

Giorgio Dilecce

List of Publications by Year in descending order

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87
papers

2,254
citations

186265

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254184

43
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87
all docs

87
docs citations

87
times ranked

1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Temperature Plasma Strategies for Xylella fastidiosa Inactivation. Applied Sciences (Switzerland), 2022, 12, 4711.	2.5	3
2	On the determination of the vibrational temperature by optical emission spectroscopy. Plasma Sources Science and Technology, 2022, 31, 077001.	3.1	7
3	CH4 reforming with CO2 in a nanosecond pulsed discharge. The importance of the pulse sequence. Journal of CO2 Utilization, 2021, 49, 101556.	6.8	17
4	Time-resolved optical emission spectroscopy in CO ₂ nanosecond pulsed discharges. Plasma Sources Science and Technology, 2021, 30, 115010.	3.1	11
5	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
6	On the detection of silicon in pig iron by LIBS. Optics and Laser Technology, 2020, 132, 106463.	4.6	9
7	The effect of different pulse patterns on the plasma reduction of CO2 for a nanosecond discharge. Journal of CO2 Utilization, 2020, 39, 101157.	6.8	23
8	Non-thermal rate constants of quenching and vibrational relaxation in the OH(Σ^+ , Σ^+) manifold with various colliders. Journal Physics D: Applied Physics, 2017, 50, 114003.	2.8	24
9	Progress on laser induced fluorescence in a collisional environment: the case of OH molecules in ns pulsed discharges. Plasma Sources Science and Technology, 2019, 28, 025012.	3.1	10
10	Nanosecond Pulsed Discharge for CO ₂ Conversion: Kinetic Modeling To Elucidate the Chemistry and Improve the Performance. Journal of Physical Chemistry C, 2019, 123, 12104-12116.	3.1	48
11	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
12	Laser induced fluorescence in nanosecond repetitively pulsed discharges for CO ₂ conversion. Plasma Physics and Controlled Fusion, 2018, 60, 014016.	2.1	18
13	Time-Resolved CO2 Dissociation in a Nanosecond Pulsed Discharge. Plasma Chemistry and Plasma Processing, 2018, 38, 707-718.	2.4	33
14	Nanosecond imaging and emission spectroscopy of argon streamer micro-discharge developing in coplanar surface DBD. Plasma Sources Science and Technology, 2018, 27, 055019.	3.1	9
15	Rate constants of quenching and vibrational relaxation in the OH(Σ^+ , Σ^+ , $v=0,1$), manifold with various colliders. Journal Physics D: Applied Physics, 2017, 50, 114003.	2.8	24
16	Reactivity of fatty acid methyl esters under atmospheric pressure plasma jet exposure: An experimental and theoretical study. Plasma Processes and Polymers, 2017, 14, 1600254.	3.0	10
17	Viewpoint on the letter "Ultrafast laser-collision induced fluorescence in atmospheric pressure plasma" by E V Barnat and A Fierro. Journal Physics D: Applied Physics, 2017, 50, 211001.	2.8	0
18	Improvement of lean flame stability of inverse methane/air diffusion flame by using coaxial dielectric plasma discharge actuators. Energy, 2017, 126, 689-706.	8.8	34

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19	Characterization of Reactive Oxygen/Nitrogen Species Produced in PBS and DMEM by Air DBD Plasma Treatments. <i>Plasma Medicine</i> , 2016, 6, 13-19.	0.6	8
20	Non-equilibrium in low-temperature plasmas. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	42
21	Lean Blowout Sensing and Plasma Actuation of Non-Premixed Flames. <i>IEEE Sensors Journal</i> , 2016, 16, 3896-3903.	4.7	9
22	Corrigendum on OH Density Measurements by Time-Resolved Broad Band Absorption Spectroscopy in a $\text{He-H}_2/\text{O}$ Dielectric Barrier Discharge With Small O_2 Addition™. <i>Plasma Processes and Polymers</i> , 2016, 13, 298-299.	3.0	1
23	Conversion of CH_4 to CO_2 by a nanosecond repetitively pulsed discharge. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 075602.	2.8	89
24	Plasma Assisted Flame Stabilization in a Non-Premixed Lean Burner. <i>Energy Procedia</i> , 2015, 82, 410-416.	1.8	21
25	Direct Plasma Deposition of Lysozyme-Embedded Bio-Composite Thin Films. <i>Plasma Processes and Polymers</i> , 2015, 12, 1302-1310.	3.0	47
26	He/O_2 Atmospheric Pressure Plasma Jet Treatments of PCL Scaffolds for Tissue Engineering and Regenerative Medicine. <i>Plasma Processes and Polymers</i> , 2015, 12, 1451-1458.	3.0	18
27	Laser induced fluorescence in atmospheric pressure discharges. <i>Plasma Sources Science and Technology</i> , 2015, 24, 034007.	3.1	35
28	BABE – a brush cathode discharge for thermal fluctuation measurements. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	5
29	Investigation of air-DBD effects on biological liquids for in vitro studies on eukaryotic cells. <i>Clinical Plasma Medicine</i> , 2015, 3, 62-71.	3.2	11
30	Deposition of Hydroxyl Functionalized Films by Means of Water Aerosol-Assisted Atmospheric Pressure Plasma. <i>Plasma Processes and Polymers</i> , 2014, 11, 1102-1111.	3.0	19
31	Oxidation of CH_4 by CO_2 in a dielectric barrier discharge. <i>Chemical Physics Letters</i> , 2014, 593, 55-60.	2.6	53
32	OH Density Measurements by Time-Resolved Broad Band Absorption Spectroscopy in a $\text{He-H}_2/\text{O}$ Dielectric Barrier Discharge with Small O_2 Addition. <i>Plasma Processes and Polymers</i> , 2014, 11, 232-238.	3.0	17
33	Optical spectroscopy diagnostics of discharges at atmospheric pressure. <i>Plasma Sources Science and Technology</i> , 2014, 23, 015011.	3.1	58
34	Nitrogen optical emission during nanosecond laser ablation of metals: prompt electrons or photo-ionization?. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 409-413.	2.3	9
35	LIF and fast imaging plasma jet characterization relevant for NTP biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 275401.	2.8	121
36	OH density measurement by time-resolved broad band absorption spectroscopy in an $\text{Ar-H}_2/\text{O}$ dielectric barrier discharge. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 125203.	2.8	39

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37	Stimulating living cells with air DBD plasma. Materials Research Society Symposia Proceedings, 2012, 1469, 21.	0.1	2
38	12th High-Tech Plasma Processes Conference (HTPP-12). Journal of Physics: Conference Series, 2012, 406, 011001.	0.4	0
39	Remote and Direct Plasma Processing of Cells: How to Induce a Desired Behavior. Plasma Medicine, 2012, 2, 97-114.	0.6	3
40	LIF diagnostics of hydroxyl radical in atmospheric pressure He-H ₂ O dielectric barrier discharges. Chemical Physics, 2012, 398, 142-147.	1.9	62
41	Laser diagnostics of high-pressure discharges: laser induced fluorescence detection of OH in He/Ar-H ₂ /O dielectric barrier discharges. Plasma Physics and Controlled Fusion, 2011, 53, 124006.	2.1	66
42	LIF diagnostics in volume and surface dielectric barrier discharges at atmospheric pressure. Journal of Physics: Conference Series, 2010, 227, 012003.	0.4	2
43	LIF investigations of O and NO products in air like RF plasma jet. Journal of Physics: Conference Series, 2010, 227, 012019.	0.4	1
44	Optical diagnostics in dielectric barrier discharges at atmospheric pressure. Pure and Applied Chemistry, 2010, 82, 1201-1207.	1.9	4
45	On the collision quenching of $\{m N\}_2^+(B, ^2\Sigma_{m u}^+, v=0)$ by N_2 and O_2 and its influence on the measurement of $\langle i \rangle E / \langle i \rangle N$ by intensity ratio of nitrogen spectral bands. Journal Physics D: Applied Physics, 2010, 43, 195201.	2.8	27
46	Thermoluminescence study of the trapped charge at an alumina surface electrode in different dielectric barrier discharge regimes. Journal Physics D: Applied Physics, 2010, 43, 325201.	2.8	29
47	$\{m N\}_2^+(A, ^3\Sigma_{m u}^+)$ behaviour in a N_2 "NO surface dielectric barrier discharge in the modulated ac regime at atmospheric pressure. Journal Physics D: Applied Physics, 2010, 43, 124003.	2.8	22
48	CH spectroscopic observables in He "CH ₄ and N_2 "CH ₄ atmospheric pressure dielectric barrier discharges. Journal Physics D: Applied Physics, 2010, 43, 124004.	2.8	6
49	$N_2(A \ ^1\Sigma_u^+)$ time evolution in N_2 atmospheric pressure surface dielectric barrier discharge driven by ac voltage under modulated regime. Applied Physics Letters, 2009, 94, .	3.3	16
50	CN(B "2 Σ^+) formation and emission in a N_2 "CH ₄ atmospheric pressure dielectric barrier discharge. Plasma Sources Science and Technology, 2009, 18, 015010.	3.1	26
51	Methane Oligomerization in a Dielectric Barrier Discharge at Atmospheric Pressure. Plasma Processes and Polymers, 2009, 6, 27-33.	3.0	20
52	Laser triggered single streamer in a pin-to-pin coplanar dielectric barrier discharge. Applied Physics Letters, 2009, 94, 231501.	3.3	21
53	On the Measurement of $N_2(A \ ^3\Sigma_u^+)$ Metastable in N_2 Surface-Dielectric Barrier Discharge at Atmospheric Pressure. Plasma Chemistry and Plasma Processing, 2008, 28, 299-316.	2.4	28
54	New $N_2(C \ ^3\Sigma_u, v)$ collision quenching and vibrational relaxation rate constants: 2. PG emission diagnostics of high-pressure discharges. Plasma Sources Science and Technology, 2007, 16, S45-S51.	3.1	29

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55	density measurement in a dielectric barrier discharge in N ₂ and N ₂ with small O ₂ admixtures. Plasma Sources Science and Technology, 2007, 16, 511-522.	3.1	95
56	On N ₂ (C ³ Π _u , v=0) state lifetime and collisional deactivation rate by N ₂ . Chemical Physics Letters, 2007, 444, 39-43.	2.6	19
57	Chemical processes in the atmospheric pressure plasma treatment of benzene. Plasma Processes and Polymers, 2007, 4, 548-555.	3.0	26
58	OODR-LIF direct measurement of N ₂ (C ³ Π _u , v=0) electronic quenching and vibrational relaxation rate coefficients by N ₂ collision. Chemical Physics Letters, 2006, 431, 241-246.	2.6	44

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73	Fast LIF Approach to NO Rotational Temperature and Density Measurement: Application to a Gas-Dynamic Expansion. Applied Spectroscopy, 2000, 54, 824-831.	2.2	7
74	Excitation of N ₂ (B ³ Pig) in the nitrogen short-lived afterglow. Journal Physics D: Applied Physics, 1999, 32, 1887-1893.	2.8	34
75	Title is missing!. Plasma Sources Science and Technology, 1999, 8, 266-278.	3.1	47
76	Excitation and decay of N ₂ (B ³ 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
77	Physics D: Applied Physics, 1998, 31, 2591-2602.	2.8	71
78	Rate constants for deactivation of N ₂ (A) v=2 by O, O ₂ , and NO. Journal of Chemical Physics, 1997, 107, 6219-6229.	3.0	61
79	Vibrational relaxation of N ₂ (C, v) state in N ₂ pulsed rf discharge: electron impact and pooling reactions. Chemical Physics, 1995, 192, 149-162.	1.9	61
80	He(43P) sublevel quenching by electron collision. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 209-223.	1.5	7
81	Time-resolved LIF spectroscopy on N ₂ (A) metastable in a He/N ₂ pulsed rf discharge. Chemical Physics, 1993, 178, 547-560.	1.9	41
82	Relaxation of the electron energy in the post-discharge of an He-N ₂ mixture. Plasma Sources Science and Technology, 1993, 2, 119-122.	3.1	28
83	Electron energy distribution function measurements in capacitively coupled rf discharges. Journal of Applied Physics, 1991, 69, 121-128.	2.5	68
84	He-N ₂ radiofrequency discharge: Influence of N ₂ on discharge and afterglow. Plasma Chemistry and Plasma Processing, 1991, 11, 335-355.	2.4	11
85	Electron energy distribution functions in He/N ₂ mixtures in the presence of metastable states. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1990, 45, 521-525.	2.9	16
86	Electron energy distribution functions under N ₂ discharge and post-discharge conditions: A self-consistent approach. Chemical Physics, 1988, 119, 63-70.	1.9	83
87	Field effect measurements in hydrogenated and chlorinated amorphous silicon films. Journal of Non-Crystalline Solids, 1985, 77-78, 303-306.	3.1	3