

Jason R Shuster

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

726
citations

687363

13
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395.	12.6	221
2	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. <i>Geophysical Research Letters</i> , 2016, 43, 5918-5925.	4.0	86
3	Spatiotemporal evolution of electron characteristics in the electron diffusion region of magnetic reconnection: Implications for acceleration and heating. <i>Geophysical Research Letters</i> , 2015, 42, 2586-2593.	4.0	60
4	Electron distribution functions in the electron diffusion region of magnetic reconnection: Physics behind the fine structures. <i>Geophysical Research Letters</i> , 2014, 41, 8688-8695.	4.0	55
5	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electron-scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5Åms Fast Plasma Investigation Moments. <i>Geophysical Research Letters</i> , 2018, 45, 578-584.	4.0	52
6	The Role of the Parallel Electric Field in Electron-scale Dissipation at Reconnecting Currents in the Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6533-6547.	2.4	40
7	High-resolution Measurements of the Cross-shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3961-3978.	2.4	36
8	Highly structured electron anisotropy in collisionless reconnection exhausts. <i>Geophysical Research Letters</i> , 2014, 41, 5389-5395.	4.0	33
9	Electron heating in the exhaust of magnetic reconnection with negligible guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2104-2130.	2.4	27
10	Energy partitioning constraints at kinetic scales in low- β^2 turbulence. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	25
11	Magnetospheric Multiscale Mission observations and non-force free modeling of a flux transfer event immersed in a super-Alfvénic flow. <i>Geophysical Research Letters</i> , 2016, 43, 6070-6077.	4.0	22
12	MMS Measurements of the Vlasov Equation: Probing the Electron Pressure Divergence Within Thin Current Sheets. <i>Geophysical Research Letters</i> , 2019, 46, 7862-7872.	4.0	19
13	Structures in the terms of the Vlasov equation observed at Earth's magnetopause. <i>Nature Physics</i> , 2021, 17, 1056-1065.	16.7	15
14	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 146-162.	2.4	10
15	Hodographic approach for determining spacecraft trajectories through magnetic reconnection diffusion regions. <i>Geophysical Research Letters</i> , 2017, 44, 1625-1633.	4.0	7
16	Theory, observations, and simulations of kinetic entropy in a magnetotail electron diffusion region. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7
17	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Sub-Alfvénic Flow. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9934-9951.	2.4	3
18	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8983-9004.	2.4	3

#	ARTICLE	IF	CITATIONS
19	EDR signatures observed by MMS in the 16 October event presented in a 2D parametric space. Journal of Geophysical Research: Space Physics, 2017, 122, 3262-3276.	2.4	2
20	Electron-scale temperature gradients in kinetic equilibrium: MMS observations and Vlasov-Maxwell solutions. Physics of Plasmas, 2021, 28, .	1.9	2
21	Three Solar Irradiance Proxies for Aperture Photoelectron Detections in Top Hat ESAs Coated With Ebonol. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	1