

Oliver Allanson

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

326
citations

949033

11
h-index

939365

18
g-index

30
all docs

30
docs citations

30
times ranked

264
citing authors

#	ARTICLE	IF	CITATIONS
1	The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 2022, 54, 745-789.	1.6	11
2	Weak Turbulence and Quasilinear Diffusion for Relativistic Wave-Particle Interactions Via a Markov Approach. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 8, .	1.1	16
3	Electron Diffusion and Advection During Nonlinear Interactions With Whistler-Mode Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028793.	0.8	27
4	Zooming through the MIST. <i>Astronomy and Geophysics</i> , 2021, 62, 3.24-3.27.	0.1	0
5	Drift Orbit Bifurcations and Cross-Field Transport in the Outer Radiation Belt: Global MHD and Integrated Test-Particle Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029802.	0.8	9
6	Particle-in-Cell Experiments Examine Electron Diffusion by Whistler-Mode Waves: 2. Quasilinear and Nonlinear Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027949.	0.8	25
7	A family of Vlasov-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, .	0.7	7
8	Kinetic Models of Tangential Discontinuities in the Solar Wind. <i>Astrophysical Journal</i> , 2020, 891, 86.	1.6	17
9	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.	1.3	35
10	Particle-in-Cell Experiments Examine Electron Diffusion by Whistler-Mode Waves: 1. Benchmarking With a Cold Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8893-8912.	0.8	12
11	The Development of a Space Climatology: 2. The Distribution of Power Input Into the Magnetosphere on a 3-Hourly Timescale. <i>Space Weather</i> , 2019, 17, 157-179.	1.3	12
12	Autumn MIST 2018: 60 years of radiation belts. <i>Astronomy and Geophysics</i> , 2019, 60, 2.32-2.36.	0.1	0
13	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.	1.3	17
14	Collisionless current sheet equilibria. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 014008.	0.9	14
15	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, .	0.7	3
16	Neutral and Non-neutral Flux Tube Equilibria. <i>Springer Theses</i> , 2018, , 137-180.	0.0	0
17	On the inverse problem for Channell collisionless plasma equilibria. <i>IMA Journal of Applied Mathematics</i> , 2018, 83, 849-873.	0.8	2
18	One-Dimensional Asymmetric Current Sheets. <i>Springer Theses</i> , 2018, , 113-136.	0.0	0

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19	One-Dimensional Nonlinear Force-Free Current Sheets. Springer Theses, 2018, , 69-112.	0.0	0
20	The Use of Hermite Polynomials for the Inverse Problem in One-Dimensional Vlasov-Maxwell Equilibria. Springer Theses, 2018, , 41-67.	0.0	0
21	Force-free collisionless current sheet models with non-uniform temperature and density profiles. Physics of Plasmas, 2017, 24, .	0.7	6
22	Exact Vlasov-Maxwell equilibria for asymmetric current sheets. Geophysical Research Letters, 2017, 44, 8685-8695.	1.5	19
23	From one-dimensional fields to Vlasov equilibria: theory and application of Hermite polynomials. Journal of Plasma Physics, 2016, 82, .	0.7	23
24	Neutral and non-neutral collisionless plasma equilibria for twisted flux tubes: The Gold-Hoyle model in a background field. Physics of Plasmas, 2016, 23, .	0.7	13
25	An exact collisionless equilibrium for the Force-Free Harris Sheet with low plasma beta. Physics of Plasmas, 2015, 22, .	0.7	33
26	Optical angular momentum in dispersive media. Physical Review A, 2012, 86, .	1.0	24