

Alex van de Steeg

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

142
citations

1163065

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1199563

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docs citations

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times ranked

88
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chemical Origins of Plasma Contraction and Thermalization in CO ₂ Microwave Discharges. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1203-1208.	4.6	10
2	Charged particle kinetics and gas heating in CO ₂ microwave plasma contraction: comparisons of simulations and experiments. <i>Plasma Sources Science and Technology</i> , 2022, 31, 055005.	3.1	11
3	Revisiting spontaneous Raman scattering for direct oxygen atom quantification. <i>Optics Letters</i> , 2021, 46, 2172.	3.3	8
4	Thermal instability and volume contraction in a pulsed microwave N ₂ plasma at sub-atmospheric pressure. <i>Plasma Sources Science and Technology</i> , 2021, 30, 055005.	3.1	14
5	Resolving discharge parameters from atomic oxygen emission. <i>Plasma Sources Science and Technology</i> , 2021, 30, 065022.	3.1	8
6	Flame bands: CO + O chemiluminescence as a measure of gas temperature. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 374005.	2.8	3
7	Redefining the Microwave Plasma-Mediated CO ₂ Reduction Efficiency Limit: The Role of O [•] -CO ₂ Association. <i>ACS Energy Letters</i> , 2021, 6, 2876-2881.	17.4	19
8	Mode resolved heating dynamics in pulsed microwave CO ₂ plasma from laser Raman scattering. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 054002.	2.8	19
9	Plasma induced vibrational excitation of CH ₄ – a window to its mode selective processing. <i>Plasma Sources Science and Technology</i> , 2020, 29, 095007.	3.1	15
10	Plasma activation of N ₂ , CH ₄ and CO ₂ : an assessment of the vibrational non-equilibrium time window. <i>Plasma Sources Science and Technology</i> , 2020, 29, 115001.	3.1	22
11	Role of Electron-Ion Dissociative Recombination in CH_4 Microwave Plasma on Basis of Simulations and Measurements of Electron Energy. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 1275-1289.	2.4	4
12	Absolute CO number densities measured using TALIF in a non-thermal plasma environment. <i>Plasma Sources Science and Technology</i> , 2019, 28, 115006.	3.1	9