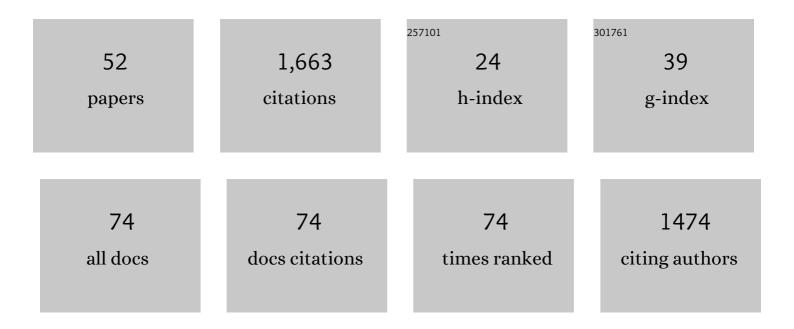
Lori L Neary

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520.	13.7	111
2	Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525.	13.7	107
3	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
4	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
5	Connecting surface emissions, convective uplifting, and longâ€range transport of carbon monoxide in the upper troposphere: New observations from the Aura Microwave Limb Sounder. Geophysical Research Letters, 2007, 34, .	1.5	86
6	GEM-AQ, an on-line global multiscale chemical weather modelling system: model description and evaluation of gas phase chemistry processes. Atmospheric Chemistry and Physics, 2008, 8, 3255-3281.	1.9	84
7	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. Planetary and Space Science, 2015, 119, 233-249.	0.9	77
8	Analysis of reactive bromine production and ozone depletion in the Arctic boundary layer using 3-D simulations with GEM-AQ: inference from synoptic-scale patterns. Atmospheric Chemistry and Physics, 2011, 11, 3949-3979.	1.9	75
9	The climatology of carbon monoxide and water vapor on Mars as observed by CRISM and modeled by the GEM-Mars general circulation model. Icarus, 2018, 301, 117-131.	1.1	74
10	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
11	Explanation for the Increase in Highâ€Altitude Water on Mars Observed by NOMAD During the 2018 Global Dust Storm. Geophysical Research Letters, 2020, 47, e2019GL084354.	1.5	62
12	Mars atmospheric chemistry simulations with the GEM-Mars general circulation model. Icarus, 2019, 326, 197-224.	1.1	52
13	The GEM-Mars general circulation model for Mars: Description and evaluation. Icarus, 2018, 300, 458-476.	1.1	46
14	First space-based observations of formic acid (HCOOH): Atmospheric Chemistry Experiment austral spring 2004 and 2005 Southern Hemisphere tropical-mid-latitude upper tropospheric measurements. Geophysical Research Letters, 2006, 33, .	1.5	42
15	GEM/POPs: a global 3-D dynamic model for semi-volatile persistent organic pollutants – Part 2: Global transports and budgets of PCBs. Atmospheric Chemistry and Physics, 2007, 7, 4015-4025.	1.9	38
16	A solar escalator on Mars: Selfâ€lifting of dust layers by radiative heating. Geophysical Research Letters, 2015, 42, 7319-7326.	1.5	38
17	Multi-model Meteorological and Aeolian Predictions for Mars 2020 and the Jezero Crater Region. Space Science Reviews, 2021, 217, 20.	3.7	35
18	Saltation under Martian gravity and its influence on the global dust distribution. Icarus, 2018, 306, 25-31.	1.1	33

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19	Hydrogen cyanide in the upper troposphere: GEM-AQ simulation and comparison with ACE-FTS observations. Atmospheric Chemistry and Physics, 2009, 9, 4301-4313.	1.9	32
20	Methane on Mars: New insights into the sensitivity of CH4 with the NOMAD/ExoMars spectrometer through its first in-flight calibration. Icarus, 2019, 321, 671-690.	1.1	32
21	Expected performances of the NOMAD/ExoMars instrument. Planetary and Space Science, 2016, 124, 94-104.	0.9	31
22	Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. Science Advances, 2021, 7, .	4.7	31
23	Evaluation of the GEM-AQ air quality model during the Québec smoke event of 2002: Analysis of extensive and intensive optical disparities. Atmospheric Environment, 2006, 40, 3737-3749.	1.9	27
24	Comprehensive investigation of Mars methane and organics with ExoMars/NOMAD. Icarus, 2021, 357, 114266.	1.1	27
25	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. Optics Express, 2015, 23, 30028.	1.7	26
26	Optical and radiometric models of the NOMAD instrument part II: the infrared channels - SO and LNO. Optics Express, 2016, 24, 3790.	1.7	25
27	Formation of layers of methane in the atmosphere of Mars after surface release. Geophysical Research Letters, 2016, 43, 1868-1875.	1.5	20
28	Studying methane and other trace species in the Mars atmosphere using a SOIR instrument. Planetary and Space Science, 2011, 59, 292-298.	0.9	19
29	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
30	The Deuterium Isotopic Ratio of Water Released From the Martian Caps as Measured With TGO/NOMAD. Geophysical Research Letters, 2022, 49, .	1.5	15
31	Radiation Environment and Doses on Mars at Oxia Planum and Mawrth Vallis: Support for Exploration at Sites With High Biosignature Preservation Potential. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006488.	1.5	14
32	ExoMars TGO/NOMADâ€UVIS Vertical Profiles of Ozone: 2. The Highâ€Altitude Layers of Atmospheric Ozone. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006834.	1.5	14
33	First application of MC2-AQ to multiscale air quality modelling over Europe. Physics and Chemistry of the Earth, 2002, 27, 1517-1524.	1.2	12
34	First Detection and Thermal Characterization of Terminator CO ₂ Ice Clouds With ExoMars/NOMAD. Geophysical Research Letters, 2021, 48, .	1.5	12
35	The climatology of carbon monoxide on Mars as observed by NOMAD nadir-geometry observations. Icarus, 2021, 362, 114404.	1.1	11
36	Explaining NOMAD D/H Observations by Cloudâ€Induced Fractionation of Water Vapor on Mars. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	11

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#	Article	IF	CITATIONS
37	Ground-based infrared mapping of H ₂ O ₂ on Mars near opposition. Astronomy and Astrophysics, 2019, 627, A60.	2.1	8
38	Impact of gradients at the martian terminator on the retrieval of ozone from SPICAM/MEx. Icarus, 2021, 353, 113598.	1.1	8
39	A Global and Seasonal Perspective of Martian Water Vapor From ExoMars/NOMAD. Journal of Geophysical Research E: Planets, 2021, 126, .	1.5	8
40	Two test-cases for synergistic detections in the Martian atmosphere: Carbon monoxide and methane. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 86-104.	1.1	7
41	Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. Geophysical Research Letters, 2021, 48, e2021GL092650.	1.5	7
42	Variations in Vertical CO/CO ₂ Profiles in the Martian Mesosphere and Lower Thermosphere Measured by the ExoMars TGO/NOMAD: Implications of Variations in Eddy Diffusion Coefficient. Geophysical Research Letters, 2022, 49, .	1.5	7
43	Planetâ€Wide Ozone Destruction in the Middle Atmosphere on Mars During Global Dust Storm. Geophysical Research Letters, 2022, 49, .	1.5	7
44	Seasonal and Spatial Variability of Carbon Monoxide (CO) in the Martian Atmosphere From PFS/MEX Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006480.	1.5	6
45	Assessment of emissions data for the Toronto region using aircraft-based measurements and an air quality model. Atmospheric Environment, 2001, 35, 6453-6463.	1.9	5
46	Machine learning for automatic identification of new minor species. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 259, 107361.	1.1	2
47	Developments and Results from a Global Multiscale Air Quality Model (GEM-AQ). , 2007, , 403-410.		2
48	High Resolution Air Quality Simulations with MC2-AQ and GEM-AQ. , 2007, , 714-720.		2
49	Evaluating a Canadian regional air quality model using ground-based observations in north-eastern Canada and United States. Journal of Environmental Monitoring, 2003, 5, 40-46.	2.1	1
50	Observation Capability of a Ground-Based Terahertz Radiometer for Vertical Profiles of Oxygen and Water Abundances in Martian Atmosphere. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	1
51	Multiscale Atmospheric Chemistry Modelling with GEMAQ. , 2010, , 55-60.		0
52	The Use of Meso-Scale Atmospheric Circulation Types as a Strategy for Modelling Long-Term Trends in Air Pollution. NATO Security Through Science Series C: Environmental Security, 2008, , 145-153.	0.1	0