

Oliver Allanson

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

326
citations

840776

11
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839539

18
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30
all docs

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docs citations

30
times ranked

256
citing authors

#	ARTICLE	IF	CITATIONS
1	The Development of a Space Climatology: 1. Solar Wind Magnetosphere Coupling as a Function of Timescale and the Effect of Data Gaps. <i>Space Weather</i> , 2019, 17, 133-156.	3.7	35
2	An exact collisionless equilibrium for the Force-Free Harris Sheet with low plasma beta. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	33
3	Electron Diffusion and Advection During Nonlinear Interactions With Whistlerâ€™Mode Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028793.	2.4	27
4	Particleâ€™Cell Experiments Examine Electron Diffusion by Whistlerâ€™Mode Waves: 2. Quasiâ€™Linear and Nonlinear Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027949.	2.4	25
5	Optical angular momentum in dispersive media. <i>Physical Review A</i> , 2012, 86, .	2.5	24
6	From one-dimensional fields to Vlasov equilibria: theory and application of Hermite polynomials. <i>Journal of Plasma Physics</i> , 2016, 82, .	2.1	23
7	Exact Vlasovâ€™Maxwell equilibria for asymmetric current sheets. <i>Geophysical Research Letters</i> , 2017, 44, 8685-8695.	4.0	19
8	The Development of a Space Climatology: 3. Models of the Evolution of Distributions of Space Weather Variables With Timescale. <i>Space Weather</i> , 2019, 17, 180-209.	3.7	17
9	Kinetic Models of Tangential Discontinuities in the Solar Wind. <i>Astrophysical Journal</i> , 2020, 891, 86.	4.5	17
10	Weak Turbulence and Quasilinear Diffusion for Relativistic Wave-Particle Interactions Via a Markov Approach. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	2.8	16
11	Collisionless current sheet equilibria. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014008.	2.1	14
12	Neutral and non-neutral collisionless plasma equilibria for twisted flux tubes: The Gold-Hoyle model in a background field. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	13
13	Particleâ€™Cell Experiments Examine Electron Diffusion by Whistlerâ€™mode Waves: 1. Benchmarking With a Cold Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8893-8912.	2.4	12
14	The Development of a Space Climatology: 2. The Distribution of Power Input Into the Magnetosphere on a 3â€™Hourly Timescale. <i>Space Weather</i> , 2019, 17, 157-179.	3.7	12
15	The in-situ exploration of Jupiterâ€™s radiation belts. <i>Experimental Astronomy</i> , 2022, 54, 745-789.	3.7	11
16	Drift Orbit Bifurcations and Crossâ€™Field Transport in the Outer Radiation Belt: Global MHD and Integrated Testâ€™Particle Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029802.	2.4	9
17	A family of Vlasovâ€™Maxwell equilibrium distribution functions describing a transition from the Harris sheet to the force-free Harris sheet. <i>Journal of Plasma Physics</i> , 2020, 86, .	2.1	7
18	Force-free collisionless current sheet models with non-uniform temperature and density profiles. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	6

#	ARTICLE	IF	CITATIONS
19	Collisionless distribution functions for force-free current sheets: using a pressure transformation to lower the plasma beta. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	3
20	On the inverse problem for Channell collisionless plasma equilibria. <i>IMA Journal of Applied Mathematics</i> , 2018, 83, 849-873.	1.6	2
21	Neutral and Non-neutral Flux Tube Equilibria. <i>Springer Theses</i> , 2018, , 137-180.	0.1	0
22	Autumn MIST 2018: 60 years of radiation belts. <i>Astronomy and Geophysics</i> , 2019, 60, 2.32-2.36.	0.2	0
23	Zooming through the MIST. <i>Astronomy and Geophysics</i> , 2021, 62, 3.24-3.27.	0.2	0
24	One-Dimensional Asymmetric Current Sheets. <i>Springer Theses</i> , 2018, , 113-136.	0.1	0
25	One-Dimensional Nonlinear Force-Free Current Sheets. <i>Springer Theses</i> , 2018, , 69-112.	0.1	0
26	The Use of Hermite Polynomials for the Inverse Problem in One-Dimensional Vlasov-Maxwell Equilibria. <i>Springer Theses</i> , 2018, , 41-67.	0.1	0