

Bruce R Locke

List of Publications by Year in descending order

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151
papers

9,317
citations

57719

44
h-index

42364

92
g-index

157
all docs

157
docs citations

157
times ranked

5153
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-liquid interactions: a review and roadmap. <i>Plasma Sources Science and Technology</i> , 2016, 25, 053002.	1.3	1,111
2	Electrohydraulic Discharge and Nonthermal Plasma for Water Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 882-905.	1.8	1,021
3	Formation of hydroxyl radicals, hydrogen peroxide and aqueous electrons by pulsed streamer corona discharge in aqueous solution. <i>Journal of Hazardous Materials</i> , 1995, 41, 3-30.	6.5	550
4	Review of the methods to form hydrogen peroxide in electrical discharge plasma with liquid water. <i>Plasma Sources Science and Technology</i> , 2011, 20, 034006.	1.3	415
5	Formation of reactive species in gliding arc discharges with liquid water. <i>Journal of Electrostatics</i> , 2006, 64, 35-43.	1.0	272
6	Quantification of Hydroxyl Radicals Produced in Aqueous Phase Pulsed Electrical Discharge Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 5819-5825.	1.8	269
7	The role of Fenton's reaction in aqueous phase pulsed streamer corona reactors. <i>Chemical Engineering Journal</i> , 2001, 82, 189-207.	6.6	236
8	Hydrogen Peroxide and Ozone Formation in Hybrid Gas-Liquid Electrical Discharge Reactors. <i>IEEE Transactions on Industry Applications</i> , 2004, 40, 60-67.	3.3	188
9	Analysis and Review of Chemical Reactions and Transport Processes in Pulsed Electrical Discharge Plasma Formed Directly in Liquid Water. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 875-917.	1.1	181
10	Plasmachemical oxidation processes in a hybrid gas-liquid electrical discharge reactor. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 4074-4081.	1.3	177
11	A Preliminary Study of Pulsed Streamer Corona Discharge for the Degradation of Phenol in Aqueous Solutions. <i>Hazardous Waste and Hazardous Materials</i> , 1993, 10, 209-219.	0.4	174
12	The future for plasma science and technology. <i>Plasma Processes and Polymers</i> , 2019, 16, 1800118.	1.6	160
13	Chemical Reaction Kinetics and Reactor Modeling of NOx Removal in a Pulsed Streamer Corona Discharge Reactor. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 1844-1855.	1.8	143
14	Degradation of Substituted Phenols in a Hybrid Gas-Liquid Electrical Discharge Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 2921-2930.	1.8	134
15	Hydrogen, Oxygen, and Hydrogen Peroxide Formation in Aqueous Phase Pulsed Corona Electrical Discharge. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 4243-4248.	1.8	134
16	Analysis of cell growth kinetics and substrate diffusion in a polymer scaffold. , 1999, 65, 121-132.		129
17	Aqueous-phase pulsed streamer corona reactor using suspended activated carbon particles for phenol oxidation: model-data comparison. <i>Chemical Engineering Science</i> , 1999, 54, 3095-3105.	1.9	123
18	Effects of Oxygen Transport on 3-D Human Mesenchymal Stem Cell Metabolic Activity in Perfusion and Static Cultures: Experiments and Mathematical Model. <i>Biotechnology Progress</i> , 2008, 21, 1269-1280.	1.3	112

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19	Hybrid Gas-Liquid Electrical Discharge Reactors for Organic Compound Degradation. Industrial & Engineering Chemistry Research, 2004, 43, 1975-1989.	1.8	107
20	Formation of H ₂ and H ₂ O ₂ in a Water-Spray Gliding Arc Nonthermal Plasma Reactor. Industrial & Engineering Chemistry Research, 2010, 49, 6342-6349.	1.8	105
21	Organic dye removal from aqueous solution by gliding arc discharges. Journal of Electrostatics, 2004, 62, 309-321.	1.0	104
22	White paper on the future of plasma science in environment, for gas conversion and agriculture. Plasma Processes and Polymers, 2019, 16, 1700238.	1.6	104
23	Electrophoresis in lyotropic polymer liquid crystals. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 1534-1539.	3.3	94
24	Effects of spatial variation of cells and nutrient and product concentrations coupled with product inhibition on cell growth in a polymer scaffold. Biotechnology and Bioengineering, 1999, 64, 633-643.	1.7	94
25	Pulsed Plasma Gliding-Arc Discharges With Water Spray. IEEE Transactions on Industry Applications, 2008, 44, 482-489.	3.3	90
26	The effects of temperature, pH, and magnesium on the diffusion coefficient of ATP in solutions of physiological ionic strength. Biochimica Et Biophysica Acta - General Subjects, 1996, 1291, 115-121.	1.1	85
27	Bacteria Inactivation Using Low Power Pulsed Gliding Arc Discharges with Water Spray. Plasma Processes and Polymers, 2010, 7, 640-649.	1.6	84
28	Suspended Activated Carbon Particles and Ozone Formation in Aqueous-Phase Pulsed Corona Discharge Reactors. Industrial & Engineering Chemistry Research, 2003, 42, 5117-5134.	1.8	80
29	Pluronic copolymer liquid crystals: unique, replaceable media for capillary gel electrophoresis. Journal of Chromatography A, 1998, 817, 287-295.	1.8	77
30	Diffusional anisotropy is induced by subcellular barriers in skeletal muscle. , 1999, 12, 1-7.		74
31	Primary chemical reactions in pulsed electrical discharge channels in water. Journal Physics D: Applied Physics, 2007, 40, 7734-7746.	1.3	70
32	Optical and Electrical Diagnostics of the Effects of Conductivity on Liquid Phase Electrical Discharge. IEEE Transactions on Plasma Science, 2011, 39, 883-892.	0.6	70
33	Molecules in motion: influences of diffusion on metabolic structure and function in skeletal muscle. Journal of Experimental Biology, 2011, 214, 263-274.	0.8	70
34	Chemical and Physical Characteristics of Pulsed Electrical Discharge Within Gas Bubbles in Aqueous Solutions. Plasma Chemistry and Plasma Processing, 2010, 30, 1-20.	1.1	69
35	Quantification of Reductive Species Produced by High Voltage Electrical Discharges in Water. Plasma Processes and Polymers, 2006, 3, 342-354.	1.6	67
36	Hydrogen Generation by Pulsed Gliding Arc Discharge Plasma with Sprays of Alcohol Solutions. Industrial & Engineering Chemistry Research, 2011, 50, 9466-9470.	1.8	65

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37	Decomposition of phenol by hybrid gas/liquid electrical discharge reactors with zeolite catalysts. <i>Journal of Hazardous Materials</i> , 2005, 125, 190-200.	6.5	63
38	Effect of Geometry on Particle Adhesion. <i>Aerosol Science and Technology</i> , 1992, 17, 105-118.	1.5	62
39	Formation of Hydrogen Peroxide, Hydrogen, and Oxygen in Gliding Arc Electrical Discharge Reactors With Water Spray. <i>IEEE Transactions on Industry Applications</i> , 2009, 45, 623-629.	3.3	58
40	The Effects of Reaction Conditions on Liquid-Phase Hydroxyl Radical Production in Gas-Liquid Pulsed-Electrical-Discharge Reactors. <i>Plasma Processes and Polymers</i> , 2006, 3, 668-681.	1.6	54
41	Role of nutrient supply on cell growth in bioreactor design for tissue engineering of hematopoietic cells. <i>Biotechnology and Bioengineering</i> , 2005, 89, 743-758.	1.7	53
42	Influence of iron on degradation of organic dyes in corona. <i>Journal of Hazardous Materials</i> , 2005, 117, 113-119.	6.5	53
43	Influence of High Voltage Needle Electrode Material on Hydrogen Peroxide Formation and Electrode Erosion in a Hybrid Gas-Liquid Series Electrical Discharge Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2008, 28, 1-13.	1.1	51
44	Formation of Nitrogen Oxides by Nanosecond Pulsed Plasma Discharges in Gas-Liquid Reactors. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 643-666.	1.1	51
45	The long and winding road: influences of intracellular metabolite diffusion on cellular organization and metabolism in skeletal muscle. <i>Journal of Experimental Biology</i> , 2007, 210, 3505-3512.	0.8	49
46	Analysis of hydroxyl radical formation in a gas-liquid electrical discharge plasma reactor utilizing liquid and gaseous radical scavengers. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600171.	1.6	48
47	Analysis of cell growth in a polymer scaffold using a moving boundary approach. , 1997, 56, 422-432.		46
48	Effective Diffusivities of Point-Like Molecules in Isotropic Porous Media by Monte Carlo Simulation. <i>Transport in Porous Media</i> , 2000, 38, 241-259.	1.2	45
49	Platinum catalysed decomposition of hydrogen peroxide in aqueous-phase pulsed corona electrical discharge. <i>Applied Catalysis B: Environmental</i> , 2006, 67, 149-159.	10.8	45
50	Side-Chain Degradation of Atrazine by Pulsed Electrical Discharge in Water. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2702-2709.	1.8	44
51	Analysis of a gas-liquid film plasma reactor for organic compound oxidation. <i>Journal of Hazardous Materials</i> , 2016, 317, 188-197.	6.5	44
52	The influence of liquid conductivity on electrical breakdown and hydrogen peroxide production in a nanosecond pulsed plasma discharge generated in a water-film plasma reactor. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 075201.	1.3	42
53	Analysis of Chemical Reactions in Gliding-Arc Reactors With Water Spray Into Flowing Oxygen. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 494-501.	0.6	39
54	Primary chemical reactions in pulsed electrical discharge channels in water. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 049801-049801.	1.3	38

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55	Optimizing capillary gel electrophoretic separations of oligonucleotides in liquid crystalline Pluronic F127. <i>Journal of Chromatography A</i> , 1998, 817, 367-375.	1.8	37
56	The influence of oxygen and high-energy phosphate diffusion on metabolic scaling in three species of tail-flipping crustaceans. <i>Journal of Experimental Biology</i> , 2008, 211, 3214-3225.	0.8	37
57	Plasma-catalyst interactions in the treatment of volatile organic compounds and NOx with pulsed corona discharge and reticulated vitreous carbon Pt/Rh-coated electrodes. <i>Catalysis Today</i> , 2004, 89, 117-126.	2.2	36
58	Effects of Platinum Electrode on Hydrogen, Oxygen, and Hydrogen Peroxide Formation in Aqueous Phase Pulsed Corona Electrical Discharge. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 2138-2142.	1.8	36
59	A skeletal muscle model of extreme hypertrophic growth reveals the influence of diffusion on cellular design. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R1855-R1867.	0.9	36
60	Effect of jet fuels on the skin morphology and irritation in hairless rats. <i>Toxicology</i> , 2002, 175, 35-47.	2.0	35
61	Proton Diffusion and T1 Relaxation in Polyacrylamide Gels: A Unified Approach Using Volume Averaging. <i>Journal of Magnetic Resonance</i> , 1998, 132, 240-254.	1.2	33
62	Degradation of chemical warfare agent simulants using gas-liquid pulsed streamer discharges. <i>Journal of Hazardous Materials</i> , 2006, 137, 1025-1034.	6.5	33
63	Synergistic 1,4-dioxane removal by non-thermal plasma followed by biodegradation. <i>Chemical Engineering Journal</i> , 2019, 361, 519-527.	6.6	33
64	The role of platinum as the high voltage electrode in the enhancement of Fenton's reaction in liquid phase electrical discharge. <i>Applied Catalysis B: Environmental</i> , 2007, 72, 342-350.	10.8	32
65	Effects of Electrode Protrusion Length, Pre-existing Bubbles, Solution Conductivity and Temperature, on Liquid Phase Pulsed Electrical Discharge. <i>Plasma Processes and Polymers</i> , 2009, 6, 729-740.	1.6	31
66	Scaling of postcontractile phosphocreatine recovery in fish white muscle: effect of intracellular diffusion. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R2077-R2088.	0.9	30
67	Hydrogen Peroxide Generation in Low Power Pulsed Water Spray Plasma Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 609-618.	1.8	30
68	Analysis of Electrical Discharge Plasma in a Gas-Liquid Flow Reactor Using Optical Emission Spectroscopy and the Formation of Hydrogen Peroxide. <i>Plasma Processes and Polymers</i> , 2016, 13, 908-917.	1.6	30
69	Title is missing!. <i>Plasmas and Polymers</i> , 2003, 8, 165-177.	1.5	29
70	An evaluation of muscle maintenance costs during fiber hypertrophy in the lobster <i>Homarus americanus</i> : are larger muscle fibers cheaper to maintain?. <i>Journal of Experimental Biology</i> , 2011, 214, 3688-3697.	0.8	29
71	Protein electrophoresis in polyacrylamide gels with templated pores. <i>Electrophoresis</i> , 1996, 17, 1304-1312.	1.3	27
72	Diesel engine exhaust treatment with a pulsed streamer corona reactor equipped with reticulated vitreous carbon electrodes. <i>IEEE Transactions on Industry Applications</i> , 2001, 37, 715-723.	3.3	25

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73	Formation of Alcohols and Carbonyl Compounds From Hexane and Cyclohexane With Water in a Liquid Film Plasma Reactor. IEEE Transactions on Plasma Science, 2014, 42, 1195-1205.	0.6	25
74	Nanosecond pulsed plasma discharge over a flowing water film: Characterization of hydrodynamics, electrical, and plasma properties and their effect on hydrogen peroxide generation. Plasma Processes and Polymers, 2018, 15, 1800008.	1.6	24
75	Does intracellular metabolite diffusion limit post-contractile recovery in burst locomotor muscle?. Journal of Experimental Biology, 2005, 208, 2641-2652.	0.8	21
76	Title is missing!. Transport in Porous Media, 2002, 47, 279-293.	1.2	20
77	The influence of carrier gas on plasma properties and hydrogen peroxide production in a nanosecond pulsed plasma discharge generated in a water-film plasma reactor. Journal Physics D: Applied Physics, 2018, 51, 094002.	1.3	20
78	Capillary gel electrophoresis of nucleic acids in pluronic F127 copolymer liquid crystals. Chromatographia, 1999, 49, S65-S71.	0.7	19
79	Electrical Discharges in Mixtures of Light and Heavy Water. Plasma Processes and Polymers, 2008, 5, 76-83.	1.6	19
80	Degradation of PFOA with a nanosecond pulsed plasma gas liquid flowing film reactor. Plasma Processes and Polymers, 2020, 17, 2000074.	1.6	19
81	Templated Pores in Hydrogels for Improved Size Selectivity in Gel Permeation Chromatography. Analytical Chemistry, 1998, 70, 2433-2438.	3.2	18
82	Low-Power Pulsed Plasma Discharge in a Water Film Reactor. IEEE Transactions on Plasma Science, 2014, 42, 2634-2635.	0.6	18
83	A Theoretical and Experimental Study of Counteracting Chromatographic Electrophoresis. Separation and Purification Reviews, 1989, 18, 1-64.	0.8	17
84	Electrophoretic Transport in Porous Media: A Volume-Averaging Approach. Industrial & Engineering Chemistry Research, 1998, 37, 615-625.	1.8	17
85	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.	3.3	17
86	Applications of self-adjoint operators to electrophoretic transport, enzyme reactions, and microwave heating problems in composite media. II. Electrophoretic transport in layered membranes. Chemical Engineering Science, 1993, 48, 4007-4022.	1.9	16
87	Spatial resolution of transdermal water mobility using NMR microscopy. Magnetic Resonance Imaging, 1997, 15, 939-947.	1.0	16
88	The Removal of Direct Orange 39 by Pulsed Corona Discharge From Model Wastewater. Environmental Technology (United Kingdom), 2004, 25, 791-800.	1.2	16
89	The formation and functional consequences of heterogeneous mitochondrial distributions in skeletal muscle. Journal of Experimental Biology, 2012, 215, 1871-1883.	0.8	16
90	When can the Ogston-Morris-Rodbard-Chrambach model be applied to gel electrophoresis?. Electrophoresis, 1999, 20, 3331-3334.	1.3	15

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91	Oxidized Derivatives of n-Hexane from a Water/Argon Continuous Flow Electrical Discharge Plasma Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 553-584.	1.1	15
92	Reticulated vitreous carbon electrodes for gas phase pulsed corona reactors. <i>IEEE Transactions on Industry Applications</i> , 2000, 36, 500-509.	3.3	14
93	Multistage Gas-Liquid Electrical Discharge Column Reactor For Advanced Oxidation Processes. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 2203-2212.	1.8	14
94	A reaction-diffusion analysis of energetics in large muscle fibers secondarily evolved for aerobic locomotor function. <i>Journal of Experimental Biology</i> , 2006, 209, 3610-3620.	0.8	13
95	Diffusional constraints on energy metabolism in skeletal muscle. <i>Journal of Theoretical Biology</i> , 2008, 254, 417-429.	0.8	13
96	Effects of Axial and Orthogonal Applied Electric Fields on Solute Transport in Poiseuille Flows. An Area Averaging Approach. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 886-894.	1.8	12
97	Electro-Osmotic Flow in Porous Media Using Magnetic Resonance Imaging. <i>Langmuir</i> , 2001, 17, 6771-6781.	1.6	12
98	Assessment of Potential Applications of Plasma with Liquid Water. , 2013, , 367-399.		12
99	Nitric oxide scavenging of hydroxyl radicals in a nanosecond pulsed plasma discharge gas-liquid reactor. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 504002.	1.3	12
100	Applications of self-adjoint operators to electrophoretic transport, enzyme reactions, and microwave heating problems in composite media. I. General formulation. <i>Chemical Engineering Science</i> , 1993, 48, 1675-1686.	1.9	11
101	Magnetic resonance studies of laryngeal tumors implanted in nude mice: effect of treatment with bleomycin and electroporation. <i>Magnetic Resonance Imaging</i> , 2002, 20, 389-394.	1.0	11
102	Degradation of Aqueous Phase Polychlorinated Biphenyls (PCB) Using Pulsed Corona Discharges. <i>Journal of Advanced Oxidation Technologies</i> , 2005, 8, .	0.5	11
103	Reaction-diffusion constraints in living tissue: Effectiveness factors in skeletal muscle design. <i>Biotechnology and Bioengineering</i> , 2011, 108, 104-115.	1.7	10
104	Oxygen control of intracellular distribution of mitochondria in muscle fibers. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2513-2524.	1.7	9
105	Particle Sizing Uncertainties in Laser Scanning of Silicon Wafers: Calibration/Evaluation of the Aeronca Wafer Inspection System 150. <i>Journal of the Electrochemical Society</i> , 1987, 134, 1763-1771.	1.3	8
106	Transdermal water mobility in the presence of electrical fields using MR microscopy. <i>Magnetic Resonance Imaging</i> , 1999, 17, 1183-1191.	1.0	8
107	Diffusive-convective and diffusive-electroconvective transport in non-uniform channels with application to macromolecular separations. <i>Separation and Purification Technology</i> , 1999, 15, 255-269.	3.9	8
108	Optimization of a continuous pulsed corona reactor. <i>Chemical Engineering Science</i> , 2001, 56, 1035-1039.	1.9	7

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109	The Roles of Ozone and Zeolite on Reactive Dye Degradation in Electrical Discharge Reactors. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 545-557.	1.2	7
110	Special Issue on Plasmas and Liquids. <i>Plasma Processes and Polymers</i> , 2009, 6, 711-712.	1.6	7
111	Influence of reaction and diffusion on spatial organization of mitochondria and effectiveness factors in skeletal muscle cell design. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1912-1924.	1.7	7
112	Oligonucleotide and Water Self-Diffusion in Systems of Pluronic Triblock Copolymers and in Buffer Solutions by Pulsed Field Gradient Nuclear Magnetic Resonance. <i>Macromolecules</i> , 2000, 33, 4235-4248.	2.2	6
113	<i>Escherichia coli</i> survival in plasma-treated water and in a gas-liquid plasma reactor. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000099.	1.6	6
114	Effect of Pressure on Discharge Initiation and Chemical Reaction in a Liquid-Phase Electrical Discharge Reactor. <i>IEEE Transactions on Industry Applications</i> , 2009, 45, 630-637.	3.3	5
115	Jet fuel toxicity: skin damage measured by 900-MHz MRI skin microscopy and visualization by 3D MR image processing. <i>Magnetic Resonance Imaging</i> , 2010, 28, 1030-1048.	1.0	5
116	Optical Diagnostics of Electrical Discharge Water-Spray Reactors for Chemical Synthesis. <i>IEEE Transactions on Industry Applications</i> , 2013, 49, 305-310.	3.3	5
117	Special Issue of Plasma Chemistry and Plasma Processing Scale-Up of Plasma Reactors for Bio, Chemical, Environmental, Materials, and Energy Applications. <i>Plasma Chemistry and Plasma Processing</i> , 2022, 42, 1-2.	1.1	5
118	Nonpurgeable total organic halide analysis and the characterization of river water quality adjacent to the discharge from a kraft mill. <i>Environmental Science & Technology</i> , 1993, 27, 2311-2317.	4.6	4
119	The effect of obstacle conductivity and electric field on effective mobility and dispersion in electrophoretic transport: A volume averaging approach. <i>Electrophoresis</i> , 2002, 23, 2745-2754.	1.3	4
120	Modeling electrophoretic transport of polyelectrolytes in beds of nonporous spheres. <i>Separation and Purification Technology</i> , 1993, 3, 111-120.	0.7	3
121	Convective-Diffusive Transport and Reaction in Arterial Stenoses Using Lubrication and Area-Averaging Methods. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 3426-3436.	1.8	3
122	Hybrid Gas/Liquid Electrical Discharge Reactors with Zeolites for Colored Wastewater Degradation. <i>Journal of Advanced Oxidation Technologies</i> , 2005, 8, .	0.5	3
123	Facilitated diffusion of myoglobin and creatine kinase and reaction-diffusion constraints of aerobic metabolism under steady-state conditions in skeletal muscle. <i>Biotechnology and Bioengineering</i> , 2012, 109, 545-558.	1.7	3
124	Analysis of cell growth in a polymer scaffold using a moving boundary approach. <i>Biotechnology and Bioengineering</i> , 1997, 56, 422-432.	1.7	3
125	Confined plasma gliding arc discharges. <i>International Journal of Environment and Waste Management</i> , 2008, 2, 484.	0.2	2
126	Special issue on plasmas with liquids. <i>Plasma Sources Science and Technology</i> , 2011, 20, 030201.	1.3	2

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127	Papers by Selected Lecturers at the 11th International Symposium on Non-thermal/Thermal Plasma Pollution Control Technology & Sustainable Energy (ISNTPT 11). Plasma Chemistry and Plasma Processing, 2019, 39, 519-522.	1.1	2
128	Electro-Transport in Hydrophilic Nanostructured Materials. , 2001, , .		2
129	Reply to Comment on "Nonpurgeable Total Organic Halide Analysis and the Characterization of River Water Quality Adjacent to the Discharge from a Kraft Mill". Environmental Science & Technology, 1994, 28, 1202-1203.	4.6	1
130	Reticulated Vitreous Carbon Electrodes with Catalytic Coating for NO _x Removal in Gas Phase Pulsed Corona Discharge Reactors. , 0, , .		1
131	NO _x Decomposition by DC Positive Streamer Corona Using Reticulated Vitreous Carbon and Tungsten Wire High Voltage Electrodes. , 0, , .		1
132	Formation of Hydrogen Peroxide, Hydrogen, and Oxygen in Gliding Arc Electrical Discharge Reactors with Water Spray. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
133	Formation of Hydrogen Peroxide, Hydrogen, and Oxygen in Gliding Arc Electrical Discharge Reactors with Water Spray. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
134	Optical and electrical diagnostics of the effects of conductivity on liquid phase electrical discharge. , 2010, , .		1
135	Effect of the voltage waveforms and power on hydrogen and hydrogen peroxide formation in water-spray gliding arc reactor. , 2011, , .		1
136	Sensitivity analysis of reaction-diffusion constraints in muscle energetics. Biotechnology and Bioengineering, 2012, 109, 559-571.	1.7	1
137	Chemical reactions in pulsed plasma with organic liquid spray. , 2013, , .		1
138	Organic synthesis with continuous flow water film pulsed plasma discharge. , 2014, , .		1
139	Nanosecond pulsed plasma discharge over a flowing water film: Plasma characterization, hydrodynamic analysis, and hydrogen peroxide generation. , 2016, , .		1
140	Hydrocarbon Processing by Plasma. Springer Handbooks, 2017, , 1163-1182.	0.3	1
141	The Influence of Liquid Conductivity on Electrical Breakdown and Hydrogen Peroxide Formation in Non-Thermal Plasma Generated in a Water Film Plasma Reactor. , 2018, , .		1
142	Hydrogen peroxide and ozone formation in hybrid gas-liquid electrical discharge reactors [water treatment applications]. , 0, , .		0
143	Back Cover: Plasma Process. Polym. 4-5/2006. Plasma Processes and Polymers, 2006, 3, 380-380.	1.6	0
144	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

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145	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
146	Chemical reaction analysis of the formation of hydrogen peroxide and hydrogen in water-spray gliding arc reactors. , 2008, , .		0
147	Optical diagnostics of electrical discharge water spray reactors for chemical synthesis. , 2011, , .		0
148	The sensitivity of fast muscle contractile function to the major components of the sarcomere Ca ²⁺ -cycling system. Biophysical Chemistry, 2016, 211, 9-18.	1.5	0
149	The Influence of Carrier Gas on Nanosecond-Pulsed Plasma Discharge Generated in a Water Film Plasma Reactor. , 2017, , .		0
150	Defluorination Mechanism of Perfluorooctanoic Acid (PFOA) with a Nanosecond Pulsed Plasma Gas-Liquid Flowing Film Reactor. , 2021, , .		0
151	Degradation of Perfluorooctanoic Acid (PFOA) in a Nanosecond Pulse Plasma Discharge Gas-Liquid Reactor. , 2020, , .		0