

Cyril Szopa

List of Publications by Year in descending order

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158
papers

10,823
citations

53794

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h-index

31849

101
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160
all docs

160
docs citations

160
times ranked

6127
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic molecules revealed in Mars's Bagnold Dunes by Curiosity's derivatization experiment. <i>Nature Astronomy</i> , 2022, 6, 129-140.	10.1	29
2	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. <i>Experimental Astronomy</i> , 2022, 54, 809-847.	3.7	5
3	Science goals and new mission concepts for future exploration of Titan's atmosphere, geology and habitability: titan Polar scout/orbitEr and in situ lake lander and DrOne explorer (POSEIDON). <i>Experimental Astronomy</i> , 2022, 54, 911-973.	3.7	5
4	European Molecular Indicators of Life Investigation (EMILI) for a Future Europa Lander Mission. <i>Frontiers in Space Technologies</i> , 2022, 2, .	1.4	7
5	ESA's Cometary Mission Rosetta's Re-analysis of the COSAC Mass Spectrometry Results. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
6	ESAs Kometen-Mission Rosetta - Neu-Analyse der Daten des COSAC Massenspektrometers. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
7	COSAC's Only Gas Chromatogram Taken on Comet 67P/Churyumov-Gerasimenko. <i>ChemPlusChem</i> , 2022, 87, .	2.8	3
8	Thumbnail: ESAs Kometen-Mission Rosetta - Neu-Analyse der Daten des COSAC Massenspektrometers (Angew. Chem. 29/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
9	Influence of Calcium Perchlorate on the Search for Organics on Mars with Tetramethylammonium Hydroxide Thermochemolysis. <i>Astrobiology</i> , 2021, 21, 279-297.	3.0	10
10	Thermal stability of adsorbents used for gas chromatography in space exploration. <i>Journal of Chromatography A</i> , 2021, 1644, 462087.	3.7	3
11	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. <i>Planetary Science Journal</i> , 2021, 2, 130.	3.6	80
12	Influence of Calcium Perchlorate on the Search for Martian Organic Compounds with MTBSTFA/DMF Derivatization. <i>Astrobiology</i> , 2021, 21, 1137-1156.	3.0	6
13	First Detections of Dichlorobenzene Isomers and Trichloromethylpropane from Organic Matter Indigenous to Mars Mudstone in Gale Crater, Mars: Results from the Sample Analysis at Mars Instrument Onboard the Curiosity Rover. <i>Astrobiology</i> , 2020, 20, 292-306.	3.0	50
14	Dimerization of Uracil in a Simulated Mars-like UV Radiation Environment. <i>Astrobiology</i> , 2020, 20, 1363-1376.	3.0	7
15	Testing the capabilities of the Mars Organic Molecule Analyser (MOMA) chromatographic columns for the separation of organic compounds on Mars. <i>Planetary and Space Science</i> , 2020, 186, 104903.	1.7	9
16	Influence of Calcium Perchlorate on Organics Under SAM-Like Pyrolysis Conditions: Constraints on the Nature of Martian Organics. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006359.	3.6	11
17	The search for organic compounds with TMAH thermochemolysis: From Earth analyses to space exploration experiments. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 127, 115896.	11.4	18
18	Benzoic Acid as the Preferred Precursor for the Chlorobenzene Detected on Mars: Insights from the Unique Cumberland Analog Investigation. <i>Planetary Science Journal</i> , 2020, 1, 41.	3.6	12

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19	Recovery of Fatty Acids from Mineralogic Mars Analogs by TMAH Thermochemolysis for the Sample Analysis at Mars Wet Chemistry Experiment on the Curiosity Rover. <i>Astrobiology</i> , 2019, 19, 522-546.	3.0	33
20	The Photochemistry on Space Station (PSS) Experiment: Organic Matter under Mars-like Surface UV Radiation Conditions in Low Earth Orbit. <i>Astrobiology</i> , 2019, 19, 1037-1052.	3.0	16
21	Experimenting with Mixtures of Water Ice and Dust as Analogues for Icy Planetary Material. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	29
22	Role of the Tenax [®] Adsorbent in the Interpretation of the EGA and GC-MS Analyses Performed With the Sample Analysis at Mars in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2819-2851.	3.6	13
23	Reply to Comment by F. Kenig, L. Chou, and D. J. Wardrop on "Evaluation of the Tenax Trap in the Sample Analysis at Mars Instrument Suite on the Curiosity Rover as a Potential Hydrocarbon Source for Chlorinated Organics Detected in Gale Crater" by Miller et al., 2015. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 648-650.	3.6	1
24	Application of TMAH thermochemolysis to the detection of nucleobases: Application to the MOMA and SAM space experiment. <i>Talanta</i> , 2019, 204, 802-811.	5.5	14
25	Investigating the effects of gamma radiation on selected chemicals for use in biosignature detection instruments on the surface of Jupiter's moon Europa. <i>Planetary and Space Science</i> , 2019, 175, 1-12.	1.7	11
26	Performance of the SAM gas chromatographic columns under simulated flight operating conditions for the analysis of chlorohydrocarbons on Mars. <i>Journal of Chromatography A</i> , 2019, 1598, 183-195.	3.7	7
27	Identification of organic molecules with a laboratory prototype based on the Laser Ablation-CosmOrbitrap. <i>Planetary and Space Science</i> , 2019, 170, 42-51.	1.7	18
28	Abiotic Input of Fixed Nitrogen by Bolide Impacts to Gale Crater During the Hesperian: Insights From the Mars Science Laboratory. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 94-113.	3.6	23
29	Electrical Properties of Tholins and Derived Constraints on the Huygens Landing Site Composition at the Surface of Titan. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 807-822.	3.6	5
30	Identification of Chlorobenzene in the Viking Gas Chromatograph-Mass Spectrometer Data Sets: Reanalysis of Viking Mission Data Consistent With Aromatic Organic Compounds on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1674-1683.	3.6	31
31	Major Volatiles Evolved From Eolian Materials in Gale Crater. <i>Geophysical Research Letters</i> , 2018, 45, 10,240.	4.0	19
32	Operations of the Sample Analysis at Mars instrument suite onboard the Curiosity rover. , 2018, , .		0
33	Organic matter preserved in 3-billion-year-old mudstones at Gale crater, Mars. <i>Science</i> , 2018, 360, 1096-1101.	12.6	369
34	Analysis of carbon and nitrogen signatures with laser-induced breakdown spectroscopy; the quest for organics under Mars-like conditions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 131, 8-17.	2.9	25
35	Decay of COSAC and Ptolemy mass spectra at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 600, A56.	5.1	5
36	Organic chemistry in a CO ₂ rich early Earth atmosphere. <i>Earth and Planetary Science Letters</i> , 2017, 479, 34-42.	4.4	8

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37	Bidirectional reflectance of laboratory cometary analogues to interpret the spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2017, 148, 1-11.	1.7	15
38	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. <i>Astrobiology</i> , 2017, 17, 471-510.	3.0	371
39	The Mars Organic Molecule Analyzer (MOMA) Instrument: Characterization of Organic Material in Martian Sediments. <i>Astrobiology</i> , 2017, 17, 655-685.	3.0	185
40	Miniaturized gas chromatography for space exploration: A 50 years history. , 2017, , .		3
41	Bidirectional reflectance and VIS-NIR spectroscopy of cometary analogues under simulated space conditions. <i>Planetary and Space Science</i> , 2017, 145, 14-27.	1.7	14
42	A porosity gradient in 67P/C-G nucleus suggested from CONSERT and SESAME-PP results: an interpretation based on new laboratory permittivity measurements of porous icy analogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S89-S98.	4.4	29
43	Oxidants at the Surface of Mars: A Review in Light of Recent Exploration Results. <i>Astrobiology</i> , 2016, 16, 977-996.	3.0	83
44	Characterization of aromaticity in analogues of titan's atmospheric aerosols with two-step laser desorption ionization mass spectrometry. <i>Planetary and Space Science</i> , 2016, 131, 1-13.	1.7	13
45	Development of HPLC-Orbitrap method for identification of N-bearing molecules in complex organic material relevant to planetary environments. <i>Icarus</i> , 2016, 275, 259-266.	2.5	21
46	Orbitrap mass analyser for in situ characterisation of planetary environments: Performance evaluation of a laboratory prototype. <i>Planetary and Space Science</i> , 2016, 131, 33-45.	1.7	47
47	Titan's organic aerosols: Molecular composition and structure of laboratory analogues inferred from pyrolysis gas chromatography mass spectrometry analysis. <i>Icarus</i> , 2016, 277, 442-454.	2.5	16
48	In situ analysis of martian regolith with the SAM experiment during the first mars year of the MSL mission: Identification of organic molecules by gas chromatography from laboratory measurements. <i>Planetary and Space Science</i> , 2016, 129, 88-102.	1.7	27
49	Magnesium sulfate as a key mineral for the detection of organic molecules on Mars using pyrolysis. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 61-74.	3.6	31
50	MOMA: the challenge to search for organics and biosignatures on Mars. <i>International Journal of Astrobiology</i> , 2016, 15, 239-250.	1.6	52
51	Sublimation of water ice mixed with silicates and tholins: Evolution of surface texture and reflectance spectra, with implications for comets. <i>Icarus</i> , 2016, 267, 154-173.	2.5	73
52	Sublimation of ice-tholins mixtures: A morphological and spectro-photometric study. <i>Icarus</i> , 2016, 266, 288-305.	2.5	35
53	The AMINO experiment: methane photolysis under Solar VUV irradiation on the EXPOSE-R facility of the International Space Station. <i>International Journal of Astrobiology</i> , 2015, 14, 79-87.	1.6	7
54	Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 495-514.	3.6	375

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55	Evaluation of the Tenax trap in the Sample Analysis at Mars instrument suite on the Curiosity rover as a potential hydrocarbon source for chlorinated organics detected in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 1446-1459.	3.6	23
56	Prototype of the gas chromatograph-mass spectrometer to investigate volatile species in the lunar soil for the Luna-Resurs mission. <i>Planetary and Space Science</i> , 2015, 111, 126-133.	1.7	25
57	The AMINO experiment: a laboratory for astrochemistry and astrobiology on the EXPOSE-R facility of the International Space Station. <i>International Journal of Astrobiology</i> , 2015, 14, 67-77.	1.6	8
58	Organic compounds on comet 67P/Churyumov-Gerasimenko revealed by COSAC mass spectrometry. <i>Science</i> , 2015, 349, aab0689.	12.6	376
59	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the Curiosity rover investigations at Gale crater, Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4245-4250.	7.1	172
60	Effect of Nontronite Smectite Clay on the Chemical Evolution of Several Organic Molecules under Simulated Martian Surface Ultraviolet Radiation Conditions. <i>Astrobiology</i> , 2015, 15, 221-237.	3.0	49
61	Formation of analogs of cometary nitrogen-rich refractory organics from thermal degradation of tholin and HCN polymer. <i>Icarus</i> , 2015, 250, 53-63.	2.5	23
62	Thermal degradation of organics for pyrolysis in space: Titan's atmospheric aerosol case study. <i>Icarus</i> , 2015, 248, 205-212.	2.5	8
63	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
64	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	12.6	687
65	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	12.6	508
66	Mars' Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	12.6	475
67	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	12.6	246
68	Gas chromatography for in situ analysis of a cometary nucleus V. Study of capillary columns' robustness submitted to long-term reduced environmental pressure conditions. <i>Journal of Chromatography A</i> , 2014, 1368, 211-216.	3.7	4
69	COSAC prepares for sampling and in situ analysis of cometary matter from comet 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2014, 103, 318-330.	1.7	23
70	Laboratory insights into the chemical and kinetic evolution of several organic molecules under simulated Mars surface UV radiation conditions. <i>Icarus</i> , 2014, 242, 50-63.	2.5	56
71	Nitrogen incorporation in Titan's tholins inferred by high resolution orbitrap mass spectrometry and gas chromatography-mass spectrometry. <i>Earth and Planetary Science Letters</i> , 2014, 404, 33-42.	4.4	39
72	Influence of CO on Titan atmospheric reactivity. <i>Icarus</i> , 2014, 238, 221-229.	2.5	22

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73	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	12.6	327
74	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	12.6	280
75	Can laboratory tholins mimic the chemistry producing Titan's aerosols? A review in light of ACP experimental results. <i>Planetary and Space Science</i> , 2013, 77, 91-103.	1.7	51
76	Evaluating the robustness of the enantioselective stationary phases on the Rosetta mission against space vacuum vaporization. <i>Advances in Space Research</i> , 2013, 52, 2080-2084.	2.6	17
77	Enantiomeric separation of volatile organics by gas chromatography for the in situ analysis of extraterrestrial materials: Kinetics and thermodynamics investigation of various chiral stationary phases. <i>Journal of Chromatography A</i> , 2013, 1306, 59-71.	3.7	22
78	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327
79	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
80	Chemical evolution of organic molecules under Mars-like UV radiation conditions simulated in the laboratory with the "Mars organic molecule irradiation and evolution" (MOMIE) setup. <i>Planetary and Space Science</i> , 2013, 85, 188-197.	1.7	39
81	Titan's atmosphere simulation experiment using continuum UV-VUV synchrotron radiation. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 778-788.	3.6	27
82	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
83	The Petrochemistry of Jake_M: A Martian Mugarite. <i>Science</i> , 2013, 341, 1239463.	12.6	134
84	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	12.6	215
85	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	12.6	103
86	Optical properties of analogs of Titan's aerosols produced by dusty plasma. <i>Earth, Planets and Space</i> , 2013, 65, 1175-1184.	2.5	6
87	Evidence for perchlorates and the origin of chlorinated hydrocarbons detected by SAM at the Rocknest aeolian deposit in Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1955-1973.	3.6	306
88	Evidence for perchlorates and the origin of chlorinated hydrocarbons detected by SAM at the rocknest aeolian deposit in gale crater. <i>Journal of Geophysical Research E: Planets</i> , 2013, , n/a-n/a.	3.6	6
89	The PROCESS Experiment: Amino and Carboxylic Acids Under Mars-Like Surface UV Radiation Conditions in Low-Earth Orbit. <i>Astrobiology</i> , 2012, 12, 436-444.	3.0	33
90	Photochemistry simulation of planetary atmosphere using synchrotron radiation at soleil. Application to Titan's atmosphere. <i>EAS Publications Series</i> , 2012, 58, 199-203.	0.3	0

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91	New insights into the structure and chemistry of Titan's tholins via ¹³ C and ¹⁵ N solid state nuclear magnetic resonance spectroscopy. <i>Icarus</i> , 2012, 221, 844-853.	2.5	39
92	Formation of Amino Acids and Nucleotide Bases in a Titan Atmosphere Simulation Experiment. <i>Astrobiology</i> , 2012, 12, 809-817.	3.0	158
93	The Sample Analysis at Mars Investigation and Instrument Suite. <i>Space Science Reviews</i> , 2012, 170, 401-478.	8.1	435
94	Mid- and far-infrared absorption spectroscopy of Titan's aerosols analogues. <i>Icarus</i> , 2012, 221, 320-327.	2.5	63
95	Influence of methane concentration on the optical indices of Titan's aerosols analogues. <i>Icarus</i> , 2012, 221, 670-677.	2.5	44
96	The PROCESS Experiment: An Astrochemistry Laboratory for Solid and Gaseous Organic Samples in Low-Earth Orbit. <i>Astrobiology</i> , 2012, 12, 412-425.	3.0	28
97	Optical constants from 370nm to 900nm of Titan tholins produced in a low pressure RF plasma discharge. <i>Icarus</i> , 2012, 218, 356-363.	2.5	33
98	Interpretation of COSAC mass spectrometer data acquired during Rosetta's Lutetia fly-by 10 July 2010. <i>Planetary and Space Science</i> , 2012, 66, 187-191.	1.7	10
99	The influence of mineralogy on recovering organic acids from Mars analogue materials using the acrylonitrile-oxalane-potassium derivatization experiment on the Sample Analysis at Mars (SAM) instrument suite. <i>Planetary and Space Science</i> , 2012, 67, 1-13.	1.7	49
100	The Sample Analysis at Mars Investigation and Instrument Suite. , 2012, , 401-478.		5
101	Nitrile gas chemistry in Titan's atmosphere. <i>Icarus</i> , 2011, 213, 625-635.	2.5	73
102	UVolution, a photochemistry experiment in low earth orbit: Investigation of the photostability of carbonates exposed to martian-like UV radiation conditions. <i>Planetary and Space Science</i> , 2010, 58, 1617-1624.	1.7	8
103	Titan's atmosphere: An optimal gas mixture for aerosol production?. <i>Icarus</i> , 2010, 209, 704-714.	2.5	79
104	Search for evidence of life in space: Analysis of enantiomeric organic molecules by N,N-dimethylformamide dimethylacetal derivative dependant Gas Chromatography-Mass Spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 731-740.	3.7	48
105	Capacitively coupled plasma used to simulate Titan's atmospheric chemistry. <i>Plasma Sources Science and Technology</i> , 2010, 19, 015008.	3.1	49
106	UVolution, a Photochemistry Experiment in Low Earth Orbit: Investigation of the Photostability of Carboxylic Acids Exposed to Mars Surface UV Radiation Conditions. <i>Astrobiology</i> , 2010, 10, 449-461.	3.0	30
107	Very high resolution mass spectrometry of HCN polymers and tholins. <i>Faraday Discussions</i> , 2010, 147, 495.	3.2	49
108	Investigating the Photostability of Carboxylic Acids Exposed to Mars Surface Ultraviolet Radiation Conditions. <i>Astrobiology</i> , 2009, 9, 543-549.	3.0	50

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109	Laboratory light-scattering measurements with Titan's aerosols analogues produced by a dusty plasma. <i>Planetary and Space Science</i> , 2009, 57, 1631-1641.	1.7	34
110	Development of a gas chromatography compatible Sample Processing System (SPS) for the in-situ analysis of refractory organic matter in martian soil: preliminary results. <i>Advances in Space Research</i> , 2009, 43, 143-151.	2.6	36
111	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
112	Chemical Characterization of Titan's Tholins: Solubility, Morphology and Molecular Structure Revisited. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11195-11203.	2.5	81
113	Astrochemistry on the EXPOSE/ISS and BIOPAN/Foton experiments. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 684-685.	0.0	0
114	Rosetta Lander (Philae) Investigations. , 2009, , 1-171.		2
115	Search for organic molecules at the Mars surface: The Martian Organic Material Irradiation and Evolution (MOMIE) project. <i>Advances in Space Research</i> , 2008, 42, 2014-2018.	2.6	16
116	Heterogeneous solid/gas chemistry of organic compounds related to comets, meteorites, Titan, and Mars: Laboratory and in lower Earth orbit experiments. <i>Advances in Space Research</i> , 2008, 42, 2019-2035.	2.6	38
117	From Titan's tholins to Titan's aerosols: Isotopic study and chemical evolution at Titan's surface. <i>Advances in Space Research</i> , 2008, 42, 48-53.	2.6	13
118	New experimental constraints on the composition and structure of tholins. <i>Icarus</i> , 2008, 198, 218-231.	2.5	144
119	Size study of dust produced in a CCP RF discharge for the simulation of Titan's chemistry. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1
120	Study of a CCP RF Dusty Plasma for the Production of Titan's Aerosols Analogues.. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
121	Tholins and their relevance for astrophysical issues. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 409-416.	0.0	4
122	Search for past life on Mars: Physical and chemical characterization of minerals of biotic and abiotic origin: 2. Aragonite. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16
123	A laboratory pilot for in situ analysis of refractory organic matter in Martian soil by gas chromatography-mass spectrometry. <i>Advances in Space Research</i> , 2007, 39, 337-344.	2.6	22
124	Gas chromatography-mass spectrometry analysis of amino acid enantiomers as methyl chloroformate derivatives: Application to space analysis. <i>Journal of Chromatography A</i> , 2007, 1150, 162-172.	3.7	65
125	The COSAC experiment of the Rosetta mission: Performance under representative conditions and expected scientific return. <i>Advances in Space Research</i> , 2007, 40, 180-186.	2.6	8
126	Carbon isotopic enrichment in Titan's tholins? Implications for Titan's aerosols. <i>Planetary and Space Science</i> , 2007, 55, 2010-2014.	1.7	19

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127	Cosac, The Cometary Sampling and Composition Experiment on Philae. <i>Space Science Reviews</i> , 2007, 128, 257-280.	8.1	127
128	GAS CHROMATOGRAPHY Gas Chromatography in Space Exploration. , 2007, , 1-13.		3
129	Complex organic matter in Titan's aerosols? (Reply). <i>Nature</i> , 2006, 444, E6-E7.	27.8	3
130	Complex organic matter in Titan's aerosols? (Reply). <i>Nature</i> , 2006, 444, E6-E7.	27.8	14
131	Performances under representative pressure and temperature conditions of the gas chromatography-mass spectrometry space experiment to investigate Titan's atmospheric composition. <i>Journal of Chromatography A</i> , 2006, 1131, 215-226.	3.7	9
132	PAMPRE: A dusty plasma experiment for Titan's tholins production and study. <i>Planetary and Space Science</i> , 2006, 54, 394-404.	1.7	154
133	A new extraction technique for in situ analyses of amino and carboxylic acids on Mars by gas chromatography mass spectrometry. <i>Planetary and Space Science</i> , 2006, 54, 1592-1599.	1.7	54
134	GC-MS analysis of amino acid enantiomers as their N(O,S)-perfluoroacyl perfluoroalkyl esters: Application to space analysis. <i>Chirality</i> , 2006, 18, 279-295.	2.6	21
135	Search for organics in extraterrestrial environments by in situ gas chromatography analysis. <i>Advances in Space Research</i> , 2005, 36, 195-200.	2.6	12
136	In situ analysis of the Martian soil by gas chromatography: Decoding of complex chromatograms of organic molecules of exobiological interest. <i>Journal of Chromatography A</i> , 2005, 1071, 255-261.	3.7	29
137	Complex organic matter in Titan's atmospheric aerosols from in situ pyrolysis and analysis. <i>Nature</i> , 2005, 438, 796-799.	27.8	228
138	Optical emission spectroscopy of a RF plasma for laboratory simulation of Titan's aerosols. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
139	Light Scattering Measurements with Dust of Interest for IMPF/IMPACT. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
140	Plasma laboratory simulations of Titan's aerosols. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
141	Search for past life on Mars: Physical and chemical characterization of minerals of biotic and abiotic origin: part 1 - Calcite. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	29
142	Did life exist on Mars? Search for organic and inorganic signatures, one of the goals for "SAM" (sample analysis at Mars). <i>Advances in Space Research</i> , 2004, 33, 2240-2245.	2.6	32
143	Dual column capillary gas chromatographic system for the in situ analysis of volatile organic compounds on a cometary nucleus. <i>Journal of Separation Science</i> , 2004, 27, 495-503.	2.5	10
144	Decoding of complex isothermal chromatograms: Application to chromatograms recovered from space missions. <i>Journal of Separation Science</i> , 2003, 26, 569-577.	2.5	14

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145	Interpretation of chromatographic data recovered from space missions: decoding of complex chromatograms by Fourier analysis. <i>Planetary and Space Science</i> , 2003, 51, 581-590.	1.7	6
146	What can we expect from the in situ chemical investigation of a cometary nucleus by gas chromatography: First results from laboratory studies. <i>Planetary and Space Science</i> , 2003, 51, 863-877.	1.7	26
147	Decoding of complex isothermal chromatograms recovered from space missions. <i>Journal of Chromatography A</i> , 2003, 1002, 179-192.	3.7	13
148	Peer Reviewed: Analyzing a Comet Nucleus by Capillary GC. <i>Analytical Chemistry</i> , 2002, 74, 481 A-487 A.	6.5	10
149	Chirality and the origin of life: In situ enantiomeric separation for future space missions. <i>Chirality</i> , 2002, 14, 527-532.	2.6	13
150	Gas chromatography for in situ analysis of a cometary nucleus. <i>Journal of Chromatography A</i> , 2002, 953, 165-173.	3.7	24
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