

# J Gomez-Elvira

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

5,157  
citations

218677

26  
h-index

454955

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

3806  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mars Environmental Dynamics Analyzer, MEDA. A Suite of Environmental Sensors for the Mars 2020 Mission. <i>Space Science Reviews</i> , 2021, 217, 48.	8.1	57
2	In Situ UV Measurements by MSL/REMS: Dust Deposition and Angular Response Corrections. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	17
3	Effects of a Large Dust Storm in the Near-Surface Atmosphere as Measured by InSight in Elysium Planitia, Mars. Comparison With Contemporaneous Measurements by Mars Science Laboratory. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006493.	3.6	30
4	Advective Fluxes in the Martian Regolith as a Mechanism Driving Methane and Other Trace Gas Emissions to the Atmosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085694.	4.0	9
5	Effects of the MY34/2018 Global Dust Storm as Measured by MSL REMS in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1899-1912.	3.6	40
6	Gale surface wind characterization based on the Mars Science Laboratory REMS dataset. Part I: Wind retrieval and Gale's wind speeds and directions. <i>Icarus</i> , 2019, 319, 909-925.	2.5	45
7	InSight Auxiliary Payload Sensor Suite (APSS). <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	104
8	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 71-79.	4.0	138
9	Gale surface wind characterization based on the Mars Science Laboratory REMS dataset. Part II: Wind probability distributions. <i>Icarus</i> , 2019, 319, 645-656.	2.5	36
10	Experimental and Numerical Characterization of the Flow Around the Mars 2020 Rover. <i>Journal of Spacecraft and Rockets</i> , 2018, 55, 1136-1143.	1.9	6
11	Likely frost events at Gale crater: Analysis from MSL/REMS measurements. <i>Icarus</i> , 2016, 280, 93-102.	2.5	44
12	Mars Science Laboratory relative humidity observations: Initial results. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2132-2147.	3.6	75
13	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
14	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
15	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
16	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	12.6	475
17	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
18	Preliminary interpretation of the REMS pressure data from the first 100 sols of the MSL mission. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 440-453.	3.6	80

#	ARTICLE	IF	CITATIONS
19	Pressure observations by the Curiosity rover: Initial results. Journal of Geophysical Research E: Planets, 2014, 119, 82-92.	3.6	84
20	Surface energy budget and thermal inertia at Gale Crater: Calculations from ground-based measurements. Journal of Geophysical Research E: Planets, 2014, 119, 1822-1838.	3.6	46
21	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	12.6	327
22	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	12.6	280
23	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	12.6	327
24	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367
25	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	12.6	134
26	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	12.6	215
27	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. Space Science Reviews, 2012, 170, 583-640.	8.1	247
28	Temperature gradient distribution in permafrost active layer, using a prototype of the ground temperature sensor (REMS-MSL) on deception island (Antarctica). Cold Regions Science and Technology, 2012, 72, 23-32.	3.5	12
29	REMS: The Environmental Sensor Suite for the Mars Science Laboratory Rover. , 2012, , 583-640.		11
30	Instrument development to search for biomarkers on mars: Terrestrial acidophile, iron-powered chemolithoautotrophic communities as model systems. Planetary and Space Science, 2005, 53, 729-737.	1.7	77
31	The Tinto River, an extreme acidic environment under control of iron, as an analog of the Terra Meridiani hematite site of Mars. Planetary and Space Science, 2004, 52, 239-248.	1.7	110