

Organics in comet 67P “ a first comparative analysis of COSAC and Ptolemy

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Deep K-band Observations of TMC-1 with the Green Bank Telescope: Detection of HC ₇ O, Nondetection of HC ₁₁ N, and a Search for New Organic Molecules. <i>Astrophysical Journal</i> , 2017, 850, 187.	1.6	32
2	Rosetta Mission: Electron Scattering Cross Sectionsâ€”Data Needs and Coverage in BEAMDB Database. <i>Atoms</i> , 2017, 5, 46.	0.7	8
3	The chemical connection between 67P/C-G and IRAS 16293-2422. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 196-201.	0.0	0
4	CH ₃ NCO detections in observations and the laboratory. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 360-363.	0.0	0
5	Exploring molecular complexity in the Galactic Center with ALMA. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 383-394.	0.0	0
6	Chemical modelling of complex organic molecules with peptide-like bonds in star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2796-2812.	1.6	79
7	On the Synthesis of Chocolate Flavonoids (Propanols, Butanals) in the Interstellar Medium. <i>ChemPhysChem</i> , 2018, 19, 556-560.	1.0	11
8	Significance of variables for discrimination: Applied to the search of organic ions in mass spectra measured on cometary particles. <i>Journal of Chemometrics</i> , 2018, 32, e3001.	0.7	1
9	Methyl isocyanate (CH ₃ NCO): an important missing organic in current astrochemical networks. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 473, L59-L63.	1.2	23
10	Cometary Dust. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	88
11	The ALMA-PILS survey: the sulphur connection between protostars and comets: IRAS 16293â€”2422 B and 67P/Churyumovâ€”Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4949-4964.	1.6	74
12	IR spectra and properties of solid acetone, an interstellar and cometary molecule. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 193, 33-39.	2.0	37
13	Radiation chemistry of solid acetone in the interstellar medium â€” a new dimension to an old problem. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5389-5398.	1.3	11
14	The Rosetta Mission and the Chemistry of Organic Species in Comet 67P/Churyumovâ€”Gerasimenko. <i>Elements</i> , 2018, 14, 95-100.	0.5	12
15	Fitting Cometary Sampling and Composition Mass Spectral Results Using Non-negative Least Squares: Reducing Detection Ambiguity for <i>In Situ</i> Solar System Organic Compound Measurements. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1256-1261.	1.2	5
16	The ALMA-PILS survey: Stringent limits on small amines and nitrogen-oxides towards IRAS 16293â€”2422B. <i>Astronomy and Astrophysics</i> , 2018, 619, A28.	2.1	42
17	Infrared Spectra and Interstellar Sulfur: New Laboratory Results for H ₂ S and Four Malodorous Thiol Ices. <i>Astrophysical Journal</i> , 2018, 867, 138.	1.6	22
18	The Fate of Formamide in a Fragmenting Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 868, 9.	1.6	10

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19	Monosaccharides and Their Derivatives in Carbonaceous Meteorites: A Scenario for Their Synthesis and Onset of Enantiomeric Excesses. <i>Life</i> , 2018, 8, 36.	1.1	15
20	The formation of peptide-like molecules on interstellar dust grains. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3628-3643.	1.6	53
21	A review of the development and application of space miniature mass spectrometers. <i>Vacuum</i> , 2018, 155, 108-117.	1.6	31
22	CO ⁺ and CN-gas Relations in Comet 1P/Halley. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 084401.	1.0	0
23	A Photoionization Reflectron Time-of-flight Mass Spectrometric Study on the Formation of Acetic Acid (CH ₃ COOH) in Interstellar Analog Ices. <i>Astrophysical Journal</i> , 2018, 862, 140.	1.6	21
24	Stability of CH ₃ NCO in Astronomical Ices under Energetic Processing: A Laboratory Study. <i>Astrophysical Journal</i> , 2018, 861, 61.	1.6	11
25	Comet Pond II: Synergistic Intersection of Concentrated Extraterrestrial Materials and Planetary Environments to Form Procreative Darwinian Ponds. <i>Life</i> , 2018, 8, 12.	1.1	10
26	Infrared spectra of complex organic molecules in astronomically relevant ice matrices. <i>Astronomy and Astrophysics</i> , 2018, 611, A35.	2.1	34
27	Observations of Cometary Organics: A Post Rosetta Review. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1773-1791.	1.2	8
28	CHO-Bearing Molecules in Comet 67P/Churyumov-Gerasimenko. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1854-1861.	1.2	20
29	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 594-607.	1.6	112
30	Volatile Species in Comet 67P/Churyumov-Gerasimenko: Investigating the Link from the ISM to the Terrestrial Planets. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1792-1811.	1.2	39
31	On the formation of complex organic molecules in the interstellar medium: untangling the chemical complexity of carbon monoxide- and hydrocarbon containing ice analogues exposed to ionizing radiation via a combined infrared and reflectron time-of-flight analysis. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16949-16980.	1.3	35
32	Photodesorption of Water Ice from Dust Grains and Thermal Desorption of Cometary Ices Studied by the INSIDE Experiment. <i>Astrophysical Journal</i> , 2019, 880, 12.	1.6	17
33	Complex Organic Molecules in Comets from Remote-Sensing Observations at Millimeter Wavelengths. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1550-1555.	1.2	30
34	Formation of interstellar propanal and 1-propanol ice: a pathway involving solid-state CO hydrogenation. <i>Astronomy and Astrophysics</i> , 2019, 627, A1.	2.1	29
35	Aliphatic and aromatic hydrocarbons in comet 67P/Churyumov-Gerasimenko seen by ROSINA. <i>Astronomy and Astrophysics</i> , 2019, 630, A31.	2.1	36
37	Organosulfur Compounds Formed by Sulfur Ion Bombardment of Astrophysical Ice Analogs: Implications for Moons, Comets, and Kuiper Belt Objects. <i>Astrophysical Journal Letters</i> , 2019, 885, L40.	3.0	17

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39	Towards New Comet Missions. Space Science Reviews, 2019, 215, 1.	3.7	13
40	Calibration of parent and fragment ion detection rates in Rosettas ROSINA/DFMS mass spectrometer. International Journal of Mass Spectrometry, 2019, 446, 116233.	0.7	4
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43	Evidence of Surface Catalytic Effect on Cosmic Dust Grain Analogs: The Ammonia and Carbon Dioxide Surface Reaction. Astrophysical Journal Letters, 2019, 878, L20.	3.0	29
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45	Methylamine and other simple N-bearing species in the hot cores NGC 6334 I MM1-3. Astronomy and Astrophysics, 2019, 624, A82.	2.1	34
46	Sublimation of buried cometary ice. Icarus, 2019, 329, 72-78.	1.1	9
47	Stellar Occultation by Comet 67P/Churyumov-Gerasimenko Observed with Rosetta's Alice Far-ultraviolet Spectrograph. Astronomical Journal, 2019, 157, 173.	1.9	5
48	Prebiotic Chemistry of Pluto. Astrobiology, 2019, 19, 831-848.	1.5	26
49	Radical-assisted polymerization in interstellar ice analogues: formyl radical and polyoxymethylene. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1953-1963.	1.6	14
50	Comet 67P/CG Nucleus Composition and Comparison to Other Comets. Space Science Reviews, 2019, 215, 1.	3.7	32
51	Molecular complexity in the interstellar medium. Proceedings of the International Astronomical Union, 2019, 15, 96-99.	0.0	0
52	A Comprehensive Spectral Rotational Analysis of the Interstellar Methyl Isocyanate CH ₃ NCO. Astrophysical Journal, Supplement Series, 2019, 245, 31.	3.0	5
54	Sublimation of cometary ices in the presence of organic volatiles II. Icarus, 2019, 319, 470-475.	1.1	6
55	Preparation and characterization of the enol of acetamide: 1-aminoethenol, a high-energy prebiotic molecule. Chemical Science, 2020, 11, 12358-12363.	3.7	13
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60	Near-infrared Methanol Bands Probe Energetic Processing of Icy Outer Solar System Objects. <i>Astrophysical Journal Letters</i> , 2020, 894, L3.	3.0	8
61	Organic Matter in the Solar System—Implications for Future on-Site and Sample Return Missions. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	19
62	On the Formation of the Popcorn Flavorant 2,3-Butanedione (CH ₃ COCOCH ₃) in Acetaldehyde-Containing Interstellar Ices. <i>ChemPhysChem</i> , 2020, 21, 1531-1540.	1.0	12
63	Identification of Prebiotic Molecules Containing Peptide-like Bonds in a Hot Molecular Core, G10.47+0.03. <i>Astrophysical Journal</i> , 2020, 895, 86.	1.6	36
64	The ALMA-PILS survey: inventory of complex organic molecules towards IRAS 16293-2422 A. <i>Astronomy and Astrophysics</i> , 2020, 635, A48.	2.1	87
65	Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids. <i>Science</i> , 2020, 367, .	6.0	115
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68	Evolution of mobile phases in cometary interiors. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	1.3	0
69	Infrared detection of aliphatic organics on a cometary nucleus. <i>Nature Astronomy</i> , 2020, 4, 500-505.	4.2	41
70	High-Resolution Gas Phase Spectroscopy of Molecules Desorbed from an Ice Surface: A Proof-of-Principle Study. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 86-91.	1.2	12
71	ALMA and ROSINA detections of phosphorus-bearing molecules: the interstellar thread between star-forming regions and comets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 1180-1198.	1.6	58
72	Comets, sliding of surface dust. <i>Icarus</i> , 2020, 348, 113781.	1.1	6
73	Formation of complex molecules in translucent clouds: acetaldehyde, vinyl alcohol, ketene, and ethanol via nonenergetic processing of C ₂ H ₂ ice. <i>Astronomy and Astrophysics</i> , 2020, 635, A199.	2.1	29
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76	<i>Astrobiology: An Overview.</i> , 2021, , 737-757.		0
77	Organic Matter in Cometary Environments. <i>Life</i> , 2021, 11, 37.	1.1	9
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79	Atomistic simulations of the free-energy landscapes of interstellar chemical reactions: the case of methyl isocyanate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1565-1570.	1.6	6
80	Astrochemical Pathways to Complex Organic and Prebiotic Molecules: Experimental Perspectives for In Situ Solid-State Studies. <i>Life</i> , 2021, 11, 568.	1.1	8
81	Synthesis of the first nitrogen-heterocycles in interstellar ice analogues containing methylamine (CH ₃ NH ₂) exposed to UV radiation: formation of trimethylentriamine (TMT, c-(CH ₂ -NH) ₃) and hexamethylenetetramine (HMT, (CH ₂) ₆ N ₄). <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 791-805.	1.6	3
82	Formation of complex organic molecules in molecular clouds: acetaldehyde, vinyl alcohol, ketene, and ethanol via the "energetic" processing of C ₂ H ₂ ice. <i>Astronomy and Astrophysics</i> , 2021, 650, A85.	2.1	15
83	Insoluble organic matter in chondrites: Archetypal melanin-like PAH-based multifunctionality at the origin of life?. <i>Physics of Life Reviews</i> , 2021, 37, 65-93.	1.5	18
84	AMBITION " comet nucleus cryogenic sample return. <i>Experimental Astronomy</i> , 2022, 54, 1077-1128.	1.6	4
85	Detection of volatiles undergoing sublimation from 67P/Churyumov-Gerasimenko coma particles using ROSINA/COPS. <i>Astronomy and Astrophysics</i> , 2021, 651, A26.	2.1	3
86	The GUAPOS project. <i>Astronomy and Astrophysics</i> , 2021, 653, A129.	2.1	29
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88	Sublimation of organic-rich comet analog materials and their relevance in fracture formation. <i>Astronomy and Astrophysics</i> , 2021, 653, A153.	2.1	1
89	Sulfur ion irradiation experiments simulating space weathering of Solar System body surfaces. <i>Astronomy and Astrophysics</i> , 2021, 655, A74.	2.1	10
90	Sublimation of porous granular ice in vacuum. <i>Icarus</i> , 2021, 368, 114613.	1.1	8
91	Excitation, emission, and synchronous fluorescence for astrochemical applications: Experiments and computer simulations of synchronous spectra of polycyclic aromatic hydrocarbons and their mixtures. <i>Icarus</i> , 2021, 370, 114689.	1.1	5
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94	<i>Astrobiology: An Overview.</i> , 2020, , 1-17.		1
95	The ice composition in the disk around V883 Ori revealed by its stellar outburst. <i>Nature Astronomy</i> , 2019, 3, 314-319.	4.2	87
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98	Molecular and isotopic compositions of nitrogen-containing organic molecules formed during UV-irradiation of simulated interstellar ice. <i>Geochemical Journal</i> , 2019, 53, 5-20.	0.5	6
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100	The Family of Amide Molecules toward NGC 6334I. <i>Astrophysical Journal</i> , 2020, 901, 37.	1.6	34
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102	<i>Astrobiology: An Overview.</i> , 2019, , 1-17.		0
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105	Gas Emissions Near the Nucleus. <i>Astronomy and Astrophysics Library</i> , 2020, , 179-280.	0.2	0
106	Is There Any Linkage between Interstellar Aldehyde and Alcohol?. <i>Astrophysical Journal</i> , 2021, 922, 194.	1.6	8
107	Volatile Abundances, Extended Coma Sources, and Nucleus Ice Associations in Comet C/2014 Q2 (Lovejoy). <i>Planetary Science Journal</i> , 2022, 3, 6.	1.5	4
108	Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2022, 658, A87.	2.1	1
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110	Microwave- and millimeter-wave spectra of five conformers of cysteamine and their interstellar search. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	1

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111	Lyalpha irradiation of solid-state formamide. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	1
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113	Square Kilometre Array. , 2022, , 1-3.		0
114	ESA's Cometary Mission Rosettaâ€”Reâ€”Characterization of the COSAC Mass Spectrometry Results. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
115	Computer simulation investigation of the adsorption of acetamide on low density amorphous ice. An astrochemical perspective. <i>Journal of Chemical Physics</i> , 2022, 156, 184703.	1.2	3
116	ESAs Kometenâ€”Mission Rosetta â€” Neuâ€”Analyse der Daten des COSAC Massenspektrometers. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
117	Identification and characterization of a new ensemble of cometary organic molecules. <i>Nature Communications</i> , 2022, 13, .	5.8	15
118	Formation of the Simplest Amide in Molecular Clouds: Formamide (NH ₂ CHO) and Its Derivatives in H ₂ O-rich and CO-rich Interstellar Ice Analogs upon VUV Irradiation. <i>Astrophysical Journal</i> , 2022, 933, 107.	1.6	9
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122	Analysis of Charonâ€™s spectrum at 2.21- $\frac{1}{4}$ μ m from New Horizons/LEISA and Earth-based observations. <i>Icarus</i> , 2023, 389, 115242.	1.1	5
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124	Ion irradiation triggers the formation of the precursors of complex organics in space. The case of formaldehyde and acetaldehyde. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	0
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126	C/2020 F3 (NEOWISE) production rates from high-resolution TNG/HARPS-N spectra. <i>Planetary and Space Science</i> , 2023, 230, 105664.	0.9	0
127	Prebiotic Synthesis and Isomerization in Interstellar Analog Ice: Glycinal, Acetamide, and Their Enol Tautomers. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
128	Prebiotic Synthesis and Isomerization in Interstellar Analog Ice: Glycinal, Acetamide, and Their Enol Tautomers. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	3

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129	Multi-instrument analysis of 67P/Churyumov-Gerasimenko coma particles: COPS-GIADA data fusion. <i>Astronomy and Astrophysics</i> , 2023, 671, A168.	2.1	1
130	Modelling of the processes of dunes formation on the surface of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2023, 521, 1570-1577.	1.6	2
131	Insights into the formation and evolution of extraterrestrial amino acids from the asteroid Ryugu. <i>Nature Communications</i> , 2023, 14, .	5.8	9
132	Comparative Study of the Adsorption of 1- and 2-Propanol on Ice by Means of Grand Canonical Monte Carlo Simulations. <i>ACS Earth and Space Chemistry</i> , 2023, 7, 850-862.	1.2	1
133	Development of a Prototype Mass Spectrometer. <i>Uju Gisulgwa Eungyong</i> , 2023, 3, 86-99.	0.1	0
140	Rosetta Spacecraft. , 2023, , 2689-2695.		0
141	Square Kilometre Array. , 2023, , 2838-2840.		0
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