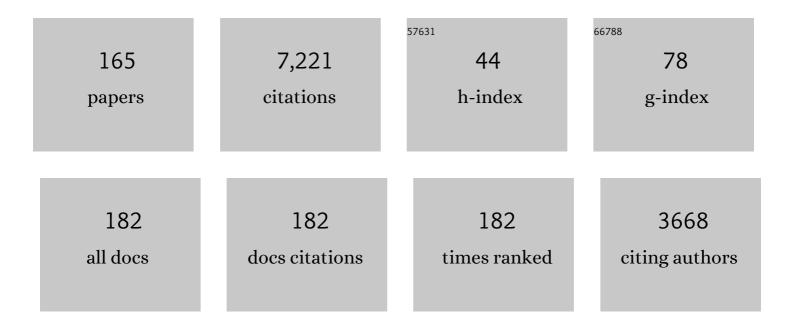
## Martin Rubin

List of Publications by Year in descending order

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MADTIN PURIN

#	Article	IF	CITATIONS
1	67P/Churyumov-Gerasimenko, a Jupiter family comet with a high D/H ratio. Science, 2015, 347, 1261952.	6.0	403
2	Prebiotic chemicals—amino acid and phosphorus—in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2016, 2, e1600285.	4.7	393
3	Rosina – Rosetta Orbiter Spectrometer for Ion and Neutral Analysis. Space Science Reviews, 2007, 128, 745-801.	3.7	331
4	Inventory of the volatiles on comet 67P/Churyumov-Gerasimenko from Rosetta/ROSINA. Astronomy and Astrophysics, 2015, 583, A1.	2.1	265
5	Abundant molecular oxygen in the coma of comet 67P/Churyumov–Gerasimenko. Nature, 2015, 526, 678-681.	13.7	260
6	Time variability and heterogeneity in the coma of 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0276.	6.0	222
7	Molecular nitrogen in comet 67P/Churyumov-Gerasimenko indicates a low formation temperature. Science, 2015, 348, 232-235.	6.0	195
8	Xenon isotopes in 67P/Churyumov-Gerasimenko show that comets contributed to Earth's atmosphere. Science, 2017, 356, 1069-1072.	6.0	161
9	Organics in comet 67P – a first comparative analysis of mass spectra from ROSINA–DFMS, COSAC and Ptolemy. Monthly Notices of the Royal Astronomical Society, 2017, 469, S130-S141.	1.6	153
10	Origins of volatile elements (H, C, N, noble gases) on Earth and Mars in light of recent results from the ROSETTA cometary mission. Earth and Planetary Science Letters, 2016, 441, 91-102.	1.8	143
11	Sulphur-bearing species in the coma of comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S253-S273.	1.6	137
12	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 489, 594-607.	1.6	112
13	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	6.0	107
14	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, A24.	2.1	95
15	Comparison of 3D kinetic and hydrodynamic models to ROSINA-COPS measurements of the neutral coma of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A7.	2.1	93
16	Influence of spacecraft outgassing on the exploration of tenuous atmospheres with in situ mass spectrometry. Journal of Geophysical Research, 2010, 115, .	3.3	91
17	Protostellar and cometary detections of organohalogens. Nature Astronomy, 2017, 1, 703-708.	4.2	89
18	Three-dimensional direct simulation Monte-Carlo modeling of the coma of comet 67P/Churyumov-Gerasimenko observed by the VIRTIS and ROSINA instruments on board Rosetta. Astronomy and Astrophysics, 2016, 588, A134.	2.1	88

#	Article	IF	CITATIONS
19	Detection of argon in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2015, 1, e1500377.	4.7	87
20	Direct Simulation Monte Carlo modelling of the major species in the coma of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S156-S169.	1.6	87
21	Ingredients for solar-like systems: protostar IRAS 16293-2422ÂB versus comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 490, 50-79.	1.6	84
22	Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S459-S467.	1.6	79
23	Evidence of ammonium salts in comet 67P as explanation for the nitrogen depletion in cometary comae. Nature Astronomy, 2020, 4, 533-540.	4.2	79
24	lonospheric plasma of comet 67P probed by <i>Rosetta</i> at 3Âau from the Sun. Monthly Notices of the Royal Astronomical Society, 2016, 462, S331-S351.	1.6	75
25	Spatial distribution of lowâ€energy plasma around comet 67P/CG from Rosetta measurements. Geophysical Research Letters, 2015, 42, 4263-4269.	1.5	74
26	NUMERICAL SIMULATION OF DUST IN A COMETARY COMA: APPLICATION TO COMET 67P/CHURYUMOV-GERASIMENKO. Astrophysical Journal, 2011, 732, 104.	1.6	67
27	Composition-dependent outgassing of comet 67P/Churyumov-Gerasimenko from ROSINA/DFMS. Astronomy and Astrophysics, 2015, 583, A4.	2.1	67
28	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2015, 33, 1031-1036.	0.6	66
29	Change of outgassing pattern of 67P/Churyumov–Gerasimenko during the March 2016 equinox as seen by ROSINA. Monthly Notices of the Royal Astronomical Society, 2017, 469, S108-S117.	1.6	66
30	The calculation of Afi•and mass loss rate for comets. Icarus, 2012, 221, 721-734.	1.1	62
31	Revisiting cometary bow shock positions. Planetary and Space Science, 2013, 87, 85-95.	0.9	61
32	ORIGIN OF MOLECULAR OXYGEN IN COMET 67P/CHURYUMOV–GERASIMENKO. Astrophysical Journal Letters, 2016, 823, L41.	3.0	58
33	ALMA and ROSINA detections of phosphorus-bearing molecules: the interstellar thread between star-forming regions and comets. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1180-1198.	1.6	58
34	The surface distributions of the production of the major volatile species, H2O, CO2, CO and O2, from the nucleus of comet 67P/Churyumov-Gerasimenko throughout the Rosetta Mission as measured by the ROSINA double focusing mass spectrometer. Icarus, 2020, 335, 113421.	1.1	57
35	Plasma environment of a weak comet – Predictions for Comet 67P/Churyumov–Gerasimenko from multifluid-MHD and Hybrid models. Icarus, 2014, 242, 38-49.	1.1	56
36	MOLECULAR OXYGEN IN OORT CLOUD COMET 1P/HALLEY. Astrophysical Journal Letters, 2015, 815, L11.	3.0	55

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37	Evolution of water production of 67P/Churyumov-Gerasimenko: An empirical model and a multi-instrument study. Monthly Notices of the Royal Astronomical Society, 0, , stw2413.	1.6	54
38	Modelling observations of the inner gas and dust coma of comet 67P/Churyumov-Gerasimenko using ROSINA/COPS and OSIRIS data: First results. Astronomy and Astrophysics, 2016, 589, A90.	2.1	53
39	D <sub>2</sub> O and HDS in the coma of 67P/Churyumov–Gerasimenko. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160253.	1.6	53
40	Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. Science Advances, 2018, 4, eaar6297.	4.7	52
41	Diamagnetic region(s): structure of the unmagnetized plasma around Comet 67P/CG. Monthly Notices of the Royal Astronomical Society, 2017, 469, S372-S379.	1.6	51
42	Suprathermal electrons near the nucleus of comet 67P/Churyumovâ€Gerasimenko at 3 AU: Model comparisons with Rosetta data. Journal of Geophysical Research: Space Physics, 2016, 121, 5815-5836.	0.8	49
43	Modeling the heterogeneous ice and gas coma of Comet 103P/Hartley 2. Icarus, 2013, 225, 688-702.	1.1	48
44	Solar wind sputtering of dust on the surface of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A22.	2.1	47
45	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2016, 34, 1-15.	0.6	46
46	Statistical analysis of suprathermal electron drivers at 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S312-S322.	1.6	45
47	NARROW DUST JETS IN A DIFFUSE GAS COMA: A NATURAL PRODUCT OF SMALL ACTIVE REGIONS ON COMETS. Astrophysical Journal, 2012, 749, 29.	1.6	45
48	Selfâ€consistent multifluid MHD simulations of Europa's exospheric interaction with Jupiter's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 3503-3524.	0.8	44
49	Halogens as tracers of protosolar nebula material in comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1336-1345.	1.6	44
50	lon composition and chemistry in the coma of Comet 1P/Halley—A comparison between Giotto's Ion Mass Spectrometer and our ion-chemical network. Icarus, 2009, 199, 505-519.	1.1	43
51	ROSINA/DFMS and IES observations of 67P: Ion-neutral chemistry in the coma of a weakly outgassing comet. Astronomy and Astrophysics, 2015, 583, A2.	2.1	43
52	A PROTOSOLAR NEBULA ORIGIN FOR THE ICES AGGLOMERATED BY COMET 67P/CHURYUMOV–GERASIMENKC Astrophysical Journal Letters, 2016, 819, L33.	). 3.0	43
53	Understanding measured water rotational temperatures and column densities in the very innermost coma of Comet 73P/Schwassmann–Wachmann 3 B. Icarus, 2012, 221, 174-185.	1.1	42
54	On the Origin and Evolution of the Material in 67P/Churyumov-Gerasimenko. Space Science Reviews, 2020, 216, 102.	3.7	42

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55	Monte Carlo modeling of neutral gas and dust in the coma of Comet 1P/Halley. Icarus, 2011, 213, 655-677.	1.1	41
56	Vertical structure of the near-surface expanding ionosphere of comet 67P probed by Rosetta. Monthly Notices of the Royal Astronomical Society, 2017, 469, S118-S129.	1.6	39
57	Ion Velocity and Electron Temperature Inside and Around the Diamagnetic Cavity of Comet 67P. Journal of Geophysical Research: Space Physics, 2018, 123, 5870-5893.	0.8	39
58	Volatile Species in Comet 67P/Churyumov-Gerasimenko: Investigating the Link from the ISM to the Terrestrial Planets. ACS Earth and Space Chemistry, 2019, 3, 1792-1811.	1.2	39
59	The gas production of 14 species from comet 67P/Churyumov–Gerasimenko based on DFMS/COPS data from 2014 to 2016. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3995-4004.	1.6	39
60	The presence of clathrates in comet 67P/Churyumov-Gerasimenko. Science Advances, 2016, 2, e1501781.	4.7	38
61	Plasma source and loss at comet 67P during the Rosetta mission. Astronomy and Astrophysics, 2018, 618, A77.	2.1	38
62	Fourâ€fluid MHD simulations of the plasma and neutral gas environment of comet 67P/Churyumovâ€Gerasimenko near perihelion. Journal of Geophysical Research: Space Physics, 2016, 121, 4247-4268.	0.8	36
63	Towards a Global Unified Model of Europa's Tenuous Atmosphere. Space Science Reviews, 2018, 214, 1.	3.7	36
64	Aliphatic and aromatic hydrocarbons in comet 67P/Churyumov-Gerasimenko seen by ROSINA. Astronomy and Astrophysics, 2019, 630, A31.	2.1	36
65	lsotopic composition of CO <sub>2</sub> in the coma of 67P/Churyumov-Gerasimenko measured with ROSINA/DFMS. Astronomy and Astrophysics, 2017, 605, A50.	2.1	35
66	Seasonal changes of the volatile density in the coma and on the surface of comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S20-S28.	1.6	33
67	Surface localization of gas sources on comet 67P/Churyumov-Gerasimenko based on DFMS/COPS data. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	33
68	Kinetic modeling of sodium in the lunar exosphere. Icarus, 2013, 226, 1538-1549.	1.1	32
69	COMET 1P/HALLEY MULTIFLUID MHD MODEL FOR THE <i>GIOTTO</i> FLY-BY. Astrophysical Journal, 2014, 781, 86.	1.6	29
70	HIGH-TIME RESOLUTION IN SITU INVESTIGATION OF MAJOR COMETARY VOLATILES AROUND 67P/C–G AT 3.1–2.3 au MEASURED WITH ROSINA-RTOF. Astrophysical Journal, 2016, 819, 126.	1.6	29
71	The heterogeneous coma of comet 67P/Churyumov-Gerasimenko as seen by ROSINA: H <sub>2</sub> 0, CO <sub>2</sub> , and CO from September 2014 to February 2016. Astronomy and Astrophysics, 2017, 600, A77.	2.1	29
72	Effective ion speeds at â^¼200–250Âkm from comet 67P/Churyumov–Gerasimenko near perihelion. Monthly Notices of the Royal Astronomical Society, 2017, 469, S142-S148.	<sup>/</sup> 1.6	29

Martin Rubin

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73	Ion chemistry in the coma of comet 67P near perihelion. Monthly Notices of the Royal Astronomical Society, 2016, 462, S67-S77.	1.6	28
74	lon acoustic waves at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 600, A3.	2.1	28
75	lon composition at comet 67P near perihelion: Rosetta observations and model-based interpretation. Monthly Notices of the Royal Astronomical Society, 2017, 469, S427-S442.	1.6	28
76	Evidence for distributed gas sources of hydrogen halides in the coma of comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S695-S711.	1.6	27
77	The Castalia mission to Main Belt Comet 133P/Elst-Pizarro. Advances in Space Research, 2018, 62, 1947-1976.	1.2	27
78	The peculiar shapes of Saturn's small inner moons as evidence of mergers of similar-sized moonlets. Nature Astronomy, 2018, 2, 555-561.	4.2	27
79	Lower hybrid waves at comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S29-S38.	1.6	26
80	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 601, A123.	2.1	26
81	Cliffs versus plains: Can ROSINA/COPS and OSIRIS data of comet 67P/Churyumov-Gerasimenko in autumn 2014 constrain inhomogeneous outgassing?. Astronomy and Astrophysics, 2017, 605, A112.	2.1	26
82	Cold electrons at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2018, 616, A51.	2.1	24
83	Prestellar grain-surface origins of deuterated methanol in comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4901-4920.	1.6	24
84	PLASMA ENVIRONMENT AROUND COMET 67P/CHURYUMOV–GERASIMENKO AT PERIHELION: MODEL COMPARISON WITH <i>ROSETTA </i> DATA. Astronomical Journal, 2017, 153, 30.	1.9	23
85	<sup>16</sup> O/ <sup>18</sup> O ratio in water in the coma of comet 67P/Churyumov-Gerasimenko measured with the Rosetta/ROSINA double-focusing mass spectrometer. Astronomy and Astrophysics, 2019, 630, A29.	2.1	23
86	A â^¼32–70 K FORMATION TEMPERATURE RANGE FOR THE ICE GRAINS AGGLOMERATED BY COMET 67 P/CHURYUMOV–GERASIMENKO. Astrophysical Journal Letters, 2015, 805, L1.	3.0	22
87	Sensitivity and fragmentation calibration of the time-of-flight mass spectrometer RTOF on board ESA's Rosetta mission. Planetary and Space Science, 2017, 135, 64-73.	0.9	22
88	On the origin of molecular oxygen in cometary comae. Nature Communications, 2018, 9, 2580.	5.8	22
89	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2019, 630, A37.	2.1	21
90	Impact of a cometary outburst on its ionosphere. Astronomy and Astrophysics, 2017, 607, A34.	2.1	21

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91	Presolar Isotopic Signatures in Meteorites and Comets: New Insights from the Rosetta Mission to Comet 67P/Churyumov–Gerasimenko. Space Science Reviews, 2018, 214, 1.	3.7	20
92	CHO-Bearing Molecules in Comet 67P/Churyumov-Gerasimenko. ACS Earth and Space Chemistry, 2019, 3, 1854-1861.	1.2	20
93	A comparison of multiple Rosetta data sets and 3D model calculations of 67P/Churyumov-Gerasimenko coma around equinox (May 2015). Icarus, 2019, 328, 104-126.	1.1	20
94	Kelvinâ€Helmholtz instabilities at the magnetic cavity boundary of comet 67P/Churyumovâ€Gerasimenko. Journal of Geophysical Research, 2012, 117, .	3.3	19
95	MASS TRANSPORT AROUND COMETS AND ITS IMPACT ON THE SEASONAL DIFFERENCES IN WATER PRODUCTION RATES. Astrophysical Journal, 2014, 788, 168.	1.6	19
96	Impact of Radiogenic Heating on the Formation Conditions of Comet 67P/Churyumov–Gerasimenko. Astrophysical Journal Letters, 2017, 839, L4.	3.0	19
97	Plasma waves confined to the diamagnetic cavity of comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S84-S92.	1.6	19
98	Dynamic unmagnetized plasma in the diamagnetic cavity around comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4140-4147.	1.6	19
99	The Effect of Cosmic Rays on Cometary Nuclei. I. Dose Deposition. Astrophysical Journal, 2020, 890, 89.	1.6	18
100	Multiâ€Fluid MHD Simulations of Europa's Plasma Interaction Under Different Magnetospheric Conditions. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028888.	0.8	18
101	Modeled Interaction of Comet 67P/Churyumov-Gerasimenko with the Solar Wind Inside 2 AU. Earth, Moon and Planets, 2015, 116, 141-157.	0.3	17
102	In situ mass spectrometry during the Lutetia flyby. Planetary and Space Science, 2012, 66, 173-178.	0.9	16
103	Sulphur isotope mass-independent fractionation observed in comet 67P/Churyumov–Gerasimenko by Rosetta/ROSINA. Monthly Notices of the Royal Astronomical Society, 2017, 469, S787-S803.	1.6	16
104	High D/H ratios in water and alkanes in comet 67P/Churyumov-Gerasimenko measured with Rosetta/ROSINA DFMS. Astronomy and Astrophysics, 2022, 662, A69.	2.1	16
105	ROSINA/DFMS capabilities to measure isotopic ratios in water at comet 67P/Churyumov–Gerasimenko. Planetary and Space Science, 2013, 84, 148-152.	0.9	15
106	First in situ detection of the CN radical in comets and evidence for a distributed source. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2239-2248.	1.6	15
107	67P/Churyumov–Gerasimenko's dust activity from pre- to post-perihelion as detected by Rosetta/GIADA. Monthly Notices of the Royal Astronomical Society, 2020, 496, 125-137.	1.6	15
108	Identification and characterization of a new ensemble of cometary organic molecules. Nature Communications, 2022, 13, .	5.8	15

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109	ROSINA ion zoo at Comet 67P. Astronomy and Astrophysics, 2020, 642, A27.	2.1	14
110	Observations of a mix of cold and warm electrons by RPC-MIP at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2020, 640, A110.	2.1	14
111	Dynamics of non-spherical dust in the coma of 67P/Churyumov– Gerasimenko constrained by GIADA and ROSINA data. Monthly Notices of the Royal Astronomical Society, 2017, 469, S774-S786.	1.6	13
112	The near-nucleus gas coma of comet 67P/Churyumov-Gerasimenko prior to the descent of the surface lander PHILAE. Astronomy and Astrophysics, 2018, 618, A71.	2.1	13
113	A comparison between the two lobes of comet 67P/Churyumov–Gerasimenko based on D/H ratios in H2O measured with the Rosetta/ROSINA DFMS. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4734-4740.	1.6	13
114	Two years with comet 67P/Churyumov-Gerasimenko: H <sub>2</sub> 0, CO <sub>2</sub> , and CO as seen by the ROSINA/RTOF instrument of Rosetta. Astronomy and Astrophysics, 2019, 630, A33.	2.1	13
115	Molecule-dependent oxygen isotopic ratios in the coma of comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5855-5862.	1.6	13
116	Cyanogen, cyanoacetylene, and acetonitrile in comet 67P and their relation to the cyano radical. Astronomy and Astrophysics, 2021, 647, A22.	2.1	13
117	The Effect of Cosmic Rays on Cometary Nuclei. II. Impact on Ice Composition and Structure. Astrophysical Journal, 2020, 901, 136.	1.6	13
118	Higher order parametric excitation modes for spaceborne quadrupole mass spectrometers. Review of Scientific Instruments, 2011, 82, 125109.	0.6	12
119	3D Direct Simulation Monte Carlo Modelling of the Inner Gas Coma of Comet 67P/Churyumov–Gerasimenko: A Parameter Study. Earth, Moon and Planets, 2016, 117, 41-64.	0.3	12
120	Hall effect in the coma of 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2835-2841.	1.6	12
121	Threeâ€Dimensional Modeling of Callisto's Surface Sputtered Exosphere Environment. Journal of Geophysical Research: Space Physics, 2019, 124, 7157-7169.	0.8	12
122	Ammonium Salts as a Source of Small Molecules Observed with High-Resolution Electron-Impact Ionization Mass Spectrometry. Journal of Physical Chemistry A, 2019, 123, 5805-5814.	1.1	12
123	A NEW 3D MULTI-FLUID MODEL: A STUDY OF KINETIC EFFECTS AND VARIATIONS OF PHYSICAL CONDITIONS IN THE COMETARY COMA. Astrophysical Journal, 2016, 833, 160.	1.6	11
124	Plasma density structures at comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1296-1307.	1.6	11
125	Position-dependent microchannel plate gain correction in Rosetta's ROSINA/DFMS mass spectrometer. International Journal of Mass Spectrometry, 2019, 446, 116232.	0.7	11
126	Far-ultraviolet aurora identified at comet 67P/Churyumov-Gerasimenko. Nature Astronomy, 2020, 4, 1084-1091.	4.2	11

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127	Effect of the Tiger Stripes on the water vapor distribution in Enceladus' exosphere. Journal of Geophysical Research E: Planets, 2014, 119, 2658-2667.	1.5	10
128	Photochemistry of forbidden oxygen lines in the inner coma of 67P/Churyumovâ€Gerasimenko. Journal of Geophysical Research: Space Physics, 2016, 121, 804-816.	0.8	10
129	Comparing the performance of hyperbolic and circular rod quadrupole mass spectrometers with applied higher order auxiliary excitation. International Journal of Mass Spectrometry, 2012, 319-320, 17-24.	0.7	9
130	IN SITU PLASMA MEASUREMENTS OF FRAGMENTED COMET 73P SCHWASSMANN–WACHMANN 3. Astrophysical Journal, 2015, 815, 12.	1.6	9
131	The capabilities of ROSINA/DFMS to measure argon isotopes at comet 67P/Churyumov–Gerasimenko. Planetary and Space Science, 2015, 105, 175-178.	0.9	8
132	Comparison of neutral outgassing of comet 67P/Churyumov-Gerasimenko inbound and outbound beyond 3 AU from ROSINA/DFMS. Astronomy and Astrophysics, 2019, 630, A30.	2.1	8
133	The Evolution of the Electron Number Density in the Coma of Comet 67P at the Location of Rosetta from 2015 November through 2016 March. Astrophysical Journal, 2019, 881, 6.	1.6	7
134	Investigating the Rosetta/RTOF observations of comet 67P/Churyumov-Gerasimenko using a comet nucleus model: influence of dust mantle and trapped CO. Astronomy and Astrophysics, 2020, 638, A106.	2.1	7
135	Detection of volatiles undergoing sublimation from 67P/Churyumov-Gerasimenko coma particles using ROSINA/COPS. Astronomy and Astrophysics, 2021, 645, A38.	2.1	7
136	New constraints on the chemical composition and outgassing of 67P/Churyumov-Gerasimenko. Planetary and Space Science, 2021, 200, 105194.	0.9	7
137	Development of a low energy ion source for ROSINA ion mode calibration. Review of Scientific Instruments, 2006, 77, 103302.	0.6	6
138	THE PLASMA ENVIRONMENT IN COMETS OVER A WIDE RANGE OF HELIOCENTRIC DISTANCES: APPLICATION TO COMET C/2006 P1 (MCNAUGHT). Astrophysical Journal, 2015, 809, 156.	1.6	6
139	Correcting peak deformation in Rosetta's ROSINA/DFMS mass spectrometer. International Journal of Mass Spectrometry, 2015, 393, 41-51.	0.7	6
140	A possible mechanism for the formation of magnetic field dropouts in the coma of 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S468-S475.	1.6	6
141	First in-situ detection of the cometary ammonium ion NH\$_4^{+}\$ (protonated ammonia NH) Tj ETQq1 1 0.784 Society, 0, , stw3370.	314 rgBT 1.6	/Overlock 10 6
142	Multi-instrument analysis of far-ultraviolet aurora in the southern hemisphere of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2021, 647, A119.	2.1	6
143	Steepening of magnetosonic waves in the inner coma of comet 67P/Churyumov–Gerasimenko. Annales Geophysicae, 2021, 39, 721-742.	0.6	6
144	An underestimated onboard generated recoil force contributing to the Pioneer anomaly. Advances in Space Research, 2012, 49, 579-585.	1.2	5

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145	A New 3D Multi-fluid Dust Model: A Study of the Effects of Activity and Nucleus Rotation on Dust Grain Behavior at Comet 67P/Churyumov–Gerasimenko. Astrophysical Journal, 2017, 850, 72.	1.6	5
146	Two years of solar wind and pickup ion measurements at comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S262-S267.	1.6	5
147	Spacecraft outgassing, a largely underestimated phenomenon. , 2011, , .		4
148	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
149	Electron dynamics near diamagnetic regions of comet 67P/Churyumov- Gerasimenko. Planetary and Space Science, 2020, 187, 104924.	0.9	4
150	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2020, 640, C3.	2.1	4
151	The Ice Composition Close to the Surface of Comet 67P/Churyumov-Gerasimenko. ACS Earth and Space Chemistry, 2022, 6, 1189-1203.	1.2	4
152	Characterization of the gaseous spacecraft environment of Rosetta by ROSINA. , 2011, , .		3
153	Ionospheric total electron content of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2020, 635, A51.	2.1	3
154	Detection of volatiles undergoing sublimation from 67P/Churyumov-Gerasimenko coma particles using ROSINA/COPS. Astronomy and Astrophysics, 2021, 651, A26.	2.1	3
155	Cometary plasma science. Experimental Astronomy, 2022, 54, 1129-1167.	1.6	3
156	A Case for a Small to Negligible Influence of Dust Charging on the Ionization Balance in the Coma of Comet 67P. Planetary Science Journal, 2021, 2, 156.	1.5	3
157	Mass spectrometric characterization of the Rosetta Spacecraft contamination. Proceedings of SPIE, 2016, , .	0.8	2
158	Sample return of primitive matter from the outer Solar System. Experimental Astronomy, 0, , 1.	1.6	2
159	Enabling the Next Generation of Spaceborne Quadrupole Mass Spectrometers. , 2012, , .		1
160	2D photochemical model for forbidden oxygen line emission for comet 1P/Halley. Monthly Notices of the Royal Astronomical Society, 2016, 462, S116-S123.	1.6	1
161	Chlorine-bearing species and the 37Cl/35Cl isotope ratio in the coma of comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1020-1032.	1.6	1
162	Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2022, 658, A87.	2.1	1

#	Article	IF	CITATIONS
163	Kinetic simulation of neutralâ^ionized gas and electrically charged dust in the coma of comet 67Pâ^•Churyumov-Gerasimenko. , 2011, , .		Ο
164	The chemical connection between 67P/C-G and IRAS 16293-2422. Proceedings of the International Astronomical Union, 2017, 13, 196-201.	0.0	0
165	Observations of Modulation of Ion flux in the Coma of Comet 67P/Churyumovâ€Gerasimenko. Geophysical Research Letters, 0, , .	1.5	0