

# Alessandro Retino

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/394518/publications.pdf>

Version: 2024-02-01

87  
papers

4,835  
citations

70961

41  
h-index

95083

68  
g-index

90  
all docs

90  
docs citations

90  
times ranked

1980  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 2022, 54, 427-471.	1.6	14
2	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	5
3	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. <i>Astrophysical Journal</i> , 2021, 908, 73.	1.6	3
4	Cluster Observations of Energetic Electron Acceleration Within Earthward Reconnection Jet and Associated Magnetic Flux Rope. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029545.	0.8	6
5	Non-Maxwellianity of Electron Distributions Near Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029260.	0.8	9
6	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar-Terrestrial Relation. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	18
7	ViDA: a Vlasov-Darwin solver for plasma physics at electron scales. <i>Journal of Plasma Physics</i> , 2019, 85, .	0.7	13
8	SOTE: A Nonlinear Method for Magnetic Topology Reconstruction in Space Plasmas. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 31.	3.0	26
9	Evolution of Turbulence in the Kelvin-Helmholtz Instability in the Terrestrial Magnetopause. <i>Atmosphere</i> , 2019, 10, 561.	1.0	8
10	Turbulence-Driven Ion Beams in the Magnetospheric Kelvin-Helmholtz Instability. <i>Physical Review Letters</i> , 2019, 122, 035102.	2.9	62
11	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. <i>Physical Review E</i> , 2019, 99, 043204.	0.8	11
12	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 93-103.	0.8	26
13	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	1.5	69
14	Coherent Structures and Spectral Energy Transfer in Turbulent Plasma: A Space-Filter Approach. <i>Physical Review Letters</i> , 2018, 120, 125101.	2.9	41
15	Electron Power-Law Spectra in Solar and Space Plasmas. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	53
16	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018, 557, 202-206.	13.7	263
17	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. <i>Astrophysical Journal</i> , 2018, 859, 127.	1.6	23
18	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017, 836, 247.	1.6	50

#	ARTICLE	IF	CITATIONS
19	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017, 44, 2978-2986.	1.5	46
20	Intermittent energy dissipation by turbulent reconnection. <i>Geophysical Research Letters</i> , 2017, 44, 37-43.	1.5	176
21	Charge Proportional and Weakly Mass-Dependent Acceleration of Different Ion Species in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2017, 44, 10,108.	1.5	7
22	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,236.	0.8	31
23	Occurrence rate of whistler waves in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7188-7196.	0.8	30
24	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	1.5	81
25	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	1.5	66
26	Differential kinetic dynamics and heating of ions in the turbulent solar wind. <i>New Journal of Physics</i> , 2016, 18, 125001.	1.2	51
27	A journey through scales. <i>Nature Physics</i> , 2016, 12, 1092-1093.	6.5	8
28	Impact of the Eulerian chaos of magnetic field lines in magnetic reconnection. <i>Physics of Plasmas</i> , 2016, 23, 122905.	0.7	5
29	In situ observations of flux rope at the separatrix region of magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 205-213.	0.8	30
30	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858.	1.5	53
31	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. <i>Geophysical Research Letters</i> , 2016, 43, 7279-7286.	1.5	49
32	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , 2016, 43, 5943-5952.	1.5	44
33	Two types of whistler waves in the hall reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6639-6646.	0.8	57
34	Two interacting X lines in magnetotail: Evolution of collision between the counterstreaming jets. <i>Geophysical Research Letters</i> , 2016, 43, 7795-7803.	1.5	4
35	Subsolar magnetopause observation and kinetic simulation of a tripolar guide magnetic field perturbation consistent with a magnetic island. <i>Geophysical Research Letters</i> , 2016, 43, 3035-3041.	1.5	7
36	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9926-9939.	0.8	35

#	ARTICLE	IF	CITATIONS
37	Turbulence Heating Observer " satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	0.7	60
38	ION INJECTION AT QUASI-PARALLEL SHOCKS SEEN BY THE CLUSTER SPACECRAFT. Astrophysical Journal Letters, 2016, 817, L4.	3.0	10
39	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	1.5	66
40	NATURE OF THE MHD AND KINETIC SCALE TURBULENCE IN THE MAGNETOSHEATH OF SATURN: CASSINI OBSERVATIONS. Astrophysical Journal Letters, 2015, 813, L29.	3.0	57
41	Two-fluid numerical simulations of turbulence inside Kelvin-Helmholtz vortices: Intermittency and reconnecting current sheets. Physics of Plasmas, 2015, 22, .	0.7	18
42	How to find magnetic nulls and reconstruct field topology with MMS data?. Journal of Geophysical Research: Space Physics, 2015, 120, 3758-3782.	0.8	111
43	Properties of Jupiter's magnetospheric turbulence observed by the Galileo spacecraft. Journal of Geophysical Research: Space Physics, 2015, 120, 2477-2493.	0.8	35
44	THIN CURRENT SHEETS AND ASSOCIATED ELECTRON HEATING IN TURBULENT SPACE PLASMA. Astrophysical Journal Letters, 2015, 804, L1.	3.0	91
45	Kelvin-Helmholtz vortices and double mid-latitude reconnection at the Earth's magnetopause: Comparison between observations and simulations. Europhysics Letters, 2014, 107, 19001.	0.7	21
46	BV technique for investigating " interfaces. Journal of Geophysical Research: Space Physics, 2014, 119, 1709-1720.	0.8	5
47	Energetic electron acceleration by unsteady magnetic reconnection. Nature Physics, 2013, 9, 426-430.	6.5	215
48	Electron acceleration to relativistic energies at a strong quasi-parallel shock wave. Nature Physics, 2013, 9, 164-167.	6.5	62
49	Asymmetric distribution of reconnection jet fronts in the Jovian nightside magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 375-384.	0.8	45
50	In situ observations of high-Mach number collisionless shocks in space plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 124035.	0.9	7
51	Dipolarization fronts as a consequence of transient reconnection: In situ evidence. Geophysical Research Letters, 2013, 40, 6023-6027.	1.5	168
52	Electron acceleration in the reconnection diffusion region: Cluster observations. Geophysical Research Letters, 2012, 39, .	1.5	95
53	EIDOSCOPE: particle acceleration at plasma boundaries. Experimental Astronomy, 2012, 33, 491-527.	1.6	6
54	Fast tailward flows in the plasma sheet boundary layer during a substorm on 9 March 2008: THEMIS observations. Journal of Geophysical Research, 2011, 116, .	3.3	25

#	ARTICLE	IF	CITATIONS
55	Jet front-driven mirror modes and shocklets in the near-Earth flow-braking region. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	17
56	Magnetic reconnection in the Jovian tail: X-line evolution and consequent plasma sheet structures. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	34
57	The proton pressure tensor as a new proxy of the proton decoupling region in collisionless magnetic reconnection. <i>Annales Geophysicae</i> , 2011, 29, 1571-1579.	0.6	16
58	PLASMOID RELEASES IN THE HELIOSPHERIC CURRENT SHEET AND ASSOCIATED CORONAL HOLE BOUNDARY LAYER EVOLUTION. <i>Astrophysical Journal</i> , 2011, 737, 16.	1.6	32
59	A case study of Kelvinâ€Helmholtz vortices on both flanks of the Earth's magnetotail. <i>Planetary and Space Science</i> , 2011, 59, 502-509.	0.9	21
60	Suprathermal electron acceleration during reconnection onset in the magnetotail. <i>Annales Geophysicae</i> , 2011, 29, 1917-1925.	0.6	48
61	Observations of Slow Electron Holes at a Magnetic Reconnection Site. <i>Physical Review Letters</i> , 2010, 105, 165002.	2.9	106
62	Corrigendum to "Substorm activity in Venus's magnetotail" published in <i>Ann. Geophys.</i> , 27, 2321â€2330, doi:10.5194/angeo-27-2321-2009, 2009. <i>Annales Geophysicae</i> , 2010, 28, 1877-1878.	0.6	5
63	The AlfvÃ©n edge in asymmetric reconnection. <i>Annales Geophysicae</i> , 2010, 28, 1327-1331.	0.6	9
64	Multiple overshoot and rebound of a bursty bulk flow. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	153
65	Electron acceleration signatures in the magnetotail associated with substorms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
66	Plasma sheet thickness during a bursty bulk flow reversal. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
67	Substorm activity in Venus's magnetotail. <i>Annales Geophysicae</i> , 2009, 27, 2321-2330.	0.6	18
68	Observations of plasma vortices in the vicinity of flow-braking: a case study. <i>Annales Geophysicae</i> , 2009, 27, 3009-3017.	0.6	28
69	Evolution of dipolarization in the near-Earth current sheet induced by Earthward rapid flux transport. <i>Annales Geophysicae</i> , 2009, 27, 1743-1754.	0.6	129
70	Magnetic reconnection in space plasma. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124016.	0.9	3
71	Kelvinâ€Helmholtz waves at the Earth's magnetopause: Multiscale development and associated reconnection. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	119
72	Modulated reconnection rate and energy conversion at the magnetopause under steady IMF conditions. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	24

#	ARTICLE	IF	CITATIONS
73	Extended SuperDARN and IMAGE observations for northward IMF: Evidence for dual lobe reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
74	Retreat and reformation of X-line during quasi-continuous tailward flow at the cusp reconnection under northward IMF. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	20
75	Cluster observations of energetic electrons and electromagnetic fields within a reconnecting thin current sheet in the Earth's magnetotail. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
76	Effects on magnetic reconnection of a density asymmetry across the current sheet. <i>Annales Geophysicae</i> , 2008, 26, 2471-2483.	0.6	63
77	Dissipation in Turbulent Plasma due to Reconnection in Thin Current Sheets. <i>Physical Review Letters</i> , 2007, 99, 025004.	2.9	198
78	Multi-point observations of the Hall electromagnetic field and secondary island formation during magnetic reconnection. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	128
79	Quantitative estimates of magnetic field reconnection properties from electric and magnetic field measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
80	In situ evidence of magnetic reconnection in turbulent plasma. <i>Nature Physics</i> , 2007, 3, 235-238.	6.5	333
81	Structure of the separatrix region close to a magnetic reconnection X-line: Cluster observations. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	88
82	Kinetic signatures during a quasi-continuous lobe reconnection event: Cluster Ion Spectrometer (CIS) observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	16
83	Microphysics of Magnetic Reconnection. <i>Space Science Reviews</i> , 2006, 122, 19-27.	3.7	31
84	Formation of Inner Structure of a Reconnection Separatrix Region. <i>Physical Review Letters</i> , 2006, 97, 205003.	2.9	83
85	Cluster multispacecraft observations at the high-latitude duskside magnetopause: implications for continuous and component magnetic reconnection. <i>Annales Geophysicae</i> , 2005, 23, 461-473.	0.6	46
86	Structure of the Magnetic Reconnection Diffusion Region from Four-Spacecraft Observations. <i>Physical Review Letters</i> , 2004, 93, 105001.	2.9	193
87	In situ evidence of magnetic reconnection in turbulent plasma. , 0, .		1