

# Wendy M Calvin

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

3,489  
citations

29  
h-index

59  
g-index

70  
ext. papers

3,881  
ext. citations

5.4  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
60	Context Camera Investigation on board the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		779
59	Orbital identification of carbonate-bearing rocks on Mars. <i>Science</i> , <b>2008</b> , 322, 1828-32	33.3	470
58	The U. S. Geological Survey, Digital Spectral Library: Version 1 (0.2 to 3.0um). <i>US Geological Survey Open-File Report</i> ,		156
57	Charge-coupled device spectra of the Galilean satellites: Molecular oxygen on Ganymede. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 19049		144
56	Characteristics, distribution, origin, and significance of opaline silica observed by the Spirit rover in Gusev crater, Mars. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		123
55	SEBASS hyperspectral thermal infrared data: surface emissivity measurement and mineral mapping. <i>Remote Sensing of Environment</i> , <b>2003</b> , 85, 48-63	13.2	122
54	Mineralogy of Juventae Chasma: Sulfates in the light-toned mounds, mafic minerals in the bedrock, and hydrated silica and hydroxylated ferric sulfate on the plateau. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		119
53	Surface mineral mapping at Steamboat Springs, Nevada, USA, with multi-wavelength thermal infrared images. <i>Remote Sensing of Environment</i> , <b>2005</b> , 99, 140-158	13.2	105
52	Spectra of the icy Galilean satellites from 0.2 to 5μm: A compilation, new observations, and a recent summary. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 19041		90
51	O <sub>2</sub> on Ganymede: Spectral characteristics and plasma formation mechanisms. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 673-676	4.9	80
50	Condensed O <sub>2</sub> /TINF on Europa and Callisto. <i>Astronomical Journal</i> , <b>2002</b> , 124, 3400-3403	4.9	78
49	New Composite Spectra of Mars, 0.4-7 μm. <i>Icarus</i> , <b>1997</b> , 130, 449-460	3.8	75
48	Hydrous carbonates on Mars?: Evidence from Mariner 6/7 infrared spectrometer and ground-based telescopic spectra. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 14659		69
47	Mineral mapping in the Pyramid Lake basin: Hydrothermal alteration, chemical precipitates and geothermal energy potential. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 2297-2304	13.2	61
46	Mapping alteration minerals at prospect, outcrop and drill core scales using imaging spectrometry. <i>International Journal of Remote Sensing</i> , <b>2012</b> , 33, 1780-1798	3.1	54
45	Spectral characteristics of iron-bearing phyllosilicates: Comparison to Orgueil (Cl1), Murchison and Murray (CM2). <i>Meteoritics and Planetary Science</i> , <b>1997</b> , 32, 693-701	2.8	53
44	Modeling the reflectance spectrum of Callisto 0.25 to 4.1 μm. <i>Icarus</i> , <b>1991</b> , 89, 305-317	3.8	53

43	MARCI and MOC observations of the atmosphere and surface cap in the north polar region of Mars. <i>Icarus</i> , <b>2010</b> , 208, 61-81	3.8	46
42	Climate, weather, and north polar observations from the Mars Reconnaissance Orbiter Mars Color Imager. <i>Icarus</i> , <b>2008</b> , 194, 501-512	3.8	46
41	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) south polar mapping: First Mars year of observations. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		43
40	Residual south polar cap of Mars: Stratigraphy, history, and implications of recent changes. <i>Icarus</i> , <b>2009</b> , 203, 352-375	3.8	41
39	High concentrations of manganese and sulfur in deposits on Murray Ridge, Endeavour Crater, Mars. <i>American Mineralogist</i> , <b>2016</b> , 101, 1389-1405	2.9	40
38	Discovery of alunite in cross crater, terra sirenum, mars: evidence for acidic, sulfurous waters. <i>American Mineralogist</i> , <b>2016</b> , 101, 1527-1542	2.9	39
37	Latitudinal Distribution of O <sub>2</sub> on Ganymede: Observations with the Hubble Space Telescope. <i>Icarus</i> , <b>1997</b> , 130, 505-516	3.8	37
36	Four-fold increase in solar forcing on snow in western U.S. burned forests since 1999. <i>Nature Communications</i> , <b>2019</b> , 10, 2026	17.4	33
35	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) north polar springtime recession mapping: First 3 Mars years of observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		31
34	Spectral Distinctions between the Leading and Trailing Hemispheres of Callisto: New Observations. <i>Icarus</i> , <b>1993</b> , 104, 69-78	3.8	31
33	Ices on the Satellites of Jupiter, Saturn, and Uranus. <i>Astrophysics and Space Science Library</i> , <b>1998</b> , 579-606.3		31
32	Remote sensing of geothermal-related minerals for resource exploration in Nevada. <i>Geothermics</i> , <b>2015</b> , 53, 517-526	4.3	30
31	Spatial variability in the seasonal south polar cap of Mars. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 21143		29
30	Variation of the 3- $\mu$ m absorption feature on Mars: Observations over eastern Valles Marineris by the Mariner 6 infrared spectrometer. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 9097-9107		28
29	Detection and monitoring of H <sub>2</sub> O and CO <sub>2</sub> ice clouds on Mars. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 9227-9237		28
28	Martian north polar cap summer water cycle. <i>Icarus</i> , <b>2016</b> , 277, 401-415	3.8	24
27	Effect of Reduced Spatial Resolution on Mineral Mapping Using Imaging Spectrometry Examples Using Hyperspectral Infrared Imager (HyspIRI)-Simulated Data. <i>Remote Sensing</i> , <b>2011</b> , 3, 1584-1602	5	24
26	Geothermal exploration with Hymap hyperspectral data at Brady Desert Peak, Nevada. <i>Remote Sensing of Environment</i> , <b>2006</b> , 104, 313-324	13.2	24

25	Additions and corrections to the absorption coefficients of CO <sub>2</sub> Ice: Applications to the Martian south polar cap. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 14743		23
24	Mapping alteration in geothermal drill core using a field portable spectroradiometer. <i>Geothermics</i> , <b>2016</b> , 61, 12-23	4.3	22
23	Geothermal exploration using imaging spectrometer data over Fish Lake Valley, Nevada. <i>Remote Sensing of Environment</i> , <b>2014</b> , 140, 509-518	13.2	21
22	Mass balance of Mars's residual south polar cap from CTX images and other data. <i>Icarus</i> , <b>2016</b> , 268, 118-130	3.8	20
21	Summer season variability of the north residual cap of Mars as observed by the Mars Global Surveyor Thermal Emission Spectrometer (MGS-TES). <i>Planetary and Space Science</i> , <b>2008</b> , 56, 212-226	2	18
20	Interannual and seasonal changes in the north polar ice deposits of Mars: Observations from MY 29B1 using MARCI. <i>Icarus</i> , <b>2015</b> , 251, 181-190	3.8	16
19	The Holy Grail: A road map for unlocking the climate record stored within Mars's polar layered deposits. <i>Planetary and Space Science</i> , <b>2020</b> , 184, 104841	2	15
18	Interannual and seasonal changes in the south seasonal polar cap of Mars: Observations from MY 28-31 using MARCI. <i>Icarus</i> , <b>2017</b> , 292, 144-153	3.8	14
17	Time scales of erosion and deposition recorded in the residual south polar cap of Mars. <i>Icarus</i> , <b>2013</b> , 225, 923-932	3.8	14
16	Mapping acidic mine waste with seasonal airborne hyperspectral imagery at varying spatial scales. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	14
15	Could Mars be dark and altered?. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1597-1600	4.9	14
14	Hydration state of the Martian coarse-grained hematite exposures: Implications for their origin and evolution. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		12
13	Quantifying Iron Concentration in Local and Synthetic Acid Mine Drainage: A New Technique Using Handheld Field Spectrometers. <i>Mine Water and the Environment</i> , <b>2017</b> , 36, 299-309	2.4	9
12	Visible and near-infrared multispectral analysis of geochemically measured rock fragments at the Opportunity landing site in Meridiani Planum. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		7
11	A model of diffuse radar scattering from Martian surface rocks. <i>Icarus</i> , <b>1988</b> , 76, 513-524	3.8	7
10	Utilizing HypSIRI Prototype Data for Geological Exploration Applications: A Southern California Case Study. <i>Geosciences (Switzerland)</i> , <b>2016</b> , 6, 11	2.7	7
9	Spectral properties of Lake Superior banded iron formation: application to Martian hematite deposits. <i>Astrobiology</i> , <b>2006</b> , 6, 563-80	3.7	4
8	Imaging Spectrometry: Spectral Resolution And Analytical Identification Of Spectral Features <b>1987</b> ,		4

7	Frontier Observatory for Research in Geothermal Energy: Phase 1 Topical Report West Flank of Coso, CA		4
6	Remote sensing communities Break the ice at Flagstaff Workshop. <i>Eos</i> , <b>1997</b> , 78, 392	1.5	2
5	Reflectance of Antarctica from 3 to 5 $\mu$ m: discrimination of surface snow and cloud properties. <i>Annals of Glaciology</i> , <b>2002</b> , 34, 121-126	2.5	1
4	Petrographic and spectral study of hydrothermal mineralization in drill core from Hawaii: A potential analog to alteration in the martian subsurface. <i>American Mineralogist</i> , <b>2020</b> , 105, 1297-1305	2.9	1
3	Characterizing low-temperature aqueous alteration of Mars-analog basalts from Mauna Kea at multiple scales. <i>American Mineralogist</i> , <b>2020</b> , 105, 1306-1316	2.9	1
2	The Mars Orbiter for Resources, Ices, and Environments (MORIE) Science Goals and Instrument Trades in Radar, Imaging, and Spectroscopy. <i>Planetary Science Journal</i> , <b>2021</b> , 2, 76	2.9	1
1	Mapping Potentially Acid Generating Material on Abandoned Mine Lands Using Remotely Piloted Aerial Systems. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 365	2.4	0