Bertrand Lembege

List of Publications by Year
in descending order

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34 papers	1,613 citations	361413 20 h-index	395702 33 g-index
42 all docs	42 docs citations	42 times ranked	1132 citing authors

#	Article	IF	Citations
1	Dayside Transient Phenomena and Their Impact on the Magnetosphere and Ionosphere. Space Science Reviews, 2022, 218, .	8.1	35
2	Evidence of the nonstationarity of the terrestrial bow shock from multi-spacecraft observations: methodology, results, and quantitative comparison with particle-in-cell (PIC) simulations. Annales Geophysicae, 2021, 39, 571-598.	1.6	1
3	The Plasma Environment Surrounding the Reiner Gamma Magnetic Anomaly. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029180.	2.4	4
4	Energy Power Spectra Measured at an Interplanetary Shock by the New Horizon's SWAP Experiment: 1D Full Particle Simulations versus Observations. Astrophysical Journal, 2020, 890, 48.	4.5	4
5	Simulating the Reiner Gamma Swirl: The Longâ€Term Effect of Solar Wind Standoff. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006219.	3.6	15
6	A deep insight into the ion foreshock with the help of test particle two-dimensional simulations. Annales Geophysicae, 2020, 38, 1217-1235.	1.6	2
7	Identifying 3â€Ð Vortex Structures At/Around the Magnetopause Using a Tetrahedral Satellite Configuration. Journal of Geophysical Research: Space Physics, 2018, 123, 10,158.	2.4	6
8	Physical Roles of Interstellar-origin Pickup Ions at Heliospheric Termination Shock. II. Impact of the Front Nonstationary on the Energy Partition and Particle Velocity Distribution. Astrophysical Journal, 2018, 860, 84.	4.5	10
9	Two-stream instabilities from the lower-hybrid frequency to the electron cyclotron frequency: application to the front of quasi-perpendicular shocks. Annales Geophysicae, 2017, 35, 1093-1112.	1.6	20
10	PHYSICAL ROLES OF INTERSTELLAR-ORIGIN PICKUP IONS AT THE HELIOSPHERIC TERMINATION SHOCK: IMPACT ON THE SHOCK FRONT MICROSTRUCTURES AND NONSTATIONARITY. Astrophysical Journal, 2016, 827, 73.	4.5	9
11	Threeâ€dimensional fullâ€kinetic simulation of the solar wind interaction with a vertical dipolar lunar magnetic anomaly. Geophysical Research Letters, 2016, 43, 4136-4144.	4.0	8
12	The microphysics of collisionless shock waves. Reports on Progress in Physics, 2016, 79, 046901.	20.1	185
13	Production of nongyrotropic and gyrotropic backstreaming ion distributions in the quasiâ€perpendicular ion foreshock region. Journal of Geophysical Research: Space Physics, 2015, 120, 7154-7171.	2.4	8
14	General mechanism and dynamics of the solar wind interaction with lunar magnetic anomalies from 3â€Ð particleâ€inâ€cell simulations. Journal of Geophysical Research: Space Physics, 2015, 120, 6443-6463.	2.4	43
15	Electromagnetic Particle-in-Cell Simulations of the Solar Wind Interaction with Lunar Magnetic Anomalies. Physical Review Letters, 2014, 112, 151102.	7.8	45
16	On the origin of the quasiâ€perpendicular ion foreshock: Fullâ€particle simulations. Journal of Geophysical Research: Space Physics, 2013, 118, 1132-1145.	2.4	22
17	Microturbulence in the electron cyclotron frequency range at perpendicular supercritical shocks. Journal of Geophysical Research: Space Physics, 2013, 118, 2267-2285.	2.4	42
18	Impact of the rippling of a perpendicular shock front on ion dynamics. Journal of Geophysical Research, 2012, 117, .	3.3	35

#	Article	IF	Citations
19	Self-Reformation of the Quasi-Perpendicular Shock: CLUSTER Observations. , 2010, , .		32
20	Nonstationarity of a twoâ€dimensional perpendicular shock: Competing mechanisms. Journal of Geophysical Research, 2009, 114, .	3.3	67
21	Shock front nonstationarity and ion acceleration in supercritical perpendicular shocks. Journal of Geophysical Research, 2009, 114, .	3.3	55
22	Analysis of Collisionless Shock Turbulence by Using Virtual Satellites in 2-D Full Particle-in-Cell Simulations. IEEE Transactions on Plasma Science, 2008, 36, 1172-1173.	1.3	3
23	Emission of nonlinear whistler waves at the front of perpendicular supercritical shocks: Hybrid versus full particle simulations. Geophysical Research Letters, 2007, 34, .	4.0	54
24	Electron cyclotron microinstability in the foot of a perpendicular shock: A self-consistent PIC simulation. Advances in Space Research, 2006, 37, 483-493.	2.6	33
25	Quasi-perpendicular Shock Structure and Processes. Space Science Reviews, 2005, 118, 161-203.	8.1	144
26	Selected Problems in Collisionless-Shock Physics. Space Science Reviews, 2004, 110, 161-226.	8.1	145
27	Shock front nonstationarity of supercritical perpendicular shocks. Journal of Geophysical Research, 2003, 108, .	3.3	86
28	Formation of reflected electron bursts by the nonstationarity and nonuniformity of a collisionless shock front. Journal of Geophysical Research, 2002, 107, SMP X-1.	3.3	41
29	Nonstationarity of strong collisionless quasiperpendicular shocks: Theory and full particle numerical simulations. Physics of Plasmas, 2002, 9, 1192-1209.	1.9	138
30	Two-dimensional simulations of a curved shock: Self-consistent formation of the electron foreshock. Journal of Geophysical Research, 2001, 106, 12975-12992.	3.3	25
31	The spatial sizes of electric and magnetic field gradients in a simulated shock. Advances in Space Research, 1999, 24, 109-112.	2.6	13
32	Electron dynamics in two- and one-dimensional oblique supercritical collisionless magnetosonic shocks. Journal of Geophysical Research, 1994, 99, 6609.	3.3	48
33	Nonstationarity of a twoâ€dimensional quasiperpendicular supercritical collisionless shock by selfâ€reformation. Physics of Fluids B, 1992, 4, 3533-3548.	1.7	136
34	Self-consistent study of a perpendicular collisionless and nonresistive shock. Physics of Fluids, 1987, 30, 1767.	1.4	99