

SÃ©bastien D Le Picard

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4192986/publications.pdf>

Version: 2024-02-01

19
papers

965
citations

687363

13
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

1134
citing authors

#	ARTICLE	IF	CITATIONS
1	THE 2014 KIDA NETWORK FOR INTERSTELLAR CHEMISTRY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 20.	7.7	291
2	The rate of the $\text{F}^+ + \text{H}_2$ reaction at very low temperatures. <i>Nature Chemistry</i> , 2014, 6, 141-145.	13.6	105
3	Kinetics and Dynamics of the $\text{C}^+ + \text{H}_2$ reaction at very low temperatures. <i>Journal of Chemical Physics</i> , 2000, 112, 8466-8469.	7.8	88
4	Rate coefficients for the reactions of C^+ atoms with C_2H_2 , C_2H_4 , $\text{CH}_3\text{C}\equiv\text{CH}$ and $\text{H}_2\text{C}=\text{C}=\text{CH}_2$ at temperatures down to 15 K. <i>Astronomy and Astrophysics</i> , 2001, 365, 241-247.	5.1	87
5	The Thermodynamics of the Elusive HO_3 Radical. <i>Science</i> , 2010, 328, 1258-1262.	12.6	71
6	Direct kinetic measurements on reactions of atomic carbon, $\text{C}(^3\text{P})$, with O_2 and NO at temperatures down to 15 K. <i>Journal of Chemical Physics</i> , 2000, 112, 8466-8469.	3.0	55
7	An experimental study of the reaction kinetics of $\text{C}_2(\text{X}^1\Sigma^+g)$ with hydrocarbons (CH_4 , C_2H_2 , C_2H_4 , C_2H_6). <i>Icarus</i> , 2007, 187, 558-568.	2.5	44
8	Rate Coefficients for the Reactions of C^+ with Various Hydrocarbons (CH_4 , C_2H_2 , C_2H_4 , C_2H_6 , $\text{CH}_3\text{C}\equiv\text{CH}$, $\text{H}_2\text{C}=\text{C}=\text{CH}_2$) over the Temperature Range 24-300 K. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9591-9600.	2.0	457
9	THE $\text{C}^+ + \text{NH}_3$ REACTION IN INTERSTELLAR CHEMISTRY. II. LOW TEMPERATURE RATE CONSTANTS AND MODELING OF NH , NH_2 , AND NH_3 ABUNDANCES IN DENSE INTERSTELLAR CLOUDS. <i>Astrophysical Journal</i> , 2015, 812, 107.	4.5	37
10	THE $\text{C}^+ + \text{NH}_3$ REACTION IN INTERSTELLAR CHEMISTRY. I. INVESTIGATION OF THE PRODUCT FORMATION CHANNELS. <i>Astrophysical Journal</i> , 2015, 812, 106.	4.5	37
11	Low temperature measurements of the rate of association to benzene dimers in helium. <i>Journal of Chemical Physics</i> , 2000, 112, 4506-4516.	3.0	28
12	Low Temperature Kinetics of the First Steps of Water Cluster Formation. <i>Physical Review Letters</i> , 2016, 116, 113401.	7.8	26
13	Experimental and theoretical study of intramultiplet transitions in collisions of $\text{C}(^3\text{P})$ and $\text{Si}(^3\text{P})$ with He. <i>Journal of Chemical Physics</i> , 2002, 117, 10109-10120.	3.0	15
14	Rotational energy transfer in collisions between CO and Ar at temperatures from 293 to 30 K. <i>Chemical Physics Letters</i> , 2017, 683, 521-528.	2.6	13
15	A new instrument for kinetics and branching ratio studies of gas phase collisional processes at very low temperatures. <i>Review of Scientific Instruments</i> , 2021, 92, 014102.	1.3	9
16	Flow tube studies of the C^+ reactions with ethylene and propylene. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23833-23846.	2.8	7
17	Reactions of Atomic Carbon with Butene Isomers: Implications for Molecular Growth in Carbon-Rich Environments. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9138-9150.	2.5	5
18	Fine-structure transitions of interstellar atomic sulfur and silicon induced by collisions with helium. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5427-5434.	2.8	4

#	ARTICLE	IF	CITATIONS
19	Absolute measurements of state-to-state rotational energy transfer between CO and H_2 at interstellar temperatures. Physical Review A, 2022, 105, .	2.5	2