

# Giorgio Dilecce

## List of Publications by Year in descending order

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87  
papers

2,254  
citations

186265

28  
h-index

254184

43  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1516  
citing authors

#	ARTICLE	IF	CITATIONS
1	LIF and fast imaging plasma jet characterization relevant for NTP biomedical applications. Journal Physics D: Applied Physics, 2014, 47, 275401.	2.8	121
2	density measurement in a dielectric barrier discharge in N <sub>2</sub> and N <sub>2</sub> with small O <sub>2</sub> admixtures. Plasma Sources Science and Technology, 2007, 16, 511-522.	3.1	95
3	Conversion of CH <sub>4</sub> to CO <sub>2</sub> by a nanosecond repetitively pulsed discharge. Journal Physics D: Applied Physics, 2016, 49, 075602.	2.8	89
4	Electron energy distribution functions under N <sub>2</sub> discharge and post-discharge conditions: A self-consistent approach. Chemical Physics, 1988, 119, 63-70.	1.9	83
5	Physics D: Applied Physics, 1998, 31, 2591-2602.	2.8	71
6	Electron energy distribution function measurements in capacitively coupled rf discharges. Journal of Applied Physics, 1991, 69, 121-128.	2.5	68
7	Laser diagnostics of high-pressure discharges: laser induced fluorescence detection of OH in He/Ar/H <sub>2</sub> O dielectric barrier discharges. Plasma Physics and Controlled Fusion, 2011, 53, 124006.	2.1	66
8	LIF diagnostics of hydroxyl radical in atmospheric pressure He-H <sub>2</sub> O dielectric barrier discharges. Chemical Physics, 2012, 398, 142-147.	1.9	62
9	Vibrational relaxation of N <sub>2</sub> (C, v) state in N <sub>2</sub> pulsed rf discharge: electron impact and pooling reactions. Chemical Physics, 1995, 192, 149-162.	1.9	61
10	Rate constants for deactivation of N <sub>2</sub> (A) v=2-7 by O, O <sub>2</sub> , and NO. Journal of Chemical Physics, 1997, 107, 6219-6229.	3.0	61
11	Optical spectroscopy diagnostics of discharges at atmospheric pressure. Plasma Sources Science and Technology, 2014, 23, 015011.	3.1	58
12	Excitation and decay of N <sub>2</sub> (B <sup>3</sup> g, v) states in a pulsed discharge: Kinetics of electrons and long-lived species. Journal of Chemical Physics, 1999, 110, 2947-2962.	3.0	53
13	Oxidation of CH <sub>4</sub> by CO <sub>2</sub> in a dielectric barrier discharge. Chemical Physics Letters, 2014, 593, 55-60.	2.6	53
14	Time and space resolved analysis of N <sub>2</sub> (C 3Π <sub>u</sub> ) vibrational distributions in pulsed positive corona discharge. Journal Physics D: Applied Physics, 2002, 35, 1981-1990.	2.8	52
15	Nanosecond Pulsed Discharge for CO <sub>2</sub> Conversion: Kinetic Modeling To Elucidate the Chemistry and Improve the Performance. Journal of Physical Chemistry C, 2019, 123, 12104-12116.	3.1	48
16	Title is missing!. Plasma Sources Science and Technology, 1999, 8, 266-278.	3.1	47
17	Direct Plasma Deposition of Lysozyme-Embedded Bio-Composite Thin Films. Plasma Processes and Polymers, 2015, 12, 1302-1310.	3.0	47
18	OODR-LIF direct measurement of N <sub>2</sub> (C 3Π <sub>u</sub> , v=0-4) electronic quenching and vibrational relaxation rate coefficients by N <sub>2</sub> collision. Chemical Physics Letters, 2006, 431, 241-246.	2.6	44

#	ARTICLE	IF	CITATIONS
19	Non-equilibrium in low-temperature plasmas. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	42
20	Time-resolved LIF spectroscopy on N <sub>2</sub> (A) metastable in a He/N <sub>2</sub> pulsed rf discharge. <i>Chemical Physics</i> , 1993, 178, 547-560.	1.9	41
21	OH density measurement by time-resolved broad band absorption spectroscopy in an Ar/H <sub>2</sub> O dielectric barrier discharge. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 125203.	2.8	39
22	A TALIF calibration method for quantitative oxygen atom density measurement in plasma jets. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 53-56.	2.8	38
23	Laser induced fluorescence in atmospheric pressure discharges. <i>Plasma Sources Science and Technology</i> , 2015, 24, 034007.	3.1	35
24	Excitation of N <sub>2</sub> (B <sup>3</sup> Pig) in the nitrogen short-lived afterglow. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 1887-1893.	2.8	34
25	Improvement of lean flame stability of inverse methane/air diffusion flame by using coaxial dielectric plasma discharge actuators. <i>Energy</i> , 2017, 126, 689-706.	8.8	34
26	Time-Resolved CO <sub>2</sub> Dissociation in a Nanosecond Pulsed Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 707-718.	2.4	33
27	New N <sub>2</sub> (C <sup>3</sup> u,v) collision quenching and vibrational relaxation rate constants: 2. PG emission diagnostics of high-pressure discharges. <i>Plasma Sources Science and Technology</i> , 2007, 16, S45-S51.	3.1	29
28	Thermoluminescence study of the trapped charge at an alumina surface electrode in different dielectric barrier discharge regimes. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 325201.	2.8	29
29	Relaxation of the electron energy in the post-discharge of an He-N <sub>2</sub> mixture. <i>Plasma Sources Science and Technology</i> , 1993, 2, 119-122.	3.1	28
30	On the Measurement of N <sub>2</sub> (A <sup>3</sup> u + ) Metastable in N <sub>2</sub> Surface-Dielectric Barrier Discharge at Atmospheric Pressure. <i>Plasma Chemistry and Plasma Processing</i> , 2008, 28, 299-316.	2.4	28
31	On the collision quenching of N <sub>2</sub> <sup>+</sup> (B, <sup>2</sup> Σ <sub>g</sub> <sup>+</sup> , v=0) by N <sub>2</sub> and O <sub>2</sub> and its influence on the measurement of E <sub>N</sub> by intensity ratio of nitrogen spectral bands. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 195201.	2.8	27
32	Experimental and numerical investigation of an O <sub>2</sub> /NO supersonic free jet expansion. <i>Journal of Fluid Mechanics</i> , 2004, 500, 211-237.	3.4	26
33	Chemical processes in the atmospheric pressure plasma treatment of benzene. <i>Plasma Processes and Polymers</i> , 2007, 4, 548-555.	3.0	26
34	CN(B <sup>2</sup> Σ <sup>+</sup> ) formation and emission in a N <sub>2</sub> /CH <sub>4</sub> atmospheric pressure dielectric barrier discharge. <i>Plasma Sources Science and Technology</i> , 2009, 18, 015010.	3.1	26
35	Rate constants of quenching and vibrational relaxation in the OH(A <sup>2</sup> Σ <sup>+</sup> , v=0,1), manifold with various colliders. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 114003.	2.8	24
36	The effect of different pulse patterns on the plasma reduction of CO <sub>2</sub> for a nanosecond discharge. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 39, 101157.	6.8	23

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37	LIF investigations on NO, O and N in a supersonic N <sub>2</sub> /O <sub>2</sub> /NO RF plasma jet. Plasma Sources Science and Technology, 2004, 13, 504-514.	3.1	22
38	$\{m N\}_2$ left( $\{A, ^3\Sigma_{\{m u\}^+}$ ight) behaviour in a N <sub>2</sub> â€œNO surface dielectric barrier discharge in the modulated ac regime at atmospheric pressure. Journal Physics D: Applied Physics, 2010, 43, 124003.	2.8	22
39	Laser triggered single streamer in a pin-to-pin coplanar dielectric barrier discharge. Applied Physics Letters, 2009, 94, 231501.	3.3	21
40	Plasma Assisted Flame Stabilization in a Non-Premixed Lean Burner. Energy Procedia, 2015, 82, 410-416.	1.8	21
41	Methane Oligomerization in a Dielectric Barrier Discharge at Atmospheric Pressure. Plasma Processes and Polymers, 2009, 6, 27-33.	3.0	20
42	Nitrogen vibrational excitation in a N <sub>2</sub> /He pulsed planar-ICP RF discharge. Plasma Sources Science and Technology, 2005, 14, 676-685.	3.1	19
43	On N <sub>2</sub> (C <sup>3</sup> Ïu, v=0) state lifetime and collisional deactivation rate by N <sub>2</sub> . Chemical Physics Letters, 2007, 444, 39-43.	2.6	19
44	Deposition of Hydroxyl Functionalized Films by Means of Water Aerosolâ€Assisted Atmospheric Pressure Plasma. Plasma Processes and Polymers, 2014, 11, 1102-1111.	3.0	19
45	He/O <sub>2</sub> Atmospheric Pressure Plasma Jet Treatments of PCL Scaffolds for Tissue Engineering and Regenerative Medicine. Plasma Processes and Polymers, 2015, 12, 1451-1458.	3.0	18
46	Laser induced fluorescence in nanosecond repetitively pulsed discharges for CO <sub>2</sub> conversion. Plasma Physics and Controlled Fusion, 2018, 60, 014016.	2.1	18
47	Energy transfers by long-lived species in glows and afterglows. Pure and Applied Chemistry, 2002, 74, 317-326.	1.9	17
48	OH Density Measurements by Time-Resolved Broad Band Absorption Spectroscopy in a He-H <sub>2</sub> O Dielectric Barrier Discharge with Small O <sub>2</sub> Addition. Plasma Processes and Polymers, 2014, 11, 232-238.	3.0	17
49	CH <sub>4</sub> reforming with CO <sub>2</sub> in a nanosecond pulsed discharge. The importance of the pulse sequence. Journal of CO <sub>2</sub> Utilization, 2021, 49, 101556.	6.8	17
50	Electron energy distribution functions in He/N <sub>2</sub> mixtures in the presence of metastable states. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1990, 45, 521-525.	2.9	16
51	N <sub>2</sub> ( A <sup>1</sup> Ïu + 3 ) time evolution in N <sub>2</sub> atmospheric pressure surface dielectric barrier discharge driven by ac voltage under modulated regime. Applied Physics Letters, 2009, 94, .	3.3	16
52	The N <sub>2</sub> (A <sup>3</sup> Ïu+) energy transfer to OH(A <sup>2</sup> Ïu+) in low-pressure pulsed RF discharges. Journal Physics D: Applied Physics, 2001, 34, 1799-1806.	2.8	15
53	Non-thermal plasma in waste composting facilities: From a laboratory-scale experiment to a scaled-up economic model. Journal of Cleaner Production, 2019, 230, 230-240.	9.3	15
54	Opticalâ€optical double resonance LIF detection of in high pressure gas discharges. Plasma Sources Science and Technology, 2005, 14, 561-565.	3.1	14

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55	He-N2 radiofrequency discharge: Influence of N2 on discharge and afterglow. Plasma Chemistry and Plasma Processing, 1991, 11, 335-355.	2.4	11
56	Investigation of air-DBD effects on biological liquids for in vitro studies on eukaryotic cells. Clinical Plasma Medicine, 2015, 3, 62-71.	3.2	11
57	Time-resolved optical emission spectroscopy in CO <sub>2</sub> nanosecond pulsed discharges. Plasma Sources Science and Technology, 2021, 30, 115010.	3.1	11

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73	Opticalâ€“optical double resonance LIF measurement of N <sub>2</sub> (C <sup>3</sup> Û, v=2) deactivation rate constant by N <sub>2</sub> collisions. Chemical Physics Letters, 2005, 407, 303-307.	2.6	5
74	BABE â€“ a brush cathode discharge for thermal fluctuation measurements. Journal of Plasma Physics, 2015, 81, .	2.1	5
75	Optical diagnostics in dielectric barrier discharges at atmospheric pressure. Pure and Applied Chemistry, 2010, 82, 1201-1207.	1.9	4
76	Field effect measurements in hydrogenated and chlorinated amorphous silicon films. Journal of Non-Crystalline Solids, 1985, 77-78, 303-306.	3.1	3
77	Remote and Direct Plasma Processing of Cells: How to Induce a Desired Behavior. Plasma Medicine, 2012, 2, 97-114.	0.6	3
78	Low Temperature Plasma Strategies for Xylella fastidiosa Inactivation. Applied Sciences (Switzerland), 2022, 12, 4711.	2.5	3
79	LIF diagnostics in volume and surface dielectric barrier discharges at atmospheric pressure. Journal of Physics: Conference Series, 2010, 227, 012003.	0.4	2
80	Stimulating living cells with air DBD plasma. Materials Research Society Symposia Proceedings, 2012, 1469, 21.	0.1	2
81	ICP Plasma Jet characterization by space-resolved TALIF O atoms measurements. European Physical Journal D, 2004, 54, C709-C714.	0.4	1
82	CARS investigations of a N <sub>2</sub> planar-ICP discharge. European Physical Journal D, 2004, 54, C715-C720.	0.4	1
83	LIF investigations of O and NO products in air like RF plasma jet. Journal of Physics: Conference Series, 2010, 227, 012019.	0.4	1
84	Corrigendum on â€“OH Density Measurements by Time-Resolved Broad Band Absorption Spectroscopy in a He-H <sub>2</sub> O Dielectric Barrier Discharge With Small O <sub>2</sub> Additionâ€™. Plasma Processes and Polymers, 2016, 13, 298-299.	3.0	1
85	Cytotoxicity of Nonthermal Plasma Treatments on Three Cancer Cell Lines Induces Changes in Cell Morphology and in HSP70 Gene Expression. Plasma Medicine, 2021, 11, 59-81.	0.6	1
86	12th High-Tech Plasma Processes Conference (HTPP-12). Journal of Physics: Conference Series, 2012, 406, 011001.	0.4	0
87	Viewpoint on the letter â€“Ultrafast laser-collision induced fuorescence in atmospheric pressure plasmaâ€™ by E V Barnat and A Fierro. Journal Physics D: Applied Physics, 2017, 50, 211001.	2.8	0