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Chemical consequences of laser-induced breakdown in molecular gases

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#	Paper	IF	Citations
25	Spectroscopic investigations of high-power laser-induced dielectric breakdown in gas mixtures containing carbon monoxide. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 7162-9	2.8	22
24	High-power laser-plasma chemistry in planetary atmospheres. <i>Proceedings of the International Astronomical Union</i> , 2008 , 4, 473-474	0.1	
23	Time-resolved Fourier-transform infrared emission spectroscopy of Au in the 1800-4000 cm ⁻¹ region: Rydberg transitions. <i>Physical Review A</i> , 2010 , 81,	2.6	16
22	A study of the composition of the products of laser-induced breakdown of hexogen, octogen, pentrite and trinitrotoluene using selected ion flow tube mass spectrometry and UV-Vis spectrometry. <i>Analyst, The</i> , 2010 , 135, 1106-14	5	37
21	Laser induced and controlled chemical reaction of carbon monoxide and hydrogen. <i>Journal of Chemical Physics</i> , 2011 , 135, 204303	3.9	5
20	Laser ablation of FOX-7: proposed mechanism of decomposition. <i>Analytical Chemistry</i> , 2011 , 83, 1069-777.8		42
19	Laser spark formamide decomposition studied by FT-IR spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 12132-41	2.8	33
18	Time-resolved Fourier Transform Infrared Emission Spectroscopy: Application to Pulsed Discharges and Laser Ablation. 2011 ,		
17	Atomic cesium 6h states observed by time-resolved FTIR spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 225006	1.3	6
16	Formation of metal nanoparticles studied by high resolution time-resolved Fourier-transform infrared spectroscopy. 2012 ,		
15	Laser ablation of CsI: time-resolved Fourier-transform infrared spectra of atomic cesium in the 800-8000 cm ⁻¹ range. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 1112	1.7	17
14	Time-resolved Fourier transform emission spectroscopy of He/CH ₄ in a positive column discharge. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3137-47	2.8	15
13	On the road from formamide ices to nucleobases: IR-spectroscopic observation of a direct reaction between cyano radicals and formamide in a high-energy impact event. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20788-96	16.4	49
12	Na I spectra in the 1.4-4 micron range: transitions and oscillator strengths involving f-, g-, and h-states. <i>Astronomy and Astrophysics</i> , 2012 , 542, A35	5.1	23
11	Excitation of helium Rydberg states and doubly excited resonances in strong extreme ultraviolet fields: full-dimensional quantum dynamics using exponentially tempered Gaussian basis sets. <i>Journal of Chemical Physics</i> , 2013 , 139, 104314	3.9	6
10	High-energy chemistry of formamide: a simpler way for nucleobase formation. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 719-36	2.8	66
9	Spontaneous and photoinduced conversion of CO ₂ on TiO ₂ anatase. 2015 ,		

8	Prebiotic synthesis of nucleic acids and their building blocks at the atomic level - merging models and mechanisms from advanced computations and experiments. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 20047-66	3.6	40
7	Acting Role of Background Gas in the Emission Response of Laser-Induced Plasmas of Energetic Nitro Compounds. <i>Applied Spectroscopy</i> , 2016 , 70, 1364-74	3.1	10
6	High Energy Radical Chemistry Formation of HCN-rich Atmospheres on early Earth. <i>Scientific Reports</i> , 2017 , 7, 6275	4.9	43
5	Main spectral features of meteors studied using a terawatt-class high-power laser. <i>Astronomy and Astrophysics</i> , 2019 , 630, A127	5.1	7
4	Identifiable Acetylene Features Predicted for Young Earth-like Exoplanets with Reducing Atmospheres Undergoing Heavy Bombardment. <i>Astrophysical Journal</i> , 2020 , 888, 21	4.7	12
3	Ariel β window to the origin of life on early earth?. <i>Experimental Astronomy</i> , 2020 , 1	1.3	1
2	One-Pot Hydrogen Cyanide-Based Prebiotic Synthesis of Canonical Nucleobases and Glycine Initiated by High-Velocity Impacts on Early Earth. <i>Astrobiology</i> , 2020 , 20, 1476-1488	3.7	7
1	Laser-induced breakdown spectroscopy of ammonia gas with resonant vibrational excitation. <i>Optics Express</i> , 2020 , 28, 1197-1205	3.3	3