

# Peter Bruggeman

## List of Publications by Year in descending order

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151  
papers

10,794  
citations

44042

48  
h-index

31818

101  
g-index

154  
all docs

154  
docs citations

154  
times ranked

5412  
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	Non-thermal plasmas in and in contact with liquids. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 053001.	1.3	1,050
3	The 2017 Plasma Roadmap: Low temperature plasma science and technology. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 323001.	1.3	710
4	The 2012 Plasma Roadmap. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 253001.	1.3	511
5	Gas temperature determination from rotational lines in non-equilibrium plasmas: a review. <i>Plasma Sources Science and Technology</i> , 2014, 23, 023001.	1.3	379
6	Global model of low-temperature atmospheric-pressure He + H <sub>2</sub> O plasmas. <i>Plasma Sources Science and Technology</i> , 2010, 19, 025018.	1.3	297
7	Mechanisms of bacterial inactivation in the liquid phase induced by a remote RF cold atmospheric pressure plasma jet. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 175203.	1.3	253
8	Power dissipation, gas temperatures and electron densities of cold atmospheric pressure helium and argon RF plasma jets. <i>Plasma Sources Science and Technology</i> , 2011, 20, 065010.	1.3	242
9	Foundations of atmospheric pressure non-equilibrium plasmas. <i>Plasma Sources Science and Technology</i> , 2017, 26, 123002.	1.3	230
10	Identification of the biologically active liquid chemistry induced by a nonthermal atmospheric pressure plasma jet. <i>Biointerphases</i> , 2015, 10, 029518.	0.6	226
11	On OH production in water containing atmospheric pressure plasmas. <i>Plasma Sources Science and Technology</i> , 2010, 19, 045025.	1.3	207
12	Characterization of a direct dc-excited discharge in water by optical emission spectroscopy. <i>Plasma Sources Science and Technology</i> , 2009, 18, 025017.	1.3	196
13	Main Species and Physicochemical Processes in Cold Atmospheric-Pressure He+O <sub>2</sub> Plasmas. <i>Plasma Processes and Polymers</i> , 2010, 7, 846-865.	1.6	163
14	Atmospheric pressure discharge filaments and microplasmas: physics, chemistry and diagnostics. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 464001.	1.3	161
15	Dc excited glow discharges in atmospheric pressure air in pin-to-water electrode systems. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 215201.	1.3	160
16	Laser scattering on an atmospheric pressure plasma jet: disentangling Rayleigh, Raman and Thomson scattering. <i>Plasma Sources Science and Technology</i> , 2012, 21, 015003.	1.3	142
17	The 2022 Plasma Roadmap: low temperature plasma science and technology. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 373001.	1.3	139
18	Performance of partitioned procedures in fluid-structure interaction. <i>Computers and Structures</i> , 2010, 88, 446-457.	2.4	130

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19	Inactivation of virus in solution by cold atmospheric pressure plasma: identification of chemical inactivation pathways. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 204001.	1.3	129
20	Long-lived and short-lived reactive species produced by a cold atmospheric pressure plasma jet for the inactivation of <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> . <i>Free Radical Biology and Medicine</i> , 2018, 124, 275-287.	1.3	127
21	Stability of a coupling technique for partitioned solvers in FSI applications. <i>Computers and Structures</i> , 2008, 86, 2224-2234.	2.4	123
22	Optical emission spectroscopy as a diagnostic for plasmas in liquids: opportunities and pitfalls. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 124005.	1.3	119
23	Characteristics of atmospheric pressure air discharges with a liquid cathode and a metal anode. <i>Plasma Sources Science and Technology</i> , 2008, 17, 025012.	1.3	118
24	Electronic quenching of OH( $\Delta$ ) by water in atmospheric pressure plasmas and its influence on the gas temperature determination by OH( $\Delta$ ) emission. <i>Plasma Sources Science and Technology</i> , 2010, 19, 015016.	1.3	116
25	Is the Rotational Temperature of OH( $\Delta$ ) for Discharges in and in Contact with Liquids a Good Diagnostic for Determining the Gas Temperature?. <i>Plasma Processes and Polymers</i> , 2009, 6, 751-762.	1.6	104
26	Absolute OH density measurements by broadband UV absorption in diffuse atmospheric-pressure He/H <sub>2</sub> O RF glow discharges. <i>Plasma Sources Science and Technology</i> , 2012, 21, 035019.	1.3	104
27	Electron properties and air mixing in radio frequency driven argon plasma jets at atmospheric pressure. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	103
28	Absolute OH density measurements in the effluent of a cold atmospheric-pressure Ar/H <sub>2</sub> O RF plasma jet in air. <i>Plasma Sources Science and Technology</i> , 2013, 22, 055014.	1.3	101
29	Time-resolved optical emission spectroscopy of nanosecond pulsed discharges in atmospheric-pressure N <sub>2</sub> and N <sub>2</sub> /H <sub>2</sub> O mixtures. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 345201.	1.3	97
30	Water surface deformation in strong electrical fields and its influence on electrical breakdown in a metal pin-water electrode system. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 4779-4786.	1.3	94
31	Time and spatially resolved LIF of OH in a plasma filament in atmospheric pressure He/H <sub>2</sub> O. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 045205.	1.3	89
32	Ag <sup>+</sup> reduction and silver nanoparticle synthesis at the plasma-liquid interface by an RF driven atmospheric pressure plasma jet: Mechanisms and the effect of surfactant. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	0.9	86
33	Spatially resolved ozone densities and gas temperatures in a time modulated RF driven atmospheric pressure plasma jet: an analysis of the production and destruction mechanisms. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 205202.	1.3	82
34	Virucidal Effect of Cold Atmospheric Gaseous Plasma on Feline Calicivirus, a Surrogate for Human Norovirus. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3612-3622.	1.4	82
35	Spectroscopic study of an atmospheric pressure dc glow discharge with a water electrode in atomic and molecular gases. <i>Plasma Sources Science and Technology</i> , 2010, 19, 045004.	1.3	76
36	NO production in an RF plasma jet at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 265202.	1.3	75

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37	Mass spectrometry study of positive and negative ions in a capacitively coupled atmospheric pressure RF excited glow discharge in He/H <sub>2</sub> O mixtures. Journal Physics D: Applied Physics, 2010, 43, 012003.	1.3	71
38	Anode pattern formation in atmospheric pressure air glow discharges with water anode. Journal of Applied Physics, 2009, 105, .	1.1	66
39	Absolute OH density measurements in an atmospheric pressure dc glow discharge in air with water electrode by broadband UV absorption spectroscopy. Journal Physics D: Applied Physics, 2015, 48, 424008.	1.3	61
40	Nitric oxide density distributions in the effluent of an RF argon APPJ: effect of gas flow rate and substrate. New Journal of Physics, 2014, 16, 123011.	1.2	58
41	Plasma-driven solution electrolysis. Journal of Applied Physics, 2021, 129, .	1.1	58
42	Hydrogen Peroxide Production in an Atmospheric Pressure RF Glow Discharge: Comparison of Models and Experiments. Plasma Chemistry and Plasma Processing, 2014, 34, 1081-1099.	1.1	57
43	Reactive species responsible for the inactivation of feline calicivirus by a two-dimensional array of integrated coaxial microhollow dielectric barrier discharges in air. Plasma Processes and Polymers, 2018, 15, 1700119.	1.6	56
44	Electron densities and energies of a guided argon streamer in argon and air environments. Plasma Sources Science and Technology, 2013, 22, 065011.	1.3	55
45	Temperature and NO density measurements by LIF and OES on an atmospheric pressure plasma jet. Journal Physics D: Applied Physics, 2013, 46, 095201.	1.3	55
46	Absolute calibration of OH density in a nanosecond pulsed plasma filament in atmospheric pressure He/H <sub>2</sub> O: comparison of independent calibration methods. Journal Physics D: Applied Physics, 2013, 46, 464004.	1.3	55
47	Time dependent optical emission spectroscopy of sub-microsecond pulsed plasmas in air with water cathode. Plasma Sources Science and Technology, 2009, 18, 045023.	1.3	51
48	Atomic oxygen TALIF measurements in an atmospheric-pressure microwave plasma jet within situxenon calibration. Plasma Sources Science and Technology, 2013, 22, 055010.	1.3	50
49	Partitioned simulation of the interaction between an elastic structure and free surface flow. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2085-2098.	3.4	49
50	Inactivation of virus and bacteria using cold atmospheric pressure air plasmas and the role of reactive nitrogen species. Journal Physics D: Applied Physics, 2020, 53, 434004.	1.3	48
51	Experimental investigation of dc electrical breakdown of long vapour bubbles in capillaries. Journal Physics D: Applied Physics, 2007, 40, 1937-1943.	1.3	45
52	Transitions Between and Control of Guided and Branching Streamers in DC Nanosecond Pulsed Excited Plasma Jets. IEEE Transactions on Plasma Science, 2012, 40, 2888-2899.	0.6	45
53	<i>In situ</i> absolute air, O <sub>3</sub> and NO densities in the effluent of a cold RF argon atmospheric pressure plasma jet obtained by molecular beam mass spectrometry. Journal Physics D: Applied Physics, 2014, 47, 224013.	1.3	45
54	DC-excited discharges in vapour bubbles in capillaries. Plasma Sources Science and Technology, 2008, 17, 025008.	1.3	44

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55	Influence of the water surface on the glow-to-spark transition in a metal-pin-to-water electrode system. <i>Plasma Sources Science and Technology</i> , 2008, 17, 045014.	1.3	44
56	Simulation of fluid-structure interaction with the interface artificial compressibility method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 276-289.	1.0	44
57	Validation of gas temperature measurements by OES in an atmospheric air glow discharge with water electrode using Rayleigh scattering. <i>Plasma Sources Science and Technology</i> , 2011, 20, 024002.	1.3	44
58	Numerical analysis of the NO and O generation mechanism in a needle-type plasma jet. <i>New Journal of Physics</i> , 2014, 16, 063054.	1.2	43
59	Nanosecond pulsed humid Ar plasma jet in air: shielding, discharge characteristics and atomic hydrogen production. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 415204.	1.3	42
60	Cold argon-oxygen plasma species oxidize and disintegrate capsid protein of feline calicivirus. <i>PLoS ONE</i> , 2018, 13, e0194618.	1.1	42
61	DC Electrical Breakdown in a Metal Pin-Water Electrode System. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1138-1139.	0.6	41
62	Gas flow characteristics of a time modulated APPJ: the effect of gas heating on flow dynamics. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 015203.	1.3	41
63	Plasma kinetics in a nanosecond pulsed filamentary discharge sustained in Ar-H <sub>2</sub> O and H <sub>2</sub> O. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 044003.	1.3	38
64	In situ inactivation of human norovirus GII.4 by cold plasma: Ethidium monoazide (EMA)-coupled RT-qPCR underestimates virus reduction and fecal material suppresses inactivation. <i>Food Microbiology</i> , 2020, 85, 103307.	2.1	38
65	Non-Thermal Plasma as a Novel Strategy for Treating or Preventing Viral Infection and Associated Disease. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	38
66	Comparative toxicity assessment of novel Si quantum dots and their traditional Cd-based counterparts using bacteria models <i>Shewanella oneidensis</i> and <i>Bacillus subtilis</i> . <i>Environmental Science: Nano</i> , 2018, 5, 1890-1901.	2.2	37
67	Induced Liquid Phase Flow by RF Ar Cold Atmospheric Pressure Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2622-2623.	0.6	36
68	Effect of water vapor on plasma morphology, OH and H <sub>2</sub> O <sub>2</sub> production in He and Ar atmospheric pressure dielectric barrier discharges. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 145201.	1.3	36
69	Model polymer etching and surface modification by a time modulated RF plasma jet: role of atomic oxygen and water vapor. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 03LT02.	1.3	36
70	CO(B 11Å+11) Angstrom System for Gas Temperature Measurements in CO <sub>2</sub> Containing Plasmas. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 29-41.	1.1	36
71	Decomposition of Crystal Violet by an Atmospheric Pressure RF Plasma Jet: The Role of Radicals, Ozone, Near-Interfacial Reactions and Convective Transport. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 729-749.	1.1	35
72	Time and spatial resolved optical and electrical characteristics of continuous and time modulated RF plasmas in contact with conductive and dielectric substrates. <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	34

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73	Effect of plasma on gas flow and air concentration in the effluent of a pulsed cold atmospheric pressure helium plasma jet. <i>Plasma Sources Science and Technology</i> , 2018, 27, 095006.	1.3	34
74	Rapid inactivation of airborne porcine reproductive and respiratory syndrome virus using an atmospheric pressure air plasma. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900269.	1.6	34
75	Controlled plasma–droplet interactions: a quantitative study of OH transfer in plasma–liquid interaction. <i>Plasma Sources Science and Technology</i> , 2020, 29, 095002.	1.3	34
76	A new flexible DBD device for treating infected wounds: <i>in vitro</i> and <i>ex vivo</i> evaluation and comparison with a RF argon plasma jet. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 044001.	1.3	32
77	Impact of plasma reactive species on the structure and functionality of pea protein isolate. <i>Food Chemistry</i> , 2022, 371, 131135.	4.2	31
78	Catalytic hydrodeoxygenation of anisole over nickel supported on plasma treated alumina–silica mixed oxides. <i>RSC Advances</i> , 2017, 7, 30990-30998.	1.7	28
79	Plasma–surface interaction at atmospheric pressure: A case study of polystyrene etching and surface modification by Ar/O <sub>2</sub> plasma jet. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, 05C315.	0.9	28
80	OH Dynamics in a Nanosecond Pulsed Plasma Filament in Atmospheric Pressure He–H <sub>2</sub> O upon the Addition of O <sub>2</sub> . <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 605-619.	1.1	25
81	Modeling of an atmospheric pressure plasma-liquid anodic interface: Solvated electrons and silver reduction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	25
82	Electrical discharges in the vapour phase in liquid-filled capillaries. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 194007.	1.3	24
83	Effect of air flow on the micro-discharge dynamics in an array of integrated coaxial microhollow dielectric barrier discharges. <i>Plasma Sources Science and Technology</i> , 2017, 26, 035001.	1.3	24
84	Singlet delta oxygen production in a 2D micro-discharge array in air: effect of gas residence time and discharge power. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 105205.	1.3	24
85	Electric field dynamics in an atmospheric pressure helium plasma jet impinging on a substrate. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	24
86	Nitrogen metastable (N <sub>2</sub> (A <sup>3</sup> Σ <sup>+</sup> )) in a cold argon atmospheric pressure plasma jet: Shielding and gas composition. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	23
87	The effect of collisional quenching of the O 3p <sup>3</sup> P <sub>J</sub> state on the determination of the spatial distribution of the atomic oxygen density in an APPJ operating in ambient air by TALIF. <i>Plasma Sources Science and Technology</i> , 2014, 23, 025012.	1.3	22
88	Cold Atmospheric Pressure Plasma VUV Interactions With Surfaces: Effect of Local Gas Environment and Source Design. <i>Plasma Processes and Polymers</i> , 2016, 13, 1069-1079.	1.6	22
89	Effect of water vapor on plasma processing at atmospheric pressure: Polymer etching and surface modification by an Ar/H <sub>2</sub> O plasma jet. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	0.9	21
90	Absolute atomic hydrogen density measurements in an atmospheric pressure plasma jet: generation, transport and recombination from the active discharge region to the effluent. <i>Plasma Sources Science and Technology</i> , 2020, 29, 04LT01.	1.3	21

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91	Electrical breakdown of a bubble in a water-filled capillary. <i>Journal of Applied Physics</i> , 2006, 99, 116101.	1.1	20
92	Absolute spatially and time-resolved O, O <sub>3</sub> , and air densities in the effluent of a modulated RF-driven atmospheric pressure plasma jet obtained by molecular beam mass spectrometry. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900163.	1.6	20
93	Townsend to glow discharge transition for a nanosecond pulse plasma in helium: space charge formation and resulting electric field dynamics. <i>Plasma Sources Science and Technology</i> , 2021, 30, 055004.	1.3	20
94	OH density measurements in nanosecond pulsed discharges in atmospheric pressure N <sub>2</sub> -H <sub>2</sub> -O mixtures. <i>Plasma Sources Science and Technology</i> , 2014, 23, 015009.	1.3	18
95	Bactericidal Efficacy of a Two-Dimensional Array of Integrated, Coaxial, Microhollow, Dielectric Barrier Discharge Plasma Against <i>Salmonella enterica</i> Serovar Heidelberg. <i>Foodborne Pathogens and Disease</i> , 2020, 17, 157-165.	0.8	18
96	O <sup>+</sup> , H <sup>+</sup> , and OH radical etching probability of polystyrene obtained for a radio frequency driven atmospheric pressure plasma jet. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	17
97	Spatially resolved density measurements of singlet delta oxygen in a non-equilibrium atmospheric pressure plasma jet by molecular beam mass spectrometry. <i>Plasma Sources Science and Technology</i> , 2020, 29, 045023.	1.3	17
98	Spatially and temporally resolved H and OH densities in a nanosecond pulsed plasma jet: an analysis of the radical generation, transport, recombination and memory effects. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 115202.	1.3	17
99	Time-resolved absolute OH density of a nanosecond pulsed discharge in atmospheric pressure He-H <sub>2</sub> -O: absolute calibration, collisional quenching and the importance of charged species in OH production. <i>Plasma Sources Science and Technology</i> , 2014, 23, 045005.	1.3	16
100	He(2 <sup>3</sup> S <sub>1</sub> ) and He(2 <sup>1</sup> S <sub>1</sub> ) and He(2 <sup>3</sup> P <sub>2</sub> ) Tj ETQq0 0 0 rgBT /Overlock absorption spectroscopy. <i>Plasma Sources Science and Technology</i> , 2019, 28, 125006.	1.3	16
101	Temporally resolved ozone distribution of a time modulated RF atmospheric pressure argon plasma jet: flow, chemical reaction, and transient vortex. <i>Plasma Sources Science and Technology</i> , 2015, 24, 045015.	1.3	15
102	Luminescent, water-soluble silicon quantum dots via micro-plasma surface treatment. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 08LT02.	1.3	14
103	Fast pulsed discharges. <i>Plasma Sources Science and Technology</i> , 2017, 26, 020201.	1.3	14
104	Emission considering self-absorption of OH to simultaneously obtain the OH density and gas temperature: validation, non-equilibrium effects and limitations. <i>Plasma Sources Science and Technology</i> , 2017, 26, 095007.	1.3	14
105	Penetration of Ar and He RF-driven plasma jets into micrometer-sized capillary tubes. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 414002.	1.3	14
106	Characterization of an RF-driven argon plasma at atmospheric pressure using broadband absorption and optical emission spectroscopy. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	14
107	Plasma dynamics, instabilities and OH generation in a pulsed atmospheric pressure plasma with liquid cathode: a diagnostic study. <i>Plasma Sources Science and Technology</i> , 2022, 31, 025008.	1.3	13
108	Assessment of Potential Applications of Plasma with Liquid Water. , 2013, , 367-399.		12

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109	Antibacterial plasma at safe levels for skin cells. Journal Physics D: Applied Physics, 2013, 46, 422001.	1.3	11
110	The interaction of an atmospheric pressure plasma jet with liquid water: dimple dynamics and its impact on crystal violet decomposition. Journal Physics D: Applied Physics, 2021, 54, 045204.	1.3	11
111	Plasma-liquid interactions. Journal of Applied Physics, 2021, 130, .	1.1	11
112	Spatially resolved absolute densities of reactive species and positive ion flux in He-O <sub>2</sub> RF-driven atmospheric pressure plasma jet: touching and non-touching with dielectric substrate. Journal Physics D: Applied Physics, 2020, 53, 28LT01.	1.3	10
113	Absolute ion density measurements in the afterglow of a radiofrequency atmospheric pressure plasma jet. Journal Physics D: Applied Physics, 2021, 54, 15LT01.	1.3	10
114	Tuning plasma parameters to control reactive species fluxes to substrates in the context of plasma catalysis. Journal Physics D: Applied Physics, 2021, 54, 214005.	1.3	10
115	Plasma-droplet interaction study to assess transport limitations and the role of $\text{OH}$ , $\text{O}$ , $\text{H}$ , $\text{O}_2$ ( $\text{a}^1\text{g}$ ), $\text{O}_3$ , $\text{He}$ ( $2^3\text{S}$ ) and $\text{Ar}$ ( $1\text{s}^5$ ) in formate decomposition. Plasma Sources Science and Technology, 2021, 30, 115003.	1.3	10
116	Simultaneous Thomson and Raman Scattering on an Atmospheric-Pressure Plasma Jet. IEEE Transactions on Plasma Science, 2011, 39, 2382-2383.	0.6	9
117	Thermalization of rotational states of NO ( $v=0$ ) in an atmospheric pressure plasma. Journal of Chemical Physics, 2013, 138, 204306.	1.2	9
118	Experimental and modeling studies of the plasma chemistry in a humid Ar radiofrequency atmospheric pressure plasma jet. Journal Physics D: Applied Physics, 2022, 55, 225206.	1.3	8
119	Comparative evaluation of the virucidal effect of remote and direct cold air plasmas with UV. Plasma Processes and Polymers, 2020, 17, 1900234.	1.6	7
120	Production and diffusion of $\text{H}_2\text{O}_2$ during the interaction of a direct current pulsed atmospheric pressure plasma jet on a hydrogel. Journal Physics D: Applied Physics, 2022, 55, 185201.	1.3	7
121	Bubble simulations with an interface tracking technique based on a partitioned fluid-structure interaction algorithm. Journal of Computational and Applied Mathematics, 2010, 234, 2303-2310.	1.1	6
122	Comparison of a He and an Ar Cold RF Atmospheric-Pressure Plasma Jet Operating in Continuous and Pulsed RF Modes. IEEE Transactions on Plasma Science, 2011, 39, 2332-2333.	0.6	6
123	Filamentation of Diffuse $\text{He-H}_2\text{-O}$ Atmospheric Pressure Glow Discharges in a Metal Pin-Water Electrode Geometry. IEEE Transactions on Plasma Science, 2011, 39, 2634-2635.	0.6	6
124	Temperature fitting of partially resolved rotational spectra. Journal of Instrumentation, 2012, 7, C02054-C02054.	0.5	6
125	Retrospective on "The 2012 Plasma Roadmap". Journal Physics D: Applied Physics, 2016, 49, 431001.	1.3	6
126	Absolute OH density and gas temperature measurements by laser induced fluorescence in a microsecond pulsed discharge generated in a conductive NaCl solution. Plasma Sources Science and Technology, 2021, 30, 075016.	1.3	6



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127	Ion fluxes and memory effects in an Ar <sup>2+</sup> modulated radiofrequency-driven atmospheric pressure plasma jet. <i>Plasma Sources Science and Technology</i> , 2021, 30, 105007.	1.3	6
128	A coupling algorithm for partitioned solvers applied to bubble and droplet dynamics. <i>Computers and Fluids</i> , 2009, 38, 613-624.	1.3	5
129	Is it possible to deduce the ground state OH density from relative optical emission intensities of the OH(A <sup>2</sup> $\Sigma^+$ -X <sup>2</sup> $\Sigma^+$ ) transition in atmospheric pressure non-equilibrium plasmas? An analysis of self-absorption. <i>Plasma Sources Science and Technology</i> , 2016, 25, 04LT02.	1.3	5
130	Analysis of the Ion Conversion Mechanisms in the Effluent of Atmospheric Pressure Plasma Jets in Ar with Admixtures of O <sub>2</sub> , H <sub>2</sub> O and Air. <i>Plasma Chemistry and Plasma Processing</i> , 2021, 41, 1569-1594.	1.1	4
131	Characterization of plasma catalytic decomposition of methane: role of atomic O and reaction mechanism. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 155204.	1.3	4
132	Synergies between polyacrylamide polymerization and nanoparticle generation using an atmospheric pressure plasma jet. <i>Plasma Processes and Polymers</i> , 2022, 19, .	1.6	4
133	Hollow plasma structure during the breakdown phase of nanosecond pulsed pin-pin discharges generated with overvoltage. <i>Plasma Sources Science and Technology</i> , 2020, 29, 035020.	1.3	3
134	Identification of the most stable silver cluster ions produced under plasma solution conditions. <i>Molecular Physics</i> , 2021, 119, .	0.8	3
135	Atmospheric Pressure Plasmas. , 2013, , 13-38.		3
136	Towards prevention and prediction of infectious diseases with virus sterilization using ultraviolet light and low-temperature plasma and bio-sensing devices for health and hygiene care. <i>Japanese Journal of Applied Physics</i> , 0, , .	0.8	2
137	Investigation of the Mechanisms Underpinning Plasma-Catalyst Interaction for the Conversion of Methane to Oxygenates. <i>Plasma Chemistry and Plasma Processing</i> , 0, , .	1.1	2
138	Inactivation of feline calicivirus by an atmospheric pressure 2D microdischarge array in air. , 2016, , .		1
139	Mechanism of bacteria inactivation by an atmospheric pressure plasma jet. , 2016, , .		1
140	Calibration-free optical emission spectroscopy method for the measurements of gas temperature and OH density. , 2017, , .		1
141	Characteristics of the different plasma regimes of discharges with water cathodes. , 2008, , .		0
142	Special issue featuring articles arising from the 11th High-Tech Plasma Processes Conference. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 190301.	1.3	0
143	Time and spatially resolved OH dynamics in a nanosecond pulsed filamentary discharge in atmospheric pressure he-h <sub>2</sub> o. , 2012, , .		0
144	Spatially - and temporally- resolved investigation of discharge in water in pin-to-pin geometry. , 2014, , .		0

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145	Investigation of an atmospheric pressure 2D-array of microdischarges in air using cross-correlation spectroscopy. , 2016, , .		0
146	Mechanism of silver nanoparticles production at the plasma-liquid interface. , 2016, , .		0
147	Temperature and absolute oh density measurement by the relative emission spectroscopy in diffuse atmospheric-pressure RF glow discharges. , 2016, , .		0
148	Development of a Chronic Wound Healing Device1. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	0
149	Kinetic Mechanisms Driving Ag+ Reduction and Nanoparticle Synthesis By Atmospheric Pressure Plasma-Driven Solution Electrochemistry. ECS Meeting Abstracts, 2021, MA2021-01, 868-868.	0.0	0
150	Treatment of Biofilms by Atmospheric Pressure RF Plasma Jets: Touching and Remote *. , 2021, , .		0
151	Reactive Species Transport To Water Micro-Droplets In Atmospheric Pressure Rf Glow Discharges. , 2021, , .		0