

Martin Rubin

List of Publications by Year in descending order

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165
papers

7,221
citations

57631

44
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66788

78
g-index

182
all docs

182
docs citations

182
times ranked

3668
citing authors

#	ARTICLE	IF	CITATIONS
1	Cometary plasma science. <i>Experimental Astronomy</i> , 2022, 54, 1129-1167.	1.6	3
2	Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2022, 658, A87.	2.1	1
3	High D/H ratios in water and alkanes in comet 67P/Churyumov-Gerasimenko measured with Rosetta/ROSINA DFMS. <i>Astronomy and Astrophysics</i> , 2022, 662, A69.	2.1	16
4	The Ice Composition Close to the Surface of Comet 67P/Churyumov-Gerasimenko. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1189-1203.	1.2	4
5	Identification and characterization of a new ensemble of cometary organic molecules. <i>Nature Communications</i> , 2022, 13, .	5.8	15
6	Detection of volatiles undergoing sublimation from 67P/Churyumov-Gerasimenko coma particles using ROSINA/COPS. <i>Astronomy and Astrophysics</i> , 2021, 645, A38.	2.1	7
7	Multi-instrument analysis of far-ultraviolet aurora in the southern hemisphere of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2021, 647, A119.	2.1	6
8	Cyanogen, cyanoacetylene, and acetonitrile in comet 67P and their relation to the cyano radical. <i>Astronomy and Astrophysics</i> , 2021, 647, A22.	2.1	13
9	Multi-Fluid MHD Simulations of Europa's Plasma Interaction Under Different Magnetospheric Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028888.	0.8	18
10	Chlorine-bearing species and the ³⁷ Cl/ ³⁵ Cl isotope ratio in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 1020-1032.	1.6	1
11	New constraints on the chemical composition and outgassing of 67P/Churyumov-Gerasimenko. <i>Planetary and Space Science</i> , 2021, 200, 105194.	0.9	7
12	Steepening of magnetosonic waves in the inner coma of comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2021, 39, 721-742.	0.6	6
13	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
14	A Case for a Small to Negligible Influence of Dust Charging on the Ionization Balance in the Coma of Comet 67P. <i>Planetary Science Journal</i> , 2021, 2, 156.	1.5	3
15	The surface distributions of the production of the major volatile species, H ₂ O, CO ₂ , CO and O ₂ , from the nucleus of comet 67P/Churyumov-Gerasimenko throughout the Rosetta Mission as measured by the ROSINA double focusing mass spectrometer. <i>Icarus</i> , 2020, 335, 113421.	1.1	57
16	On the Origin and Evolution of the Material in 67P/Churyumov-Gerasimenko. <i>Space Science Reviews</i> , 2020, 216, 102.	3.7	42
17	Far-ultraviolet aurora identified at comet 67P/Churyumov-Gerasimenko. <i>Nature Astronomy</i> , 2020, 4, 1084-1091.	4.2	11
18	Investigating the Rosetta/RTOF observations of comet 67P/Churyumov-Gerasimenko using a comet nucleus model: influence of dust mantle and trapped CO. <i>Astronomy and Astrophysics</i> , 2020, 638, A106.	2.1	7

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19	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
20	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
21	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
22	The Effect of Cosmic Rays on Cometary Nuclei. I. Dose Deposition. Astrophysical Journal, 2020, 890, 89.	1.6	18
23	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
24	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
25	Ionospheric total electron content of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2020, 635, A51.	2.1	3
26	Electron dynamics near diamagnetic regions of comet 67P/Churyumov-Gerasimenko. Planetary and Space Science, 2020, 187, 104924.	0.9	4
27	ROSINA ion zoo at Comet 67P. Astronomy and Astrophysics, 2020, 642, A27.	2.1	14
28	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
29	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
30	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
31	The Effect of Cosmic Rays on Cometary Nuclei. II. Impact on Ice Composition and Structure. Astrophysical Journal, 2020, 901, 136.	1.6	13
32	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2020, 640, C3.	2.1	4
33	CHO-Bearing Molecules in Comet 67P/Churyumov-Gerasimenko. ACS Earth and Space Chemistry, 2019, 3, 1854-1861.	1.2	20
34	Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 489, 594-607.	1.6	112
35	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
36	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

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37	Three-Dimensional Modeling of Callisto's Surface Sputtered Exosphere Environment. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7157-7169.	0.8	12
38	Aliphatic and aromatic hydrocarbons in comet 67P/Churyumov-Gerasimenko seen by ROSINA. <i>Astronomy and Astrophysics</i> , 2019, 630, A31.	2.1	36
39	Position-dependent microchannel plate gain correction in Rosetta's ROSINA/DFMS mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2019, 446, 116232.	0.7	11
40	Ingredients for solar-like systems: protostar IRAS 16293-2422 versus comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 50-79.	1.6	84
41	Calibration of parent and fragment ion detection rates in Rosetta's ROSINA/DFMS mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2019, 446, 116233.	0.7	4
42	A comparison between the two lobes of comet 67P/Churyumov-Gerasimenko based on D/H ratios in H ₂ O measured with the Rosetta/ROSINA DFMS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4734-4740.	1.6	13
43	Ammonium Salts as a Source of Small Molecules Observed with High-Resolution Electron-Impact Ionization Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5805-5814.	1.1	12
44	A comparison of multiple Rosetta data sets and 3D model calculations of 67P/Churyumov-Gerasimenko coma around equinox (May 2015). <i>Icarus</i> , 2019, 328, 104-126.	1.1	20
45	¹⁶ O/ ¹⁸ O ratio in water in the coma of comet 67P/Churyumov-Gerasimenko measured with the Rosetta/ROSINA double-focusing mass spectrometer. <i>Astronomy and Astrophysics</i> , 2019, 630, A29.	2.1	23
46	Two years with comet 67P/Churyumov-Gerasimenko: H ₂ O, CO ₂ , and CO as seen by the ROSINA/RTOF instrument of Rosetta. <i>Astronomy and Astrophysics</i> , 2019, 630, A33.	2.1	13
47	Comparison of neutral outgassing of comet 67P/Churyumov-Gerasimenko inbound and outbound beyond 3 AU from ROSINA/DFMS. <i>Astronomy and Astrophysics</i> , 2019, 630, A30.	2.1	8
48	Solar wind charge exchange in cometary atmospheres. <i>Astronomy and Astrophysics</i> , 2019, 630, A37.	2.1	21
49	Towards a Global Unified Model of Europa's Tenuous Atmosphere. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	36
50	Dynamic unmagnetized plasma in the diamagnetic cavity around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4140-4147.	1.6	19
51	Hall effect in the coma of 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2835-2841.	1.6	12
52	The Castalia mission to Main Belt Comet 133P/Elst-Pizarro. <i>Advances in Space Research</i> , 2018, 62, 1947-1976.	1.2	27
53	The near-nucleus gas coma of comet 67P/Churyumov-Gerasimenko prior to the descent of the surface lander PHILAE. <i>Astronomy and Astrophysics</i> , 2018, 618, A71.	2.1	13
54	Plasma density structures at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1296-1307.	1.6	11

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55	Plasma source and loss at comet 67P during the Rosetta mission. <i>Astronomy and Astrophysics</i> , 2018, 618, A77.	2.1	38
56	Presolar Isotopic Signatures in Meteorites and Comets: New Insights from the Rosetta Mission to Comet 67P/Churyumov-Gerasimenko. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	20
57	The peculiar shapes of Saturn's small inner moons as evidence of mergers of similar-sized moonlets. <i>Nature Astronomy</i> , 2018, 2, 555-561.	4.2	27
58	Ion Velocity and Electron Temperature Inside and Around the Diamagnetic Cavity of Comet 67P. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5870-5893.	0.8	39
59	On the origin of molecular oxygen in cometary comae. <i>Nature Communications</i> , 2018, 9, 2580.	5.8	22
60	Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2018, 4, eaar6297.	4.7	52
61	Cold electrons at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2018, 616, A51.	2.1	24
62	Sensitivity and fragmentation calibration of the time-of-flight mass spectrometer RTOF on board ESA's Rosetta mission. <i>Planetary and Space Science</i> , 2017, 135, 64-73.	0.9	22
63	PLASMA ENVIRONMENT AROUND COMET 67P/CHURYUMOV-GERASIMENKO AT PERIHELION: MODEL COMPARISON WITH ROSETTA DATA. <i>Astronomical Journal</i> , 2017, 153, 30.	1.9	23
64	Lower hybrid waves at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S29-S38.	1.6	26
65	The heterogeneous coma of comet 67P/Churyumov-Gerasimenko as seen by ROSINA: H ₂ O, CO ₂ , and CO from September 2014 to February 2016. <i>Astronomy and Astrophysics</i> , 2017, 600, A77.	2.1	29
66	Vertical structure of the near-surface expanding ionosphere of comet 67P probed by Rosetta. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S118-S129.	1.6	39
67	Change of outgassing pattern of 67P/Churyumov-Gerasimenko during the March 2016 equinox as seen by ROSINA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S108-S117.	1.6	66
68	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 601, A123.	2.1	26
69	Xenon isotopes in 67P/Churyumov-Gerasimenko show that comets contributed to Earth's atmosphere. <i>Science</i> , 2017, 356, 1069-1072.	6.0	161
70	D ₂ O and HDS in the coma of 67P/Churyumov-Gerasimenko. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160253.	1.6	53
71	Seasonal changes of the volatile density in the coma and on the surface of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S20-S28.	1.6	33
72	Organics in comet 67P – a first comparative analysis of mass spectra from ROSINA's DFMS, COSAC and Ptolemy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S130-S141.	1.6	153

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73	Effective ion speeds at $\approx 1/4$ 200 \approx 250 Åkm from comet 67P/Churyumov-Gerasimenko near perihelion. Monthly Notices of the Royal Astronomical Society, 2017, 469, S142-S148.	1.6	29
74	Ion acoustic waves at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 600, A3.	2.1	28
75	Impact of Radiogenic Heating on the Formation Conditions of Comet 67P/Churyumov-Gerasimenko. Astrophysical Journal Letters, 2017, 839, L4.	3.0	19
76	Protostellar and cometary detections of organohalogens. Nature Astronomy, 2017, 1, 703-708.	4.2	89
77	Isotopic composition of CO ₂ in the coma of 67P/Churyumov-Gerasimenko measured with ROSINA/DFMS. Astronomy and Astrophysics, 2017, 605, A50.	2.1	35
78	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
79	Ion 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
80	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
81	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
82	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
83	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
84	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
85	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
86	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
87	The chemical connection between 67P/C-G and IRAS 16293-2422. Proceedings of the International Astronomical Union, 2017, 13, 196-201.	0.0	0
88	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
89	Impact of a cometary outburst on its ionosphere. Astronomy and Astrophysics, 2017, 607, A34.	2.1	21
90	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2016, 34, 1-15.	0.6	46

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91	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. <i>Astronomy and Astrophysics</i> , 2016, 588, A134.	2.1	88
92	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 588, A24.	2.1	95
93	A possible mechanism for the formation of magnetic field dropouts in the coma of 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S468-S475.	1.6	6
94	A NEW 3D MULTI-FLUID MODEL: A STUDY OF KINETIC EFFECTS AND VARIATIONS OF PHYSICAL CONDITIONS IN THE COMETARY COMA. <i>Astrophysical Journal</i> , 2016, 833, 160.	1.6	11
95	Modelling observations of the inner gas and dust coma of comet 67P/Churyumov-Gerasimenko using ROSINA/COPS and OSIRIS data: First results. <i>Astronomy and Astrophysics</i> , 2016, 589, A90.	2.1	53
96	Four-fluid MHD simulations of the plasma and neutral gas environment of comet 67P/Churyumov-Gerasimenko near perihelion. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4247-4268.	0.8	36
97	Direct Simulation Monte Carlo modelling of the major species in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S156-S169.	1.6	87
98	Mass spectrometric characterization of the Rosetta Spacecraft contamination. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
99	Ion chemistry in the coma of comet 67P near perihelion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S67-S77.	1.6	28
100	Suprathermal electrons near the nucleus of comet 67P/Churyumov-Gerasimenko at 3 AU: Model comparisons with Rosetta data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5815-5836.	0.8	49
101	2D photochemical model for forbidden oxygen line emission for comet 1P/Halley. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S116-S123.	1.6	1
102	Statistical analysis of suprathermal electron drivers at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S312-S322.	1.6	45
103	Sulphur-bearing species in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S253-S273.	1.6	137
104	Ionospheric plasma of comet 67P probed by Rosetta at 3 AU from the Sun. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S331-S351.	1.6	75
105	Prebiotic chemicals—amino acid and phosphorus—in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2016, 2, e1600285.	4.7	393
106	The presence of clathrates in comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2016, 2, e1501781.	4.7	38
107	Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S459-S467.	1.6	79
108	3D Direct Simulation Monte Carlo Modelling of the Inner Gas Coma of Comet 67P/Churyumov-Gerasimenko: A Parameter Study. <i>Earth, Moon and Planets</i> , 2016, 117, 41-64.	0.3	12

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109	ORIGIN OF MOLECULAR OXYGEN IN COMET 67P/CHURYUMOVâ€™GERASIMENKO. <i>Astrophysical Journal Letters</i> , 2016, 823, L41.	3.0	58
110	Origins of volatile elements (H, C, N, noble gases) on Earth and Mars in light of recent results from the ROSETTA cometary mission. <i>Earth and Planetary Science Letters</i> , 2016, 441, 91-102.	1.8	143
111	Photochemistry of forbidden oxygen lines in the inner coma of 67P/Churyumovâ€™Gerasimenko. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 804-816.	0.8	10
112	HIGH-TIME RESOLUTION IN SITU INVESTIGATION OF MAJOR COMETARY VOLATILES AROUND 67P/Câ€™G AT 3.1â€™2.3 au MEASURED WITH ROSINA-RTOF. <i>Astrophysical Journal</i> , 2016, 819, 126.	1.6	29
113	A PROTOSOLAR NEBULA ORIGIN FOR THE ICES AGGLOMERATED BY COMET 67P/CHURYUMOVâ€™GERASIMENKO. <i>Astrophysical Journal Letters</i> , 2016, 819, L33.	3.0	43
114	Spatial distribution of lowâ€™energy plasma around comet 67P/CG from Rosetta measurements. <i>Geophysical Research Letters</i> , 2015, 42, 4263-4269.	1.5	74
115	Solar wind sputtering of dust on the surface of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A22.	2.1	47
116	Composition-dependent outgassing of comet 67P/Churyumov-Gerasimenko from ROSINA/DFMS. <i>Astronomy and Astrophysics</i> , 2015, 583, A4.	2.1	67
117	Selfâ€™consistent multifluid MHD simulations of Europa's exospheric interaction with Jupiter's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3503-3524.	0.8	44
118	Detection of argon in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2015, 1, e1500377.	4.7	87
119	Inventory of the volatiles on comet 67P/Churyumov-Gerasimenko from Rosetta/ROSINA. <i>Astronomy and Astrophysics</i> , 2015, 583, A1.	2.1	265
120	IN SITU PLASMA MEASUREMENTS OF FRAGMENTED COMET 73P SCHWASSMANNâ€™WACHMANN 3. <i>Astrophysical Journal</i> , 2015, 815, 12.	1.6	9
121	THE PLASMA ENVIRONMENT IN COMETS OVER A WIDE RANGE OF HELIOCENTRIC DISTANCES: APPLICATION TO COMET C/2006 P1 (MCNAUGHT). <i>Astrophysical Journal</i> , 2015, 809, 156.	1.6	6
122	ROSINA/DFMS and IES observations of 67P: Ion-neutral chemistry in the coma of a weakly outgassing comet. <i>Astronomy and Astrophysics</i> , 2015, 583, A2.	2.1	43
123	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2015, 33, 1031-1036.	0.6	66
124	A ~ 70 K FORMATION TEMPERATURE RANGE FOR THE ICE GRAINS AGGLOMERATED BY COMET 67P/CHURYUMOVâ€™GERASIMENKO. <i>Astrophysical Journal Letters</i> , 2015, 805, L1.	3.0	22
125	MOLECULAR OXYGEN IN OORT CLOUD COMET 1P/HALLEY. <i>Astrophysical Journal Letters</i> , 2015, 815, L11.	3.0	55
126	Comparison of 3D kinetic and hydrodynamic models to ROSINA-COPS measurements of the neutral coma of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A7.	2.1	93

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127	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
128	Correcting peak deformation in Rosetta's ROSINA/DFMS mass spectrometer. International Journal of Mass Spectrometry, 2015, 393, 41-51.	0.7	6
129	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	6.0	107
130	Time variability and heterogeneity in the coma of 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0276.	6.0	222
131	Molecular nitrogen in comet 67P/Churyumov-Gerasimenko indicates a low formation temperature. Science, 2015, 348, 232-235.	6.0	195
132	Abundant molecular oxygen in the coma of comet 67P/Churyumov-Gerasimenko. Nature, 2015, 526, 678-681.	13.7	260
133	67P/Churyumov-Gerasimenko, a Jupiter family comet with a high D/H ratio. Science, 2015, 347, 1261952.	6.0	403
134	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
135	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
136	MASS TRANSPORT AROUND COMETS AND ITS IMPACT ON THE SEASONAL DIFFERENCES IN WATER PRODUCTION RATES. Astrophysical Journal, 2014, 788, 168.	1.6	19
137	COMET 1P/HALLEY MULTIFLUID MHD MODEL FOR THE <i>GIOTTO</i> FLY-BY. Astrophysical Journal, 2014, 781, 86.	1.6	29
138	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
139	Kinetic modeling of sodium in the lunar exosphere. Icarus, 2013, 226, 1538-1549.	1.1	32
140	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
141	Revisiting cometary bow shock positions. Planetary and Space Science, 2013, 87, 85-95.	0.9	61
142	Modeling the heterogeneous ice and gas coma of Comet 103P/Hartley 2. Icarus, 2013, 225, 688-702.	1.1	48
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