

Frank P Seelos

List of Publications by Year in descending order

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52
papers

5,760
citations

109321

35
h-index

197818

49
g-index

53
all docs

53
docs citations

53
times ranked

3025
citing authors

#	ARTICLE	IF	CITATIONS
1	Maximizing the Science and Resource Mapping Potential of Orbital VSWIR Spectral Measurements of Mars. , 2021, 53, .		0
2	Characteristics, Origins, and Biosignature Preservation Potential of Carbonate-Bearing Rocks Within and Outside of Jezero Crater. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006898.	3.6	16
3	Anomalous Phyllosilicate-Bearing Outcrops South of Coprates Chasma: A Study of Possible Emplacement Mechanisms. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006043.	3.6	5
4	Multiple mineral horizons in layered outcrops at Mawrth Vallis, Mars, signify changing geochemical environments on early Mars. Icarus, 2020, 341, 113634.	2.5	24
5	Composition of Amazonian volcanic materials in Tharsis and Elysium, Mars, from MRO/CRISM reflectance spectra. Icarus, 2019, 328, 274-286.	2.5	27
6	Image Simulation and Assessment of the Colour and Spatial Capabilities of the Colour and Stereo Surface Imaging System (CaSSIS) on the ExoMars Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	24
7	Challenges in the Search for Perchlorate and Other Hydrated Minerals With 2.1-µm Absorptions on Mars. Geophysical Research Letters, 2018, 45, 12180-12189.	4.0	40
8	Calibration, Projection, and Final Image Products of MESSENGER's Mercury Dual Imaging System. Space Science Reviews, 2018, 214, 1.	8.1	53
9	New insights into gully formation on Mars: Constraints from composition as seen by MRO/CRISM. Geophysical Research Letters, 2016, 43, 8893-8902.	4.0	21
10	Mineralogy, morphology and stratigraphy of the light-toned interior layered deposits at Juventae Chasma. Icarus, 2015, 251, 315-331.	2.5	23
11	MERLIN: Mars-Moon Exploration, Reconnaissance and Landed Investigation. Acta Astronautica, 2014, 93, 475-482.	3.2	8
12	Mineralogy of the MSL Curiosity landing site in Gale crater as observed by MRO/CRISM. Geophysical Research Letters, 2014, 41, 4880-4887.	4.0	59
13	Revised CRISM spectral parameters and summary products based on the currently detected mineral diversity on Mars. Journal of Geophysical Research E: Planets, 2014, 119, 1403-1431.	3.6	280
14	A hematite-bearing layer in Gale Crater, Mars: Mapping and implications for past aqueous conditions. Geology, 2013, 41, 1103-1106.	4.4	113
15	Prolonged magmatic activity on Mars inferred from the detection of felsic rocks. Nature Geoscience, 2013, 6, 1013-1017.	12.9	131
16	Mineralogy and morphology of geologic units at Libya Montes, Mars: Ancient aqueously derived outcrops, mafic flows, fluvial features, and impacts. Journal of Geophysical Research E: Planets, 2013, 118, 487-513.	3.6	56
17	Surface scattering properties at the Opportunity Mars rover's traverse region measured by CRISM. Journal of Geophysical Research E: Planets, 2013, 118, 1699-1717.	3.6	15
18	High spatial and temporal resolution sampling of Martian gas abundances from CRISM spectra. Journal of Geophysical Research E: Planets, 2013, 118, 89-104.	3.6	36

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19	Extensive MRO CRISM observations of 1.27 μm O ₂ airglow in Mars polar night and their comparison to MRO MCS temperature profiles and LMD GCM simulations. Journal of Geophysical Research, 2012, 117, .	3.3	51
20	Columbus crater and other possible groundwater-fed paleolakes of Terra Sirenum, Mars. Journal of Geophysical Research, 2011, 116, .	3.3	148
21	Robust unmixing of hyperspectral images: Application to Mars. , 2011, , .		6
22	Spectral and stratigraphic mapping of hydrated sulfate and phyllosilicate-bearing deposits in northern Sinus Meridiani, Mars. Journal of Geophysical Research, 2010, 115, .	3.3	73
23	Phoenix and MRO coordinated atmospheric measurements. Journal of Geophysical Research, 2010, 115, .	3.3	40
24	Investigation of an Argyre basin ring structure using Mars Reconnaissance Orbiter/Compact Reconnaissance Imaging Spectrometer for Mars. Journal of Geophysical Research, 2010, 115, .	3.3	25
25	Distribution and formation of chlorides and phyllosilicates in Terra Sirenum, Mars. Geophysical Research Letters, 2010, 37, .	4.0	91
26	Diverse aqueous environments on ancient Mars revealed in the southern highlands. Geology, 2009, 37, 1043-1046.	4.4	142
27	Distribution of Mid-Latitude Ground Ice on Mars from New Impact Craters. Science, 2009, 325, 1674-1676.	12.6	279
28	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. Planetary and Space Science, 2009, 57, 809-815.	1.7	166
29	A synthesis of Martian aqueous mineralogy after 1 Mars year of observations from the Mars Reconnaissance Orbiter. Journal of Geophysical Research, 2009, 114, .	3.3	445
30	Evidence for the origin of layered deposits in Candor Chasma, Mars, from mineral composition and hydrologic modeling. Journal of Geophysical Research, 2009, 114, .	3.3	159
31	Compact Reconnaissance Imaging Spectrometer for Mars investigation and data set from the Mars Reconnaissance Orbiter's primary science phase. Journal of Geophysical Research, 2009, 114, .	3.3	178
32	Compact Reconnaissance Imaging Spectrometer for Mars observations of northern Martian latitudes in summer. Journal of Geophysical Research, 2009, 114, .	3.3	24
33	Wavelength dependence of dust aerosol single scattering albedo as observed by the Compact Reconnaissance Imaging Spectrometer. Journal of Geophysical Research, 2009, 114, .	3.3	196
34	Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. Nature, 2008, 454, 305-309.	27.8	630
35	MRO/CRISM Retrieval of Surface Lambert Albedos for Multispectral Mapping of Mars With DISORT-Based Radiative Transfer Modeling: Phase 1—Using Historical Climatology for Temperatures, Aerosol Optical Depths, and Atmospheric Pressures. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 4020-4040.	6.3	41
36	Mars Exploration Program 2007 Phoenix landing site selection and characteristics. Journal of Geophysical Research, 2008, 113, .	3.3	64

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37	Landing Site Dispersion Analysis and Statistical Assessment for the Mars Phoenix Lander. , 2008, , .		9
38	An Efficient Uplink Pipeline for the MRO CRISM Instrument. , 2008, , .		1
39	Phyllosilicate and sulfate-hematite deposits within Miyamoto crater in southern Sinus Meridiani, Mars. Geophysical Research Letters, 2008, 35, .	4.0	63
40	Geomorphologic and mineralogic characterization of the northern plains of Mars at the Phoenix Mission candidate landing sites. Journal of Geophysical Research, 2008, 113, .	3.3	22
41	A Closer Look at Water-Related Geologic Activity on Mars. Science, 2007, 317, 1706-1709.	12.6	185
42	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) on Mars Reconnaissance Orbiter (MRO). Journal of Geophysical Research, 2007, 112, .	3.3	796
43	Hyperspectral reflectance mapping of cinder cones at the summit of Mauna Kea and implications for equivalent observations on Mars. Journal of Geophysical Research, 2007, 112, .	3.3	18
44	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 1. Spirit. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	49
45	Spectrophotometric properties of materials observed by Pancam on the Mars Exploration Rovers: 2. Opportunity. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	36
46	Soils of Eagle Crater and Meridiani Planum at the Opportunity Rover Landing Site. Science, 2004, 306, 1723-1726.	12.6	153
47	Pancam Multispectral Imaging Results from the Spirit Rover at Gusev Crater. Science, 2004, 305, 800-806.	12.6	153
48	Pancam Multispectral Imaging Results from the Opportunity Rover at Meridiani Planum. Science, 2004, 306, 1703-1709.	12.6	135
49	Localization and Physical Property Experiments Conducted by Opportunity at Meridiani Planum. Science, 2004, 306, 1730-1733.	12.6	130
50	Localization and Physical Properties Experiments Conducted by Spirit at Gusev Crater. Science, 2004, 305, 821-824.	12.6	166
51	Mantled and exhumed terrains in Terra Meridiani, Mars. Journal of Geophysical Research, 2003, 108, .	3.3	92
52	Combined remote mineralogical and elemental identification from rovers: Field and laboratory tests using reflectance and laser-induced breakdown spectroscopy. Journal of Geophysical Research, 2002, 107, FIDO 3-1-FIDO 3-14.	3.3	54