

Luca Matteo Martini

List of Publications by Year in descending order

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32
times ranked

568
citing authors

#	ARTICLE	IF	CITATIONS
1	Absolute OH density measurements in a CO ₂ -H ₂ O glow discharge by laser-induced fluorescence spectroscopy. Plasma Sources Science and Technology, 2022, 31, 055002.	3.1	3
2	Dry reforming of methane in a nanosecond repetitively pulsed discharge: chemical kinetics modeling. Plasma Sources Science and Technology, 2022, 31, 055014.	3.1	8
3	Exceeding Equilibrium CO ₂ Conversion by Plasma-Assisted Chemical Looping. ACS Energy Letters, 2022, 7, 1896-1902.	17.4	13
4	On the determination of the vibrational temperature by optical emission spectroscopy. Plasma Sources Science and Technology, 2022, 31, 077001.	3.1	7
5	CH ₄ reforming with CO ₂ in a nanosecond pulsed discharge. The importance of the pulse sequence. Journal of CO ₂ Utilization, 2021, 49, 101556.	6.8	17
6	Time-resolved optical emission spectroscopy in CO ₂ nanosecond pulsed discharges. Plasma Sources Science and Technology, 2021, 30, 115010.	3.1	11
7	Innovative remote plasma source for atomic layer deposition for GaN devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	5
8	Temperature evolution in a pulsed CO ₂ -N ₂ glow discharge measured using quantum cascade laser absorption spectroscopy. Plasma Sources Science and Technology, 2020, 29, 065016.	3.1	14
9	The effect of different pulse patterns on the plasma reduction of CO ₂ for a nanosecond discharge. Journal of CO ₂ Utilization, 2020, 39, 101157.	6.8	23
10	Vibrational quenching by water in a CO ₂ glow discharge measured using quantum cascade laser absorption spectroscopy. Plasma Sources Science and Technology, 2020, 29, 095017.	3.1	8
11	Non-thermal rate constants of quenching and vibrational relaxation in the OH ⁺ system. $\sigma_{\text{OH}^+}(\text{eV}) = 1.0784314 \times 10^{-16} \text{ cm}^2 \text{ s}^{-1} \left(\frac{E}{\text{eV}} \right)^{-0.5}$		50
12	Absolute CO number densities measured using TALIF in a non-thermal plasma environment. Plasma Sources Science and Technology, 2019, 28, 115006.	3.1	9
13	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
14	Destruction of dimethyl ether and methyl formate by collisions with He ⁺ . Astronomy and Astrophysics, 2019, 625, A72.	5.1	20
15	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
16	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
17	The Selective Role of Long-Range Forces in the Stereodynamics of Ion-Molecule Reactions: The He ⁺ +Methyl Formate Case From Guided-Ion-Beam Experiments. ChemPhysChem, 2018, 19, 51-59. ^{2,1}		16
18	Laser induced fluorescence in nanosecond repetitively pulsed discharges for CO ₂ conversion. Plasma Physics and Controlled Fusion, 2018, 60, 014016.	2.1	18

#	ARTICLE	IF	CITATIONS
19	Time-Resolved CO ₂ Dissociation in a Nanosecond Pulsed Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 707-718.	2.4	33
20	Experimental investigation of the reaction of helium ions with dimethyl ether: stereodynamics of the dissociative charge exchange process. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19554-19565.	2.8	19
21	Rate constants of quenching and vibrational relaxation in the OH(Σ^+ , $v=0,1$), manifold with various colliders. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 114003.	2.8	24
22	Reactivity of fatty acid methyl esters under atmospheric pressure plasma jet exposure: An experimental and theoretical study. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600254.	3.0	10
23	Characterisation of volatile organic compounds (VOCs) released by the composting of different waste matrices. <i>Environmental Pollution</i> , 2017, 231, 845-853.	7.5	57
24	Corrigendum on $\tilde{\text{O}}\text{H}$ Density Measurements by Time-Resolved Broad Band Absorption Spectroscopy in a He-H ₂ /O Dielectric Barrier Discharge With Small O ₂ Addition TM . <i>Plasma Processes and Polymers</i> , 2016, 13, 298-299.	3.0	1
25	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
26	Plasma Assisted Flame Stabilization in a Non-Premixed Lean Burner. <i>Energy Procedia</i> , 2015, 82, 410-416.	1.8	21
27	Laser induced fluorescence in atmospheric pressure discharges. <i>Plasma Sources Science and Technology</i> , 2015, 24, 034007.	3.1	35
28	Molecular growth of PAH-like systems induced by oxygen species: experimental and theoretical study of the reaction of naphthalene with HO (O^2I), O (O^3P), and O ₂ (O^3g). <i>RSC Advances</i> , 2015, 5, 38581-38590.	3.6	5
29	CO ₂ Hydrogenation by CH ₄ in a Dielectric Barrier Discharge: Catalytic Effects of Nickel and Copper. <i>Plasma Processes and Polymers</i> , 2014, 11, 624-628.	3.0	41
30	Oxidation of CH ₄ by CO ₂ in a dielectric barrier discharge. <i>Chemical Physics Letters</i> , 2014, 593, 55-60.	2.6	53
31	OH Density Measurements by Time-Resolved Broad Band Absorption Spectroscopy in a He-H ₂ /O Dielectric Barrier Discharge with Small O ₂ Addition. <i>Plasma Processes and Polymers</i> , 2014, 11, 232-238.	3.0	17
32	A current-carrying coil design with improved liquid cooling arrangement. <i>Review of Scientific Instruments</i> , 2013, 84, 065115.	1.3	5