

Baptiste Ceconi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1396641/publications.pdf>

Version: 2024-02-01

142
papers

4,073
citations

101384

36
h-index

138251

58
g-index

174
all docs

174
docs citations

174
times ranked

2302
citing authors

#	ARTICLE	IF	CITATIONS
1	S/WAVES: The Radio and Plasma Wave Investigation on the STEREO Mission. <i>Space Science Reviews</i> , 2008, 136, 487-528.	3.7	313
2	Radio and Plasma Wave Observations at Saturn from Cassini's Approach and First Orbit. <i>Science</i> , 2005, 307, 1255-1259.	6.0	236
3	Response of Jupiter's and Saturn's auroral activity to the solar wind. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	161
4	Jupiter's low-frequency radio spectrum from Cassini/Radio and Plasma Wave Science (RPWS) absolute flux density measurements. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	143
5	The Electric Antennas for the STEREO/WAVES Experiment. <i>Space Science Reviews</i> , 2008, 136, 529-547.	3.7	107
6	An Earth-like correspondence between Saturn's auroral features and radio emission. <i>Nature</i> , 2005, 433, 722-725.	13.7	104
7	Saturn kilometric radiation: Average and statistical properties. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	98
8	Direction finding and antenna calibration through analytical inversion of radio measurements performed using a system of two or three electric dipole antennas on a three-axis stabilized spacecraft. <i>Radio Science</i> , 2005, 40, n/a-n/a.	0.8	90
9	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. <i>Astronomy and Astrophysics</i> , 2020, 642, A12.	2.1	80
10	Properties of Saturn kilometric radiation measured within its source region. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	74
11	Modulation of Saturn's radio clock by solar wind speed. <i>Nature</i> , 2007, 450, 265-267.	13.7	70
12	Planetary and exoplanetary low frequency radio observations from the Moon. <i>Planetary and Space Science</i> , 2012, 74, 156-166.	0.9	68
13	Quasi thermal noise spectroscopy in the inner magnetosphere of Saturn with Cassini/RPWS: Electron temperatures and density. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	67
14	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	2.1	67
15	An auroral oval at the footprint of Saturn's kilometric radio sources, colocated with the UV aurorae. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	65
16	Multipoint Observations of Solar Type III Radio Bursts from STEREO and Wind. <i>Solar Physics</i> , 2009, 259, 255-276.	1.0	62
17	Magnetospheric period magnetic field oscillations at Saturn: Equatorial phase "jitter" produced by superposition of southern and northern period oscillations. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	62
18	Modeling of Jupiter decameter arcs, emission beaming and energy source. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	61

#	ARTICLE	IF	CITATIONS
19	Saturn lightning recorded by Cassini/RPWS in 2004. <i>Icarus</i> , 2006, 183, 135-152.	1.1	57
20	On the character and distribution of lower-frequency radio emissions at Saturn and their relationship to substorm-like events. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	57
21	Variation of Saturn's UV aurora with SKR phase. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	57
22	TRACKING THE CME-DRIVEN SHOCK WAVE ON 2012 MARCH 5 AND RADIO TRIANGULATION OF ASSOCIATED RADIO EMISSION. <i>Astrophysical Journal</i> , 2014, 791, 115.	1.6	53
23	Models and data analysis tools for the Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2020, 642, A2.	2.1	53
24	Modeling of Saturn kilometric radiation arcs and equatorial shadow zone. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	52
25	Farside explorer: unique science from a mission to the farside of the moon. <i>Experimental Astronomy</i> , 2012, 33, 529-585.	1.6	52
26	Earth-based detection of Uranus' aurorae. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	51
27	Emission and propagation of Saturn kilometric radiation: Magnetoionic modes, beaming pattern, and polarization state. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	49
28	The search for radio emission from the exoplanetary systems 55 Cancri, <i>Andromedae</i> , and <i>Boötis</i> using LOFAR beam-formed observations. <i>Astronomy and Astrophysics</i> , 2021, 645, A59.	2.1	49
29	Goniopolarimetric study of the revolution 29 perikrone using the Cassini Radio and Plasma Wave Science instrument high-frequency radio receiver. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	47
30	Planetary period oscillations in Saturn's magnetosphere: Evidence in magnetic field phase data for rotational modulation of Saturn kilometric radiation emissions. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	44
31	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012, 33, 753-791.	1.6	44
32	Model of a variable radio period for Saturn. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	43
33	Observation of similar radio signatures at Saturn and Jupiter: Implications for the magnetospheric dynamics. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	41
34	In-flight calibration of the Cassini-Radio and Plasma Wave Science (RPWS) antenna system for direction-finding and polarization measurements. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	39
35	Source locations of narrowband radio emissions detected at Saturn. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	38
36	OSS (Outer Solar System): a fundamental and planetary physics mission to Neptune, Triton and the Kuiper Belt. <i>Experimental Astronomy</i> , 2012, 34, 203-242.	1.6	37

#	ARTICLE	IF	CITATIONS
37	Elliptical polarization of Saturn Kilometric Radiation observed from high latitudes. Journal of Geophysical Research, 2009, 114, .	3.3	36
38	Lead angles and emitting electron energies of lo-controlled decameter radio arcs. Planetary and Space Science, 2010, 58, 1188-1198.	0.9	36
39	Relationship between solar wind corotating interaction regions and the phasing and intensity of Saturn kilometric radiation bursts. Annales Geophysicae, 2008, 26, 3641-3651.	0.6	35
40	Auroral electron distributions within and close to the Saturn kilometric radiation source region. Journal of Geophysical Research, 2011, 116, .	3.3	35
41	Natural radio emission of Jupiter as interferences for radar investigations of the icy satellites of Jupiter. Planetary and Space Science, 2012, 61, 32-45.	0.9	35
42	Interplanetary conditions and magnetospheric dynamics during the Cassini orbit insertion fly-through of Saturn's magnetosphere. Journal of Geophysical Research, 2005, 110, .	3.3	33
43	STEREO/Waves Goniopolarimetry. Space Science Reviews, 2008, 136, 549-563.	3.7	33
44	CMI growth rates for Saturnian kilometric radiation. Geophysical Research Letters, 2010, 37, .	1.5	33
45	Extraordinary field-aligned current signatures in Saturn's high-latitude magnetosphere: Analysis of Cassini data during Revolution 89. Journal of Geophysical Research, 2010, 115, .	3.3	31
46	Z mode waves as the source of Saturn narrowband radio emissions. Journal of Geophysical Research, 2010, 115, .	3.3	30
47	Simultaneous observations of Jovian quasi-periodic radio emissions by the Galileo and Cassini spacecraft. Journal of Geophysical Research, 2004, 109, .	3.3	29
48	Statistical Survey of Type III Radio Bursts at Long Wavelengths Observed by the Solar TERrestrial Relations Observatory (STEREO)/Waves Instruments: Radio Flux Density Variations with Frequency. Solar Physics, 2014, 289, 3121-3135.	1.0	29
49	Long-term modulations of Saturn's auroral radio emissions by the solar wind and seasonal variations controlled by the solar ultraviolet flux. Journal of Geophysical Research: Space Physics, 2013, 118, 7019-7035.	0.8	28
50	VESPA: A community-driven Virtual Observatory in Planetary Science. Planetary and Space Science, 2018, 150, 65-85.	0.9	28
51	Jupiter radio emission induced by Ganymede and consequences for the radio detection of exoplanets. Astronomy and Astrophysics, 2018, 618, A84.	2.1	27
52	ExPRES: an Exoplanetary and Planetary Radio Emissions Simulator. Astronomy and Astrophysics, 2019, 627, A30.	2.1	26
53	Goniopolarimetric inversion using SVD: An application to type III radio bursts observed by STEREO. Journal of Geophysical Research, 2012, 117, .	3.3	25
54	The Planetary Virtual Observatory and Laboratory (PVOL) and its integration into the Virtual European Solar and Planetary Access (VESPA). Planetary and Space Science, 2018, 150, 22-35.	0.9	25

#	ARTICLE	IF	CITATIONS
55	Saturn's Northern Aurorae at Solstice From HST Observations Coordinated With Cassini's Grand Finale. <i>Geophysical Research Letters</i> , 2018, 45, 9353-9362.	1.5	24
56	Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. <i>Planetary and Space Science</i> , 2021, 201, 105214.	0.9	24
57	Ground-based and spacecraft observations of lightning activity on Saturn. <i>Planetary and Space Science</i> , 2012, 61, 53-59.	0.9	23
58	Jupiter decametric arcs observed by Juno/Waves compared to ExPRES simulations. <i>Geophysical Research Letters</i> , 2017, 44, 9225-9232.	1.5	22
59	The low-frequency source of Saturn's kilometric radiation. <i>Science</i> , 2018, 362, .	6.0	22
60	Statistical Survey of Type III Radio Bursts at Long Wavelengths Observed by the Solar Terrestrial Relations Observatory (STEREO)/Waves Instruments: Goniopolarimetric Properties and Radio Source Locations. <i>Solar Physics</i> , 2014, 289, 4633-4652.	1.0	21
61	Fast and slow frequency-drifting millisecond bursts in Jovian decametric radio emissions. <i>Astronomy and Astrophysics</i> , 2014, 568, A53.	2.1	21
62	FROM LARGE-SCALE LOOPS TO THE SITES OF DENSE FLARING LOOPS: PREFERENTIAL CONDITIONS FOR LONG-PERIOD PULSATIONS IN SOLAR FLARES. <i>Astrophysical Journal</i> , 2010, 719, 151-165.	1.6	20
63	The EPN-TAP protocol for the Planetary Science Virtual Observatory. <i>Astronomy and Computing</i> , 2014, 7-8, 52-61.	0.8	20
64	Detection of Jupiter decametric emissions controlled by Europa and Ganymede with Voyager/PRA and Cassini/RPWS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9228-9247.	0.8	20
65	Auroral kilometric radiation diurnal, semidiurnal, and shorter-term modulations disentangled by Cassini. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
66	NenUFAR: Instrument description and science case. , 2015, , .		18
67	Science data visualization in planetary and heliospheric contexts with 3DView. <i>Planetary and Space Science</i> , 2018, 150, 111-130.	0.9	18
68	The SPASE Data Model: A Metadata Standard for Registering, Finding, Accessing, and Using Heliophysics Data Obtained From Observations and Modeling. <i>Space Weather</i> , 2018, 16, 1899-1911.	1.3	18
69	Influence of an extended source on goniopolarimetry (or direction finding) with Cassini and Solar Terrestrial Relations Observatory radio receivers. <i>Radio Science</i> , 2007, 42, n/a-n/a.	0.8	17
70	Search for Saturn's X-ray aurorae at the arrival of a solar wind shock. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2145-2156.	0.8	17
71	High spectral and temporal resolution observations of Saturn kilometric radiation. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	16
72	Linear prediction studies for the solar wind and Saturn kilometric radiation. <i>Annales Geophysicae</i> , 2006, 24, 3139-3150.	0.6	15

#	ARTICLE	IF	CITATIONS
73	Discovering the sky at the Longest Wavelengths (DSL). , 2016, , .		15
74	AMDA, Automated Multi-Dataset Analysis: A Web-Based Service Provided by the CDDP. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 239-247.	0.3	15
75	A nightside source of Saturn's kilometric radiation: Evidence for an inner magnetosphere energy driver. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	13
76	Virtual Planetary Space Weather Services offered by the Europlanet H2020 Research Infrastructure. Planetary and Space Science, 2018, 150, 50-59.	0.9	13
77	Source mechanism of Saturn narrowband emission. Annales Geophysicae, 2010, 28, 1013-1021.	0.6	12
78	Simulations of radio-wave anisotropic scattering to interpret type III radio burst data from Solar Orbiter, Parker Solar Probe, STEREO, and Wind. Astronomy and Astrophysics, 2021, 656, A34.	2.1	12
79	Dual-frequency single-pulse study of PSR B0950+08. Astronomy and Astrophysics, 2022, 658, A143.	2.1	12
80	Space Weather applications with CDDP/AMDA. Advances in Space Research, 2010, 45, 1145-1155.	1.2	11
81	NOIRE study report: Towards a low frequency radio interferometer in space. , 2018, , .		11
82	Planetary Science Virtual Observatory architecture. Astronomy and Computing, 2014, 7-8, 71-80.	0.8	10
83	Survey of Saturn electrostatic cyclotron harmonic wave intensity. Journal of Geophysical Research: Space Physics, 2017, 122, 8214-8227.	0.8	10
84	HAPI: An API Standard for Accessing Heliophysics Time Series Data. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	10
85	Studying Sunâ€™Planet Connections Using the Heliophysics Integrated Observatory (HELIO). Solar Physics, 2012, 280, 603-621.	1.0	9
86	Alfvén: magnetosphereâ€™ionosphere connection explorers. Experimental Astronomy, 2012, 33, 445-489.	1.6	9
87	Pulsars with NenuFAR: Backend and pipelines. Astronomy and Astrophysics, 2021, 652, A34.	2.1	9
88	A broad-band radio study of PSR J0250+5854: the slowest spinning radio pulsar known. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1102-1114.	1.6	9
89	Latitudinal Beaming of Jupiter's Radio Emissions From Juno/Waves Flux Density Measurements. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029435.	0.8	9
90	Observations of Shock Propagation through Turbulent Plasma in the Solar Corona. Astrophysical Journal, 2021, 921, 3.	1.6	9

#	ARTICLE	IF	CITATIONS
91	First observations and performance of the RPW instrument on board the Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2021, 656, A41.	2.1	9
92	Wind/WAVES Observations of Auroral Kilometric Radiation: Automated Burst Detection and Terrestrial Solar Wind â€•Magnetosphere Coupling Effects. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	9
93	Daily variations of auroral kilometric radiation observed by STEREO. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	8
94	Description, accessibility and usage of SOIR/Venus Express atmospheric profiles of Venus distributed in VESPA (Virtual European Solar and Planetary Access). <i>Planetary and Space Science</i> , 2018, 150, 60-64.	0.9	8
95	Statistical Study on Spatial Distribution and Polarization of Saturn Narrowband Emissions. <i>Astrophysical Journal</i> , 2021, 918, 64.	1.6	8
96	STEREO database of interplanetary Langmuir electric waveforms. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1062-1070.	0.8	7
97	Virtual European Solar & Planetary Access (VESPA): A Planetary Science Virtual Observatory Cornerstone. <i>Data Science Journal</i> , 2020, 19, .	0.6	7
98	Determining the Beaming of Io Decametric Emissions: A Remote Diagnostic to Probe the Ioâ€•Jupiter Interaction. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	7
99	Joining the yellow hub: Uses of the Simple Application Messaging Protocol in Space Physics analysis tools. <i>Astronomy and Computing</i> , 2014, 7-8, 62-70.	0.8	6
100	Meeting the Magnetic EMC Challenges for the In-Situ Field Measurements on the Juice Mission. , 2019, , .		6
101	Jupiter's Auroral Radio Emissions Observed by Cassini: Rotational Versus Solar Wind Control, and Components Identification. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029780.	0.8	6
102	Polarization and direction of arrival of Jovian quasiperiodic bursts observed by Cassini. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	5
103	Mars Crater Database: A participative project for the classification of the morphological characteristics of large Martian craters. , 2021, , 629-644.		5
104	Solar Orbiter/RPW antenna calibration in the radio domain and its application to type III burst observations. <i>Astronomy and Astrophysics</i> , 2021, 656, A33.	2.1	5
105	Facilitating reuse of planetary spatial research data â€• Conceptualizing an open map repository as part of a Planetary Research Data Infrastructure. <i>Planetary and Space Science</i> , 2021, 204, 105269.	0.9	5
106	Empirical Selection of Auroral Kilometric Radiation During a Multipoint Remote Observation With Wind and Cassini. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029425.	0.8	5
107	Spectral Analysis of Solar Radio Type III Bursts from 20 kHz to 410 MHz. <i>Astrophysical Journal</i> , 2022, 924, 58.	1.6	5
108	The influence of Titan on Saturn kilometric radiation. <i>Annales Geophysicae</i> , 2010, 28, 395-406.	0.6	4

#	ARTICLE	IF	CITATIONS
109	In-flight calibration of STEREO/WAVES antenna system. <i>Radio Science</i> , 2014, 49, 146-156.	0.8	4
110	Goniopolarimetry: Space-borne radio astronomy with imaging capabilities. <i>Comptes Rendus Physique</i> , 2014, 15, 441-447.	0.3	4
111	MASER: A Science Ready Toolbox for Low Frequency Radio Astronomy. <i>Data Science Journal</i> , 2020, 19, .	0.6	4
112	The apparent source size of type III radio bursts: Preliminary results by the STEREO/WAVES instruments. , 2010, , .		3
113	Enabling interoperability in planetary sciences and heliophysics: The case for an information model. <i>Planetary and Space Science</i> , 2018, 150, 43-49.	0.9	3
114	Seasonal variation of north-south asymmetry in the intensity of Saturn Kilometric Radiation from 2004 to 2017. <i>Planetary and Space Science</i> , 2019, 178, 104711.	0.9	3
115	Measuring the Earth's Synchrotron Emission From Radiation Belts With a Lunar Near Side Radio Array. <i>Radio Science</i> , 2020, 55, e2019RS006891.	0.8	3
116	Comment on "Locating the source field lines of Jovian decametric radio emissions" by YuMing Wang et al.. <i>Earth and Planetary Physics</i> , 2022, 6, 10-12.	0.4	3
117	Reflection and Refraction of the L Mode 5 kHz Saturn Narrowband Emission by the Magnetosheath. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	3
118	Comment on "Spectral features of SKR observed by Cassini/RPWS: Frequency bandwidth, flux density and polarization" by Patrick Galopeau et al.. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	2
119	Compressive Sampling for Efficient Astrophysical Signals Digitizing: From Compressibility Study to Data Recovery. <i>Journal of Astronomical Instrumentation</i> , 2016, 05, .	0.8	2
120	Compressed sensing for astrophysical signals. , 2016, , .		2
121	TREPS, a tool for coordinate and time transformations in space physics. <i>Planetary and Space Science</i> , 2018, 150, 86-90.	0.9	2
122	FITS Format for Planetary Surfaces: Definitions, Applications, and Best Practices. <i>Earth and Space Science</i> , 2018, 5, 640-651.	1.1	2
123	S/WAVES: The Radio and Plasma Wave Investigation on the STEREO Mission. , 2008, , 487-528.		2
124	The Electric Antennas for the STEREO/WAVES Experiment. , 2008, , 529-547.		2
125	Jovian auroral radio source occultation modelling and application to the JUICE science mission planning. <i>Planetary and Space Science</i> , 2021, 209, 105344.	0.9	2
126	The Solar Orbiter Radio and Plasma Waves (RPW) instrument (Corrigendum). <i>Astronomy and Astrophysics</i> , 2021, 654, C2.	2.1	2

#	ARTICLE	IF	CITATIONS
127	Effect of an Interplanetary Coronal Mass Ejection on Saturn's Radio Emission. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	2
128	Correction to "An auroral oval at the footprint of Saturn's kilometric radio sources, colocated with the UV aurorae". <i>Journal of Geophysical Research</i> , 2009, 114, n/a-n/a.	3.3	1
129	The Heliophysics Feature Catalogue, a tool for the study of solar features. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 512-514.	0.0	1
130	A high dynamic range stacked ADCs receiver for long wavelength radio astronomy observations. , 2014, , .		1
131	Bridging the Gap Between Geographical Information Systems and Planetary Virtual Observatory. <i>Earth and Space Science</i> , 2019, 6, 515-526.	1.1	1
132	Calibration of the JUICE RWI antennas by numerical simulation. <i>Radio Science</i> , 2021, 56, e2021RS007309.	0.8	1
133	Statistical Survey of Type III Radio Bursts at Long Wavelengths Observed by the Solar Terrestrial Relations Observatory (STEREO)/Waves Instruments: Radio Flux Density Variations with Frequency. , 2014, , 499-513.		1
134	Pilot Study and Early Results of the Cosmic Filaments and Magnetism Survey with Nenufar: The Coma Cluster Field. <i>Galaxies</i> , 2021, 9, 105.	1.1	1
135	Performances of the Passive SAR Imaging of Jupiter's Icy Moons. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	2.7	1
136	Saturn's radio clock. <i>Astronomy and Geophysics</i> , 2008, 49, 4.13-4.15.	0.1	0
137	Correction to "Influence of an extended source on goniopolarimetry (or direction finding) with Cassini and Solar Terrestrial Relations Observatory radio receivers". <i>Radio Science</i> , 2010, 45, n/a-n/a.	0.8	0
138	Ground-based and space observations of planetary thunderstorm activity. , 2010, , .		0
139	A CMOS 65nm 120 dB Stacked A/D converters receiver for long wavelength radio astronomy observations. , 2016, , .		0
140	The Faraday rotation effect in Saturn Kilometric Radiation observed by the CASSINI spacecraft. <i>Icarus</i> , 2021, 370, 114661.	1.1	0
141	Jovian Radio Emissions Modeling and their Future Investigation with EJSM (invited; abstract). , 0, , .		0
142	STEREO/Waves Goniopolarimetry. , 2008, , 549-563.		0