

Gregory Fridman

List of Publications by Year in descending order

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57
papers

6,717
citations

172457

29
h-index

197818

49
g-index

62
all docs

62
docs citations

62
times ranked

4316
citing authors

#	ARTICLE	IF	CITATIONS
1	Applied Plasma Medicine. Plasma Processes and Polymers, 2008, 5, 503-533.	3.0	1,790
2	Physical and biological mechanisms of direct plasma interaction with living tissue. New Journal of Physics, 2009, 11, 115020.	2.9	641
3	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
4	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
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	Nonthermal Dielectric-Barrier Discharge Plasma-Induced Inactivation Involves Oxidative DNA Damage and Membrane Lipid Peroxidation in <i>Escherichia coli</i> . Antimicrobial Agents and Chemotherapy, 2011, 55, 1053-1062.	3.2	395
7	Mechanism of Blood Coagulation by Nonthermal Atmospheric Pressure Dielectric Barrier Discharge Plasma. IEEE Transactions on Plasma Science, 2007, 35, 1559-1566.	1.3	270
8	Reactive nitrogen species produced in water by non-equilibrium plasma increase plant growth rate and nutritional yield. Current Applied Physics, 2013, 13, S19-S29.	2.4	179
9	Nanosecond-Pulsed DBD Plasma-Generated Reactive Oxygen Species Trigger Immunogenic Cell Death in A549 Lung Carcinoma Cells through Intracellular Oxidative Stress. International Journal of Molecular Sciences, 2017, 18, 966.	4.1	159
10	Targeted drug delivery to magnetic implants for therapeutic applications. Journal of Magnetism and Magnetic Materials, 2005, 293, 647-654.	2.3	154
11	Nonequilibrium Plasma-Activated Antimicrobial Solutions are Broad-Spectrum and Retain their Efficacies for Extended Period of Time. Plasma Processes and Polymers, 2013, 10, 544-555.	3.0	107
12	White paper on the future of plasma science in environment, for gas conversion and agriculture. Plasma Processes and Polymers, 2019, 16, 1700238.	3.0	104
13	Uniform Nanosecond Pulsed Dielectric Barrier Discharge Plasma Enhances Anti-Tumor Effects by Induction of Immunogenic Cell Death in Tumors and Stimulation of Macrophages. Plasma Processes and Polymers, 2015, 12, 1392-1399.	3.0	97
14	Treatment of Raw Poultry with Nonthermal Dielectric Barrier Discharge Plasma To Reduce <i>Campylobacter jejuni</i> and <i>Salmonella enterica</i> . Journal of Food Protection, 2012, 75, 22-28.	1.7	84
15	Validation of High Gradient Magnetic Field Based Drug Delivery to Magnetizable Implants Under Flow. IEEE Transactions on Biomedical Engineering, 2008, 55, 643-649.	4.2	75
16	Porcine intact and wounded skin responses to atmospheric nonthermal plasma. Journal of Surgical Research, 2013, 179, e1-e12.	1.6	67
17	Plasma Stimulation of Migration of Macrophages. Plasma Processes and Polymers, 2014, 11, 1193-1197.	3.0	65
18	Skeletal Cell Differentiation Is Enhanced by Atmospheric Dielectric Barrier Discharge Plasma Treatment. PLoS ONE, 2013, 8, e82143.	2.5	54

#	ARTICLE	IF	CITATIONS
19	Successful treatment of actinic keratoses using nonthermal atmospheric pressure plasma: A case series. <i>Journal of the American Academy of Dermatology</i> , 2017, 76, 349-350.	1.2	53
20	Heating Effect of Dielectric Barrier Discharges for Direct Medical Treatment. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 113-120.	1.3	48
21	Cold Plasma Inactivation of <i>Bacillus cereus</i> and <i>Bacillus anthracis</i> (Anthrax) Spores. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1878-1884.	1.3	48
22	Inactivation of Bacteria in Flight by Direct Exposure to Nonthermal Plasma. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 3234-3240.	1.3	46
23	Deep Penetration into Tissues of Reactive Oxygen Species Generated in Floating-Electrode Dielectric Barrier Discharge (FE-DBD): An In Vitro Agarose Gel Model Mimicking an Open Wound. <i>Plasma Medicine</i> , 2012, 2, 71-83.	0.6	39
24	Non-equilibrium Dielectric Barrier Discharge Treatment of Mesenchymal Stem Cells: Charges and Reactive Oxygen Species Play the Major Role in Cell Death. <i>Plasma Processes and Polymers</i> , 2015, 12, 1117-1127.	3.0	36
25	Effects of cold plasma treatments on spot-inoculated <i>Escherichia coli</i> O157:H7 and quality of baby kale (<i>Brassica oleracea</i>) leaves. <i>Innovative Food Science and Emerging Technologies</i> , 2019, 57, 102104.	5.6	34
26	Bacterial Inactivation in Liquids Using Multi-Gas Plasmas. <i>Plasma Medicine</i> , 2012, 2, 237-247.	0.6	29
27	Cold Spark Discharge Plasma Treatment of Inflammatory Bowel Disease in an Animal Model of Ulcerative Colitis. <i>Plasma Medicine</i> , 2011, 1, 3-19.	0.6	27
28	Non-thermal dielectric barrier discharge plasma treatment of endothelial cells. , 2008, 2008, 3578-81.		25
29	Use of Non-Thermal Atmospheric Pressure Plasma Discharge for Coagulation and Sterilization of Surface Wounds. <i>IEEE International Conference on Plasma Science</i> , 2005, , .	0.0	23
30	Effect of electrolyzed high-pH alkaline water on blood viscosity in healthy adults. <i>Journal of the International Society of Sports Nutrition</i> , 2016, 13, 45.	3.9	23
31	Spatially Resolved Optical Emission Spectroscopy of a Helium Plasma Jet and its Effects on Wound Healing Rate in a Diabetic Murine Model. <i>Plasma Medicine</i> , 2014, 4, 177-191.	0.6	20
32	Cold Plasma Sterilization of Open Wounds: Live Rat Model. <i>Plasma Medicine</i> , 2011, 1, 109-114.	0.6	18
33	Fast Blood Coagulation of Capillary Vessels by Cold Plasma: A Rat Ear Bleeding Model. <i>Plasma Medicine</i> , 2011, 1, 241-247.	0.6	16
34	Plasma Bullets Propagation Inside of Agarose Tissue Model. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 1725-1730.	1.3	14
35	Microsecond-Pulsed Dielectric Barrier Discharge Plasma-Treated Mist for Inactivation of <i>Escherichia coli</i> <itali>In Vitro</itali>. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 395-402.	1.3	13
36	Nonthermal Plasma Reduces Water Consumption While Accelerating <i>Arabidopsis thaliana</i> Growth and Fecundity. <i>Plasma Medicine</i> , 2015, 5, 87-98.	0.6	11

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37	Microbial Inactivation by Non-equilibrium Short-Pulsed Atmospheric Pressure Dielectric Barrier Discharge (Cold Plasma): Numerical and Experimental Studies. Food Engineering Reviews, 2021, 13, 136-147.	5.9	11
38	Mechanisms of Biocidal Activity of Dielectric Barrier Discharge Air Jet with Misting. Plasma Medicine, 2016, 6, 447-457.	0.6	9
39	Mechanism of Blood Coagulation by Non-Thermal Atmospheric Pressure Dielectric Barrier Discharge. , 2007, , .		6
40	Toxicity analysis of direct nonthermal plasma treatment of living tissue. , 2008, , .		5
41	Physical and biological mechanisms of plasma interaction with living tissue. , 2009, , .		5
42	Nonthermal Atmospheric Pressure Plasma Decontamination of Protein-Loaded Biodegradable Nanoparticles for Nervous Tissue Repair. Plasma Medicine, 2011, 1, 215-230.	0.6	4
43	Evaluation of Dielectric Barrier Discharge Sterilization of Escherichia coli with a Swept-Wavelength Resonance-Raman Device. Plasma Medicine, 2011, 1, 231-240.	0.6	4
44	A colorimetric method for comparison of oxidative strength of DBD plasma. Sensors and Actuators Reports, 2019, 1, 100001.	4.4	4
45	Heating Effect of Dielectric Barrier Discharges in Sterilization. , 2007, , .		3
46	Toxicity of non-thermal plasma Treatment of endothelial cells. , 2008, , .		3
47	Nonequilibrium Atmospheric Pressure Dielectric Barrier Discharge in Ophthalmology. Plasma Medicine, 2013, 3, 153-173.	0.6	3
48	Polymerization of D-Ribose in Dielectric Barrier Discharge Plasma. Plasma, 2018, 1, 144-149.	1.8	3
49	Mechanism of Blood Coagulation by Non-Thermal Atmospheric Pressure Dielectric Barrier Discharge Plasma.. Blood, 2007, 110, 3162-3162.	1.4	3
50	Non-Equilibrium Dielectric Barrier Discharge Plasma Promoting Apoptotic Behavior in Melanoma Skin Cancer Cells. , 2007, , .		2
51	Nanosecond Pulsed Uniform Dielectric Barrier Discharge for Living Tissue Sterilization and Blood Coagulation. , 2007, , .		1
52	Sterilization efficacy of dielectric barrier discharge on non-uniform surfaces. , 2008, , .		1
53	Toxicity of direct nonthermal plasma treatment of living tissue. , 2009, , .		1
54	Direct exposure to a single filament of DBD plasma leads to the inactivation of airborne bacteria. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
55	ISPC-20. Plasma Chemistry and Plasma Processing, 2012, 32, 409-409.	2.4	1
56	Contribution of electric fields and active species in nanosecond pulsed DBD plasma treatment for stimulation of murine mesenchymal C3H10T1/2 cells. , 2014, , .		0
57	Preface: Special Issue on Plasma Systems for Biological/Medical Applications. Plasma Medicine, 2015, 5, v-vi.	0.6	0