

Maria Virgã-*n*ia Alves Martins

List of Publications by Year in descending order

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44
papers

1,066
citations

687363

13
h-index

414414

32
g-index

44
all docs

44
docs citations

44
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Potential and Circuit Solution for 1D Bounded Plasma Particle Simulation Codes. Journal of Computational Physics, 1993, 104, 321-328.	3.8	393
2	Geoeffectiveness of corotating interaction regions as measured byDstindex. Journal of Geophysical Research, 2006, 111, .	3.3	110
3	A one-dimensional collisional model for plasma-immersion ion implantation. Journal of Applied Physics, 1991, 69, 2008-2014.	2.5	64
4	A statistical study of magnetic cloud parameters and geoeffectiveness. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 839-852.	1.6	45
5	Geoeffectiveness of interplanetary shocks during solar minimum (1995-1996) and solar maximum (2000). Solar Physics, 2004, 221, 361-380.	2.5	44
6	Sheath voltage ratio for asymmetric rf discharges. Journal of Applied Physics, 1991, 69, 3823-3829.	2.5	42
7	Statistical analysis of 26 yr of observations of decametric radio emissions from Jupiter. Astronomy and Astrophysics, 2017, 604, A17.	5.1	39
8	Dynamics of coronal mass ejections in the interplanetary medium. Astronomy and Astrophysics, 2009, 498, 885-889.	5.1	38
9	On the geomagnetic effects of solar wind interplanetary magnetic structures. Space Weather, 2006, 4, n/a-n/a.	3.7	34
10	Nonlinear generation of the fundamental radiation of interplanetary type III radio bursts. Astrophysical Journal, 1988, 330, L77.	4.5	33
11	High-gain free-electron-laser amplifier with warm plasma background: linear analysis. IEEE Transactions on Plasma Science, 1993, 21, 243-249.	1.3	27
12	Geoeffectiveness of solar wind interplanetary magnetic structures. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1380-1384.	1.6	26
13	Magnetospheric energetics during HILDCAAs. Geophysical Monograph Series, 2006, , 175-182.	0.1	19
14	Contribution of ULF Wave Activity to the Global Recovery of the Outer Radiation Belt During the Passage of a High-Speed Solar Wind Stream Observed in September 2014. Journal of Geophysical Research: Space Physics, 2019, 124, 1660-1678.	2.4	14
15	COHERENT GENERATION OF NARROW-BAND CIRCULARLY POLARIZED RADIO BURSTS FROM THE SUN AND FLARE STARS. Solar Physics, 1997, 173, 199-202.	2.5	12
16	On the relation between DC current locations and an EUV bright point: A case study. Astronomy and Astrophysics, 2008, 490, 345-352.	5.1	12
17	Signatures of two distinct driving mechanisms in the evolution of coronal mass ejections in the lower corona. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
18	High-Energy Electron Flux Enhancement Pattern in the Outer Radiation Belt in Response to the Alfvénic Fluctuations Within High-Speed Solar Wind Stream: A Statistical Analysis. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029363.	2.4	10

#	ARTICLE	IF	CITATIONS
19	On the preferential occurrence of interplanetary shocks in July and November: Causes (solar wind) Tj ETQq1 1 0.784314 rgBT /Overlook 2005, 110, .	3.3	9
20	Dynamic Mechanisms Associated With High-Energy Electron Flux Dropout in the Earth's Outer Radiation Belt Under the Influence of a Coronal Mass Ejection Sheath Region. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	9
21	On the Contribution of EMIC Waves to the Reconfiguration of the Relativistic Electron Butterfly Pitch Angle Distribution Shape on 2014 September 12 – A Case Study*. Astrophysical Journal, 2019, 872, 36.	4.5	8
22	Minimum Variance Analysis of Interplanetary Coronal Mass Ejections Around Solar Cycle 23 Maximum (1998 – 2002). Solar Physics, 2006, 233, 249-263.	2.5	7
23	CROSS-FIELD DIFFUSION OF ENERGETIC (100 keV to 2 MeV) PROTONS IN INTERPLANETARY SPACE. Astrophysical Journal, 2013, 778, 180.	4.5	7
24	The Role of Solar Wind Structures in the Generation of ULF Waves in the Inner Magnetosphere. Solar Physics, 2017, 292, 1.	2.5	7
25	Particle simulations of divergent and convergent radial electron flows in cylindrical Pierce diodes. Physics of Plasmas, 1997, 4, 3049-3063.	1.9	5
26	Ion sound wave excitation in a plasma under a Langmuir turbulence regime. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 248, 86-91.	2.1	5
27	A theory of the fundamental plasma emission of type-III solar radio bursts. Astronomy and Astrophysics, 2002, 390, 351-357.	5.1	5
28	A computational study of nonresonant cross-field diffusion of energetic particles due to their interaction with interplanetary magnetic decreases. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1405-1409.	1.6	5
29	A Global Magnetohydrodynamic Simulation Study of Ultra-low-frequency Wave Activity in the Inner Magnetosphere: Corotating Interaction Region + Alfvénic Fluctuations. Astrophysical Journal, 2019, 886, 59.	4.5	5
30	One-dimensional electromagnetic simulation of multiple electron beams propagating in space plasmas. Journal of Geophysical Research, 2010, 115, .	3.3	4
31	Auroral precipitating energy during long magnetic storms. Journal of Geophysical Research: Space Physics, 2017, 122, 6007-6021.	2.4	3
32	Nonlocal heat flux effects on temperature evolution of the solar atmosphere. Astronomy and Astrophysics, 2018, 615, A32.	5.1	3
33	Effect of beam density on nonlinear amplification of inverse-bremsstrahlung electron acceleration. Journal of Plasma Physics, 1997, 57, 697-707.	2.1	2
34	O vento solar e a atividade geomagnética. Revista Brasileira De Ensino De Fisica, 2011, 33, 4301-4301.	0.2	2
35	Influence of electron nongyrotropy and anisotropy on parallel wave propagation: Numerical solution of dispersion relation. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1511-1519.	1.6	2
36	A particle-in-cell simulation of nonlinear amplification of inverse Bremsstrahlung electron acceleration. Journal Physics D: Applied Physics, 1997, 30, 1759-1762.	2.8	1

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37	Nonlinear dynamics of electron flows with density gradient in spherical diodes. Physics of Plasmas, 2000, 7, 2798-2809.	1.9	1
38	Langmuir Turbulence and Solar Radio Bursts. Space Science Reviews, 2003, 107, 507-514.	8.1	1
39	Energy mode distribution: An analysis of the ratio of anti-Stokes to Stokes amplitudes generated by a pair of counterpropagating Langmuir waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 1680-1686.	1.6	1
40	Langmuir Turbulence and Solar Radio Bursts. , 2003, , 507-514.		1
41	Spectral contents of electron waves under strong Langmuir turbulence. Brazilian Journal of Physics, 2003, 33, 798-805.	1.4	1
42	Physics of Plasma Radiation. Progress of Theoretical Physics Supplement, 2003, 151, 226-233.	0.1	0
43	Ondas de Alfvén no meio interplanetário. Revista Brasileira De Ensino De Fisica, 2011, 33, .	0.2	0
44	Radiação kilométrica auroral. Revista Brasileira De Ensino De Fisica, 2015, 37, 4312-1-4312-13.	0.2	0