

# Mark A Sephton

## List of Publications by Year in descending order

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174  
papers

6,248  
citations

76326

40  
h-index

85541

71  
g-index

177  
all docs

177  
docs citations

177  
times ranked

5472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass Spectrometric Fingerprints of Bacteria and Archaea for Life Detection on Icy Moons. <i>Astrobiology</i> , 2022, 22, 143-157.	3.0	11
2	Mineral Matrix Effects on Pyrolysis Products of Kerogens Infer Difficulties in Determining Biological Provenance of Macromolecular Organic Matter at Mars. <i>Astrobiology</i> , 2022, 22, 520-540.	3.0	6
3	COSPAR Sample Safety Assessment Framework (SSAF). <i>Astrobiology</i> , 2022, 22, S-186-S-216.	3.0	7
4	Environmental screening of water associated with shale gas extraction by fluorescence excitation emission matrix. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 2196-2206.	2.4	1
5	Artificial Maturation of Iron- and Sulfur-Rich Mars Analogues: Implications for the Diagenetic Stability of Biopolymers and Their Detection with Pyrolysisâ€“Gas Chromatographyâ€“Mass Spectrometry. <i>Astrobiology</i> , 2021, 21, 199-218.	3.0	5
6	Quantifying Preservation Potential: Lipid Degradation in a Mars-Analog Circumneutral Iron Deposit. <i>Astrobiology</i> , 2021, 21, 638-654.	3.0	4
7	Pyrolysis of Carboxylic Acids in the Presence of Iron Oxides: Implications for Life Detection on Missions to Mars. <i>Astrobiology</i> , 2021, 21, 673-691.	3.0	5
8	Transformation of Cyanobacterial Biomolecules by Iron Oxides During Flash Pyrolysis: Implications for Mars Life-Detection Missions. <i>Astrobiology</i> , 2021, 21, 1363-1386.	3.0	2
9	Heterogeneity within refractory organic matter from CM2 Carbonaceous Chondrites: Evidence from Raman spectroscopy. <i>Earth and Planetary Science Letters</i> , 2021, 574, 117149.	4.4	5
10	Mapping hydrocarbon charge-points in the Wessex Basin using seismic, geochemistry and mineral magnetics. <i>Marine and Petroleum Geology</i> , 2020, 111, 510-528.	3.3	12
11	Organic Records of Early Life on Mars: The Role of Iron, Burial, and Kinetics on Preservation. <i>Astrobiology</i> , 2020, 20, 53-72.	3.0	16
12	Solid Phase Micro Extraction: Potential for Organic Contamination Control for Planetary Protection of Life-Detection Missions to the Icy Moons of the Outer Solar System. <i>Astrobiology</i> , 2019, 19, 1153-1166.	3.0	1
13	Effects of Oxygen-Containing Salts on the Detection of Organic Biomarkers on Mars and in Terrestrial Analog Soils. <i>Astrobiology</i> , 2019, 19, 711-721.	3.0	24
14	Indigenous Organicâ€“Oxidized Fluid Interactions in the Tissint Mars Meteorite. <i>Geophysical Research Letters</i> , 2019, 46, 3090-3098.	4.0	25
15	Biological Contamination Prevention for Outer Solar System Moons of Astrobiological Interest: What Do We Need to Know?. <i>Astrobiology</i> , 2019, 19, 951-974.	3.0	24
16	Identification of fossil worm tubes from Phanerozoic hydrothermal vents and cold seeps. <i>Journal of Systematic Palaeontology</i> , 2019, 17, 287-329.	1.5	30
17	Using geophysics and geochemistry to find life in the solar system. <i>First Break</i> , 2019, 37, 79-80.	0.4	0
18	Transitory microbial habitat in the hyperarid Atacama Desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2670-2675.	7.1	172

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19	Detecting Nonvolatile Life- and Nonlife-Derived Organics in a Carbonaceous Chondrite Analogue with a New Multiplex Immunoassay and Its Relevance for Planetary Exploration. <i>Astrobiology</i> , 2018, 18, 1041-1056.	3.0	20
20	A Method for Choosing the Best Samples for Mars Sample Return. <i>Astrobiology</i> , 2018, 18, 556-570.	3.0	3
21	The Search for Hesperian Organic Matter on Mars: Pyrolysis Studies of Sediments Rich in Sulfur and Iron. <i>Astrobiology</i> , 2018, 18, 454-464.	3.0	16
22	Role of Minerals in Hydrogen Sulfide Generation during Steam-Assisted Recovery of Heavy Oil. <i>Energy &amp; Fuels</i> , 2018, 32, 4651-4654.	5.1	8
23	How to Detect Life on Icy Moons. <i>Astrobiology</i> , 2018, 18, 843-855.	3.0	30
24	Survivability of 1- $\alpha$ -Chloronaphthalene During Simulated Early Diagenesis: Implications for Chlorinated Hydrocarbon Detection on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2790-2802.	3.6	6
25	Selecting Mars samples to return to Earth. <i>Astronomy and Geophysics</i> , 2018, 59, 1.36-1.38.	0.2	1
26	Biomarker analysis of the upper Jurassic Naokelekan and Barsarin formations in the Miran Well-2, Miran oil field, Kurdistan region, Iraq. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	8
27	The Fate of Lipid Biosignatures in a Mars-Analogue Sulfur Stream. <i>Scientific Reports</i> , 2018, 8, 7586.	3.3	24
28	Perchlorate-Driven Combustion of Organic Matter During Pyrolysis-Gas Chromatography-Mass Spectrometry: Implications for Organic Matter Detection on Earth and Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1901-1909.	3.6	12
29	Organic compound-mineral interactions: Using flash pyrolysis to monitor the adsorption of fatty acids on calcite. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 123, 184-193.	5.5	5
30	Effects of Pressure on Model Compounds of Meteorite Organic Matter. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 475-482.	2.7	2
31	Effect of Hydration State of Martian Perchlorate Salts on Their Decomposition Temperatures During Thermal Extraction. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2793-2802.	3.6	5
32	Organic Matter Detection on Mars by Pyrolysis-FTIR: An Analysis of Sensitivity and Mineral Matrix Effects. <i>Astrobiology</i> , 2016, 16, 831-845.	3.0	14
33	Sporopollenin, a Natural Copolymer, is Robust under High Hydrostatic Pressure. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2494-2500.	2.2	19
34	Pollen and spores as biological recorders of past ultraviolet irradiance. <i>Scientific Reports</i> , 2016, 6, 39269.	3.3	27
35	Organic Matter Responses to Radiation under Lunar Conditions. <i>Astrobiology</i> , 2016, 16, 900-912.	3.0	5
36	PRESSURE EFFECTS IN POLYCYCLIC AROMATIC NITROGENATED HETEROCYCLES (PANHs): DIAGNOSTIC QUALITIES AND COSMOBAROMETRY POTENTIAL. <i>Astrophysical Journal</i> , 2016, 819, 64.	4.5	1

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37	Rapid habitability assessment of Mars samples by pyrolysis-FTIR. <i>Planetary and Space Science</i> , 2016, 121, 60-75.	1.7	6
38	Single-crystal X-ray diffraction study of synthetic sodium-hydronium jarosite. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 377-386.	0.8	7
39	Minimising hydrogen sulphide generation during steam assisted production of heavy oil. <i>Scientific Reports</i> , 2015, 5, 8159.	3.3	13
40	Formation of magnetic minerals at hydrocarbon-generation conditions. <i>Marine and Petroleum Geology</i> , 2015, 68, 509-519.	3.3	25
41	Sulfate Minerals: A Problem for the Detection of Organic Compounds on Mars?. <i>Astrobiology</i> , 2015, 15, 247-258.	3.0	31
42	The Moon as a Recorder of Organic Evolution in the Early Solar System: A Lunar Regolith Analog Study. <i>Astrobiology</i> , 2015, 15, 154-168.	3.0	18
43	Multiple Cosmic Sources for Meteorite Macromolecules?. <i>Astrobiology</i> , 2015, 15, 779-786.	3.0	5
44	Terrestrial acidification during the end-Permian biosphere crisis?. <i>Geology</i> , 2015, 43, 159-162.	4.4	35
45	The chances of detecting life on Mars. <i>Planetary and Space Science</i> , 2015, 112, 15-22.	1.7	11
46	A new rapid method for shale oil and shale gas assessment. <i>Fuel</i> , 2015, 153, 231-239.	6.4	54
47	Subcritical water extraction of organic matter from sedimentary rocks. <i>Analytica Chimica Acta</i> , 2015, 879, 48-57.	5.4	38
48	Organic geochemical characteristics of black shales across the Ordovician-Silurian boundary in the Holy Cross Mountains, central Poland. <i>Marine and Petroleum Geology</i> , 2015, 66, 1042-1055.	3.3	28
49	Heat, Aromatic Units, and Iron-Rich Phyllosilicates: A Mechanism for Making Macromolecules in the Early Solar System. <i>Astrobiology</i> , 2015, 15, 787-792.	3.0	12
50	Pollen and spores as a passive monitor of ultraviolet radiation. <i>Frontiers in Ecology and Evolution</i> , 2014, 2, .	2.2	35
51	Statistics Provide Guidance for Indigenous Organic Carbon Detection on Mars Missions. <i>Astrobiology</i> , 2014, 14, 706-713.	3.0	6
52	The Effects of Minerals on Heavy Oil and Bitumen Chemistry When Recovered Using Steam-Assisted Methods. , 2014, , .		6
53	AN ORGANIC COSMO-BAROMETER: DISTINCT PRESSURE AND TEMPERATURE EFFECTS FOR METHYL SUBSTITUTED POLYCYCLIC AROMATIC HYDROCARBONS. <i>Astrophysical Journal</i> , 2014, 784, 98.	4.5	5
54	Changes in spore chemistry and appearance with increasing maturity. <i>Review of Palaeobotany and Palynology</i> , 2014, 201, 41-46.	1.5	46

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55	Astrobiology can help space science, education and the economy. <i>Space Policy</i> , 2014, 30, 146-148.	1.5	3
56	New estimates of the production of volatile gases from ablating carbonaceous micrometeoroids at Earth and Mars during an E-belt-type Late Heavy Bombardment. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 145, 175-205.	3.9	11
57	In-situ vibrational optical rotatory dispersion of molecular organic crystals at high pressures. <i>Analytica Chimica Acta</i> , 2014, 842, 51-56.	5.4	3
58	Searching for Life on Mars: Degradation of Surfactant Solutions Used in Organic Extraction Experiments. <i>Astrobiology</i> , 2014, 14, 733-752.	3.0	7
59	Extracting organic matter on Mars: A comparison of methods involving subcritical water, surfactant solutions and organic solvents. <i>Planetary and Space Science</i> , 2014, 99, 19-27.	1.7	12
60	Perchlorate-induced combustion of organic matter with variable molecular weights: Implications for Mars missions. <i>Geophysical Research Letters</i> , 2014, 41, 7453-7460.	4.0	17
61	A magnetic solution to the Mupe Bay mystery. <i>Marine and Petroleum Geology</i> , 2013, 46, 165-172.	3.3	4
62	Correlating biodegradation to magnetization in oil bearing sedimentary rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 146-165.	3.9	25
63	The effects of oil on As(V) adsorption on illite, kaolinite, montmorillonite and chlorite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 487-502.	3.9	44
64	Biomass preservation in impact melt ejecta. <i>Nature Geoscience</i> , 2013, 6, 1018-1022.	12.9	28
65	High temperature reactions of water with heavy oil and bitumen: Insights into aquathermolysis chemistry during steam-assisted recovery. <i>Fuel</i> , 2013, 113, 426-434.	6.4	39
66	Searching for biomolecules on Mars: Considerations for operation of a life marker chip instrument. <i>Planetary and Space Science</i> , 2013, 86, 66-74.	1.7	17
67	Shock synthesis of amino acids from impacting cometary and icy planet surface analogues. <i>Nature Geoscience</i> , 2013, 6, 1045-1049.	12.9	129
68	Selecting samples for Mars sample return: Triage by pyrolysis-FTIR. <i>Planetary and Space Science</i> , 2013, 78, 45-51.	1.7	10
69	On the Origins of Deep Hydrocarbons. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 75, 449-465.	4.8	76
70	Aromatic units from the macromolecular material in meteorites: Molecular probes of cosmic environments. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 107, 231-241.	3.9	9
71	Lithium isotopes as indicators of meteorite parent body alteration. <i>Meteoritics and Planetary Science</i> , 2013, 48, 872-878.	1.6	9
72	A Bayesian statistical assessment of representative samples for asteroidal or meteoritical material. <i>Meteoritics and Planetary Science</i> , 2013, 48, 976-996.	1.6	6

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73	Type IV Kerogens as Analogues for Organic Macromolecular Materials in Aqueously Altered Carbonaceous Chondrites. <i>Astrobiology</i> , 2013, 13, 324-333.	3.0	22
74	Quantitative Laboratory Assessment Of Aquathermolysis Chemistry During Steam-assisted Recovery Of Heavy Oils And Bitumen, With A Focus On Sulfur. , 2013, , .		4
75	Insights into the nature of cometary organic matter from terrestrial analogues. <i>International Journal of Astrobiology</i> , 2012, 11, 83-92.	1.6	4
76	Amino acid analyses of type 3 chondrites Colony, Ornans, Chainpur, and Bishunpur. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1502-1516.	1.6	25
77	Magnetic characterization of oil sands at Osmington Mills and Mupe Bay, Wessex Basin, UK. <i>Geological Society Special Publication</i> , 2012, 371, 189-198.	1.3	14
78	Development status of the life marker chip instrument for ExoMars. <i>Planetary and Space Science</i> , 2012, 72, 129-137.	1.7	35
79	Potential failure of life detection experiments on Mars resulting from adsorption of organic compounds on to common instrument materials. <i>Planetary and Space Science</i> , 2012, 73, 262-270.	1.7	5
80	Extrasolar planets and false atmospheric biosignatures: The role of micrometeoroids. <i>Planetary and Space Science</i> , 2012, 73, 233-242.	1.7	29
81	Organic geochemistry of late Jurassic paleosols (Dirt Beds) of Dorset, UK. <i>Marine and Petroleum Geology</i> , 2012, 37, 41-52.	3.3	17
82	A novel palaeoaltimetry proxy based on spore and pollen wall chemistry. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 22-28.	4.4	35
83	Pyrolysis and mass spectrometry studies of meteoritic organic matter. <i>Mass Spectrometry Reviews</i> , 2012, 31, 560-569.	5.4	30
84	Formation of a polyalkyl macromolecule from the hydrolysable component within sporopollenin during heating/pyrolysis experiments with Lycopodium spores. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 95, 138-144.	5.5	44
85	Fluorescence spectroscopy for the detection of life in the Salten Skov Mars regolith analogue. <i>Planetary and Space Science</i> , 2012, 68, 42-47.	1.7	2
86	Spectrofluorometric analysis of amino acid mixtures: Implications for future space missions. <i>Planetary and Space Science</i> , 2012, 60, 336-341.	1.7	2
87	Extraction of polar and nonpolar biomarkers from the martian soil using aqueous surfactant solutions. <i>Planetary and Space Science</i> , 2012, 67, 109-118.	1.7	9
88	The contribution of sulphur dioxide from ablating micrometeorites to the atmospheres of Earth and Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1704-1717.	3.9	20
89	Fungal virulence at the time of the end-Permian biosphere crisis?. <i>Geology</i> , 2011, 39, 883-886.	4.4	59
90	Extraction of amino acids from soils close to the Mars Desert Research Station (MDRS), Utah. <i>International Journal of Astrobiology</i> , 2011, 10, 231-238.	1.6	24

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91	UV-B absorbing pigments in spores: biochemical responses to shade in a high-latitude birch forest and implications for sporopollenin-based proxies of past environmental change. <i>Polar Research</i> , 2011, 30, 8312.	1.6	38
92	Penetrators for in situ subsurface investigations of Europa. <i>Advances in Space Research</i> , 2011, 48, 725-742.	2.6	51
93	Organic host analogues and the search for life on Mars. <i>International Journal of Astrobiology</i> , 2011, 10, 31-44.	1.6	26
94	Astrobiology and habitability studies in preparation for future Mars missions: trends from investigating minerals, organics and biota. <i>International Journal of Astrobiology</i> , 2011, 10, 239-253.	1.6	41
95	Meteoritics. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 568-574.	0.1	0
96	New Solvents for Space Missions: Utility for Life Detection Instruments and Notable Terrestrial Applications. <i>Recent Patents on Space Technology</i> , 2011, 1, 7-11.	0.1	0
97	New Solvents for Space Missions: Utility for Life Detection Instruments and Notable Terrestrial Applications. <i>Recent Patents on Space Technology</i> , 2011, 1, 7-11.	0.1	2
98	Novel solvent systems for in situ extraterrestrial sample analysis. <i>Planetary and Space Science</i> , 2010, 58, 1470-1474.	1.7	19
99	Hydropyrolysis over a platinum catalyst as a preparative technique for the compound-specific carbon isotope ratio measurement of C <sub>27</sub> steroids. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 501-505.	1.5	7
100	Meteorite gases and planetary atmospheres. <i>Astronomy and Geophysics</i> , 2010, 51, 5.21-5.22.	0.2	24
101	Two Rovers to the Same Site on Mars, 2018: Possibilities for Cooperative Science. <i>Astrobiology</i> , 2010, 10, 663-685.	3.0	5
102	Thermochemolysis of the Murchison meteorite: identification of oxygen bound and occluded units in the organic macromolecule. <i>International Journal of Astrobiology</i> , 2010, 9, 201-208.	1.6	9
103	The effect of crude oil on arsenate adsorption on goethite. <i>Water Research</i> , 2010, 44, 5673-5683.	11.3	41
104	Habitability on planetary surfaces: interdisciplinary preparation phase for future Mars missions. <i>International Journal of Astrobiology</i> , 2009, 8, 301-315.	1.6	20
105	Chemical constitution of a Permian-Triassic disaster species. <i>Geology</i> , 2009, 37, 875-878.	4.4	25
106	Quantitative flash pyrolysis Fourier transform infrared spectroscopy of organic materials. <i>Analytica Chimica Acta</i> , 2009, 639, 62-66.	5.4	33
107	Conjugated steroids: analytical approaches and applications. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 453-458.	3.7	33
108	Analysis of conjugated steroid androgens: Deconjugation, derivatisation and associated issues. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 1133-1140.	2.8	105

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109	Reply to comments on defining biominerals and organominerals: Direct and indirect indicators of life [Perry et al., <i>Sedimentary Geology</i> , 201, 157-179]. <i>Sedimentary Geology</i> , 2009, 213, 156.	2.1	3
110	Investigating the contribution of methane produced by ablating micrometeorites to the atmosphere of Mars. <i>Earth and Planetary Science Letters</i> , 2009, 288, 382-385.	4.4	24
111	Meteorite ablation products and their contribution to the atmospheres of terrestrial planets: An experimental study using pyrolysis-FTIR. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3512-3521.	3.9	50
112	Extraterrestrial Organic Matter and the Detection of Life. <i>Space Science Reviews</i> , 2008, 135, 25-35.	8.1	35
113	A multidisciplinary study of silica sinter deposits with applications to silica identification and detection of fossil life on Mars. <i>Icarus</i> , 2008, 198, 331-350.	2.5	47
114	Plant spore walls as a record of long-term changes in ultraviolet-B radiation. <i>Nature Geoscience</i> , 2008, 1, 592-596.	12.9	68
115	Mars on Earth: soil analogues for future Mars missions. <i>Astronomy and Geophysics</i> , 2008, 49, 2.20-2.23.	0.2	32
116	Extraterrestrial nucleobases in the Murchison meteorite. <i>Earth and Planetary Science Letters</i> , 2008, 270, 130-136.	4.4	317
117	The Urey Instrument: An Advanced In Situ Organic and Oxidant Detector for Mars Exploration. <i>Astrobiology</i> , 2008, 8, 583-595.	3.0	40
118	Biomarker indicators of bacterial activity and organic fluxes during end Triassic mass extinction event. , 2008, , .		2
119	The end Triassic mass extinction record of Williston Lake, British Columbia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 253, 385-406.	2.3	84
120	Raman spectroscopy of irradiated organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2547-2568.	3.9	27
121	Rapid determination of spore chemistry using thermochemolysis gas chromatography-mass spectrometry and micro-Fourier transform infrared spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 689.	2.9	58
122	Searching for Life on Mars: Selection of Molecular Targets for ESA's Aurora ExoMars Mission. <i>Astrobiology</i> , 2007, 7, 578-604.	3.0	172
123	Biomedical and Forensic Applications of Combined Catalytic Hydrogenation-Stable Isotope Ratio Analysis. <i>Analytical Chemistry Insights</i> , 2007, 2, 117739010700200.	2.7	4
124	Adsorption of l-lysine on montmorillonite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 307, 142-149.	4.7	74
125	The labelling of meteoritic organic material using osmium tetroxide vapour impregnation. <i>Planetary and Space Science</i> , 2007, 55, 1310-1318.	1.7	18
126	Defining biominerals and organominerals: Direct and indirect indicators of life. <i>Sedimentary Geology</i> , 2007, 201, 157-179.	2.1	150



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127	Biomedical and forensic applications of combined catalytic hydrogenation-stable isotope ratio analysis. <i>Analytical Chemistry Insights</i> , 2007, 2, 37-42.	2.7	3
128	The origin of dark inclusions in Allende: New evidence from lithium isotopes. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1039-1043.	1.6	14
129	Baking black opal in the desert sun: The importance of silica in desert varnish. <i>Geology</i> , 2006, 34, 537.	4.4	87
130	Carbon molecules in space: from astrochemistry to astrobiology. <i>Faraday Discussions</i> , 2006, 133, 277.	3.2	93
131	The alteration of organic matter in response to ionising irradiation: Chemical trends and implications for extraterrestrial sample analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1020-1039.	3.9	61
132	The use of model compounds to investigate the release of covalently bound biomarkers via hydrolysis. <i>Organic Geochemistry</i> , 2006, 37, 1705-1714.	1.8	26
133	Carbon isotopic gradients in the Martian crust: implications for past or present life on Mars. , 2006, , .		0
134	Desert varnish: an environmental recorder for Mars. <i>Astronomy and Geophysics</i> , 2006, 47, 4.34-4.35.	0.2	12
135	Delving into Allende's dark secrets. <i>Astronomy and Geophysics</i> , 2006, 47, 6.37-6.38.	0.2	2
136	Thiophenes as indicators of aqueous alteration in carbonaceous meteorites. , 2006, 6309, 232.		3
137	Hydrolysis: A new technique for the analysis of macromolecular material in meteorites. <i>Planetary and Space Science</i> , 2005, 53, 1280-1286.	1.7	27
138	A noble record. <i>Astronomy and Geophysics</i> , 2005, 46, 2.12-2.14.	0.2	1
139	New strategies to detect life on Mars. <i>Astronomy and Geophysics</i> , 2005, 46, 6.26-6.27.	0.2	23
140	Hydrolysis as a preparative method for the compound-specific carbon isotope analysis of fatty acids. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 323-325.	1.5	18
141	Hydrolysis of steroids: a preparative step for compound-specific carbon isotope ratio analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3339-3342.	1.5	12
142	Making silica rock coatings in the lab: synthetic desert varnish. , 2005, , .		4
143	Recognizing life in the Solar System: guidance from meteoritic organic matter. <i>International Journal of Astrobiology</i> , 2005, 4, 269-276.	1.6	55
144	Organic matter in carbonaceous meteorites: past, present and future research. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 2729-2742.	3.4	48

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145	Catastrophic soil erosion during the end-Permian biotic crisis. <i>Geology</i> , 2005, 33, 941.	4.4	234
146	How desert varnish forms?. , 2005, 5906, 276.		9
147	Oxygen-containing aromatic compounds in a Late Permian sediment. <i>Organic Geochemistry</i> , 2005, 36, 371-384.	1.8	28
148	Molecular, isotopic and in situ analytical approaches to the study of meteoritic organic material. <i>International Journal of Astrobiology</i> , 2004, 3, 107-116.	1.6	1
149	Carbon and nitrogen isotope ratios in meteoritic organic matter: indicators of alteration processes on the parent asteroid. <i>International Journal of Astrobiology</i> , 2004, 3, 221-227.	1.6	21
150	Environmental mutagenesis during the end-Permian ecological crisis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12952-12956.	7.1	208
151	Combined element (H and C) stable isotope ratios of methane in carbonaceous chondrites. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 347, 807-812.	4.4	42
152	Organic matter in ancient meteorites. <i>Astronomy and Geophysics</i> , 2004, 45, 2.08-2.14.	0.2	24
153	Hydropyrolysis of insoluble carbonaceous matter in the Murchison meteorite: new insights into its macromolecular structure 1 Associate editor: G. D. Cody. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1385-1393.	3.9	104
154	Geochemistry of the end-Permian extinction event in Austria and Italy: No evidence for an extraterrestrial component. <i>Geology</i> , 2004, 32, 1053.	4.4	78
155	Lithium Isotope Analyses of Inorganic Constituents from the Murchison Meteorite. <i>Astrophysical Journal</i> , 2004, 612, 588-591.	4.5	17
156	Investigating the variations in carbon and nitrogen isotopes in carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2093-2108.	3.9	129
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