Nicolas Aunai

List of Publications by Year
in descending order

33	1,066	516561 16	395590 33
papers	citations	h-index	g-index

42	42	42	1164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Massive Multiâ€Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 3. An Asymmetric Non Indented Magnetopause Analytical Model. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	6
2	Massive Multiâ€Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 2. Shape and Location. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	11
3	Massive Multiâ€Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 4. On the Nearâ€Cusp Magnetopause Indentation. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	5
4	Massive Multiâ€Mission Statistical Study and Analytical Modeling of the Earth's Magnetopause: 1. A Gradient Boosting Based Automatic Detection of Nearâ€Earth Regions. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	8
5	Identification of Electron Diffusion Regions with a Machine Learning Approach on MMS Data at the Earth's Magnetopause. Earth and Space Science, 2021, 8, e2020EA001530.	1.1	7
6	Numerical study of non-gyrotropic electron pressure effects in collisionless magnetic reconnection. Physics of Plasmas, 2021, 28, .	0.7	4
7	Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. Reviews of Geophysics, 2021, 59, e2020RG000707.	9.0	26
8	Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. Planetary and Space Science, 2021, 201, 105214.	0.9	24
9	Solar wind â€•magnetosphere coupling during radial interplanetary magnetic field conditions: simultaneous multiâ€point observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029506.	0.8	1
10	Simulation of Plasmaspheric Plume Impact on Dayside Magnetic Reconnection. Geophysical Research Letters, 2020, 47, e2019GL086546.	1.5	19
11	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. Geophysical Research Letters, 2019, 46, 6204-6213.	1.5	21
12	Signatures of Cold Ions in a Kinetic Simulation of the Reconnecting Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 2497.	0.8	14
13	Highâ€density O⁺ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. Journal of Geophysical Research: Space Physics, 2019, 124, 10257-10269.	0.8	14
14	Analyzing the Magnetopause Internal Structure: New Possibilities Offered by MMS Tested in a Case Study. Journal of Geophysical Research: Space Physics, 2018, 123, 227-241.	0.8	11
15	Smilei : A collaborative, open-source, multi-purpose particle-in-cell code for plasma simulation. Computer Physics Communications, 2018, 222, 351-373.	3.0	282
16	Perpendicular Current Reduction Caused by Cold Ions of Ionospheric Origin in Magnetic Reconnection at the Magnetopause: Particleâ€inâ€Cell Simulations and Spacecraft Observations. Geophysical Research Letters, 2018, 45, 10,033.	1.5	17
17	Kinetic simulation of asymmetric magnetic reconnection with cold ions. Journal of Geophysical Research: Space Physics, 2017, 122, 5290-5306.	0.8	29
18	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 9396-9413.	0.8	24

#	Article	IF	Citations
19	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. Geophysical Research Letters, 2016, 43, 3042-3050.	1.5	81
20	Cold ion demagnetization near the Xâ€line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	1.5	35
21	Orientation of the X-line in asymmetric magnetic reconnection. Journal of Plasma Physics, 2016, 82, .	0.7	3
22	Full particle-in-cell simulations of kinetic equilibria and the role of the initial current sheet on steady asymmetric magnetic reconnection. Journal of Plasma Physics, 2016, 82, .	0.7	6
23	Cold ion heating at the dayside magnetopause during magnetic reconnection. Geophysical Research Letters, 2016, 43, 58-66.	1.5	34
24	Asymmetric kinetic equilibria: Generalization of the BAS model for rotating magnetic profile and non-zero electric field. Physics of Plasmas, 2015, 22, .	0.7	13
25	BV technique for investigating 1â€Ð interfaces. Journal of Geophysical Research: Space Physics, 2014, 119, 1709-1720.	0.8	5
26	On the electron diffusion region in planar, asymmetric, systems. Geophysical Research Letters, 2014, 41, 8673-8680.	1.5	126
27	Electron nongyrotropy in the context of collisionless magnetic reconnection. Physics of Plasmas, 2013, 20, .	0.7	64
28	Comparison between hybrid and fully kinetic models of asymmetric magnetic reconnection: Coplanar and guide field configurations. Physics of Plasmas, 2013, 20, .	0.7	23
29	Aspects of collisionless magnetic reconnection in asymmetric systems. Physics of Plasmas, 2013, 20, .	0.7	56
30	First demonstration of an asymmetric kinetic equilibrium for a thin current sheet. Physics of Plasmas, 2013, 20, .	0.7	7
31	Proton acceleration in antiparallel collisionless magnetic reconnection: Kinetic mechanisms behind the fluid dynamics. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	51
32	Energy budgets in collisionless magnetic reconnection: Ion heating and bulk acceleration. Physics of Plasmas, 2011, 18, .	0.7	34
33	Plasma diffusion in self-consistent fluctuations. Physics of Plasmas, 2011, 18, .	0.7	4