

# Radu Burlica

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

919  
citations

933447

10  
h-index

794594

19  
g-index

54  
all docs

54  
docs citations

54  
times ranked

756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of reactive species in gliding arc discharges with liquid water. Journal of Electrostatics, 2006, 64, 35-43.	1.9	272
2	Formation of H <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> in a Water-Spray Gliding Arc Nonthermal Plasma Reactor. Industrial & Engineering Chemistry Research, 2010, 49, 6342-6349.	3.7	105
3	Organic dye removal from aqueous solution by gliding arc discharges. Journal of Electrostatics, 2004, 62, 309-321.	1.9	104
4	Pulsed Plasma Gliding-Arc Discharges With Water Spray. IEEE Transactions on Industry Applications, 2008, 44, 482-489.	4.9	90
5	Bacteria Inactivation Using Low Power Pulsed Gliding Arc Discharges with Water Spray. Plasma Processes and Polymers, 2010, 7, 640-649.	3.0	84
6	Hydrogen Generation by Pulsed Gliding Arc Discharge Plasma with Sprays of Alcohol Solutions. Industrial & Engineering Chemistry Research, 2011, 50, 9466-9470.	3.7	65
7	Plant growth promotion effect of plasma activated water on Lactuca sativa L. cultivated in two different volumes of substrate. Scientific Reports, 2020, 10, 20920.	3.3	35
8	Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics. Journal of Cleaner Production, 2019, 232, 451-461.	9.3	23
9	Effects of the Voltage and Current Waveforms and Discharge Power on Hydrogen Peroxide Formation in Water-Spray Gliding Arc Reactors. IEEE Transactions on Industry Applications, 2013, 49, 1098-1103.	4.9	17
10	Analysis of plasma activated water by gliding arc at atmospheric pressure: Effect of the chemical composition of water on the activation. Journal of Applied Physics, 2021, 129, .	2.5	17
11	Considerations regarding the influence of contact resistance on the contacts of low voltage electrical equipment. , 2016, , .		10
12	Treatment of Polymeric Films Used for Printed Electronic Circuits Using Ambient Air DBD Non-Thermal Plasma. Materials, 2022, 15, 1919.	2.9	7
13	NON-THERMAL PLASMA MINI-REACTORS FOR WATER TREATMENT. Environmental Engineering and Management Journal, 2019, 18, 1799-1807.	0.6	6
14	Effect of Pressure on Discharge Initiation and Chemical Reaction in a Liquid-Phase Electrical Discharge Reactor. IEEE Transactions on Industry Applications, 2009, 45, 630-637.	4.9	5
15	Optical Diagnostics of Electrical Discharge Water-Spray Reactors for Chemical Synthesis. IEEE Transactions on Industry Applications, 2013, 49, 305-310.	4.9	5
16	Morphological, Physiological and Productive Indicators of Lettuce under Non-thermal Plasma. , 2018, , .		5
17	DIRECT AND DELAYED DEGRADATION OF AZORUBIN (E122) BY GLIDING ARC DISCHARGES. Environmental Engineering and Management Journal, 2015, 14, 2737-2746.	0.6	5
18	Effect of non-thermal plasma on aqueous solutions treated in surface gliding discharges reactors. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
19	Effect of Non-Thermal Activated Water on Lactuca Sativa L. Germination Dynamic. , 2018, , .		4
20	DBD Plasma in Air Reactor for Polymeric Surfaces Treatment. , 2020, , .		4
21	Destruction plasmachimique d'urée et de thiourée par décharge électrique à pression atmosphérique, Revue Des Sciences De L'Eau, 2007, 20, 265-272.	0.2	3
22	Reduction of electromagnetic perturbations for cold plasma electrochemical reactors using electromagnetic screening. , 2010, , .		3
23	Overvoltage Differential Protection of Low Voltage Circuits. , 2018, , .		3
24	EFFECT OF ELECTRICAL CURRENT ON H2/ H2O2 GENERATION IN NON-THERMAL PLASMA GLIDING ARC REACTORS. Environmental Engineering and Management Journal, 2011, 10, 579-583.	0.6	3
25	Confined plasma gliding arc discharges. International Journal of Environment and Waste Management, 2008, 2, 484.	0.3	2
26	The study of an electric spark for igniting a fuel mixture. , 2010, , .		2
27	A new solar energy converting system with vertical photovoltaic panels. , 2014, , .		2
28	A comparative study of non-thermal plasma Glidarc reactors. , 2014, , .		2
29	Zirconium and titanium surface treatment using non-thermal plasma for dentistry applications. , 2014, , .		2
30	Short-circuit Thermal State of a Withdrawable Contact. , 2018, , .		2
31	Energy Efficiency Evaluation of HV Power Supplies for Non-Thermal Plasma Generation. , 2019, , .		2
32	Electromagnetic field radiation generated by pulsed non-thermal plasma discharge. , 2019, , .		2
33	Voltage Polarity Influence on NTP Energy Efficiency of Point-to-Point Reactor. , 2019, , .		2
34	The Influence of NTP Reactor Geometry on H2 O2 Generation in Water. , 2020, , .		2
35	Hydrogen and hydrogen peroxide formation in the AC water-spray gliding arc reactor. , 2010, , .		1
36	Effect of the voltage waveforms and power on hydrogen and hydrogen peroxide formation in water-spray gliding arc reactor. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
37	The evolution of aqueous solutions properties exposed to a GlidArc discharge. , 2012, , .		1
38	The influence of the dispersion flux on the connection transient regime for DC electromagnets. , 2012, , .		1
39	The effect of gas and solution flow rate on nitrates and H <sub>2</sub> O <sub>2</sub> generation in NTP discharges. , 2016, , .		1
40	Simulating Electrical Connections in Terms of Thermal Stresses. , 2018, , .		1
41	Surface Treatment of Polyethylene Terephthalate Film Using a DBD Non-Thermal Plasma Reactor. , 2021, , .		1
42	DBD Non-Thermal Plasma Used on Surface Treatment of Polymeric Film for Food Packaging. , 2021, , .		1
43	Effect of Pressure on Chemical Reaction in a Liquid Phase Electrical Discharge Reactor. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0
44	Effect of Pressure on Chemical Reaction in a Liquid Phase Electrical Discharge Reactor. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0
45	Optical diagnostics of electrical discharge water spray reactors for chemical synthesis. , 2011, , .		0
46	Fault current protection control by di/dt. , 2014, , .		0
47	Effect of a semi-cylindrical wind shield on the power output of a vertical axis wind turbine. , 2014, , .		0
48	Evaluation of Reactive Species Produced in Water by GlidArc Plasma. , 2018, , .		0
49	Ayrton Relation Applied for Medium Voltage AC Electrical Discharges. , 2018, , .		0
50	Temperature influence in Direct Green 26 dye degradation rate with non-thermal plasma. , 2018, , .		0
51	Capacitive Power Supply for Double Spark Plug Ignition System. , 2019, , .		0
52	Electromagnetic Field Radiation Generated by Dielectric Barrier Discharge. , 2021, , .		0
53	Technical Condition Monitoring of Impedance Bonds using Sensors and Dedicated Device. , 2020, , .		0