

# Alessandro Retino

## List of Publications by Year in descending order

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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	In situ evidence of magnetic reconnection in turbulent plasma. <i>Nature Physics</i> , 2007, 3, 235-238.	6.5	333
2	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018, 557, 202-206.	13.7	263
3	Energetic electron acceleration by unsteady magnetic reconnection. <i>Nature Physics</i> , 2013, 9, 426-430.	6.5	215
4	Dissipation in Turbulent Plasma due to Reconnection in Thin Current Sheets. <i>Physical Review Letters</i> , 2007, 99, 025004.	2.9	198
5	Structure of the Magnetic Reconnection Diffusion Region from Four-Spacecraft Observations. <i>Physical Review Letters</i> , 2004, 93, 105001.	2.9	193
6	Intermittent energy dissipation by turbulent reconnection. <i>Geophysical Research Letters</i> , 2017, 44, 37-43.	1.5	176
7	Dipolarization fronts as a consequence of transient reconnection: In situ evidence. <i>Geophysical Research Letters</i> , 2013, 40, 6023-6027.	1.5	168
8	Multiple overshoot and rebound of a bursty bulk flow. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	153
9	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
10	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
11	Kelvin-Helmholtz waves at the Earth's magnetopause: Multiscale development and associated reconnection. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	119
12	How to find magnetic nulls and reconstruct field topology with MMS data?. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3758-3782.	0.8	111
13	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
14	Observations of Slow Electron Holes at a Magnetic Reconnection Site. <i>Physical Review Letters</i> , 2010, 105, 165002.	2.9	106
15	Electron acceleration in the reconnection diffusion region: Cluster observations. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	95
16	THIN CURRENT SHEETS AND ASSOCIATED ELECTRON HEATING IN TURBULENT SPACE PLASMA. <i>Astrophysical Journal Letters</i> , 2015, 804, L1.	3.0	91
17	Structure of the separatrix region close to a magnetic reconnection X-line: Cluster observations. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	88
18	Formation of Inner Structure of a Reconnection Separatrix Region. <i>Physical Review Letters</i> , 2006, 97, 205003.	2.9	83

#	ARTICLE	IF	CITATIONS
19	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
20	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018, 45, 3338-3347.	1.5	69
21	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	1.5	66
22	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5626-5634.	1.5	66
23	Electron acceleration signatures in the magnetotail associated with substorms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
24	Effects on magnetic reconnection of a density asymmetry across the current sheet. <i>Annales Geophysicae</i> , 2008, 26, 2471-2483.	0.6	63
25	Electron acceleration to relativistic energies at a strong quasi-parallel shock wave. <i>Nature Physics</i> , 2013, 9, 164-167.	6.5	62
26	Turbulence-Driven Ion Beams in the Magnetospheric Kelvin-Helmholtz Instability. <i>Physical Review Letters</i> , 2019, 122, 035102.	2.9	62
27	Plasma sheet thickness during a bursty bulk flow reversal. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
28	Turbulence Heating Observer " satellite mission proposal. <i>Journal of Plasma Physics</i> , 2016, 82, .	0.7	60
29	NATURE OF THE MHD AND KINETIC SCALE TURBULENCE IN THE MAGNETOSHEATH OF SATURN: CASSINI OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2015, 813, L29.	3.0	57
30	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
31	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858.	1.5	53
32	Electron Power-Law Spectra in Solar and Space Plasmas. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	53
33	Differential kinetic dynamics and heating of ions in the turbulent solar wind. <i>New Journal of Physics</i> , 2016, 18, 125001.	1.2	51
34	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017, 836, 247.	1.6	50
35	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
36	Suprathermal electron acceleration during reconnection onset in the magnetotail. <i>Annales Geophysicae</i> , 2011, 29, 1917-1925.	0.6	48

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37	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
38	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
39	Quantitative estimates of magnetic field reconnection properties from electric and magnetic field measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
40	Asymmetric distribution of reconnection jet fronts in the Jovian nightside magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 375-384.	0.8	45
41	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
42	Coherent Structures and Spectral Energy Transfer in Turbulent Plasma: A Space-Filter Approach. <i>Physical Review Letters</i> , 2018, 120, 125101.	2.9	41
43	Properties of Jupiter's magnetospheric turbulence observed by the Galileo spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2477-2493.	0.8	35
44	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvinâ€Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9926-9939.	0.8	35
45	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
46	PLASMOID RELEASES IN THE HELIOSPHERIC CURRENT SHEET AND ASSOCIATED CORONAL HOLE BOUNDARY LAYER EVOLUTION. <i>Astrophysical Journal</i> , 2011, 737, 16.	1.6	32
47	Microphysics of Magnetic Reconnection. <i>Space Science Reviews</i> , 2006, 122, 19-27.	3.7	31
48	Lower Hybrid Drift Waves and Electromagnetic Electron Spaceâ€Phase Holes Associated With Dipolarization Fronts and Fieldâ€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
49	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
50	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
51	Observations of plasma vortices in the vicinity of flow-braking: a case study. <i>Annales Geophysicae</i> , 2009, 27, 3009-3017.	0.6	28
52	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
53	SOTE: A Nonlinear Method for Magnetic Topology Reconstruction in Space Plasmas. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 31.	3.0	26
54	Fast tailward flows in the plasma sheet boundary layer during a substorm on 9 March 2008: THEMIS observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	25

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55	Modulated reconnection rate and energy conversion at the magnetopause under steady IMF conditions. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	24
56	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
57	A case study of Kelvin-Helmholtz vortices on both flanks of the Earth's magnetotail. <i>Planetary and Space Science</i> , 2011, 59, 502-509.	0.9	21
58	Kelvin-Helmholtz vortices and double mid-latitude reconnection at the Earth's magnetopause: Comparison between observations and simulations. <i>Europhysics Letters</i> , 2014, 107, 19001.	0.7	21
59	Retreat and reformation of X-line during quasi-continuous tailward-of-the-cusp reconnection under northward IMF. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	20
60	Substorm activity in Venus's magnetotail. <i>Annales Geophysicae</i> , 2009, 27, 2321-2330.	0.6	18
61	Two-fluid numerical simulations of turbulence inside Kelvin-Helmholtz vortices: Intermittency and reconnecting current sheets. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	18
62	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
63	Extended SuperDARN and IMAGE observations for northward IMF: Evidence for dual lobe reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
64	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
65	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
66	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
67	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. <i>Experimental Astronomy</i> , 2022, 54, 427-471.	1.6	14
68	ViDA: a Vlasov-Darwin solver for plasma physics at electron scales. <i>Journal of Plasma Physics</i> , 2019, 85, .	0.7	13
69	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. <i>Physical Review E</i> , 2019, 99, 043204.	0.8	11
70	ION INJECTION AT QUASI-PARALLEL SHOCKS SEEN BY THE CLUSTER SPACECRAFT. <i>Astrophysical Journal Letters</i> , 2016, 817, L4.	3.0	10
71	The Alfvén edge in asymmetric reconnection. <i>Annales Geophysicae</i> , 2010, 28, 1327-1331.	0.6	9
72	Non-Maxwellianity of Electron Distributions Near Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029260.	0.8	9

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73	A journey through scales. <i>Nature Physics</i> , 2016, 12, 1092-1093.	6.5	8
74	Evolution of Turbulence in the Kelvin-Helmholtz Instability in the Terrestrial Magnetopause. <i>Atmosphere</i> , 2019, 10, 561.	1.0	8
75	<i>In situ</i> observations of high-Mach number collisionless shocks in space plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 124035.	0.9	7
76	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
77	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
78	EIDOSCOPE: particle acceleration at plasma boundaries. <i>Experimental Astronomy</i> , 2012, 33, 491-527.	1.6	6
79	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
80	Corrigendum to "Substorm activity in Venus's magnetotail" published in <i>Ann. Geophys.</i> , 27, 2321-2330, doi:10.5194/angeo-27-2321-2009, 2009. <i>Annales Geophysicae</i> , 2010, 28, 1877-1878.	0.6	5
81	BV technique for investigating 1D interfaces. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1709-1720.	0.8	5
82	Impact of the Eulerian chaos of magnetic field lines in magnetic reconnection. <i>Physics of Plasmas</i> , 2016, 23, 122905.	0.7	5
83	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	5
84	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
85	Magnetic reconnection in space plasma. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 124016.	0.9	3
86	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. <i>Astrophysical Journal</i> , 2021, 908, 73.	1.6	3
87	In situ evidence of magnetic reconnection in turbulent plasma. , 0, .		1