

# Scott L Murchie

## List of Publications by Year in descending order

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242  
papers

22,533  
citations

5782

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245  
all docs

245  
docs citations

245  
times ranked

7113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Science Goals and Mission Concept for a Landed Investigation of Mercury. Planetary Science Journal, 2022, 3, 68.	1.5	2
2	Maximizing the Science and Resource Mapping Potential of Orbital VSWIR Spectral Measurements of Mars. , 2021, 53, .		0
3	The Mars Orbiter for Resources, Ices, and Environments (MORIE) Science Goals and Instrument Trades in Radar, Imaging, and Spectroscopy. Planetary Science Journal, 2021, 2, 76.	1.5	2
4	Anomalous Phyllosilicate-bearing Outcrops South of Coprates Chasma: A Study of Possible Emplacement Mechanisms. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006043.	1.5	5
5	A search for early- to mid-Noachian chloride-rich deposits on Mars. Icarus, 2020, 338, 113552.	1.1	5
6	Multiple mineral horizons in layered outcrops at Mawrth Vallis, Mars, signify changing geochemical environments on early Mars. Icarus, 2020, 341, 113634.	1.1	24
7	Composition of Amazonian volcanic materials in Tharsis and Elysium, Mars, from MRO/CRISM reflectance spectra. Icarus, 2019, 328, 274-286.	1.1	27
8	The distribution, composition, and particle properties of Mars mesospheric aerosols: An analysis of CRISM visible/near-IR limb spectra with context from near-coincident MCS and MARCI observations. Icarus, 2019, 328, 246-273.	1.1	40
9	Measuring the Elemental Composition of Phobos: The Mars-moon Exploration with Gamma rays and Neutrons (MEGANE) Investigation for the Martian Moons eXploration (MMX) Mission. Earth and Space Science, 2019, 6, 2605-2623.	1.1	26
10	Spectral Analyses of Mercury. , 2019, , 351-367.		0
11	Visible to Short-Wave Infrared Spectral Analyses of Mars from Orbit Using CRISM and OMEGA. , 2019, , 453-483.		6
12	Global Distribution and Spectral Properties of Low-Reflectance Material on Mercury. Geophysical Research Letters, 2018, 45, 2945-2953.	1.5	41
13	Challenges in the Search for Perchlorate and Other Hydrated Minerals With 2.1-µm Absorptions on Mars. Geophysical Research Letters, 2018, 45, 12180-12189.	1.5	40
14	Spectral Reflectance Constraints on the Composition and Evolution of Mercury's Surface. , 2018, , 191-216.		9
15	Mercury's Hollows. , 2018, , 324-345.		12
16	Calibration, Projection, and Final Image Products of MESSENGER's Mercury Dual Imaging System. Space Science Reviews, 2018, 214, 1.	3.7	53
17	Overview of Phobos/Deimos Regolith Ion Sample Mission (PRISM) concept. , 2018, , .		1
18	The structural, stratigraphic, and paleoenvironmental record exposed on the rim and walls of Iazu Crater, Mars. Journal of Geophysical Research E: Planets, 2017, 122, 1138-1156.	1.5	6

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19	Vertical profiles of Mars 1.27- $\mu\text{m}$ O <sub>2</sub> dayglow from MRO CRISM limb spectra: Seasonal/global behaviors, comparisons to LMDGCM simulations, and a global definition for Mars water vapor profiles. <i>Icarus</i> , 2017, 293, 132-156.	1.1	58
20	Extending MESSENGER's Mercury dual imager's eight-color photometric standardization to cover all eleven filters. <i>Icarus</i> , 2017, 297, 83-89.	1.1	3
21	Compositional and structural constraints on the geologic history of eastern Tharsis Rise, Mars. <i>Icarus</i> , 2017, 284, 43-58.	1.1	40
22	Discovery of alunite in Cross crater, Terra Sirenum, Mars: Evidence for acidic, sulfurous waters. <i>American Mineralogist</i> , 2016, 101, 1527-1542.	0.9	51
23	Evidence from MESSENGER for sulfur- and carbon-driven explosive volcanism on Mercury. <i>Geophysical Research Letters</i> , 2016, 43, 3653-3661.	1.5	57
24	Mars-Moons Exploration, Reconnaissance, and Landed Investigation (MERLIN). , 2016, , .		1
25	New insights into gully formation on Mars: Constraints from composition as seen by MRO/CRISM. <i>Geophysical Research Letters</i> , 2016, 43, 8893-8902.	1.5	21
26	Analysis of MESSENGER high-resolution images of Mercury's hollows and implications for hollow formation. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1798-1813.	1.5	30
27	Determining shape of a seasonally shadowed asteroid using stellar occultation imaging. <i>Planetary and Space Science</i> , 2016, 131, 24-32.	0.9	0
28	Smectite deposits in Marathon Valley, Endeavour Crater, Mars, identified using CRISM hyperspectral reflectance data. <i>Geophysical Research Letters</i> , 2016, 43, 4885-4892.	1.5	39
29	Methodology for finding and evaluating safe landing sites on small bodies. <i>Planetary and Space Science</i> , 2016, 134, 71-81.	0.9	8
30	Imaging Mercury's polar deposits during MESSENGER's low-altitude campaign. <i>Geophysical Research Letters</i> , 2016, 43, 9461-9468.	1.5	31
31	Mineralogical indicators of Mercury's hollows composition in MESSENGER color observations. <i>Geophysical Research Letters</i> , 2016, 43, 1450-1456.	1.5	42
32	Orbital evidence for more widespread carbonate-bearing rocks on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 652-677.	1.5	109
33	Application of multiple photometric models to disk-resolved measurements of Mercury's surface: Insights into Mercury's regolith characteristics. <i>Icarus</i> , 2016, 268, 172-203.	1.1	40
34	Remote sensing evidence for an ancient carbon-bearing crust on Mercury. <i>Nature Geoscience</i> , 2016, 9, 273-276.	5.4	134
35	Characterization of artifacts introduced by the empirical volcano-scan atmospheric correction commonly applied to CRISM and OMEGA near-infrared spectra. <i>Icarus</i> , 2016, 269, 111-121.	1.1	16
36	Mars Reconnaissance Orbiter and Opportunity observations of the Burns formation: Crater hopping at Meridiani Planum. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 429-451.	1.5	30

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37	Mercury's global color mosaic: An update from MESSENGER's orbital observations. <i>Icarus</i> , 2015, 257, 477-488.	1.1	27
38	Constraints on the abundance of carbon in near-surface materials on Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. <i>Planetary and Space Science</i> , 2015, 108, 98-107.	0.9	57
39	Mineralogy, morphology and stratigraphy of the light-toned interior layered deposits at Juventae Chasma. <i>Icarus</i> , 2015, 251, 315-331.	1.1	23
40	Orbital multispectral mapping of Mercury with the MESSENGER Mercury Dual Imaging System: Evidence for the origins of plains units and low-reflectance material. <i>Icarus</i> , 2015, 254, 287-305.	1.1	95
41	Spectral evidence for hydrated salts in recurring slope lineae on Mars. <i>Nature Geoscience</i> , 2015, 8, 829-832.	5.4	513
42	Embedded clays and sulfates in Meridiani Planum, Mars. <i>Icarus</i> , 2015, 248, 269-288.	1.1	42
43	Stratigraphy of the Caloris basin, Mercury: Implications for volcanic history and basin impact melt. <i>Icarus</i> , 2015, 250, 413-429.	1.1	49
44	Phobos and Deimos. , 2015, , .		12
45	Recurring slope lineae in equatorial regions of Mars. <i>Nature Geoscience</i> , 2014, 7, 53-58.	5.4	248
46	Phase-ratio images of the surface of Mercury: Evidence for differences in sub-resolution texture. <i>Icarus</i> , 2014, 242, 142-148.	1.1	27
47	The value of Phobos sample return. <i>Planetary and Space Science</i> , 2014, 102, 176-182.	0.9	28
48	MERLIN: Mars-Moon Exploration, Reconnaissance and Landed Investigation. <i>Acta Astronautica</i> , 2014, 93, 475-482.	1.7	8
49	The low-iron, reduced surface of Mercury as seen in spectral reflectance by MESSENGER. <i>Icarus</i> , 2014, 228, 364-374.	1.1	82
50	Spectral absorptions on Phobos and Deimos in the visible/near infrared wavelengths and their compositional constraints. <i>Icarus</i> , 2014, 229, 196-205.	1.1	66
51	Ancient Aqueous Environments at Endeavour Crater, Mars. <i>Science</i> , 2014, 343, 1248097.	6.0	176
52	Images of surface volatiles in Mercury's polar craters acquired by the MESSENGER spacecraft. <i>Geology</i> , 2014, 42, 1051-1054.	2.0	67
53	Composition of Surface Materials on the Moons of Mars. <i>Planetary and Space Science</i> , 2014, 102, 144-151.	0.9	40
54	MESSENGER at Mercury: Early orbital operations. <i>Acta Astronautica</i> , 2014, 93, 509-515.	1.7	4

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55	Mineral abundances at the final four curiosity study sites and implications for their formation. <i>Icarus</i> , 2014, 231, 65-76.	1.1	74
56	SciBox, an end-to-end automated science planning and commanding system. <i>Acta Astronautica</i> , 2014, 93, 490-496.	1.7	6
57	Mineralogy of the MSL Curiosity landing site in Gale crater as observed by MRO/CRISM. <i>Geophysical Research Letters</i> , 2014, 41, 4880-4887.	1.5	59
58	Global inventory and characterization of pyroclastic deposits on Mercury: New insights into pyroclastic activity from MESSENGER orbital data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 635-658.	1.5	79
59	Revised CRISM spectral parameters and summary products based on the currently detected mineral diversity on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1403-1431.	1.5	280
60	A hematite-bearing layer in Gale Crater, Mars: Mapping and implications for past aqueous conditions. <i>Geology</i> , 2013, 41, 1103-1106.	2.0	113
61	Automated processing of planetary hyperspectral datasets for the extraction of weak mineral signatures and applications to CRISM observations of hydrated silicates on Mars. <i>Planetary and Space Science</i> , 2013, 76, 53-67.	0.9	43
62	Prolonged magmatic activity on Mars inferred from the detection of felsic rocks. <i>Nature Geoscience</i> , 2013, 6, 1013-1017.	5.4	131
63	Craters hosting radar-bright deposits in Mercury's north polar region: Areas of persistent shadow determined from MESSENGER images. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 26-36.	1.5	36
64	What the ancient phyllosilicates at Mawrth Vallis can tell us about possible habitability on early Mars. <i>Planetary and Space Science</i> , 2013, 86, 130-149.	0.9	99
65	First detection of Mars atmospheric hydroxyl: CRISM Near-IR measurement versus LMD GCM simulation of OH Meinel band emission in the Mars polar winter atmosphere. <i>Icarus</i> , 2013, 226, 272-281.	1.1	54
66	Mineralogy and morphology of geologic units at Libya Montes, Mars: Ancient aqueously derived outcrops, mafic flows, fluvial features, and impacts. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 487-513.	1.5	56
67	Dark spots on Mercury: A distinctive low-reflectance material and its relation to hollows. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1752-1765.	1.5	23
68	Spectral constraints on the formation mechanism of recurring slope lineae. <i>Geophysical Research Letters</i> , 2013, 40, 5621-5626.	1.5	33
69	Hydrous minerals on Mars as seen by the CRISM and OMEGA imaging spectrometers: Updated global view. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 831-858.	1.5	420
70	Vertical distribution of dust and water ice aerosols from CRISM limb-geometry observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 321-334.	1.5	74
71	The distribution and origin of smooth plains on Mercury. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 891-907.	1.5	193
72	Insights into the subsurface structure of the Caloris basin, Mercury, from assessments of mechanical layering and changes in long-wavelength topography. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2030-2044.	1.5	37

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73	High spatial and temporal resolution sampling of Martian gas abundances from CRISM spectra. Journal of Geophysical Research E: Planets, 2013, 118, 89-104.	1.5	36
74	Hydrated minerals on Endeavour Crater's rim and interior, and surrounding plains: New insights from CRISM data. Geophysical Research Letters, 2012, 39, .	1.5	27
75	Areas of permanent shadow in Mercury's south polar region ascertained by MESSENGER orbital imaging. Geophysical Research Letters, 2012, 39, .	1.5	43
76	GETEMMEâ€”a mission to explore the Martian satellites and the fundamentals of solar system physics. Experimental Astronomy, 2012, 34, 243-271.	1.6	17
77	Extensive MRO CRISM observations of 1.27 $\mu\text{m}$ $\text{O}_2$ 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
78	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) north polar springtime recession mapping: First 3 Mars years of observations. Journal of Geophysical Research, 2012, 117, .	3.3	39
79	Analysis of diskâ€”resolved OMEGA and CRISM spectral observations of Phobos and Deimos. Journal of Geophysical Research, 2012, 117, .	3.3	52
80	A spectroscopic analysis of Martian crater central peaks: Formation of the ancient crust. Journal of Geophysical Research, 2012, 117, .	3.3	32
81	Most Mars minerals in a nutshell: Various alteration phases formed in a single environment in Noctis Labyrinthus. Journal of Geophysical Research, 2012, 117, .	3.3	74
82	The morphology of craters on Mercury: Results from MESSENGER flybys. Icarus, 2012, 219, 414-427.	1.1	53
83	Characterization of hydrated silicate-bearing outcrops in Tyrrhena Terra, Mars: Implications to the alteration history of Mars. Icarus, 2012, 219, 476-497.	1.1	42
84	Hollows on Mercury: MESSENGER Evidence for Geologically Recent Volatile-Related Activity. Science, 2011, 333, 1856-1859.	6.0	136
85	Columbus crater and other possible groundwater-fed paleolakes of Terra Sirenum, Mars. Journal of Geophysical Research, 2011, 116, .	3.3	148
86	New near-IR observations of mesospheric $\text{CO}_2$ and $\text{H}_2\text{O}$ clouds on Mars. Journal of Geophysical Research, 2011, 116, .	3.3	65
87	Subsurface water and clay mineral formation during the early history of Mars. Nature, 2011, 479, 53-60.	13.7	651
88	Flood Volcanism in the Northern High Latitudes of Mercury Revealed by MESSENGER. Science, 2011, 333, 1853-1856.	6.0	225
89	Journey to the Innermost Planet. Scientific American, 2011, 304, 34-39.	1.0	0
90	Eminescu impact structure: Insight into the transition from complex crater to peak-ring basin on Mercury. Planetary and Space Science, 2011, 59, 1949-1959.	0.9	19

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91	Photometric correction of Mercury's global color mosaic. <i>Planetary and Space Science</i> , 2011, 59, 1873-1887.	0.9	22
92	The global distribution of pyroclastic deposits on Mercury: The view from MESSENGER flybys 1â€³. <i>Planetary and Space Science</i> , 2011, 59, 1895-1909.	0.9	105
93	Mercury's spectrophotometric properties: Update from the Mercury Dual Imaging System observations during the third MESSENGER flyby. <i>Planetary and Space Science</i> , 2011, 59, 1853-1872.	0.9	22
94	The transition from complex crater to peak-ring basin on Mercury: New observations from MESSENGER flyby data and constraints on basin formation models. <i>Planetary and Space Science</i> , 2011, 59, 1932-1948.	0.9	54
95	Evidence for low-grade metamorphism, hydrothermal alteration, and diagenesis on Mars from phyllosilicate mineral assemblages. <i>Clays and Clay Minerals</i> , 2011, 59, 359-377.	0.6	107
96	Seasonal Flows on Warm Martian Slopes. <i>Science</i> , 2011, 333, 740-743.	6.0	451
97	Stratigraphy, mineralogy, and origin of layered deposits inside Terby crater, Mars. <i>Icarus</i> , 2011, 211, 273-304.	1.1	131
98	Robust unmixing of hyperspectral images: Application to Mars. , 2011, , .		6
99	Whole-disk spectrophotometric properties of Mercury: Synthesis of MESSENGER and ground-based observations. <i>Icarus</i> , 2010, 209, 101-124.	1.1	35
100	Geomorphic knobs of Candor Chasma, Mars: New Mars Reconnaissance Orbiter data and comparisons to terrestrial analogs. <i>Icarus</i> , 2010, 205, 138-153.	1.1	26
101	Hydrated mineral stratigraphy of Ius Chasma, Valles Marineris. <i>Icarus</i> , 2010, 206, 253-268.	1.1	119
102	A Late Amazonian alteration layer related to local volcanism on Mars. <i>Icarus</i> , 2010, 207, 265-276.	1.1	39
103	Diagenetic haematite and sulfate assemblages in Valles Marineris. <i>Icarus</i> , 2010, 207, 659-674.	1.1	63
104	Exposure of spectrally distinct material by impact craters on Mercury: Implications for global stratigraphy. <i>Icarus</i> , 2010, 209, 210-223.	1.1	82
105	Silica deposits in the Nili Patera caldera on the Syrtis Major volcanic complex on Mars. <i>Nature Geoscience</i> , 2010, 3, 838-841.	5.4	173
106	Detection of Hydrated Silicates in Crustal Outcrops in the Northern Plains of Mars. <i>Science</i> , 2010, 328, 1682-1686.	6.0	134
107	Nearâ€”tropical subsurface ice on Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	79
108	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) south polar mapping: First Mars year of observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58

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109	Spectrally distinct ejecta in Syrtis Major, Mars: Evidence for environmental change at the Hesperian–Amazonian boundary. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
110	Mineralogy and stratigraphy of phyllosilicate-bearing and dark mantling units in the greater Mawrth Vallis/west Arabia Terra area: Constraints on geological origin. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	104
111	Stratigraphy of hydrated sulfates in the sedimentary deposits of Aram Chaos, Mars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	74
112	Spectral and stratigraphic mapping of hydrated sulfate and phyllosilicate-bearing deposits in northern Sinus Meridiani, Mars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	73
113	Investigation of an Argyre basin ring structure using Mars Reconnaissance Orbiter/Compact Reconnaissance Imaging Spectrometer for Mars. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	25
114	Definitive evidence of Hesperian basalt in Acidalia and Chryse planitiae. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	73
115	Geologic setting of serpentine deposits on Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	299
116	Diverse aqueous environments on ancient Mars revealed in the southern highlands. <i>Geology</i> , 2009, 37, 1043-1046.	2.0	142
117	Distribution of Mid-Latitude Ground Ice on Mars from New Impact Craters. <i>Science</i> , 2009, 325, 1674-1676.	6.0	279
118	An improvement to the volcano-scan algorithm for atmospheric correction of CRISM and OMEGA spectral data. <i>Planetary and Space Science</i> , 2009, 57, 809-815.	0.9	166
119	The tectonics of Mercury: The view after MESSENGER's first flyby. <i>Earth and Planetary Science Letters</i> , 2009, 285, 283-296.	1.8	135
120	Volcanism on Mercury: Evidence from the first MESSENGER flyby for extrusive and explosive activity and the volcanic origin of plains. <i>Earth and Planetary Science Letters</i> , 2009, 285, 227-242.	1.8	135
121	Evidence for intrusive activity on Mercury from the first MESSENGER flyby. <i>Earth and Planetary Science Letters</i> , 2009, 285, 251-262.	1.8	67
122	Emplacement and tectonic deformation of smooth plains in the Caloris basin, Mercury. <i>Earth and Planetary Science Letters</i> , 2009, 285, 309-319.	1.8	53
123	Explosive volcanic eruptions on Mercury: Eruption conditions, magma volatile content, and implications for interior volatile abundances. <i>Earth and Planetary Science Letters</i> , 2009, 285, 263-271.	1.8	128
124	Caloris impact basin: Exterior geomorphology, stratigraphy, morphometry, radial sculpture, and smooth plains deposits. <i>Earth and Planetary Science Letters</i> , 2009, 285, 297-308.	1.8	84
125	Phyllosilicates and sulfates at Endeavour Crater, Meridiani Planum, Mars. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	88
126	Identification of hydrated silicate minerals on Mars using MRO–CRISM: Geologic context near Nili Fossae and implications for aqueous alteration. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	483



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127	A synthesis of Martian aqueous mineralogy after 1 Mars year of observations from the Mars Reconnaissance Orbiter. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	445
128	Evidence for the origin of layered deposits in Candor Chasma, Mars, from mineral composition and hydrologic modeling. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	159
129	Compact Reconnaissance Imaging Spectrometer for Mars investigation and data set from the Mars Reconnaissance Orbiter's primary science phase. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	178
130	Compact Reconnaissance Imaging Spectrometer for Mars observations of northern Martian latitudes in summer. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
131	Composition, Morphology, and Stratigraphy of Noachian Crust around the Isidis basin. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	144
132	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> , 2009, 114, .	3.3	156
133	Testing evidence of recent hydration state change in sulfates on Mars. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	78
134	Characterization of phyllosilicates observed in the central Mawrth Vallis region, Mars, their potential formational processes, and implications for past climate. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	117
135	Wavelength dependence of dust aerosol single scattering albedo as observed by the Compact Reconnaissance Imaging Spectrometer. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	196
136	Compact Reconnaissance Imaging Spectrometer observations of water vapor and carbon monoxide. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	137
137	In-flight performance of MESSENGER's Mercury Dual Imaging System. <i>Proceedings of SPIE</i> , 2009, , .	0.8	22
138	Evolution of the Rembrandt Impact Basin on Mercury. <i>Science</i> , 2009, 324, 618-621.	6.0	46
139	The Evolution of Mercury's Crust: A Global Perspective from MESSENGER. <i>Science</i> , 2009, 324, 613-618.	6.0	194
140	New Horizons: Anticipated Scientific Investigations at the Pluto System. <i>Space Science Reviews</i> , 2008, 140, 93-127.	3.7	74
141	Hydrated silicate minerals on Mars observed by the Mars Reconnaissance Orbiter CRISM instrument. <i>Nature</i> , 2008, 454, 305-309.	13.7	630
142	Clay minerals in delta deposits and organic preservation potential on Mars. <i>Nature Geoscience</i> , 2008, 1, 355-358.	5.4	293
143	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. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 4020-4040.	2.7	41
144	An Efficient Uplink Pipeline for the MRO CRISM Instrument. , 2008, , .		1

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145	Phyllosilicate and sulfate-hematite deposits within Miyamoto crater in southern Sinus Meridiani, Mars. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	63
146	Geomorphologic and mineralogic characterization of the northern plains of Mars at the Phoenix Mission candidate landing sites. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
147	Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	99
148	Geology of the Caloris Basin, Mercury: A View from MESSENGER. <i>Science</i> , 2008, 321, 73-76.	6.0	140
149	Reflectance and Color Variations on Mercury: Regolith Processes and Compositional Heterogeneity. <i>Science</i> , 2008, 321, 66-69.	6.0	167
150	Opaline silica in young deposits on Mars. <i>Geology</i> , 2008, 36, 847.	2.0	303
151	Orbital Identification of Carbonate-Bearing Rocks on Mars. <i>Science</i> , 2008, 322, 1828-1832.	6.0	560
152	Spectroscopic Observations of Mercury's Surface Reflectance During MESSENGER's First Mercury Flyby. <i>Science</i> , 2008, 321, 62-65.	6.0	94
153	Volcanism on Mercury: Evidence from the First MESSENGER Flyby. <i>Science</i> , 2008, 321, 69-72.	6.0	169
154	Return to Mercury: A Global Perspective on MESSENGER's First Mercury Flyby. <i>Science</i> , 2008, 321, 59-62.	6.0	170
155	Phyllosilicate Diversity and Past Aqueous Activity Revealed at Mawrth Vallis, Mars. <i>Science</i> , 2008, 321, 830-833.	6.0	328
156	A Closer Look at Water-Related Geologic Activity on Mars. <i>Science</i> , 2007, 317, 1706-1709.	6.0	185
157	CRISM multispectral summary products: Parameterizing mineral diversity on Mars from reflectance. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	304
158	Compact Reconnaissance Imaging Spectrometer for Mars (CRISM) on Mars Reconnaissance Orbiter (MRO). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	796
159	Mineralogic constraints on sulfur-rich soils from Pancam spectra at Gusev crater, Mars. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	89
160	The Geology of Mercury: The View Prior to the MESSENGER Mission. <i>Space Science Reviews</i> , 2007, 131, 41-84.	3.7	31
161	The Mercury Dual Imaging System on the MESSENGER Spacecraft. <i>Space Science Reviews</i> , 2007, 131, 247-338.	3.7	242
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