

Didier Mourenas

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6421623/didier-mourenas-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

80
papers

2,191
citations

30
h-index

43
g-index

84
ext. papers

2,635
ext. citations

3.4
avg, IF

5.22
L-index

#	Paper	IF	Citations
80	Statistics of whistler mode waves in the outer radiation belt: Cluster STAFF-SA measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3407-3420	2.6	173
79	Oblique Whistler-Mode Waves in the Earth's Inner Magnetosphere: Energy Distribution, Origins, and Role in Radiation Belt Dynamics. <i>Space Science Reviews</i> , 2016 , 200, 261-355	7.5	111
78	Consequences of geomagnetic activity on energization and loss of radiation belt electrons by oblique chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2775-2796	2.6	68
77	Fast dropouts of multi-MeV electrons due to combined effects of EMIC and whistler mode waves. <i>Geophysical Research Letters</i> , 2016 , 43, 4155-4163	4.9	63
76	Very oblique whistler generation by low-energy electron streams. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3665-3683	2.6	62
75	Synthetic Empirical Chorus Wave Model From Combined Van Allen Probes and Cluster Statistics. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 297-314	2.6	61
74	Analytical estimates of electron quasi-linear diffusion by fast magnetosonic waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3096-3112	2.6	60
73	Timescales for electron quasi-linear diffusion by parallel and oblique lower-band chorus waves. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		59
72	Unraveling the excitation mechanisms of highly oblique lower band chorus waves. <i>Geophysical Research Letters</i> , 2016 , 43, 8867-8875	4.9	58
71	Nonlinear local parallel acceleration of electrons through Landau trapping by oblique whistler mode waves in the outer radiation belt. <i>Geophysical Research Letters</i> , 2015 , 42, 10,140	4.9	55
70	Non-diffusive resonant acceleration of electrons in the radiation belts. <i>Physics of Plasmas</i> , 2012 , 19, 122901		55
69	The quasi-electrostatic mode of chorus waves and electron nonlinear acceleration. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1606-1626	2.6	54
68	Evidence of stronger pitch angle scattering loss caused by oblique whistler-mode waves as compared with quasi-parallel waves. <i>Geophysical Research Letters</i> , 2014 , 41, 6063-6070	4.9	54
67	Wave energy budget analysis in the Earth's radiation belts uncovers a missing energy. <i>Nature Communications</i> , 2015 , 6, 8143	17.4	47
66	Nonlinear electron acceleration by oblique whistler waves: Landau resonance vs. cyclotron resonance. <i>Physics of Plasmas</i> , 2013 , 20, 122901	2.1	44
65	VLF waves from ground-based transmitters observed by the Van Allen Probes: Statistical model and effects on plasmaspheric electrons. <i>Geophysical Research Letters</i> , 2017 , 44, 6483-6491	4.9	43
64	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. <i>Physical Review Letters</i> , 2016 , 116, 145101	7.4	40

63	Inner belt and slot region electron lifetimes and energization rates based on AKEBONO statistics of whistler waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2876-2893	2.6	40
62	Analytical estimates of quasi-linear diffusion coefficients and electron lifetimes in the inner radiation belt. <i>Journal of Geophysical Research</i> , 2012 , 117,		40
61	Fast transport of resonant electrons in phase space due to nonlinear trapping by whistler waves. <i>Geophysical Research Letters</i> , 2014 , 41, 5727-5733	4.9	39
60	Spatial Extent and Temporal Correlation of Chorus and Hiss: Statistical Results From Multipoint THEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8317-8330	2.6	39
59	Storm-induced energization of radiation belt electrons: Effect of wave obliquity. <i>Geophysical Research Letters</i> , 2013 , 40, 4138-4143	4.9	38
58	Properties of Intense Field-Aligned Lower-Band Chorus Waves: Implications for Nonlinear Wave-Particle Interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5379-5393	2.6	37
57	Parametric validations of analytical lifetime estimates for radiation belt electron diffusion by whistler waves. <i>Annales Geophysicae</i> , 2013 , 31, 599-624	2	37
56	Electron scattering and nonlinear trapping by oblique whistler waves: The critical wave intensity for nonlinear effects. <i>Physics of Plasmas</i> , 2014 , 21, 102903	2.1	35
55	Electron Nonlinear Resonant Interaction With Short and Intense Parallel Chorus Wave Packets. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4979-4999	2.6	35
54	Empirical model of lower band chorus wave distribution in the outer radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 10,425-10,442	2.6	33
53	Near-relativistic electron acceleration by Landau trapping in time domain structures. <i>Geophysical Research Letters</i> , 2016 , 43, 508-514	4.9	31
52	Exclusion principle for very oblique and parallel lower band chorus waves. <i>Geophysical Research Letters</i> , 2016 , 43, 11,112	4.9	31
51	Scaling laws for the inner structure of the radiation belts. <i>Geophysical Research Letters</i> , 2017 , 44, 3009-3018	4.9	30
50	Stability of relativistic electron trapping by strong whistler or electromagnetic ion cyclotron waves. <i>Physics of Plasmas</i> , 2015 , 22, 082901	2.1	30
49	Nonlinear Electron Interaction With Intense Chorus Waves: Statistics of Occurrence Rates. <i>Geophysical Research Letters</i> , 2019 , 46, 7182-7190	4.9	29
48	Probability of relativistic electron trapping by parallel and oblique whistler-mode waves in Earth's radiation belts. <i>Physics of Plasmas</i> , 2015 , 22, 112903	2.1	28
47	Kinetic equation for nonlinear resonant wave-particle interaction. <i>Physics of Plasmas</i> , 2016 , 23, 090701	2.1	27
46	Contemporaneous EMIC and whistler mode waves: Observations and consequences for MeV electron loss. <i>Geophysical Research Letters</i> , 2017 , 44, 8113-8121	4.9	26

45	Acceleration of radiation belts electrons by oblique chorus waves. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
44	Strong enhancement of 10-100 keV electron fluxes by combined effects of chorus waves and time domain structures. <i>Geophysical Research Letters</i> , 2016 , 43, 4683-4690	4.9	26
43	Evolution of Electron Distribution Driven by Nonlinear Resonances With Intense Field-Aligned Chorus Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8149-8169	2.6	26
42	Observational evidence of generation mechanisms for very oblique lower band chorus using THEMIS waveform data. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6732-6748	2.6	24
41	Probabilistic approach to nonlinear wave-particle resonant interaction. <i>Physical Review E</i> , 2017 , 95, 023204	2.4	22
40	Electron flux dropouts at Geostationary Earth Orbit: Occurrences, magnitudes, and main driving factors. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8448-8461	2.6	22
39	Long-term evolution of electron distribution function due to nonlinear resonant interaction with whistler mode waves. <i>Journal of Plasma Physics</i> , 2018 , 84,	2.7	20
38	Electron Flux Dropouts at L ~ 4.2 From Global Positioning System Satellites: Occurrences, Magnitudes, and Main Driving Factors. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,428-11,441 ¹⁹	2.6	19
37	Relativistic electron scattering by magnetosonic waves: Effects of discrete wave emission and high wave amplitudes. <i>Physics of Plasmas</i> , 2015 , 22, 062901	2.1	18
36	Phase Decoherence Within Intense Chorus Wave Packets Constrains the Efficiency of Nonlinear Resonant Electron Acceleration. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089807	4.9	18
35	Approximate analytical solutions for the trapped electron distribution due to quasi-linear diffusion by whistler mode waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9962-9977	2.6	15
34	Rapid Frequency Variations Within Intense Chorus Wave Packets. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088853	4.9	15
33	Time Scales for Electron Quasi-linear Diffusion by Lower-Band Chorus Waves: The Effects of B_e/B_0 Dependence on Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2019 , 46, 6178-6187	4.9	13
32	EMIC Wave-Driven Bounce Resonance Scattering of Energetic Electrons in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2484	2.6	13
31	Equatorial electron loss by double resonance with oblique and parallel intense chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4498-4517	2.6	13
30	Very Oblique Whistler Mode Propagation in the Radiation Belts: Effects of Hot Plasma and Landau Damping. <i>Geophysical Research Letters</i> , 2017 , 44, 12,057	4.9	13
29	Electron pitch-angle diffusion: resonant scattering by waves vs. nonadiabatic effects. <i>Annales Geophysicae</i> , 2013 , 31, 1485-1490	2	13
28	On Whistler Mode Wave Relation to Electron Field-Aligned Plateau Populations. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027735	2.6	12

27	Statistics of Extreme Time-Integrated Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2018 , 45, 502-510	4.0	12
26	Precipitation of MeV and Sub-MeV Electrons Due to Combined Effects of EMIC and ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7923-7935	2.6	11
25	Packets of cyclotron waves induced by electron beam injection from the space shuttle 1. Linear theory. <i>Radio Science</i> , 1991 , 26, 469-479	1.4	10
24	Impact of Significant Time-Integrated Geomagnetic Activity on 2-MeV Electron Flux. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4445-4461	2.6	9
23	Immediate and delayed responses of power lines and transformers in the Czech electric power grid to geomagnetic storms. <i>Journal of Space Weather and Space Climate</i> , 2020 , 10, 26	2.5	8
22	Generation of Realistic Short Chorus Wave Packets. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092178	1.7	8
21	Decay of Ultrarelativistic Remnant Belt Electrons Through Scattering by Plasmaspheric Hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5222-5233	2.6	7
20	High-Energy Electron Diffusion by Resonant Interactions with Whistler Mode Hiss. <i>Geophysical Monograph Series</i> , 2013 , 281-290	1.1	7
19	Statistical analysis of electron lifetimes at GEO: Comparisons with chorus-driven losses. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6356-6366	2.6	7
18	Outer Radiation Belt Electron Lifetime Model Based on Combined Van Allen Probes and Cluster VLF Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028018	2.6	6
17	Ionosphere Feedback to Electron Scattering by Equatorial Whistler Mode Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028373	2.6	6
16	Long-term dynamics driven by resonant wave-particle interactions: from Hamiltonian resonance theory to phase space mapping. <i>Journal of Plasma Physics</i> , 2021 , 87,	2.7	6
15	Transverse eV ion heating by random electric field fluctuations in the plasmasphere. <i>Physics of Plasmas</i> , 2017 , 24, 022903	2.1	5
14	Lifetimes of Relativistic Electrons as Determined From Plasmaspheric Hiss Scattering Rates Statistics: Effects of β_e/β_e and Wave Frequency Dependence on Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088052	4.9	5
13	Electron Lifetimes and Diffusion Rates Inferred From ELFIN Measurements at Low Altitude: First Results. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029757	2.6	5
12	Fine Structure of Chorus Wave Packets: Comparison Between Observations and Wave Generation Models. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029330	2.6	5
11	Role of Ducting in Relativistic Electron Loss by Whistler-Mode Wave Scattering. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029851	2.6	4
10	Dependence of Relativistic Electron Precipitation in the Ionosphere on EMIC Wave Minimum Resonant Energy at the Conjugate Equator. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029193	2.6	4

9	Superfast precipitation of energetic electrons in the radiation belts of the Earth.. <i>Nature Communications</i> , 2022 , 13, 1611	17.4	4
8	On the Confinement of Ultrarelativistic Electron Remnant Belts to Low Shells. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027469	2.6	3
7	Transitional regime of electron resonant interaction with whistler-mode waves in inhomogeneous space plasma.. <i>Physical Review E</i> , 2021 , 104, 055203	2.4	3
6	Dynamical Properties of Peak and Time-Integrated Geomagnetic Events Inferred From Sample Entropy. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027599	2.6	2
5	Approximate analytical formulation of radial diffusion and whistler-induced losses from a preexisting flux peak in the plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 7191-7208	2.6	2
4	Highly Oblique Lower-Band Chorus Statistics: Dependencies of Wave Power on Refractive Index and Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4767-4784	2.6	2
3	Electron Flux Enhancements at L = 4.2 Observed by Global Positioning System Satellites: Relationship With Solar Wind and Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6189-6206	2.6	1
2	Wave-particle interactions in the outer radiation belts. <i>Advances in Astronomy and Space Physics</i> , 2015 , 5, 68-74	0.2	1
1	Chorus and Hiss Scales in the Inner Magnetosphere: Statistics From High-Resolution Filter Bank (FBK) Van Allen Proves Multi-Point Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028998	2.6	0