

# Mostafa El Alaoui

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,335

citations

20

h-index

34

g-index

65

ext. papers

1,498

ext. citations

3.6

avg, IF

4.12

L-index

#	Paper	IF	Citations
62	THEMIS observation of multiple dipolarization fronts and associated wave characteristics in the near-Earth magnetotail. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	151
61	Observations and simulations of non-local acceleration of electrons in magnetotail magnetic reconnection events. <i>Nature Physics</i> , <b>2011</b> , 7, 360-365	16.2	145
60	Wave and particle characteristics of earthward electron injections associated with dipolarization fronts. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		91
59	Cluster observations of kinetic structures and electron acceleration within a dynamic plasma bubble. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 674-684	2.6	57
58	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 055101	7.4	56
57	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 34	4.7	53
56	Current disruption during November 24, 1996, substorm. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 6229-6245		53
55	Substorm evolution as revealed by THEMIS satellites and a global MHD simulation. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		37
54	On the origin of the crescent-shaped distributions observed by MMS at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 2024-2039	2.6	35
53	Adiabatic acceleration of suprathermal electrons associated with dipolarization fronts. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		35
52	Ion sources and acceleration mechanisms inferred from local distribution functions. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 955-958	4.9	34
51	A new convection state at substorm onset: Results from an MHD study. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 26-1-26-4	4.9	33
50	Localized reconnection and substorm onset on Dec. 22, 1996. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3545-3548	4.9	31
49	Multiscale study of electron energization during unsteady reconnection events. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4784-4799	2.6	25
48	Dipolarization and turbulence in the plasma sheet during a substorm: THEMIS observations and global MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 7752-7761	2.6	25
47	Observation of high-frequency electrostatic waves in the vicinity of the reconnection ion diffusion region by the spacecraft of the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4808-4815	4.9	24
46	Suprathermal Electron Acceleration in a Reconnecting Magnetotail: Large-Scale Kinetic Simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8087-8108	2.6	24

45	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 1834-1852	2.6	24
44	Global magnetohydrodynamic simulation of reconnection and turbulence in the plasma sheet. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		21
43	Dynamics of ionospheric O <sup>+</sup> ions in the magnetosphere during the 24 <sup>05</sup> September 1998 magnetic storm. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		21
42	Oxygen acceleration in magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 618-639	2.6	20
41	A stochastic sea: The source of plasma sheet boundary layer ion structures observed by Cluster. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		20
40	Electron energization and transport in the magnetotail during substorms. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1060-1079	2.6	19
39	The ion population of the magnetotail during the 17 April 2002 magnetic storm: Large-scale kinetic simulations and IMAGE/HENA observations. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		17
38	Magnetospheric convection during prolonged intervals with southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		17
37	A simulation study of particle energization observed by THEMIS spacecraft during a substorm. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		16
36	Source distributions of substorm ions observed in the near-Earth magnetotail. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 955-958	4.9	16
35	Turbulence in a global magnetohydrodynamic simulation of the Earth's magnetosphere during northward and southward interplanetary magnetic field. <i>Nonlinear Processes in Geophysics</i> , <b>2012</b> , 19, 165-175	2.9	14
34	The storm-time access of solar wind ions to the nightside ring current and plasma sheet. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		14
33	Interplanetary magnetic field control of the entry of solar energetic particles into the magnetosphere. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SSH 7-1-SSH 7-20		14
32	A multiscale study of ion heating in Earth's magnetotail. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 515-524	4.9	13
31	Ion energization and transport associated with magnetic dipolarizations. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 5717-5726	4.9	12
30	Observations and simulations of a highly structured plasma sheet during northward IMF. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		11
29	Anisotropy of the Taylor scale and the correlation scale in plasma sheet magnetic field fluctuations as a function of auroral electrojet activity. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		11
28	Bifurcated current sheets: Statistics from Cluster magnetometer measurements. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		11

27	Identifying the electron diffusion region in a realistic simulation of Earth's magnetotail. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6005-6011	4.9	10
26	On the importance of accurate solar wind measurements for studying magnetospheric dynamics. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		9
25	Low Mach number bow shock locations during a magnetic cloud event: Observations and magnetohydrodynamic simulations. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	9
24	Forces driving fast flow channels, dipolarizations, and turbulence in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 11,063	2.6	9
23	Magnetotail Structure and its Internal Particle Dynamics During Northward IMF. <i>Geophysical Monograph Series</i> , <b>2013</b> , 77-95	1.1	8
22	Modeling the entry and trapping of solar energetic particles in the magnetosphere during the November 24 <sup>th</sup> , 2001 storm. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		8
21	Simulated Stormtime Ring-Current Magnetic Field Produced by Ions and Electrons. <i>Geophysical Monograph Series</i> , <b>2005</b> , 237-250	1.1	8
20	Modeling substorm ion injection observed by the THEMIS and LANL spacecraft in the near-Earth magnetotail. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		6
19	Embedding particle-in-cell simulations in global magnetohydrodynamic simulations of the magnetosphere. <i>Journal of Plasma Physics</i> , <b>2019</b> , 85,	2.7	5
18	Turbulent Energization of Electron Power Law Tails during Magnetic Reconnection. <i>Physical Review Letters</i> , <b>2020</b> , 125, 225101	7.4	5
17	Multiscale MHD-Kinetic PIC Study of Energy Fluxes Caused by Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, no	2.6	5
16	Mission Oriented Support and Theory (MOST) for MMS. The Goddard Space Flight Center/University of California Los Angeles Interdisciplinary Science Program. <i>Space Science Reviews</i> , <b>2016</b> , 199, 689-719	7.5	5
15	Generation of Pi2 pulsations by intermittent earthward propagating dipolarization fronts: An MHD case study. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 6364-6377	2.6	5
14	Propagation of Pi2 pulsations through the braking region in global MHD simulations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 10,574	2.6	5
13	Direct auroral precipitation from the magnetotail during substorms. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3787-3792	4.9	5
12	An MHD simulation study of the dynamics of the 8 <sup>th</sup> March 2008 CIR-/HSS-driven geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 2990-3001	2.6	4
11	Modeling Extreme Compression of the Magnetosphere: Results from a Global MHD Simulation of the May 4, 1998 Event. <i>Geophysical Monograph Series</i> , <b>2013</b> , 241-248	1.1	4
10	Determination of Particle Sources for a Geotail Distribution Function Observed on May 23, 1995. <i>Geophysical Monograph Series</i> , <b>2013</b> , 297-312	1.1	4

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| 9 | Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL029215   | 2.6 | 3 |
| 8 | The Relation of N-S Auroral Streamers to Auroral Expansion. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027063                        | 2.6 | 3 |
| 7 | Contrasting electron acceleration processes during two substorms. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 5382-5400                      | 2.6 | 3 |
| 6 | Structure and Dynamics of Three-Dimensional Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 8241-8260                  | 2.6 | 3 |
| 5 | Ion dynamics associated with substorm dipolarization fronts. <i>Science China Earth Sciences</i> , <b>2014</b> , 57, 2543-2551  | 1.1 | 2 |
| 4 | Modeling Magnetotail Ion Distributions with Global Magnetohydrodynamic and Ion Trajectory Calculations. <i>Geophysical Monograph Series</i> , <b>2013</b> , 291-296         | 2.7 | 2 |
| 3 | Loading experimental velocity distributions into particle-in-cell simulations of space and fusion plasmas. <i>Journal of Plasma Physics</i> , <b>2006</b> , 72, 949         | 2.6 | 2 |
| 2 | Characteristics of Reconnection Sites and Fast Flow Channels in an MHD Simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027701 | 0.1 |   |
| 1 | The effect of solar wind structures on the storm-time magnetosphere. <i>Proceedings of the International Astronomical Union</i> , <b>2006</b> , 2, 283                      |     |   |