

Isabelle Couturier-Tamburelli

List of Publications by Year in descending order

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33
papers

414
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759233

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all docs

34
docs citations

34
times ranked

394
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochemical activity of Titan's low-altitude condensed haze. <i>Nature Communications</i> , 2013, 4, 1648.	12.8	44
2	UV photoisomerisation of cyano and dicyanoacetylene: the first identification of CCNCH and CCCNCN isomers in matrix isolation, infrared and ab initio study. <i>Chemical Physics Letters</i> , 2003, 368, 574-583.	2.6	38
3	Photochemical Synthesis of the Cyanodiacetylene HC ₅ N: A Cryogenic Matrix Experiment. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2371-2377.	2.5	35
4	Spectroscopy of cyanodiacetylene in solid argon and the photochemical generation of isocyanodiacetylene. <i>Journal of Chemical Physics</i> , 2007, 126, 164301.	3.0	31
5	Photolysis of Astrophysically Relevant Acrylonitrile: A Matrix Experimental Study. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2453-2462.	2.5	21
6	Reaction Path of UV Photolysis of Matrix Isolated Acetyl Cyanide: Formation and Identification of Ketenes, Zwitterion, and Keteneimine Intermediates. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11733-11741.	2.5	19
7	Spectroscopic studies of non-volatile residue formed by photochemistry of solid C ₄ N ₂ : A model of condensed aerosol formation on Titan. <i>Icarus</i> , 2014, 234, 81-90.	2.5	18
8	Acrylonitrile characterization and high energetic photochemistry at Titan temperatures. <i>Icarus</i> , 2016, 270, 435-442.	2.5	17
9	Simulation of Titan's atmospheric photochemistry. <i>Astronomy and Astrophysics</i> , 2015, 578, A111.	5.1	15
10	Acetylenic/cyanoacetylenic complexes: simulation of the Titan's atmosphere chemistry. <i>Chemical Physics</i> , 2004, 300, 143-151.	1.9	13
11	Interstellar Ice Surface Site Modification Induced by Dicyanoacetylene Adsorption. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3437-3441.	2.6	13
12	Low-temperature phosphorescence of dicyanoacetylene in rare gas solids. <i>Low Temperature Physics</i> , 2012, 38, 723-726.	0.6	13
13	UV-Vis Light-induced Aging of Titan's Haze and Ice. <i>Astrophysical Journal</i> , 2018, 852, 117.	4.5	12
14	Infrared study of matrix-isolated ethyl cyanide: simulation of the photochemistry in the atmosphere of Titan. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30352-30363.	2.8	11
15	Photoreactivity of condensed acetylene on Titan aerosols analogues. <i>Icarus</i> , 2019, 321, 358-366.	2.5	11
16	Behaviour of solid phase ethyl cyanide in simulated conditions of Titan. <i>Icarus</i> , 2018, 300, 477-485.	2.5	10
17	Experimental Simulation of Titan's Stratospheric Photochemistry: Benzene (C ₆ H ₆) Ices. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006566.	3.6	10
18	Photolysis of water/dicyanoacetylene complexes: an infrared matrix isolation and theoretical study. <i>Chemical Physics</i> , 2004, 300, 23-31.	1.9	9

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19	Photoreactivity of Cyanoacetylene Trapped in Water Ice: An Infrared, Isotopic and Theoretical Study. Journal of Physical Chemistry A, 2005, 109, 8299-8305.	2.5	8
20	Experimental and Theoretical Investigation of HC ₅ N Adsorption on Amorphous Ice Surface: Simulation of the Interstellar Chemistry. Journal of Physical Chemistry A, 2008, 112, 8024-8029.	2.5	8
21	From Molecular Complexes to Zwitterions and Final Products. Reactions between C ₃ O ₂ and Amines. Journal of Physical Chemistry A, 2002, 106, 4489-4497.	2.5	7
22	UV Photolysis of C ₄ N ₂ in Water Ices: New Possible Route of Synthesis of Ammonium Bicarbonate and Ammonium Formate. Journal of Physical Chemistry A, 2006, 110, 7738-7743.	2.5	7
23	Cyanoacetylenic complexes as pre-reactional species leading to the HC ₇ N synthesis. Part II: Experimental and theoretical identifications of the HC ₅ N:C ₂ H ₂ complex. Chemical Physics, 2009, 358, 13-20.	1.9	7
24	Cyanoacetylenic complexes as pre-reactional species leading to the HC ₇ N synthesis. Part I: Experimental and theoretical identification of the HC ₃ N:C ₄ H ₂ complexes. Chemical Physics, 2009, 358, 7-12.	1.9	6
25	Density Functional Exploration of C ₄ H ₃ N Isomers. Journal of Physical Chemistry A, 2016, 120, 5928-5938.	2.5	6
26	Experimental Simulation of the Volatile Hydrocarbons Generated by the Long-UV Photoprocessing of (C ₆ H ₆) Ices with Relevance to Titan's Southern Stratospheric Ice Clouds. Planetary Science Journal, 2021, 2, 37.	3.6	6
27	Molecular complexes between carbon suboxide and acetylene derivatives: a cryogenic matrix and theoretical study. Chemical Physics, 2002, 278, 9-19.	1.9	5
28	Science goals and new mission concepts for future exploration of Titan's atmosphere, geology and habitability: titan POLar scout/orbitEr and in situ lake lander and DrONE explorer (POSEIDON). Experimental Astronomy, 2022, 54, 911-973.	3.7	5
29	Isomerization of cyanopropyne in solid argon. Physical Chemistry Chemical Physics, 2019, 21, 13668-13678.	2.8	4
30	Cyanoacetylene (HC ₃ N) and ammonia (NH ₃) complexes: A DFT theoretical and experimental study. Chemical Physics, 2012, 400, 98-102.	1.9	2
31	Photochemistry of benzene (C ₆ H ₆) hydrogen cyanide (HCN) co-condensed ices part 1: A source of solid-state production of volatile nitrile compounds in Titan's stratosphere. Icarus, 2021, 368, 114595.	2.5	2
32	Zwitterion Formation in Titan Ice Analogs: Reaction Between HC ₃ N and NH ₃ . Journal of Physical Chemistry A, 2012, 116, 10721-10727.	2.5	1
33	New possible route of HC ₃ N formation in Titan's atmosphere. Low Temperature Physics, 2019, 45, 598-605.	0.6	0