on Plasma Science, 2007, 35, 1501-1510.	1.3	116
11	On-board plasma-assisted conversion of heavy hydrocarbons into synthesis gas. Fuel, 2010, 89, 1187-1192.	6.4	101
12	Simulation of dc atmospheric pressure argon micro glow-discharge. Plasma Sources Science and Technology, 2006, 15, 676-688.	3.1	99
13	Characteristics of Gliding Arc and Its Application in Combustion Enhancement. Journal of Propulsion and Power, 2008, 24, 1216-1228.	2.2	82
14	Simulation of gas species and temperature separation in the counter-flow Ranque-Hilsch vortex tube using the large eddy simulation technique. International Journal of Heat and Mass Transfer, 2009, 52, 3320-3333.	4.8	66
15	Cold Plasma Inactivation of <i>Bacillus cereus</i> and <i>Bacillus anthracis</i> (Anthrax) Spores. IEEE Transactions on Plasma Science, 2010, 38, 1878-1884.	1.3	48
16	Inactivation of Bacteria in Flight by Direct Exposure to Nonthermal Plasma. IEEE Transactions on Plasma Science, 2010, 38, 3234-3240.	1.3	46
17	Spatially Resolved Temperature Measurements of Atmospheric-Pressure Normal Glow Microplasmas in Air. IEEE Transactions on Plasma Science, 2007, 35, 1448-1455.	1.3	35
18	Modeling of direct current micro-plasma discharges in atmospheric pressure hydrogen. Plasma Sources Science and Technology, 2007, 16, 619-634.	3.1	31

#	ARTICLE	IF	CITATIONS
19	A Study of Two-Dimensional Microdischarge Pattern Formation in Dielectric Barrier Discharges. Plasma Chemistry and Plasma Processing, 2006, 26, 127-135.	2.4	23
20	CO2-Free Energy and Hydrogen Production from Hydrocarbons. Energy & Fuels, 2006, 20, 1242-1249.	5.1	19
21	Removal of CaCO3 scales on a filter membrane using plasma discharge in water. International Journal of Heat and Mass Transfer, 2009, 52, 4901-4906.	4.8	18
22	High conversion of hydrogen sulfide in gliding arc plasmatron. International Journal of Hydrogen Energy, 2017, 42, 68-75.	7.1	12
23	Transverse 2-D Gliding Arc Modeling. IEEE Transactions on Plasma Science, 2017, 45, 555-564.	1.3	9
24	Dielectric Barrier Discharge Plasma in Coagulation and Sterilization.. Blood, 2006, 108, 4043-4043.	1.4	8
25	Non-thermal plasma-assisted fuel conversion for green chemistry. Journal Physics D: Applied Physics, 2011, 44, 270301.	2.8	7