Jerzy Mizeraczyk

List of Publications by Year
in descending order

80	1,299	430754	360920
papers	citations	18 h-index	35 g-index

81	81	81	1138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observation of OH radicals produced by pulsed discharges on the surface of a liquid. Plasma Sources Science and Technology, 2011, 20, 034010.	1.3	271
2	Production of hydrogen via methane reforming using atmospheric pressure microwave plasma. Journal of Power Sources, 2008, 181, 41-45.	4.0	102
3	Electrohydrodynamic gas flow in a positive polarity wire-plate electrostatic precipitator and the related dust particle collection efficiency. Journal of Electrostatics, 2006, 64, 259-262.	1.0	79
4	Microwave plasma-based method of hydrogen production via combined steam reforming of methane. Energy, 2016, 113, 653-661.	4.5	72
5	Measurements of the velocity field of the flue gas flow in an electrostatic precipitator model using PIV method. Journal of Electrostatics, 2001, 51-52, 272-277.	1.0	66
6	CFC-11 destruction by microwave torch generated atmospheric-pressure nitrogen discharge. Journal Physics D: Applied Physics, 2002, 35, 2274-2280.	1.3	47
7	LIF imaging of OH radicals in DC positive streamer coronas. Thin Solid Films, 2007, 515, 4266-4271.	0.8	47
8	Chemical Kinetics of Methane Pyrolysis in Microwave Plasma at Atmospheric Pressure. Plasma Chemistry and Plasma Processing, 2014, 34, 313-326.	1.1	46
9	Liquid fuel reforming using microwave plasma at atmospheric pressure. Plasma Sources Science and Technology, 2016, 25, 035022.	1.3	40
10	Destruction of Freon HFC-134a Using a Nozzleless Microwave Plasma Source. Plasma Chemistry and Plasma Processing, 2009, 29, 363-372.	1.1	35
11	Plasma processing methods for hydrogen production. EPJ Applied Physics, 2016, 75, 24702.	0.3	34
12	Particle precipitation efficiency in an electrostatic precipitator. Journal of Electrostatics, 2005, 63, 761-766.	1.0	33
13	Hazardous gas treatment using atmospheric pressure microwave discharges. Plasma Physics and Controlled Fusion, 2005, 47, B589-B602.	0.9	31
14	Numerical Analysis and Optimization of Power Coupling Efficiency in Waveguide-Based Microwave Plasma Source. IEEE Transactions on Plasma Science, 2011, 39, 1935-1942.	0.6	29
15	Hydrogen production from ethanol in nitrogen microwave plasma at atmospheric pressure. Open Chemistry, 2015, 13, .	1.0	26
16	Production of hydrogen via conversion of hydrocarbons using a microwave plasma. Journal Physics D: Applied Physics, 2011, 44, 194002.	1.3	25
17	Atmospheric pressure low-power microwave microplasma source for deactivation of microorganisms. EPJ Applied Physics, 2013, 61, 24309.	0.3	21
18	Improvement in selective catalytic reduction of nitrogen oxides by using dielectric barrier discharge. Chemical Engineering Journal, 2005, 110, 79-85.	6.6	19

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19	DC negative corona discharge characteristics in air flowing transversely and longitudinally through a needle-plate electrode gap. Journal of Electrostatics, 2018, 92, 24-30.	1.0	19
20	Hydrogen production by direct injection of ethanol microdroplets into nitrogen microwave plasma flame. International Journal of Hydrogen Energy, 2018, 43, 21196-21208.	3.8	16
21	Closed SDBD-driven two-stage electrostatic precipitator. Journal of Cleaner Production, 2019, 226, 74-84.	4.6	15
22	Modelling of discharge in a high-flow microwave plasma source (MPS). European Physical Journal D, 2013, 67, 1.	0.6	14
23	Microwave plasma for hydrogen production from liquids. Nukleonika, 2016, 61, 185-190.	0.3	14
24	Plasma Sheet Generated by Microwave Discharge at Atmospheric Pressure. IEEE Transactions on Plasma Science, 2011, 39, 2136-2137.	0.6	13
25	Comparison of airflow patterns produced by DBD actuators with smooth or saw-like discharge electrode. Journal of Physics: Conference Series, 2011, 301, 012018.	0.3	12
26	Visualization of Dust Collection in DC-Corona-Driven Electrostatic Precipitator. IEEE Transactions on Plasma Science, 2011, 39, 2260-2261.	0.6	10
27	Hydrogen-enriched gas production from kerosene using an atmospheric pressure microwave plasma system. Fuel, 2018, 215, 686-694.	3.4	10
28	Controlled generation of a single Trichel pulse and a series of single Trichel pulses in air. Journal Physics D: Applied Physics, 2018, 51, 155204.	1.3	10
29	Time Evolution of Pulsed Streamer Discharge in Water. IEEE Transactions on Plasma Science, 2008, 36, 922-923.	0.6	9
30	Particle image velocimetry measurements of wire-nonparallel plates type electrohydrodynamic gas pump. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 312-319.	1.8	9
31	Pumping Effect Measured by PIV Method in a Multilayer Spike Electrode EHD Device for Air Cleaning. IEEE Transactions on Industry Applications, 2013, 49, 2402-2408.	3.3	9
32	Observing Three-Dimensional Structures of Streamer Discharge Channels. IEEE Transactions on Plasma Science, 2011, 39, 2228-2229.	0.6	8
33	Hydrogen production by conversion of ethanol injected into a microwave plasma. European Physical Journal D, 2017, 71, 1.	0.6	8
34	Characteristics of laser-induced streamer corona discharge in a needle-to-plate electrode system. Journal of Electrostatics, 2002, 55, 343-350.	1.0	7
35	Improvement of Energy Transfer in a Cavity-Type 915-MHz Microwave Plasma Source. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 711-716.	2.9	7
36	Temporal-spatial distribution of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>N</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mr		

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37	Analysis of the tuning characteristics of microwave plasma source. Physics of Plasmas, 2016, 23, 043507.	0.7	6
38	Flow visualization and current distributions for a corona radical shower reactor. Journal of Electrostatics, 2004, 61, 223-230.	1.0	5
39	Phenol Oxidation in Aqueous Solution by Gas Phase Corona Discharge. Journal of Advanced Oxidation Technologies, 2006, 9, .	0.5	5
40	A new measurement method of DC corona-discharge characteristics using repetitive ramp and triangular voltages. Journal of Electrostatics, 2020, 108, 103525.	1.0	5
41	Flow Distribution Measurement in Wire-nonparallel Plate Type Electrohydrodynamic Gas Pump by a Particle Image Velocimetry. IEEE Transactions on Dielectrics and Electrical Insulation, 2009, 16, 601-607.	1.8	4
42	Numerical Analysis of Tuning Procedure of a Waveguide-Based Microwave Plasma Source. IEEE Transactions on Plasma Science, 2011, 39, 2906-2907.	0.6	4
43	Investigation of Three-Dimensional Characteristics of Underwater Streamer Discharges. Japanese Journal of Applied Physics, 2012, 51, 106101.	0.8	4
44	Negative DC corona discharge current characteristics in a flowing two-phase (air + suspended smoke) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	4
45	Characterisation of pulsed discharge in water. EPJ Applied Physics, 2013, 64, 10801.	0.3	3
46	Recent progress in direct exposure of interconnects on PCBs. Circuit World, 2016, 42, 42-47.	0.7	3
47	Characterization of an Atmospheric-Pressure Argon Plasma Generated by 915â€‰MHz Microwaves Using Optical Emission Spectroscopy. Journal of Spectroscopy, 2017, 2017, 1-6.	0.6	3
48	Introduction to investigations of the negative corona and EHD flow in gaseous two-phase fluids. Plasma Science and Technology, 2018, 20, 054020.	0.7	3
49	Controlled generation of single Trichel pulses and inherent EHD particle flow structures in a two-phase fluid (air and smoke particles). Journal of Electrostatics, 2018, 92, 38-44.	1.0	3
50	DECOMPOSITION OF FREONS IN ATMOSPHERIC-PRESSURE AIR USING COAXIAL-LINE-BASED LOW-POWER MICROWAVE TORCH PLASMA. High Temperature Material Processes, 2002, 6, 4.	0.2	3
51	Imaging and emission spectroscopy of the submicrosecond plasma generated from copper substrate with nanosecond laser pulses. Applied Optics, 2020, 59, 8388.	0.9	3
52	A Method for Underwater Wireless Data Transmission in a Hydroacoustic Channel under NLOS Conditions. Sensors, 2021, 21, 7825.	2.1	3
53	‹title›Flow patterns measurements with PIV laser method‹/title›. , 2007, , .		2
54	Temporal and Spatial Development of the EM Field in a Shielding Enclosure with Aperture after Transient Interference Caused by a Subnanosecond High-Energy EM Plane Wave Pulse. Energies, 2021, 14, 3884.	1.6	2

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55	Vector-Field Visualization of the Total Reflection of the EM Wave by an SRR Structure at the Magnetic Resonance. Energies, 2022, 15, 111.	1.6	2
56	Streamer Corona Discharge Induced by Laser Pulses During LIF Measurements in a DC Non-thermal Plasma Reactor for NO Oxidation. Journal of Advanced Oxidation Technologies, 2002, 5, .	0.5	1
57	Microwave Torch Plasmas for Decomposition of Gaseous Pollutants. Journal of Advanced Oxidation Technologies, 2004, 7, .	0.5	1
58	Comparison of new generation lasers: MOPA-CuBr laser and Nd:YAG laser used for precision processing of the materials. , 2005, , .		1
59	Bubble flow measurements in pulsed streamer discharge in water using particle image velocimetry. Journal of Physics: Conference Series, 2008, 142, 012036.	0.3	1
60	Biomethane reforming in DBD nonequilibrium plasma. , 2012, , .		1
61	Time-Resolved Observation of the Ablation Plasma Plume Dynamics during Nanosecond Laser Micromachining. , 2012, , .		1
62	Investigation of the laser generated ablation plasma plume dynamics and plasma plume sound wave dynamics. Proceedings of SPIE, 2013, , .	0.8	1
63	Optical emission spectroscopy of plasma generated by a waveguide-supplied microwave plasma source operated at 915 MHz. Physica Scripta, 2014, T161, 014055.	1.2	1
64	Electrodynamic characterization of a cavity-type microwave plasma source. , 2017, , .		1
65	3-Dimensional Observation for Filamentary Channels in Streamer Discharges. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 683-689.	0.2	1
66	UrzÄ...dzenie laserowe do naÅ›wietlania masek przeciwlutowych. Przeglad Elektrotechniczny, 2016, 1, 120-123.	0.1	1
67	Implementation of a single-shot LIF technique for 2-D imaging of metastable nitrogen molecules in a discharge afterglow at sub-atmospheric pressures. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111262.	2.5	1
68	Progress in the Visualization of Filamentary Gas Discharges. Part 2: Visualization of DC Positive Corona Discharges. Journal of Advanced Oxidation Technologies, 2004, 7, .	0.5	0
69	Comparison of laser induced streamers to regular streamers in the positive DC corona discharge. , 2005, 5830, 130.		0
70	<title>Flow diagnostics using particle image velocimetry method</title>. , 2006, , .		0
71	<title>PIV laser method for investigations of the dust density influence on the dust flow structure in electrostatic precipitator</title>. , 2006, , .		0
72	<title>CuBr laser visulization of the bubbles flow in a pulsed discharge in water</title>. , 2007, , .		0

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73	Time resolved imaging of pulsed streamer discharge in water. , 2008, , .		0
74	Measurements of EHD flow patterns in ESP with DC+Pulsed voltage hybrid power supply. Journal of Physics: Conference Series, 2008, 142, 012037.	0.3	0
75	Decontamination of microorganisms by low-temperature atmospheric pressure microplasma. , 2012, , .		0
76	Optical emission spectroscopy of plasma in waveguide-supplied nozzleless microwave source. , 2012, , .		0
77	A Prototype Femtosecond Laser System for Precise Micromachining. , 2012, , .		0
78	Direct and indirect studies of the gaseous charged species in surface dielectric barrier discharge in plasma actuator. , 2017, , .		0
79	An improved conversion of the microwave energy into plasma in an optimized microwave plasma sheet source at 2.45ÂGHz designed for surface treatment. Plasma Sources Science and Technology, 2021, 30, 055006.	1.3	0
80	Investigation of Three-Dimensional Characteristics of Underwater Streamer Discharges. Japanese Journal of Applied Physics, 2012, 51, 106101.	0.8	0