

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	The microphysics of collisionless shock waves. Reports on Progress in Physics, 2016, 79, 046901.	20.1	185
2	Selected Problems in Collisionless-Shock Physics. Space Science Reviews, 2004, 110, 161-226.	8.1	145
3	Quasi-perpendicular Shock Structure and Processes. Space Science Reviews, 2005, 118, 161-203.	8.1	144
4	Nonstationarity of strong collisionless quasiperpendicular shocks: Theory and full particle numerical simulations. Physics of Plasmas, 2002, 9, 1192-1209.	1.9	138
5	Nonstationarity of a two-dimensional quasiperpendicular supercritical collisionless shock by self-reformation. Physics of Fluids B, 1992, 4, 3533-3548.	1.7	136
6	Self-consistent study of a perpendicular collisionless and nonresistive shock. Physics of Fluids, 1987, 30, 1767.	1.4	99
7	Shock front nonstationarity of supercritical perpendicular shocks. Journal of Geophysical Research, 2003, 108, .	3.3	86
8	Nonstationarity of a two-dimensional perpendicular shock: Competing mechanisms. Journal of Geophysical Research, 2009, 114, .	3.3	67
9	Shock front nonstationarity and ion acceleration in supercritical perpendicular shocks. Journal of Geophysical Research, 2009, 114, .	3.3	55
10	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
11	Electron dynamics in two- and one-dimensional oblique supercritical collisionless magnetosonic shocks. Journal of Geophysical Research, 1994, 99, 6609.	3.3	48
12	Electromagnetic Particle-in-Cell Simulations of the Solar Wind Interaction with Lunar Magnetic Anomalies. Physical Review Letters, 2014, 112, 151102.	7.8	45
13	General mechanism and dynamics of the solar wind interaction with lunar magnetic anomalies from 3D particle-in-cell simulations. Journal of Geophysical Research: Space Physics, 2015, 120, 6443-6463.	2.4	43
14	Microturbulence in the electron cyclotron frequency range at perpendicular supercritical shocks. Journal of Geophysical Research: Space Physics, 2013, 118, 2267-2285.	2.4	42
15	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
16	Impact of the rippling of a perpendicular shock front on ion dynamics. Journal of Geophysical Research, 2012, 117, .	3.3	35
17	Dayside Transient Phenomena and Their Impact on the Magnetosphere and Ionosphere. Space Science Reviews, 2022, 218, .	8.1	35
18	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

#	ARTICLE	IF	CITATIONS
19	Self-Reformation of the Quasi-Perpendicular Shock: CLUSTER Observations. , 2010, , .		32
20	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
21	On the origin of the quasi-perpendicular ion foreshock: Full-particle simulations. Journal of Geophysical Research: Space Physics, 2013, 118, 1132-1145.	2.4	22
22	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
23	Simulating the Reiner Gamma Swirl: The Long-Term Effect of Solar Wind Standoff. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006219.	3.6	15
24	The spatial sizes of electric and magnetic field gradients in a simulated shock. Advances in Space Research, 1999, 24, 109-112.	2.6	13
25	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
26	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
27	Production of nongyrotropic and gyrotropic backstreaming ion distributions in the quasi-perpendicular ion foreshock region. Journal of Geophysical Research: Space Physics, 2015, 120, 7154-7171.	2.4	8
28	Three-dimensional full-kinetic simulation of the solar wind interaction with a vertical dipolar lunar magnetic anomaly. Geophysical Research Letters, 2016, 43, 4136-4144.	4.0	8
29	Identifying 3D Vortex Structures At/Around the Magnetopause Using a Tetrahedral Satellite Configuration. Journal of Geophysical Research: Space Physics, 2018, 123, 10,158.	2.4	6
30	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
31	The Plasma Environment Surrounding the Reiner Gamma Magnetic Anomaly. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029180.	2.4	4
32	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
33	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
34	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