

Cesar Bertucci

List of Publications by Year in descending order

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79
papers

3,364
citations

117625

34
h-index

149698

56
g-index

85
all docs

85
docs citations

85
times ranked

1522
citing authors

#	ARTICLE	IF	CITATIONS
1	The plasma Environment of Mars. <i>Space Science Reviews</i> , 2004, 111, 33-114.	8.1	261
2	Cassini Magnetometer Observations During Saturn Orbit Insertion. <i>Science</i> , 2005, 307, 1266-1270.	12.6	211
3	Martian shock and magnetic pile-up boundary positions and shapes determined from the Phobos 2 and Mars Global Surveyor data sets. <i>Planetary and Space Science</i> , 2006, 54, 357-369.	1.7	177
4	Titan's Magnetic Field Signature During the First Cassini Encounter. <i>Science</i> , 2005, 308, 992-995.	12.6	133
5	Bow Shock and Upstream Phenomena at Mars. <i>Space Science Reviews</i> , 2004, 111, 115-181.	8.1	129
6	The Magnetic Memory of Titan's Ionized Atmosphere. <i>Science</i> , 2008, 321, 1475-1478.	12.6	119
7	The Induced Magnetospheres of Mars, Venus, and Titan. <i>Space Science Reviews</i> , 2011, 162, 113-171.	8.1	111
8	Magnetic field draping enhancement at the Martian magnetic pileup boundary from Mars global surveyor observations. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	89
9	Large-scale dynamics of Saturn's magnetopause: Observations by Cassini. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	86
10	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	82
11	On magnetospheric electron impact ionisation and dynamics in Titan's ram-side and polar ionosphere – a Cassini case study. <i>Annales Geophysicae</i> , 2007, 25, 2359-2369.	1.6	78
12	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
13	Surface waves on Saturn's dawn flank magnetopause driven by the Kelvin-Helmholtz instability. <i>Planetary and Space Science</i> , 2009, 57, 1769-1778.	1.7	68
14	Titan's highly dynamic magnetic environment: A systematic survey of Cassini magnetometer observations from flybys TA–T62. <i>Planetary and Space Science</i> , 2010, 58, 1230-1251.	1.7	68
15	Mars Global Surveyor Observations of Solar Wind Magnetic Field Draping Around Mars. <i>Space Science Reviews</i> , 2004, 111, 203-221.	8.1	67
16	Ion cyclotron waves in Saturn's E ring: Initial Cassini observations. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	65
17	Structure of the magnetic pileup boundary at Mars and Venus. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	63
18	3D global multi-species Hall-MHD simulation of the Cassini T9 flyby. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	58

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19	The variability of Titan's magnetic environment. <i>Planetary and Space Science</i> , 2009, 57, 1813-1820.	1.7	56
20	Upstream of Saturn and Titan. <i>Space Science Reviews</i> , 2011, 162, 25-83.	8.1	52
21	MGS MAG/ER observations at the magnetic pileup boundary of Mars: draping enhancement and low frequency waves. <i>Advances in Space Research</i> , 2004, 33, 1938-1944.	2.6	50
22	Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	50
23	New insights on Titan's plasma-driven Schumann resonance inferred from Huygens and Cassini data. <i>Planetary and Space Science</i> , 2009, 57, 1872-1888.	1.7	48
24	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012, 33, 753-791.	3.7	44
25	Time-dependent global MHD simulations of Cassini T32 flyby: From magnetosphere to magnetosheath. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
26	Saturn's magnetospheric interaction with Titan as defined by Cassini encounters T9 and T18: New results. <i>Planetary and Space Science</i> , 2010, 58, 327-350.	1.7	41
27	Charged particle environment of Titan during the T9 flyby. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	40
28	Titan's influence on Saturnian substorm occurrence. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	40
29	Titan's interaction with the supersonic solar wind. <i>Geophysical Research Letters</i> , 2015, 42, 193-200.	4.0	40
30	Plasma environment in the wake of Titan from hybrid simulation: A case study. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	39
31	Electron density and temperature measurements in the cold plasma environment of Titan: Implications for atmospheric escape. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	38
32	Proton cyclotron waves upstream from Mars: Observations from Mars Global Surveyor. <i>Planetary and Space Science</i> , 2013, 76, 1-9.	1.7	37
33	Structure of Titan's mid-range magnetic tail: Cassini magnetometer observations during the T9 flyby. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	34
34	Dynamical and magnetic field time constants for Titan's ionosphere: Empirical estimates and comparisons with Venus. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
35	Structured ionospheric outflow during the Cassini T55-T59 Titan flybys. <i>Planetary and Space Science</i> , 2011, 59, 788-797.	1.7	34
36	Energy Deposition Processes in Titan's Upper Atmosphere and Its Induced Magnetosphere. , 2009, , 393-453.		31

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37	Titan ionospheric conductivities from Cassini measurements. <i>Planetary and Space Science</i> , 2009, 57, 1828-1833.	1.7	30
38	Structure of Titan's induced magnetosphere under varying background magnetic field conditions: Survey of Cassini magnetometer data from flybys TAâ€“T85. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1679-1699.	2.4	30
39	Upstream proton cyclotron waves at Venus near solar maximum. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 344-354.	2.4	30
40	Magnetic field draping enhancement at Venus: Evidence for a magnetic pileup boundary. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	29
41	Interaction of the solar wind with Mars from Mars Global Surveyor MAG/ER observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005, 67, 1797-1808.	1.6	29
42	Temporal variability of waves at the proton cyclotron frequency upstream from Mars: Implications for Mars distant hydrogen exosphere. <i>Geophysical Research Letters</i> , 2013, 40, 3809-3813.	4.0	29
43	Hybrid simulation of Titan's magnetic field signature during the Cassini T9 flyby. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	28
44	Extreme densities in Titan's ionosphere during the T85 magnetosheath encounter. <i>Geophysical Research Letters</i> , 2013, 40, 2879-2883.	4.0	27
45	Threeâ€“dimensional multifluid simulation of the plasma interaction at Titan. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	26
46	Proton cyclotron wave generation mechanisms upstream of Venus. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	26
47	Cold ionospheric plasma in Titan's magnetotail. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	25
48	Morphology of the magnetic field near Titan: Hybrid model study of the Cassini T9 flyby. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	24
49	Cassini encounters with hot flow anomalyâ€“like phenomena at Saturn's bow shock. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	22
50	Dynamics of Saturn's magnetodisk near Titan's orbit: Comparison of Cassini magnetometer observations from real and virtual Titan flybys. <i>Planetary and Space Science</i> , 2010, 58, 1625-1635.	1.7	22
51	Upstream Ion Cyclotron Waves at Venus and Mars. <i>Space Science Reviews</i> , 2011, 162, 5-24.	8.1	22
52	Lowâ€“frequency waves in the foreshock of Saturn: First results from Cassini. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	18
53	Titan's plasma environment during a magnetosheath excursion: Real-time scenarios for Cassini's T32 flyby from a hybrid simulation. <i>Annales Geophysicae</i> , 2009, 27, 669-685.	1.6	18
54	Saturn's ULF wave foreshock boundary: Cassini observations. <i>Planetary and Space Science</i> , 2013, 79-80, 64-75.	1.7	17

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55	STEADY-STATE MAGNETOHYDRODYNAMIC FLOW AROUND AN UNMAGNETIZED CONDUCTING SPHERE. <i>Astrophysical Journal</i> , 2014, 789, 43.	4.5	17
56	Dependence of the location of the Martian magnetic lobes on the interplanetary magnetic field direction: Observations from Mars Global Surveyor. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7737-7747.	2.4	16
57	Hybrid simulation of Titan's interaction with the supersonic solar wind during Cassini's T96 flyby. <i>Geophysical Research Letters</i> , 2016, 43, 35-42.	4.0	16
58	Titan's magnetic field signature during the Cassini T34 flyby: Comparison between hybrid simulations and MAG data. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	15
59	The Plasma Environment of Mars. <i>Space Sciences Series of ISSI</i> , 2004, , 33-114.	0.0	14
60	Structure and variability of the Martian magnetic pileup boundary and bow shock from MGS MAG/ER observations. <i>Advances in Space Research</i> , 2005, 36, 2066-2076.	2.6	14
61	Characteristics and variability of Titan's magnetic environment. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 789-798.	3.4	14
62	Cassini Plasma Spectrometer and hybrid model study on Titan's interaction: Effect of oxygen ions. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	14
63	An empirical approach to modeling ion production rates in Titan's ionosphere II: Ion production rates on the nightside. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1281-1298.	2.4	14
64	The ULF wave foreshock boundary: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4181-4193.	2.4	12
65	Effects of Saturn's magnetospheric dynamics on Titan's ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8884-8898.	2.4	11
66	A combined model of pressure variations in Titan's plasma environment. <i>Geophysical Research Letters</i> , 2014, 41, 8730-8735.	4.0	10
67	Mars's plasma system. Scientific potential of coordinated multipoint missions: "The next generation". <i>Experimental Astronomy</i> , 2022, 54, 641-676.	3.7	9
68	Asymmetries in the Magnetosheath Field Draping on Venus' Nightside. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,396.	2.4	8
69	Magnetic pileup boundary and field draping at Comet Halley. <i>Planetary and Space Science</i> , 2014, 96, 125-132.	1.7	7
70	The Magnetic Structure of the Subsolar MPB Current Layer From MAVEN Observations: Implications for the Hall Electric Force. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089230.	4.0	6
71	The Structure of the Martian Quasi-perpendicular Supercritical Shock as Seen by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028938.	2.4	6
72	The Induced Magnetospheres of Mars, Venus, and Titan. <i>Space Sciences Series of ISSI</i> , 2011, , 113-171.	0.0	5

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73	Outflow and plasma acceleration in Titan's induced magnetotail: Evidence of magnetic tension forces. Journal of Geophysical Research: Space Physics, 2014, 119, 9992.	2.4	4
74	Bow Shock and Upstream Waves at Jupiter and Saturn: Cassini Magnetometer Observations. AIP Conference Proceedings, 2005, , .	0.4	2
75	Titan's magnetospheric and plasma environment. , 2014, , 419-458.		2
76	Titan's Variable Ionosphere During the T118 and T119 Cassini Flybys. Geophysical Research Letters, 2018, 45, 8721-8728.	4.0	2
77	Upstream Ion Cyclotron Waves at Venus and Mars. Space Sciences Series of ISSI, 2011, , 5-24.	0.0	1
78	Enceladus and Titan: emerging worlds of the Solar System. Experimental Astronomy, 0, , 1.	3.7	1
79	Effects of solar variability on planetary plasma environments and habitability. Proceedings of the International Astronomical Union, 2011, 7, 393-404.	0.0	0