Cyril Szopa

List of Publications by Year
in descending order

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158	10,823	53794 45	31849 101
papers	citations	h-index	g-index

160	160	160	6127
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	12.6	687
2	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	12.6	508
3	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	12.6	475
4	The Sample Analysis at Mars Investigation and Instrument Suite. Space Science Reviews, 2012, 170, 401-478.	8.1	435
5	Organic compounds on comet 67P/Churyumov-Gerasimenko revealed by COSAC mass spectrometry. Science, 2015, 349, aab0689.	12.6	376
6	Organic molecules in the Sheepbed Mudstone, Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2015, 120, 495-514.	3.6	375
7	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. Astrobiology, 2017, 17, 471-510.	3.0	371
8	Organic matter preserved in 3-billion-year-old mudstones at Gale crater, Mars. Science, 2018, 360, 1096-1101.	12.6	369
9	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367
10	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	12.6	327
11	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	12.6	327
12	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	12.6	326
13	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	12.6	323
14	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.	3.6	306
15	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	12.6	280
16	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
17	Complex organic matter in Titan's atmospheric aerosols from in situ pyrolysis and analysis. Nature, 2005, 438, 796-799.	27.8	228
18	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	12.6	215

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19	The Mars Organic Molecule Analyzer (MOMA) Instrument: Characterization of Organic Material in Martian Sediments. Astrobiology, 2017, 17, 655-685.	3.0	185
20	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.	7.1	172
21	Formation of Amino Acids and Nucleotide Bases in a Titan Atmosphere Simulation Experiment. Astrobiology, 2012, 12, 809-817.	3.0	158
22	PAMPRE: A dusty plasma experiment for Titan's tholins production and study. Planetary and Space Science, 2006, 54, 394-404.	1.7	154
23	New experimental constraints on the composition and structure of tholins. Icarus, 2008, 198, 218-231.	2.5	144
24	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	12.6	134
25	Cosac, The Cometary Sampling and Composition Experiment on Philae. Space Science Reviews, 2007, 128, 257-280.	8.1	127
26	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	12.6	103
27	Oxidants at the Surface of Mars: A Review in Light of Recent Exploration Results. Astrobiology, 2016, 16, 977-996.	3.0	83
28	Chemical Characterization of Titanâ€™s Tholins: Solubility, Morphology and Molecular Structure Revisited. Journal of Physical Chemistry A, 2009, 113, 11195-11203.	2.5	81
29	Science Goals and Objectives for the Dragonfly Titan Rotorcraft Relocatable Lander. Planetary Science Journal, 2021, 2, 130.	3.6	80
30	Titanâ€™s atmosphere: An optimal gas mixture for aerosol production?. Icarus, 2010, 209, 704-714.	2.5	79
31	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	3.7	77
32	Nitrile gas chemistry in Titanâ€™s atmosphere. Icarus, 2011, 213, 625-635.	2.5	73
33	Sublimation of water ice mixed with silicates and tholins: Evolution of surface texture and reflectance spectra, with implications for comets. Icarus, 2016, 267, 154-173.	2.5	73
34	Production of Hexamethylenetetramine in Photolyzed and Irradiated Interstellar Cometary Ice Analogs. Astrophysical Journal, 2001, 561, L139-L142.	4.5	66
35	Gas chromatographyâ€“mass spectrometry analysis of amino acid enantiomers as methyl chloroformate derivatives: Application to space analysis. Journal of Chromatography A, 2007, 1150, 162-172.	3.7	65
36	Mid- and far-infrared absorption spectroscopy of Titanâ€™s aerosols analogues. Icarus, 2012, 221, 320-327.	2.5	63

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37	Laboratory insights into the chemical and kinetic evolution of several organic molecules under simulated Mars surface UV radiation conditions. Icarus, 2014, 242, 50-63.	2.5	56
38	A new extraction technique for in situ analyses of amino and carboxylic acids on Mars by gas chromatography mass spectrometry. Planetary and Space Science, 2006, 54, 1592-1599.	1.7	54
39	MOMA: the challenge to search for organics and biosignatures on Mars. International Journal of Astrobiology, 2016, 15, 239-250.	1.6	52
40	Can laboratory tholins mimic the chemistry producing Titan's aerosols? A review in light of ACP experimental results. Planetary and Space Science, 2013, 77, 91-103.	1.7	51
41	Investigating the Photostability of Carboxylic Acids Exposed to Mars Surface Ultraviolet Radiation Conditions. Astrobiology, 2009, 9, 543-549.	3.0	50
42	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. Astrobiology, 2020, 20, 292-306.	3.0	50
43	Capacitively coupled plasma used to simulate Titan's atmospheric chemistry. Plasma Sources Science and Technology, 2010, 19, 015008.	3.1	49
44	Very high resolution mass spectrometry of HCN polymers and tholins. Faraday Discussions, 2010, 147, 495.	3.2	49
45	The influence of mineralogy on recovering organic acids from Mars analogue materials using the â€œone-potâ€•derivatization experiment on the Sample Analysis at Mars (SAM) instrument suite. Planetary and Space Science, 2012, 67, 1-13.	1.7	49
46	Effect of Nontronite Smectite Clay on the Chemical Evolution of Several Organic Molecules under Simulated Martian Surface Ultraviolet Radiation Conditions. Astrobiology, 2015, 15, 221-237.	3.0	49
47	Search for evidence of life in space: Analysis of enantiomeric organic molecules by N,N-dimethylformamide dimethylacetal derivative dependant Gas Chromatographyâ€“Mass Spectrometry. Journal of Chromatography A, 2010, 1217, 731-740.	3.7	48
48	Orbitrap mass analyser for in situ characterisation of planetary environments: Performance evaluation of a laboratory prototype. Planetary and Space Science, 2016, 131, 33-45.	1.7	47
49	Influence of methane concentration on the optical indices of Titanâ€™s aerosols analogues. Icarus, 2012, 221, 670-677.	2.5	44
50	New insights into the structure and chemistry of Titanâ€™s tholins via 13C and 15N solid state nuclear magnetic resonance spectroscopy. Icarus, 2012, 221, 844-853.	2.5	39
51	Chemical evolution of organic molecules under Mars-like UV radiation conditions simulated in the laboratory with the â€œMars organic molecule irradiation and evolutionâ€•(MOMIE) setup. Planetary and Space Science, 2013, 85, 188-197.	1.7	39
52	Nitrogen incorporation in Titan's tholins inferred by high resolution orbitrap mass spectrometry and gas chromatographyâ€“mass spectrometry. Earth and Planetary Science Letters, 2014, 404, 33-42.	4.4	39
53	Heterogeneous solid/gas chemistry of organic compounds related to comets, meteorites, Titan, and Mars: Laboratory and in lower Earth orbit experiments. Advances in Space Research, 2008, 42, 2019-2035.	2.6	38
54	Development of a gas chromatography compatible Sample Processing System (SPS) for the in-situ analysis of refractory organic matter in martian soil: preliminary results. Advances in Space Research, 2009, 43, 143-151.	2.6	36

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55	Sublimation of iceâ€“tholins mixtures: A morphological and spectro-photometric study. Icarus, 2016, 266, 288-305.	2.5	35
56	Laboratory light-scattering measurements with Titan's aerosols analogues produced by a dusty plasma. Planetary and Space Science, 2009, 57, 1631-1641.	1.7	34
57	Gas chromatography in space exploration. Journal of Chromatography A, 1999, 846, 307-315.	3.7	33
58	The PROCESS Experiment: Amino and Carboxylic Acids Under Mars-Like Surface UV Radiation Conditions in Low-Earth Orbit. Astrobiology, 2012, 12, 436-444.	3.0	33
59	Optical constants from 370nm to 900nm of Titan tholins produced in a low pressure RF plasma discharge. Icarus, 2012, 218, 356-363.	2.5	33
60	Recovery of Fatty Acids from Mineralogic Mars Analogs by TMAH Thermochemolysis for the Sample Analysis at Mars Wet Chemistry Experiment on the Curiosity Rover. Astrobiology, 2019, 19, 522-546.	3.0	33
61	Analysis of complex mixtures recovered from space missions. Journal of Chromatography A, 2001, 939, 69-77.	3.7	32
62	Did life exist on Mars? Search for organic and inorganic signatures, one of the goals for â€œSAMâ€• (sample analysis at Mars). Advances in Space Research, 2004, 33, 2240-2245.	2.6	32
63	Magnesium sulfate as a key mineral for the detection of organic molecules on Mars using pyrolysis. Journal of Geophysical Research E: Planets, 2016, 121, 61-74.	3.6	31
64	Identification of Chlorobenzene in the Viking Gas Chromatographâ€Mass Spectrometer Data Sets: Reanalysis of Viking Mission Data Consistent With Aromatic Organic Compounds on Mars. Journal of Geophysical Research E: Planets, 2018, 123, 1674-1683.	3.6	31
65	UVolution, a Photochemistry Experiment in Low Earth Orbit: Investigation of the Photostability of Carboxylic Acids Exposed to Mars Surface UV Radiation Conditions. Astrobiology, 2010, 10, 449-461.	3.0	30
66	In situ analysis of the Martian soil by gas chromatography: Decoding of complex chromatograms of organic molecules of exobiological interest. Journal of Chromatography A, 2005, 1071, 255-261.	3.7	29
67	Search for past life on Mars: Physical and chemical characterization of minerals of biotic and abiotic origin: part 1 - Calcite. Geophysical Research Letters, 2005, 32, .	4.0	29
68	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. Monthly Notices of the Royal Astronomical Society, 2016, 462, S89-S98.	4.4	29
69	Experimenting with Mixtures of Water Ice and Dust as Analogues for Icy Planetary Material. Space Science Reviews, 2019, 215, 1.	8.1	29
70	Organic molecules revealed in Marsâ€™s Bagnold Dunes by Curiosityâ€™s derivatization experiment. Nature Astronomy, 2022, 6, 129-140.	10.1	29
71	The PROCESS Experiment: An Astrochemistry Laboratory for Solid and Gaseous Organic Samples in Low-Earth Orbit. Astrobiology, 2012, 12, 412-425.	3.0	28
72	Titan's atmosphere simulation experiment using continuum UVâ€VUV synchrotron radiation. Journal of Geophysical Research E: Planets, 2013, 118, 778-788.	3.6	27

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73	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. Planetary and Space Science, 2016, 129, 88-102.	1.7	27
74	What can we expect from the in situ chemical investigation of a cometary nucleus by gas chromatography: First results from laboratory studies. Planetary and Space Science, 2003, 51, 863-877.	1.7	26
75	Prototype of the gas chromatographâ€“mass spectrometer to investigate volatile species in the lunar soil for the Luna-Resurs mission. Planetary and Space Science, 2015, 111, 126-133.	1.7	25
76	Analysis of carbon and nitrogen signatures with laser-induced breakdown spectroscopy; the quest for organics under Mars-like conditions. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 131, 8-17.	2.9	25
77	Gas chromatography for in situ analysis of a cometary nucleus. Journal of Chromatography A, 2002, 953, 165-173.	3.7	24
78	COSAC prepares for sampling and in situ analysis of cometary matter from comet 67P/Churyumovâ€“Gerasimenko. Planetary and Space Science, 2014, 103, 318-330.	1.7	23
79	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. Journal of Geophysical Research E: Planets, 2015, 120, 1446-1459.	3.6	23
80	Formation of analogs of cometary nitrogen-rich refractory organics from thermal degradation of tholin and HCN polymer. Icarus, 2015, 250, 53-63.	2.5	23
81	Abiotic Input of Fixed Nitrogen by Bolide Impacts to Gale Crater During the Hesperian: Insights From the Mars Science Laboratory. Journal of Geophysical Research E: Planets, 2019, 124, 94-113.	3.6	23
82	Gas chromatography for in situ analysis of a cometary nucleus: characterization and optimization of diphenyl/dimethylpolysiloxane stationary phases. Journal of Chromatography A, 1999, 863, 157-169.	3.7	22
83	Gas chromatography for in situ analysis of a cometary nucleus. Journal of Chromatography A, 2002, 982, 303-312.	3.7	22
84	A laboratory pilot for in situ analysis of refractory organic matter in Martian soil by gas chromatographyâ€“mass spectrometry. Advances in Space Research, 2007, 39, 337-344.	2.6	22
85	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. Journal of Chromatography A, 2013, 1306, 59-71.	3.7	22
86	Influence of CO on Titan atmospheric reactivity. Icarus, 2014, 238, 221-229.	2.5	22
87	GC-MS analysis of amino acid enantiomers as theirN(O,S)-perfluoroacyl perfluoroalkyl esters: Application to space analysis. Chirality, 2006, 18, 279-295.	2.6	21
88	Development of HPLC-Orbitrap method for identification of N-bearing molecules in complex organic material relevant to planetary environments. Icarus, 2016, 275, 259-266.	2.5	21
89	Gas chromatography for in situ analysis of a cometary nucleus. Journal of Chromatography A, 2000, 904, 73-85.	3.7	19
90	Carbon isotopic enrichment in Titan's tholins? Implications for Titan's aerosols. Planetary and Space Science, 2007, 55, 2010-2014.	1.7	19

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91	Major Volatiles Evolved From Eolian Materials in Gale Crater. Geophysical Research Letters, 2018, 45, 10,240.	4.0	19
92	Identification of organic molecules with a laboratory prototype based on the Laser Ablation-CosmOrbitrap. Planetary and Space Science, 2019, 170, 42-51.	1.7	18
93	The search for organic compounds with TMAH thermochemolysis: From Earth analyses to space exploration experiments. TrAC - Trends in Analytical Chemistry, 2020, 127, 115896.	11.4	18
94	Detection of martian amino acids by chemical derivatization coupled to gas chromatography: In situ and laboratory analysis. Advances in Space Research, 2001, 27, 195-199.	2.6	17
95	Evaluating the robustness of the enantioselective stationary phases on the Rosetta mission against space vacuum vaporization. Advances in Space Research, 2013, 52, 2080-2084.	2.6	17
96	Search for past life on Mars: Physical and chemical characterization of minerals of biotic and abiotic origin: 2. Aragonite. Geophysical Research Letters, 2007, 34, .	4.0	16
97	Search for organic molecules at the Mars surface: The â€œMartian Organic Material Irradiation and Evolutionâ€•(MOMIE) project. Advances in Space Research, 2008, 42, 2014-2018.	2.6	16
98	Titan's organic aerosols: Molecular composition and structure of laboratory analogues inferred from pyrolysis gas chromatography mass spectrometry analysis. Icarus, 2016, 277, 442-454.	2.5	16
99	The Photochemistry on Space Station (PSS) Experiment: Organic Matter under Mars-like Surface UV Radiation Conditions in Low Earth Orbit. Astrobiology, 2019, 19, 1037-1052.	3.0	16
100	Bidirectional reflectance of laboratory cometary analogues to interpret the spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko. Planetary and Space Science, 2017, 148, 1-11.	1.7	15
101	Decoding of complex isothermal chromatograms: Application to chromatograms recovered from space missions. Journal of Separation Science, 2003, 26, 569-577.	2.5	14
102	Complex organic matter in Titan's aerosols? (Reply). Nature, 2006, 444, E6-E7.	27.8	14
103	Bidirectional reflectance and VIS-NIR spectroscopy of cometary analogues under simulated space conditions. Planetary and Space Science, 2017, 145, 14-27.	1.7	14
104	Application of TMAH thermochemolysis to the detection of nucleobases: Application to the MOMA and SAM space experiment. Talanta, 2019, 204, 802-811.	5.5	14
105	Chirality and the origin of life: In situ enantiomeric separation for future space missions. Chirality, 2002, 14, 527-532.	2.6	13
106	Decoding of complex isothermal chromatograms recovered from space missions. Journal of Chromatography A, 2003, 1002, 179-192.	3.7	13
107	From Titanâ€™s tholins to Titanâ€™s aerosols: Isotopic study and chemical evolution at Titanâ€™s surface. Advances in Space Research, 2008, 42, 48-53.	2.6	13
108	Characterization of aromaticity in analogues of titan's atmospheric aerosols with two-step laser desorption ionization mass spectrometry. Planetary and Space Science, 2016, 131, 1-13.	1.7	13

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109	Role of the TenaxÂ® Adsorbent in the Interpretation of the EGA and GCâ€MS Analyses Performed With the Sample Analysis at Mars in Gale Crater. Journal of Geophysical Research E: Planets, 2019, 124, 2819-2851.	3.6	13
110	Search for organics in extraterrestrial environments by in situ gas chromatography analysis. Advances in Space Research, 2005, 36, 195-200.	2.6	12
111	Benzoic Acid as the Preferred Precursor for the Chlorobenzene Detected on Mars: Insights from the Unique Cumberland Analog Investigation. Planetary Science Journal, 2020, 1, 41.	3.6	12
112	Investigating the effects of gamma radiation on selected chemicals for use in biosignature detection instruments on the surface of Jupiter's moon Europa. Planetary and Space Science, 2019, 175, 1-12.	1.7	11
113	Influence of Calcium Perchlorate on Organics Under SAMâ€Like Pyrolysis Conditions: Constraints on the Nature of Martian Organics. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006359.	3.6	11
114	In-situ chemical investigation of a comet nucleus by gas chromatography: Porous layer open tubular columns for the separation of light, volatile compounds. Chromatographia, 2001, 54, 369-376.	1.3	10
115	Peer Reviewed: Analyzing a Comet Nucleus by Capillary GC. Analytical Chemistry, 2002, 74, 481 A-487 A.	6.5	10
116	Dual column capillary gas chromatographic system for the in situ analysis of volatile organic compounds on a cometary nucleus. Journal of Separation Science, 2004, 27, 495-503.	2.5	10
117	Interpretation of COSAC mass spectrometer data acquired during Rosetta's Lutetia fly-by 10 July 2010. Planetary and Space Science, 2012, 66, 187-191.	1.7	10
118	Influence of Calcium Perchlorate on the Search for Organics on Mars with Tetramethylammonium Hydroxide Thermochemolysis. Astrobiology, 2021, 21, 279-297.	3.0	10
119	Performances under representative pressure and temperature conditions of the gas chromatographyâ€“mass spectrometry space experiment to investigate Titan's atmospheric composition. Journal of Chromatography A, 2006, 1131, 215-226.	3.7	9
120	Testing the capabilities of the Mars Organic Molecule Analyser (MOMA) chromatographic columns for the separation of organic compounds on Mars. Planetary and Space Science, 2020, 186, 104903.	1.7	9
121	The COSAC experiment of the Rosetta mission: Performance under representative conditions and expected scientific return. Advances in Space Research, 2007, 40, 180-186.	2.6	8
122	UVolution, a photochemistry experiment in low earth orbit: Investigation of the photostability of carbonates exposed to martian-like UV radiation conditions. Planetary and Space Science, 2010, 58, 1617-1624.	1.7	8
123	The AMINO experiment: a laboratory for astrochemistry and astrobiology on the EXPOSE-R facility of the International Space Station. International Journal of Astrobiology, 2015, 14, 67-77.	1.6	8
124	Thermal degradation of organics for pyrolysis in space: Titanâ€™s atmospheric aerosol case study. Icarus, 2015, 248, 205-212.	2.5	8
125	Organic chemistry in a CO2 rich early Earth atmosphere. Earth and Planetary Science Letters, 2017, 479, 34-42.	4.4	8
126	ESA's Cometary Mission Rosettaâ€”Reâ€Characterization of the COSAC Mass Spectrometry Results. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8

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127	The AMINO experiment: methane photolysis under Solar VUV irradiation on the EXPOSE-R facility of the International Space Station. International Journal of Astrobiology, 2015, 14, 79-87.	1.6	7
128	Performance of the SAM gas chromatographic columns under simulated flight operating conditions for the analysis of chlorohydrocarbons on Mars. Journal of Chromatography A, 2019, 1598, 183-195.	3.7	7
129	Dimerization of Uracil in a Simulated Mars-like UV Radiation Environment. Astrobiology, 2020, 20, 1363-1376.	3.0	7
130	Europan Molecular Indicators of Life Investigation (EMILI) for a Future Europa Lander Mission. Frontiers in Space Technologies, 2022, 2, .	1.4	7
131	Interpretation of chromatographic data recovered from space missions: decoding of complex chromatograms by Fourier analysis. Planetary and Space Science, 2003, 51, 581-590.	1.7	6
132	Optical properties of analogs of Titanâ€™s aerosols produced by dusty plasma. Earth, Planets and Space, 2013, 65, 1175-1184.	2.5	6
133	Influence of Calcium Perchlorate on the Search for Martian Organic Compounds with MTBSTFA/DMF Derivatization. Astrobiology, 2021, 21, 1137-1156.	3.0	6
134	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.	3.6	6
135	Decay of COSAC and Ptolemy mass spectra at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 600, A56.	5.1	5
136	Electrical Properties of Tholins and Derived Constraints on the Huygens Landing Site Composition at the Surface of Titan. Journal of Geophysical Research E: Planets, 2018, 123, 807-822.	3.6	5
137	The Sample Analysis at Mars Investigation and Instrument Suite. , 2012, , 401-478.		5
138	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. Experimental Astronomy, 2022, 54, 809-847.	3.7	5
139	Science goals and new mission concepts for future exploration of Titanâ€™s atmosphere, geology and habitability: titan POlar scout/orbitEr and in situ lake lander and DrONe explorer (POSEIDON). Experimental Astronomy, 2022, 54, 911-973.	3.7	5
140	Tholins and their relevance for astrophysical issues. Proceedings of the International Astronomical Union, 2008, 4, 409-416.	0.0	4
141	Gas chromatography for in situ analysis of a cometary nucleus V. Study of capillary columnsâ€™ robustness submitted to long-term reduced environmental pressure conditions. Journal of Chromatography A, 2014, 1368, 211-216.	3.7	4
142	Complex organic matter in Titan's aerosols? (Reply). Nature, 2006, 444, E6-E7.	27.8	3
143	Miniaturized gas chromatography for space exploration: A 50 years history. , 2017, , .		3
144	Thermal stability of adsorbents used for gas chromatography in space exploration. Journal of Chromatography A, 2021, 1644, 462087.	3.7	3

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145	GAS CHROMATOGRAPHY | Gas Chromatography in Space Exploration. , 2007, , 1-13.		3
146	COSAC's Only Gas Chromatogram Taken on Comet 67P/Churyumovâ€Gerasimenko. ChemPlusChem, 2022, 87, .	2.8	3
147	Rosetta Lander (â€œPhilaeâ€) Investigations. , 2009, , 1-171.		2
148	ESAs Kometenâ€Mission Rosetta â€“ Neuâ€Analyse der Daten des COSAC Massenspektrometers. Angewandte Chemie, 2022, 134, .	2.0	2
149	Optical emission spectroscopy of a RF plasma for laboratory simulation of Titanâ€™s aerosols. AIP Conference Proceedings, 2005, , .	0.4	1
150	Plasma laboratory simulations of Titanâ€™s aerosols. AIP Conference Proceedings, 2005, , .	0.4	1
151	Size study of dust produced in a CCP RF discharge for the simulation of Titanâ€™s chemistry. AIP Conference Proceedings, 2008, , .	0.4	1
152	Reply to Comment by F. Kenig, L. Chou, and D. J. Wardrop on â€œEvaluation 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 Craterâ€•by Miller et al., 2015. Journal of Geophysical Research E: Planets, 2019, 124, 648-650.	3.6	1
153	Light Scattering Measurements with Dust of Interest for IMPF/IMPACT. AIP Conference Proceedings, 2005, , .	0.4	0
154	Study of a CCP RF Dusty Plasma for the Production of Titanâ€™s Aerosols Analogues.. AIP Conference Proceedings, 2008, , .	0.4	0
155	Astrochemistry on the EXPOSE/ISS and BIOPAN/Foton experiments. Proceedings of the International Astronomical Union, 2009, 5, 684-685.	0.0	0
156	Photochemistry simulation of planetary atmosphere using synchrotron radiation at soleil. Application to Titanâ€™s atmosphere. EAS Publications Series, 2012, 58, 199-203.	0.3	0
157	Operations of the Sample Analysis at Mars instrument suite onboard the Curiosity rover. , 2018, , .		0
158	RÃ¼cktitelbild: ESAs Kometenâ€Mission Rosetta â€“ Neuâ€Analyse der Daten des COSAC Massenspektrometers (Angew. Chem. 29/2022). Angewandte Chemie, 2022, 134, .	2.0	0