

# SÃ©bastien D Le Picard

## List of Publications by Year in descending order

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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	Absolute measurements of state-to-state rotational energy transfer between CO and $H$ at interstellar temperatures. <i>Physical Review A</i> , 2022, 105, .	2.5	2
2	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
3	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
4	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
5	Low Temperature Kinetics of the First Steps of Water Cluster Formation. <i>Physical Review Letters</i> , 2016, 116, 113401.	7.8	26
6	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
7	THE $C^{(3P)} + NH_3$ 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
8	THE $C^{(3P)} + NH_3$ REACTION IN INTERSTELLAR CHEMISTRY. I. INVESTIGATION OF THE PRODUCT FORMATION CHANNELS. <i>Astrophysical Journal</i> , 2015, 812, 106.	4.5	37
9	Flow tube studies of the $C^{(3P)}$ reactions with ethylene and propylene. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23833-23846.	2.8	7
10	THE 2014 KIDA NETWORK FOR INTERSTELLAR CHEMISTRY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 20.	7.7	291
11	The rate of the $F + H_2$ reaction at very low temperatures. <i>Nature Chemistry</i> , 2014, 6, 141-145.	13.6	105
12	Kinetics and Dynamics of the $S + C_2H_2$ reaction. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10800-10808.	7.8	88
13	The Thermodynamics of the Elusive $HO_3$ Radical. <i>Science</i> , 2010, 328, 1258-1262.	12.6	71
14	Rate Coefficients for the Reactions of $C_2H_2(a^3\hat{C})$ and $C_2H_2(X^1\hat{C})$ with Various Hydrocarbons ( $CH_4$ , $C_2H_2$ , $C_2H_4$ , $C_2H_6$ ). <i>Journal of Physical Chemistry A</i> , 2008, 112, 9591-9600.	2.5	44
15	An experimental study of the reaction kinetics of $C_2(X^1\hat{C})$ with hydrocarbons ( $CH_4$ , $C_2H_2$ , $C_2H_4$ , $C_2H_6$ ). <i>Journal of Physical Chemistry A</i> , 2007, 111, 1171-1177.	2.5	44
16	Giant Planets. <i>Icarus</i> , 2007, 187, 558-568.		
16	Experimental and theoretical study of intramultiplet transitions in collisions of $C(3P)$ and $Si(3P)$ with He. <i>Journal of Chemical Physics</i> , 2002, 117, 10109-10120.	3.0	15
17	Rate coefficients for the reactions of $C(^3P)$ atoms with $C_2H_2$ , $C_2H_4$ , $CH_3C\equiv CH$ and $H_2C=C$ at temperatures down to 15 K. <i>Astronomy and Astrophysics</i> , 2001, 365, 241-247.	5.1	87
18	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

#	ARTICLE	IF	CITATIONS
19	Direct kinetic measurements on reactions of atomic carbon, C(3P), with O2 and NO at temperatures down to 15 K. Journal of Chemical Physics, 2000, 112, 8466-8469.	3.0	55