

Antonius Otto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8495975/publications.pdf>

Version: 2024-02-01

50
papers

3,402
citations

218592

26
h-index

182361

51
g-index

51
all docs

51
docs citations

51
times ranked

1854
citing authors

#	ARTICLE	IF	CITATIONS
1	Geospace Environmental Modeling (GEM) Magnetic Reconnection Challenge. <i>Journal of Geophysical Research</i> , 2001, 106, 3715-3719.	3.3	1,071
2	Kelvin-Helmholtz instability at the magnetotail boundary: MHD simulation and comparison with Geotail observations. <i>Journal of Geophysical Research</i> , 2000, 105, 21175-21190.	3.3	261
3	Plasma transport at the magnetospheric boundary due to reconnection in Kelvin-Helmholtz vortices. <i>Geophysical Research Letters</i> , 2001, 28, 3565-3568.	1.5	261
4	Geotail observations of the Kelvin-Helmholtz instability at the equatorial magnetotail boundary for parallel northward fields. <i>Journal of Geophysical Research</i> , 2000, 105, 21159-21173.	3.3	257
5	Cluster observations of reconnection due to the Kelvin-Helmholtz instability at the dawnside magnetospheric flank. <i>Annales Geophysicae</i> , 2006, 24, 2619-2643.	0.6	143
6	Tearing instability, Kelvin-Helmholtz instability, and magnetic reconnection. <i>Journal of Geophysical Research</i> , 1997, 102, 151-161.	3.3	112
7	3D resistive MHD computations of magnetospheric physics. <i>Computer Physics Communications</i> , 1990, 59, 185-195.	3.0	86
8	Explosive Magnetotail Activity. <i>Space Science Reviews</i> , 2019, 215, 31.	3.7	75
9	Magnetic reconnection induced by weak Kelvin-Helmholtz instability and the formation of the low-latitude boundary layer. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	69
10	Influence of the Hall term on KH instability and reconnection inside KH vortices. <i>Annales Geophysicae</i> , 2004, 22, 935-949.	0.6	67
11	Interaction of magnetic reconnection and Kelvin-Helmholtz modes for large magnetic shear: 1. Kelvin-Helmholtz trigger. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 781-797.	0.8	67
12	Magnetic flux circulation in the rotationally driven giant magnetospheres. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4229-4245.	0.8	67
13	Structure of an MHD-scale Kelvin-Helmholtz vortex: Two-dimensional two-fluid simulations including finite electron inertial effects. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	60
14	Magnetotail reconnection: Current diversion and field-aligned currents. <i>Geophysical Research Letters</i> , 1991, 18, 733-736.	1.5	53
15	Plasma Transport Driven by the Three-Dimensional Kelvin-Helmholtz Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,382.	0.8	51
16	Interaction of magnetic reconnection and Kelvin-Helmholtz modes for large magnetic shear: 2. Reconnection trigger. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 808-820.	0.8	45
17	Magnetic reconnection in the presence of sheared plasma flow: Intermediate shock formation. <i>Physics of Plasmas</i> , 1994, 1, 706-713.	0.7	43
18	Dayside Transient Phenomena and Their Impact on the Magnetosphere and Ionosphere. <i>Space Science Reviews</i> , 2022, 218, .	3.7	35

#	ARTICLE	IF	CITATIONS
19	The resistive tearing instability for generalized resistivity models: Applications. <i>Physics of Fluids B</i> , 1991, 3, 1746-1754.	1.7	32
20	Asymmetric Kelvinâ€Helmholtz propagation at Saturn's dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1867-1875.	0.8	32
21	Ionosphere-magnetosphere simulation of small-scale structure and dynamics. <i>Journal of Geophysical Research</i> , 2001, 106, 1795-1806.	3.3	31
22	Cluster observations of a cusp diamagnetic cavity: Structure, size, and dynamics. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	31
23	Quiescent Discrete Auroral Arcs: A Review of Magnetospheric Generator Mechanisms. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	31
24	The influence of magnetic flux depletion on the magnetotail and auroral morphology during the substorm growth phase. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3430-3443.	0.8	30
25	On the origin of fluctuations in the cusp diamagnetic cavity. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	28
26	Influence of velocity fluctuations on the Kelvinâ€Helmholtz instability and its associated mass transport. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9489-9512.	0.8	28
27	THEMIS satellite observations of hot flow anomalies at Earth's bow shock. <i>Annales Geophysicae</i> , 2017, 35, 443-451.	0.6	27
28	Force-free magnetic field extrapolation for MHD boundary conditions in simulations of the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2007, 468, 313-321.	2.1	25
29	Auroral precipitation/ion upwelling as a driver of neutral density enhancement in the cusp. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 87-88, 82-90.	0.6	24
30	Local time dependence of turbulent magnetic fields in Saturn's magnetodisc. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3972-3984.	0.8	21
31	Plasma transport driven by the Rayleighâ€Taylor instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5260-5271.	0.8	19
32	Interaction between reconnection and Kelvinâ€Helmholtz at the high-latitude magnetopause. <i>Advances in Space Research</i> , 2016, 58, 231-239.	1.2	18
33	MHD Stability of Magnetotail Configurations With a B_z Hump. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3477-3492.	0.8	18
34	3-D mesoscale MHD simulations of a cusp-like magnetic configuration: method and first results. <i>Annales Geophysicae</i> , 2011, 29, 759-770.	0.6	17
35	The Kelvinâ€Helmholtz instability under Parker-Spiral Interplanetary Magnetic Field conditions at the magnetospheric flanks. <i>Advances in Space Research</i> , 2016, 58, 218-230.	1.2	16
36	Magnetic Connectivity in the Corona as a Source of Structure in the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 32-49.	0.8	16

#	ARTICLE	IF	CITATIONS
37	Mechanisms of field-aligned current formation in magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4906-4914.	0.8	15
38	Nonadiabatic heating in magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5575-5588.	0.8	15
39	Excitation of tall auroral rays by ohmic heating in field-aligned current filaments at F region heights. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	12
40	Equator-S observations of boundary signatures: FTE's or Kelvin-Helmholtz waves?. <i>Geophysical Monograph Series</i> , 2003, , 205-210.	0.1	11
41	Development of electric currents in a magnetic field configuration containing a magnetic null point. <i>Astronomy and Astrophysics</i> , 2011, 525, A3.	2.1	11
42	Magnetic Reconnection of Solar Flux Tubes and Coronal Reconnection Signatures in the Solar Wind at 1 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8227-8254.	0.8	11
43	3-D mesoscale MHD simulations of magnetospheric cusp-like configurations: cusp diamagnetic cavities and boundary structure. <i>Annales Geophysicae</i> , 2012, 30, 325-341.	0.6	10
44	Magnetic reconnection with a fast perpendicular sheared flow. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9427-9442.	0.8	10
45	On the role of current dissipation in the energization of coronal bright points. <i>Astronomy and Astrophysics</i> , 2013, 557, A118.	2.1	8
46	Flux Tube Entropy and Specific Entropy in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1593-1611.	0.8	8
47	Bow shock transients caused by solar wind dynamic pressure depletions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 218, 105615.	0.6	5
48	MMS Observations of Double Mid-Latitude Reconnection Ion Beams in the Early Non-Linear Phase of the Kelvin-Helmholtz Instability. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	5
49	Cusp Dynamics and Polar Cap Patch Formation Associated With a Small IMF Southward Turning. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029090.	0.8	4
50	The Structure of the Cusp Diamagnetic Cavity and Test Particle Energization in the GAMERA Global MHD Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	2