Andrew Steele

List of Publications by Year
in descending order

193 papers	17,458 citations	16791 66 h-index	15698 129 g-index
199 all docs	199 docs citations	199 times ranked	11058 citing authors

#	Article	IF	Citations
1	Depleted carbon isotope compositions observed at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	33
2	Organic synthesis associated with serpentinization and carbonation on early Mars. Science, 2022, 375, 172-177.	6.0	32
3	ESA's Cometary Mission Rosettaâ€"Reâ€Characterization of the COSAC Mass Spectrometry Results. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
4	ESAs Kometenâ€Mission Rosetta â€" Neuâ€Analyse der Daten des COSAC Massenspektrometers. Angewandte Chemie, 2022, 134, .	1.6	2
5	COSAC's Only Gas Chromatogram Taken on Comet 67P/Churyumovâ€Gerasimenko. ChemPlusChem, 2022, 87, .	1.3	3
6	RÃ¼cktitelbild: ESAs Kometenâ€Mission Rosetta â€" Neuâ€Analyse der Daten des COSAC Massenspektrometers (Angew. Chem. 29/2022). Angewandte Chemie, 2022, 134, .	1.6	0
7	Detection of porphyrins in vertebrate fossils from the Messel and implications for organic preservation in the fossil record. PLoS ONE, 2022, 17, e0269568.	1.1	2
8	Organic carbon concentrations in 3.5-billion-year-old lacustrine mudstones of Mars. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
9	The power of paired proximity science observations: Co-located data from SHERLOC and PIXL on Mars. Icarus, 2022, 387, 115179.	1.1	11
10	Reply to Schoell: Implications of a temperature trend in methane evolved from Cumberland during Mars evolved gas analyses experiments. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	3
11	Detecting Ce3+ as a biosignature mimicker using UV time-resolved laser-induced fluorescence and Raman spectroscopy: Implications for planetary missions. Icarus, 2021, 354, 114093.	1.1	16
12	Raman spectroscopy provides insight into carbonate rock fabric based on calcite and dolomite crystal orientation. Journal of Raman Spectroscopy, 2021, 52, 1155-1166.	1.2	8
13	Perseveranceâ€™s Scanning Habitable Environments with Raman and Luminescence for Organics and Chemicals (SHERLOC) Investigation. Space Science Reviews, 2021, 217, 1.	3.7	94
14	Detection and Degradation of Adenosine Monophosphate in Perchlorate-Spiked Martian Regolith Analog, by Deep-Ultraviolet Spectroscopy. Astrobiology, 2021, 21, 511-525.	1.5	10
15	Origin of Life on Mars: Suitability and Opportunities. Life, 2021, 11, 539.	1.1	18
16	Evidence for protosolar graphene in Allende and QUE 94366 CV3 meteorites. Planetary and Space Science, 2021, 203, 105267.	0.9	3
17	Preservation of organic carbon in dolomitized Cambrian stromatolites and implications for microbial biosignatures in diagenetically replaced carbonate rock. Sedimentary Geology, 2020, 410, 105777.	1.0	5
18	Coordinated EDX and microâ€Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. Meteoritics and Planetary Science, 2020, 55, .	0.7	0

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19	Geoscience Meets Biology: Raman Spectroscopy in Geobiology and Biomineralization. Elements, 2020, 16, 111-116.	0.5	9
20	Indigenous and exogenous organics and surfaceâ€“atmosphere cycling inferred from carbon and oxygen isotopes at Gale crater. Nature Astronomy, 2020, 4, 526-532.	4.2	41
21	Molecular identification of fungi microfossils in a Neoproterozoic shale rock. Science Advances, 2020, 6, eaax7599.	4.7	65
22	The effects of atmospheric entry heating on organic matter in interplanetary dust particles and micrometeorites. Earth and Planetary Science Letters, 2020, 540, 116266.	1.8	8
23	UV Irradiation and Near Infrared Characterization of Laboratory Mars Soil Analog Samples. Frontiers in Astronomy and Space Sciences, 2020, 7, .	1.1	8
24	Semi-Inverted Sample Preparation of Meteorites for High Resolution Analytical Electron Microscopy Using Correlative Raman Spectroscopy and Xe Plasma FIB. Microscopy and Microanalysis, 2019, 25, 894-895.	0.2	0
25	Preservation of Heme Derivatives in Vertebrate Fossils from the Messel Pit and Enspel, Germany. , 2019, , .		0
26	Diamonds and the Mantle Geodynamics of Carbon. , 2019, , 89-128.		16
27	The potential science and engineering value of samples delivered to Earth by Mars sample return. Meteoritics and Planetary Science, 2019, 54, S3.	0.7	73
28	The potential science and engineering value of samples delivered to Earth by Mars sample return. Meteoritics and Planetary Science, 2019, 54, 667-671.	0.7	11
29	Raman Spectroscopy and Confocal Raman Imaging in Mineralogy and Petrography. Springer Series in Surface Sciences, 2018, , 209-236.	0.3	6
30	Microbial Diversity of Hypersaline Sediments from Lake Lucero Playa in White Sands National Monument, New Mexico, USA. Microbial Ecology, 2018, 76, 404-418.	1.4	19
31	Organic matter in extraterrestrial water-bearing salt crystals. Science Advances, 2018, 4, eaao3521.	4.7	64
32	Discreditation of bobdownsite and the establishment of criteria for the identification of minerals with essential monofluorophosphate (PO3F2â€“). American Mineralogist, 2018, 103, 1319-1328.	0.9	13
33	Catalytic/Protective Properties of Martian Minerals and Implications for Possible Origin of Life on Mars. Life, 2018, 8, 56.	1.1	38
34	Organic synthesis on Mars by electrochemical reduction of CO ₂. Science Advances, 2018, 4, eaat5118.	4.7	61
35	UV irradiation of biomarkers adsorbed on minerals under Martian-like conditions: Hints for life detection on Mars. Icarus, 2018, 313, 38-60.	1.1	44
36	Background levels of methane in Marsâ€™ atmosphere show strong seasonal variations. Science, 2018, 360, 1093-1096.	6.0	224

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37	Organic matter preserved in 3-billion-year-old mudstones at Gale crater, Mars. Science, 2018, 360, 1096-1101.	6.0	369
38	Widespread abiotic methane in chromitites. Scientific Reports, 2018, 8, 8728.	1.6	43
39	The search for and analysis of direct samples of early Solar System aqueous fluids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150386.	1.6	15
40	Coordinated <scp>EDX</scp> and microâ€Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. Meteoritics and Planetary Science, 2017, 52, 2550-2569.	0.7	16
41	Large sulfur isotope fractionations in Martian sediments at Gale crater. Nature Geoscience, 2017, 10, 658-662.	5.4	53
42	A carbon-rich region in Miller Range 091004 and implications for ureilite petrogenesis. Geochimica Et Cosmochimica Acta, 2017, 198, 379-395.	1.6	18
43	Evolved gas analyses of sedimentary rocks and eolian sediment in Gale Crater, Mars: Results of the Curiosity rover's sample analysis at Mars instrument from Yellowknife Bay to the Namib Dune. Journal of Geophysical Research E: Planets, 2017, 122, 2574-2609.	1.5	168
44	AN EXPERIMENTAL LOOK AT THE TAPHONOMY OF CYANOBACTERIAL MATS IN SILICICLASTIC SEDIMENTS. Palaios, 2017, 32, 725-738.	0.6	7
45	The Extreme Biology of Meteorites: Their Role in Understanding the Origin and Distribution of Life on Earth and in the Universe. , 2017, , 283-325.		9
46	DIAMOND FORMATION THROUGH ISOCHEMICAL COOLING OF CHO FLUIDS VS REDOX BUFFERING: EXAMPLES FROM MARANGE PERIDOTITIC AND ZIMMI ECLOGITIC DIAMONDS. , 2017, , .		0
47	Raman Imaging Spectroscopy of a Putative Microfossil from the âˆ¼3.46 Ga Apex Chert: Insights from Quartz Grain Orientation. Astrobiology, 2016, 16, 169-180.	1.5	21
48	Diamond growth from Câ€“Hâ€“Nâ€“O recycled fluids in the lithosphere: Evidence from CH 4 micro-inclusions and Î´ 13 Câ€“ Î´ 15 Nâ€“N content in Marange mixed-habit diamonds. Lithos, 2016, 265, 68-81.	0.6	66
49	The provenance, formation, and implications of reduced carbon phases in Martian meteorites. Meteoritics and Planetary Science, 2016, 51, 2203-2225.	0.7	80
50	Geologic history of Martian regolith breccia Northwest Africa 7034: Evidence for hydrothermal activity and lithologic diversity in the Martian crust. Journal of Geophysical Research E: Planets, 2016, 121, 2120-2149.	1.5	65
51	Heterogeneous distribution of H₂O in the Martian interior: Implications for the abundance of H₂O in depleted and enriched mantle sources. Meteoritics and Planetary Science, 2016, 51, 2036-2060.	0.7	103
52	A cometary origin for martian atmospheric methane. Geochemical Perspectives Letters, 2016, 2, 10-23.	1.0	25
53	EVIDENCE FOR A HETEROGENEOUS DISTRIBUTION OF WATER IN THE MARTIAN INTERIOR. , 2016, , .		0
54	Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2015, 120, 495-514.	1.5	375

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55	Competence evaluation of COSAC flight spare model mass spectrometer: In preparation of arrival of Philae lander on comet 67P/Churyumovâ€“Gerasimenko. Planetary and Space Science, 2015, 106, 132-141.	0.9	3
56	Organic compounds on comet 67P/Churyumov-Gerasimenko revealed by COSAC mass spectrometry. Science, 2015, 349, aab0689.	6.0	376
57	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the Curiosity rover investigations at Gale crater, Mars. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4245-4250.	3.3	172
58	The Co-Evolution of Fe-Oxides, Ti-Oxides, and Other Microbially Induced Mineral Precipitates In Sandy Sediments: Understanding the Role of Cyanobacteria In Weathering and Early Diagenesis. Journal of Sedimentary Research, 2015, 85, 1213-1227.	0.8	16
59	Pigment production and isotopic fractionations in continuous culture: okenone producing purple sulfur bacteria Part <scp>II</scp>. Geobiology, 2015, 13, 292-301.	1.1	3
60	Ecologically and geologically relevant isotope signatures of C, N, and S: okenone producing purple sulfur bacteria part I. Geobiology, 2015, 13, 278-291.	1.1	5
61	Mars methane detection and variability at Gale crater. Science, 2015, 347, 415-417.	6.0	373
62	The imprint of atmospheric evolution in the D/H of Hesperian clay minerals on Mars. Science, 2015, 347, 412-414.	6.0	113
63	Planning Considerations Related to the Organic Contamination of Martian Samples and Implications for the Mars 2020 Rover. Astrobiology, 2014, 14, 969-1027.	1.5	31
64	Chlorine distribution and its isotopic composition in â€œrusty rockâ€•66095. Implications for volatile element enrichments of â€œrusty rockâ€•and lunar soils, origin of â€œrustyâ€•alteration, and volatile element behavior on the Moon. Geochimica Et Cosmochimica Acta, 2014, 139, 411-433.	1.6	52
65	Experimental formation of geomacromolecules from microbial lipids. Organic Geochemistry, 2014, 67, 35-40.	0.9	12
66	Effects of Metabolism and Physiology on the Production of Okenone and Bacteriochlorophyllain Purple Sulfur Bacteria. Geomicrobiology Journal, 2014, 31, 128-137.	1.0	10
67	Report of the workshop for life detection in samples from Mars. Life Sciences in Space Research, 2014, 2, 1-5.	1.2	24
68	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
69	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
70	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
71	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
72	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224

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73	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
74	Comparison of Prototype and Laboratory Experiments on MOMA GCMS: Results from the AMASE11 Campaign. Astrobiology, 2014, 14, 780-797.	1.5	17
75	In-situ characterization of oxalic acid breakdown at elevated P and T: Implications for organic C-O-H fluid sources in petrologic experiments. American Mineralogist, 2014, 99, 2258-2271.	0.9	17
76	Thresher: an improved algorithm for peak height thresholding of microbial community profiles. Bioinformatics, 2014, 30, 3257-3263.	1.8	0
77	Sulfur-bearing phases detected by evolved gas analysis of the Rocknest aeolian deposit, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 373-393.	1.5	65
78	Alteration of the carbon and nitrogen isotopic composition in the Martian surface rocks due to cosmic ray exposure. Journal of Geophysical Research E: Planets, 2014, 119, 1390-1402.	1.5	13
79	Abundances and implications of volatileâ€bearing species from evolved gas analysis of the Rocknest aeolian deposit, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2014, 119, 237-254.	1.5	73
80	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327
81	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
82	Geochemistry of a continental site of serpentinization, the Tablelands Ophiolite, Gros Morne National Park: A Mars analogue. Icarus, 2013, 224, 286-296.	1.1	90
83	Tracing H isotope effects in the dynamic metabolic network using multi-nuclear (1H, 2H and 13C) solid state NMR and GCâ€“MS. Organic Geochemistry, 2013, 57, 84-94.	0.9	5
84	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
85	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
86	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263.	6.0	241
87	Microbial community composition and endolith colonization at an <scp>A</scp>rctic thermal spring are driven by calcite precipitation. Environmental Microbiology Reports, 2013, 5, 648-659.	1.0	14
88	Unique Meteorite from Early Amazonian Mars: Water-Rich Basaltic Breccia Northwest Africa 7034. Science, 2013, 339, 780-785.	6.0	340
89	Isotopic and geochemical investigation of two distinct Mars analog environments using evolved gas techniques in Svalbard, Norway. Icarus, 2013, 224, 297-308.	1.1	9
90	Micro Raman Spectroscopy of Carbonaceous Material in Microfossils and Meteorites: Improving a Method for Life Detection. Astrobiology, 2013, 13, 103-113.	1.5	41

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91	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
92	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134
93	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
94	Nitrogen in Extraterrestrial Environments: Clues to the Possible Presence of Life. Elements, 2013, 9, 367-372.	0.5	8
95	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103
96	Evidence for perchlorates and the origin of chlorinated hydrocarbons detected by SAM at the Rocknest aeolian deposit in Gale Crater. Journal of Geophysical Research E: Planets, 2013, 118, 1955-1973.	1.5	306
97	Isotopes of nitrogen on Mars: Atmospheric measurements byâ€‰Curiosity's mass spectrometer. Geophysical Research Letters, 2013, 40, 6033-6037.	1.5	72
98	Evidence for perchlorates and the origin of chlorinated hydrocarbons detected by SAM at the rocknest aeolian deposit in gale crater. Journal of Geophysical Research E: Planets, 2013, , n/a-n/a.	1.5	6
99	Graphite in the martian meteorite Allan Hills 84001. American Mineralogist, 2012, 97, 1256-1259.	0.9	68
100	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. Science, 2012, 338, 1583-1587.	6.0	191
101	Microbial Nitrogen and Sulfur Cycles at the Gypsum Dunes of White Sands National Monument, New Mexico. Geomicrobiology Journal, 2012, 29, 733-751.	1.0	11
102	The Sample Analysis at Mars Investigation and Instrument Suite. Space Science Reviews, 2012, 170, 401-478.	3.7	435
103	Speciation of <scp>I</scp>-DOPA on Nanorutile as a Function of pH and Surface Coverage Using Surface-Enhanced Raman Spectroscopy (SERS). Langmuir, 2012, 28, 17322-17330.	1.6	32
104	High optical quality multicarat single crystal diamond produced by chemical vapor deposition. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 101-104.	0.8	39
105	Frontispiece: High optical quality multicarat single crystal diamond produced by chemical vapor deposition (Phys. Status Solidi 1/2012). Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 100-100.	0.8	0
106	Planning for Mars Returned Sample Science: Final Report of the MSR End-to-End International Science Analysis Group (E2E-iSAG). Astrobiology, 2012, 12, 175-230.	1.5	58
107	A Reduced Organic Carbon Component in Martian Basalts. Science, 2012, 337, 212-215.	6.0	182
108	High-pressure tolerance in Halobacterium salinarum NRC-1 and other non-piezophilic prokaryotes. Extremophiles, 2012, 16, 355-361.	0.9	27

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109	The Sample Analysis at Mars Investigation and Instrument Suite. , 2012, , 401-478.		5
110	Differential high pressure survival in stationary-phaseEscherichia coliMG1655. High Pressure Research, 2011, 31, 325-333.	0.4	8
111	Experimental results of rover-based coring and caching. , 2011, , .		10
112	Fluorine and chlorine abundances in lunar apatite: Implications for heterogeneous distributions of magmatic volatiles in the lunar interior. Geochimica Et Cosmochimica Acta, 2011, 75, 5073-5093.	1.6	140
113	Deep Mantle Cycling of Oceanic Crust: Evidence from Diamonds and Their Mineral Inclusions. Science, 2011, 334, 54-57.	6.0	294
114	Young poorly crystalline graphite in the >3.8-Gyr-old Nuvvuagittuq banded iron formation. Nature Geoscience, 2011, 4, 376-379.	5.4	51
115	MicroRaman spectroscopy of diamond and graphite in Almahata Sitta and comparison with other ureilites. Meteoritics and Planetary Science, 2011, 46, 364-378.	0.7	32
116	Test operation of a 100kW pilot plant for solar hydrogen production from water on a solar tower. Solar Energy, 2011, 85, 634-644.	2.9	138
117	An inventory of potentially habitable environments on Mars: Geological and biological perspectives. , 2011, , .		11
118	Graphite in an Apollo 17 Impact Melt Breccia. Science, 2010, 329, 51-51.	6.0	42
119	Detection of structurally bound hydroxyl in fluorapatite from Apollo Mare basalt 15058,128 using TOF-SIMS. American Mineralogist, 2010, 95, 1141-1150.	0.9	116
120	Nominally hydrous magmatism on the Moon. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11223-11228.	3.3	257
121	Spectroscopic and microscopic characterizations of color lamellae in natural pink diamonds. Diamond and Related Materials, 2010, 19, 1207-1220.	1.8	71
122	Setting a Standard: TheLimulusAmebocyte Lysate Assay and the Assessment of Microbial Contamination on Spacecraft Surfaces. Astrobiology, 2010, 10, 845-852.	1.5	18
123	Ancient graphite in the Eoarchean quartzâ€“pyroxene rocks from Akilia in southern West Greenland I: Petrographic and spectroscopic characterization. Geochimica Et Cosmochimica Acta, 2010, 74, 5862-5883.	1.6	55
124	Ancient graphite in the Eoarchean quartz-pyroxene rocks from Akilia in southern West Greenland II: Isotopic and chemical compositions and comparison with Paleoproterozoic banded iron formations. Geochimica Et Cosmochimica Acta, 2010, 74, 5884-5905.	1.6	47
125	Mineralogy and petrography of the Almahata Sitta ureilite. Meteoritics and Planetary Science, 2010, 45, 1618-1637.	0.7	74
126	Raman Spectroscopy and Confocal Raman Imaging in Mineralogy and Petrography. Springer Series in Optical Sciences, 2010, , 111-135.	0.5	31

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127	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	1.6	77
128	The impact and recovery of asteroid 2008 TC3. Nature, 2009, 458, 485-488.	13.7	311
129	Rapid Culture-Independent Microbial Analysis Aboard the International Space Station (ISS). Astrobiology, 2009, 9, 759-775.	1.5	22
130	A Field-Based Cleaning Protocol for Sampling Devices Used in Life-Detection Studies. Astrobiology, 2009, 9, 455-465.	1.5	17
131	Hydrothermal jarosite and hematite in a pyroxene-hosted melt inclusion in martian meteorite Miller Range (MIL) 03346: Implications for magmatic-hydrothermal fluids on Mars. Geochimica Et Cosmochimica Acta, 2009, 73, 4907-4917.	1.6	102
132	High primary productivity and nitrogen cycling after the Paleoproterozoic phosphogenic event in the Aravalli Supergroup, India. Precambrian Research, 2009, 171, 37-56.	1.2	76
133	Rapid Monitoring of Bacteria and Fungi Aboard the International Space Station (ISS). , 2009, , .		2
134	Sample acquisition and caching using detachable scoops for mars sample return. , 2009, , .		11
135	Automatic Measurement of Drilling Fluid and Drill-Cuttings Properties. SPE Drilling and Completion, 2009, 24, 611-625.	0.9	37
136	Capture effects in carbonaceous material: A Stardust analogue study. Meteoritics and Planetary Science, 2009, 44, 1465-1474.	0.7	19
137	Association of anatase (TiO₂) and microbes: Unusual fossilization effect or a potential biosignature?. , 2009, , .		6
138	DNA perseverance of microorganisms exposed to silica: an experimental study. Geobiology, 2008, 6, 503-511.	1.1	8
139	LOCAD-PTS: Operation of a new system for microbial monitoring aboard the International Space Station (ISS). , 2008, , .		1
140	Combined microâ€Raman, microâ€infrared, and field emission scanning electron microscope analyses of comet 81P/Wild 2 particles collected by Stardust. Meteoritics and Planetary Science, 2008, 43, 367-397.	0.7	89
141	Graphite Whiskers in CV3 Meteorites. Science, 2008, 320, 91-93.	6.0	40
142	Science Priorities for Mars Sample Return. Astrobiology, 2008, 8, 489-535.	1.5	41
143	Session 26. Mars Sample Return Planning Issues. Astrobiology, 2008, 8, 420-421.	1.5	1
144	Short- and Long-Term Olivine Weathering in Svalbard: Implications for Mars. Astrobiology, 2008, 8, 1079-1092.	1.5	44

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145	Session 2. Advances in Astrobiological Instrumentation Development. Astrobiology, 2008, 8, 296-301.	1.5	0
146	Automatic Measurement of Drilling Fluid and Drill Cuttings Properties. , 2008, , .		17
147	Observations from a 4-Year Contamination Study of a Sample Depth Profile Through Martian Meteorite Nakhla. Astrobiology, 2007, 7, 389-401.	1.5	30
148	Improved Drilling Process Control Through Continuous Particle and Cuttings Monitoring. , 2007, , .		12
149	Comprehensive imaging and Raman spectroscopy of carbonate globules from Martian meteorite ALH 84001 and a terrestrial analogue from Svalbard. Meteoritics and Planetary Science, 2007, 42, 1549-1566.	0.7	93
150	Stable isotopic evidence for fossil food webs in Eocene Lake Messel. Paleobiology, 2007, 33, 590-609.	1.3	15
151	HEPES-Stabilized Encapsulation ofSalmonellatyphimurium. Langmuir, 2007, 23, 1365-1374.	1.6	40
152	Searching for Life on Mars: Selection of Molecular Targets for ESA's Aurora ExoMars Mission. Astrobiology, 2007, 7, 578-604.	1.5	172
153	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	6.0	848
154	Infrared Spectroscopy of Comet 81P/Wild 2 Samples Returned by Stardust. Science, 2006, 314, 1728-1731.	6.0	163
155	Transient Filling of a Micro Protein Trap Chip Considering Surface Effect. , 2006, , .		0
156	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. Science, 2006, 314, 1720-1724.	6.0	519
157	Examination of an Oligocene lacustrine ecosystem using C and N stable isotopes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 230, 335-351.	1.0	18
158	Two Phase Flow Analysis on Filling Processes of Microfluidic/Microarray Integrated Systems. , 2006, , 1.		2
159	A Cathodoluminescene (and Raman) Imaging and Spectroscopic Study of Ancient Polycrystalline Diamond. Microscopy and Microanalysis, 2006, 12, 1518-1519.	0.2	3
160	Design and Modelling of a Microfluidic Electro-Lysis Device with Controlling Plates. Journal of Physics: Conference Series, 2006, 34, 620-625.	0.3	3
161	Evaluation of cell lysis procedures and use of a micro fluidic system for an automated DNA-based cell identification in interplanetary missions. Planetary and Space Science, 2006, 54, 1600-1611.	0.9	12
162	Solar Hydrogen Production by a Two-Step Cycle Based on Mixed Iron Oxides. Journal of Solar Energy Engineering, Transactions of the ASME, 2006, 128, 125-133.	1.1	140

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163	Findings of the Mars Special Regions Science Analysis Group. Astrobiology, 2006, 6, 677-732.	1.5	104
164	Transient Flow Dynamics in Optical Micro Well Involving Gas Bubbles. , 2006, , .		0
165	Characterization of Meteorites, Interplanetary Dust, and Other Extraterrestrial Materials by Confocal Raman Imaging. Microscopy and Microanalysis, 2005, 11, .	0.2	0
166	Critical testing of Earth's oldest putative fossil assemblage from the â^¼3.5Ga Apex chert, Chinaman Creek, Western Australia. Precambrian Research, 2005, 140, 55-102.	1.2	229
167	The problem of deep carbonâ€"An Archean paradox. Precambrian Research, 2005, 143, 1-22.	1.2	122
168	Earth's Oldest (~ 3.5 Ga) Fossils and the `Early Eden Hypothesis': Questioning the Evidence. Origins of Life and Evolution of Biospheres, 2004, 34, 257-269.	0.8	110
169	Comparison of Antibodyâ^'Antigen Interactions on Collagen Measured by Conventional Immunological Techniques and Atomic Force Microscopy. Langmuir, 2004, 20, 11053-11063.	1.6	33
170	Characterization of purified biomarker compounds using time of flight-secondary ion mass spectrometry (ToF-SIMS). Organic Geochemistry, 2004, 35, 793-811.	0.9	30
171	From Microbial Fossils to Astrobiology. , 2004, , 595-605.		1
172	Morphological Biosignatures and the Search for Life on Mars. Astrobiology, 2003, 3, 351-368.	1.5	244
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