

# SÃ©bastien Viscardy

## List of Publications by Year in descending order

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26  
papers

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citations

516215

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43  
docs citations

43  
times ranked

898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining NOMAD D/H Observations by Cloud-Induced Fractionation of Water Vapor on Mars. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	11
2	Calibration of the NOMAD-UVIS data. Planetary and Space Science, 2022, 218, 105504.	0.9	5
3	Planet-Wide Ozone Destruction in the Middle Atmosphere on Mars During Global Dust Storm. Geophysical Research Letters, 2022, 49, .	1.5	7
4	Comprehensive investigation of Mars methane and organics with ExoMars/NOMAD. Icarus, 2021, 357, 114266.	1.1	27
5	Impact of gradients at the martian terminator on the retrieval of ozone from SPICAM/MEx. Icarus, 2021, 353, 113598.	1.1	8
6	Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. Science Advances, 2021, 7, .	4.7	31
7	Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. Geophysical Research Letters, 2021, 48, e2021GL092650.	1.5	7
8	Annual Appearance of Hydrogen Chloride on Mars and a Striking Similarity With the Water Vapor Vertical Distribution Observed by TGO/NOMAD. Geophysical Research Letters, 2021, 48, e2021GL092506.	1.5	15
9	Explanation for the Increase in High-Altitude Water on Mars Observed by NOMAD During the 2018 Global Dust Storm. Geophysical Research Letters, 2020, 47, e2019GL084354.	1.5	62
10	Mars atmospheric chemistry simulations with the GEM-Mars general circulation model. Icarus, 2019, 326, 197-224.	1.1	52
11	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520.	13.7	111
12	Martian dust storm impact on atmospheric H <sub>2</sub> O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525.	13.7	107
13	Independent confirmation of a methane spike on Mars and a source region east of Gale Crater. Nature Geoscience, 2019, 12, 326-332.	5.4	63
14	Ground-based infrared mapping of H <sub>2</sub> O <sub>2</sub> on Mars near opposition. Astronomy and Astrophysics, 2019, 627, A60.	2.1	8
15	Water Vapor Vertical Profiles on Mars in Dust Storms Observed by TGO/NOMAD. Journal of Geophysical Research E: Planets, 2019, 124, 3482-3497.	1.5	88
16	Methane on Mars and Habitability: Challenges and Responses. Astrobiology, 2018, 18, 1221-1242.	1.5	50
17	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. Space Science Reviews, 2018, 214, 1.	3.7	95
18	Formation of layers of methane in the atmosphere of Mars after surface release. Geophysical Research Letters, 2016, 43, 1868-1875.	1.5	20

#	ARTICLE	IF	CITATIONS
19	A simple framework for modelling the photochemical response to solar spectral irradiance variability in the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7707-7724.	1.9	5
20	The 2009 stratospheric major warming described from synergistic use of BASCOE water vapour analyses and MLS observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4689-4703.	1.9	18
21	Evaluation of Ozone Analyses From UARS MLS Assimilation by BASCOE Between 1992 and 1997. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010, 3, 190-202.	2.3	19
22	4D-Var assimilation of MIPAS chemical observations: ozone and nitrogen dioxide analyses. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6169-6187.	1.9	84
23	Transport and Helfand moments in the Lennard-Jones fluid. I. Shear viscosity. <i>Journal of Chemical Physics</i> , 2007, 126, 184512.	1.2	41
24	Transport and Helfand moments in the Lennard-Jones fluid. II. Thermal conductivity. <i>Journal of Chemical Physics</i> , 2007, 126, 184513.	1.2	34
25	Viscosity in molecular dynamics with periodic boundary conditions. <i>Physical Review E</i> , 2003, 68, 041204.	0.8	24
26	Viscosity in the escape-rate formalism. <i>Physical Review E</i> , 2003, 68, 041205.	0.8	19