Charles E Seyler

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7422518/charles-e-seyler-publications-by-year.pdf
Version: 2024-04-09

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.

77 papers	1,829 citations	26 h-index	40 g-index
83 ext. papers	1,936 ext. citations	2.7 avg, IF	4.69 L-index

#	Paper	IF	Citations
77	Plasma thermal transport with a generalized 8-moment distribution function. *Physics of Plasmas*, **2022**, 29, 034502	2.1	
76	Erratum to Design of a 3-D Printed Experimental Platform for Studying the Formation and Magnetization of Turbulent Plasma Jets [Nov 20 4056-4067]. *IEEE Transactions on Plasma Science*, **2021**, 49, 1259-1259	1.3	
75	Formulation of 8-moment plasma transport with application to the Nernst effect. *Physics of Plasmas*, **2021**, 28, 022306	2.1	2
74	Current polarity effects on laboratory plasma jets. *Physics of Plasmas*, **2021**, 28, 082703	2.1	2
73	Extended magnetohydrodynamics simulations of thin-foil Z-pinch implosions with comparison to experiments. *Physics of Plasmas*, **2020**, 27, 092705	2.1	3
72	Axial magnetic flux amplification in Hall-magnetohydrodynamic simulations of externally magnetized z-pinches. *Physics of Plasmas*, **2020**, 27, 092102	2.1	6
71	Design of a 3-D Printed Experimental Platform for Studying the Formation and Magnetization of Turbulent Plasma Jets. *IEEE Transactions on Plasma Science*, **2020**, 48, 4056-4067	1.3	1
70	Plasma Jet Formation Disruption From a Critical Applied Uniform Axial Magnetic Field. *IEEE Transactions on Plasma Science*, **2019**, 47, 3204-3213	1.3	
69	Power Flow in Pulsed-Power Systems: The Influence of Hall Physics and Modeling of the Plasma–Vacuum Interface. *IEEE Transactions on Plasma Science*, **2019**, 47, 2064-2073	1.3	
68	The influence of Hall physics on power-flow along a coaxial transmission line. *Physics of Plasmas*, **2018**, 25, 102705	2.1	5
67	The Generation of Warm Dense Matter Using a Magnetic Anvil Cell. *IEEE Transactions on Plasma Science*, **2018**, 46, 3968-3972	1.3	3
66	The influence of the Hall term on the development of magnetized laser-produced plasma jets. *Physics of Plasmas*, **2018**, 25, 042906	2.1	5
65	External Magnetic Field Effects on Ablation of Current-Driven Foils Using an Extended Magnetohydrodynamics Simulation. *IEEE Transactions on Plasma Science*, **2018**, 46, 3746-3752	1.3	3
64	Helical instability in MagLIF due to axial flux compression by low-density plasma. *Physics of Plasmas*, **2018**, 25, 062711	2.1	29
63	Axial magnetic field injection in magnetized liner inertial fusion. *Physics of Plasmas*, **2017**, 24, 102712	2.1	11
62	Applied axial magnetic field effects on laboratory plasma jets: Density hollowing, field compression, and azimuthal rotation. *Physics of Plasmas*, **2017**, 24, 122701	2.1	16
61	Extended Magnetohydrodynamic Plasma Jets With External Magnetic Fields. *IEEE Transactions on Plasma Science*, **2016**, 44, 638-642	1.3	8

60	Relativistic Modeling Capabilities in PERSEUS Extended-MHD Simulation Code for HED Plasmas. *IEEE Transactions on Plasma Science*, **2016**, 44, 1112-1126	1.3	1
59	Investigation of radiative bow-shocks in magnetically accelerated plasma flows. *Physics of Plasmas*, **2015**, 22, 052710	2.1	9
58	Computational extended magneto-hydrodynamical study of shock structure generated by flows past an obstacle. *Physics of Plasmas*, **2015**, 22, 072102	2.1	4
57	Magnetized laboratory plasma jets: experiment and simulation. *Physical Review E*, **2015**, 91, 013110	2.4	7
56	Modeling of strongly collimated jets produced by high energy density plasmas on COBRA. *Plasma Physics and Controlled Fusion*, **2014**, 56, 035002	2	8
55	The impact of Hall physics on magnetized high energy density plasma jetsa). *Physics of Plasmas*, **2014**, 21, 056307	2.1	11
54	A positivity-preserving semi-implicit discontinuous Galerkin scheme for solving extended magnetohydrodynamics equations. *Journal of Computational Physics*, **2014**, 278, 400-415	4.1	27
53	Impact of the Hall effect on high-energy-density plasma jets. *Physical Review Letters*, **2013**, 110, 015002	7.4	23
52	Three-dimensional modeling of the electromagnetic characteristics of equatorial plasma depletions. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3505-3514	2.6	6
51	Pinching of ablation streams via magnetic field curvature in wire-array Z-pinches. *Physics of Plasmas* , **2012**, 19, 022109	2.1	7
50	Anode□athode Asymmetry in a Wire-Array Z-Pinch: Highly Resolved Axial-Shear-Flow Structure Observed on the Outer Edges of Ablating Wires. *IEEE Transactions on Plasma Science*, **2011**, 39, 2430-2431	1.3	2
49	Relaxation model for extended magnetohydrodynamics: Comparison to magnetohydrodynamics for dense Z-pinches. *Physics of Plasmas*, **2011**, 18, 012703	2.1	45
48	The role of magnetic field in the transition to streaming ablation in wire arrays. *Physics of Plasmas*, **2010**, 17, 052706	2.1	15
47	Two-dimensional turbulence, space shuttle plume transport in the thermosphere, and a possible relation to the Great Siberian Impact Event. *Geophysical Research Letters*, **2009**, 36,	4.9	24
46	Particle energization by oblique inertial Alfv□ waves in the auroral region. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		46
45	Particle-in-cell simulations of current shear-driven instabilities and the generation of broadband ELF fluctuations. *Journal of Geophysical Research*, **2006**, 111,		9
44	Internal waves and undular bores in mesospheric inversion layers. *Journal of Geophysical Research*, **2005**, 110,		26
43	SIERRA observations of Alfv□ic processes in the topside auroral ionosphere. *Journal of Geophysical Research*, **2005**, 110,		19

42	The relationship between field-aligned currents and low-frequency electromagnetic fluctuations. *Geophysical Research Letters*, **2003**, 30,	4.9	11
41	Instability of inertial Alfvén waves in transverse sheared flow. *Journal of Geophysical Research*, **2003**, 108,		22
40	WIGNER FUNCTION IN THE SYMMETRIC GAUGE: DE HAAS-VAN ALPHEN OSCILLATIONS, MAGNETIC FIELD LOCALIZATION AND UNCERTAINTY PRINCIPLE. *International Journal of Modern Physics B*, **2003**, 17, 4683-4732	1.1	4
39	THE QUANTUM WIGNER FUNCTION IN A MAGNETIC FIELD. *International Journal of Modern Physics B*, **2003**, 17, 4555-4592	1.1	10
38	Magnetic bubbles and kinetic Alfvén waves in the high-latitude magnetopause boundary. *Journal of Geophysical Research*, **2001**, 106, 29503-29514		38
37	Instability at the electron inertial scale. *Journal of Geophysical Research*, **2001**, 106, 21623-21644		26
36	On the perpendicular scale of electron phase-space holes. *Geophysical Research Letters*, **2000**, 27, 169-172	4.9	77
35	On the existence of Alfvénic solitary waves. *Physics of Plasmas*, **1999**, 6, 4778-4780	2.1	10
34	Electron beam formation by small-scale oblique inertial Alfvén waves. *Journal of Geophysical Research*, **1999**, 104, 17233-17249		32
33	Observation of Bound States and Counterrotating Lower Hybrid Eigenmodes in the Auroral Ionosphere. *Physical Review Letters*, **1998**, 80, 5734-5737	7.4	29
32	Broadband ELF plasma emission during auroral energization: 1. Slow ion acoustic waves. *Journal of Geophysical Research*, **1998**, 103, 4343-4375		100
31	Electrostatic broadband ELF wave emission by Alfvén wave breaking. *Journal of Geophysical Research*, **1998**, 103, 7027-7041		30
30	Theory of nearly perpendicular electrostatic plasma waves and comparison to Freja satellite observations. *Journal of Geophysical Research*, **1996**, 101, 21795-21813		37
29	On the most probable states of two-dimensional plasmas. *Journal of Plasma Physics*, **1996**, 56, 553-567	2.7	2
28	Theory and simulation of low-frequency plasma waves and comparison to Freja satellite observations. *Journal of Geophysical Research*, **1995**, 100, 21453-21472		46
27	Nonlinear magnetic field transport in opening switch plasmas. *Physics of Fluids B*, **1993**, 5, 1115-1127		29
26	Electron acceleration by Alfvén waves in the magnetosphere. *Journal of Geophysical Research*, **1992**, 97, 3953		93
25	Kinetic stabilization of interchange modes in an axisymmetric mirror by large orbit radius thermal ions. *Physics of Fluids B*, **1991**, 3, 1015-1025		3

24	Reduced magnetofluid dynamics in the lower-hybrid frequency range. *Physics of Fluids B*, **1991**, 3, 2449-2451		17
23	A mathematical model of the structure and evolution of small-scale discrete auroral arcs. *Journal of Geophysical Research*, **1990**, 95, 17199		94
22	Nonlinear 3-D evolution of bounded kinetic Alfven waves due to shear flow and collisionless tearing instability. *Geophysical Research Letters*, **1988**, 15, 756-759	4.9	45
21	Symmetry properties of a multidimensional dispersion functional. *Physics of Fluids*, **1987**, 30, 2414		4
20	Particle and fluid simulations of resistive current-driven electrostatic ion cyclotron waves. *Physics of Fluids*, **1987**, 30, 3113		16
19	Stimulated Raman scattering of nonlinear space-charge and transverse magnetic waves with a longitudinal wiggler. *Physics of Fluids*, **1987**, 30, 190		18
18	Kinetic tilting stability of field-reversed configurations. *Physics of Fluids*, **1986**, 29, 2616		82
17	The status of observations and theory of high latitude ionospheric and magnetospheric plasma turbulence. *Space Science Reviews*, **1985**, 41, 91	7.5	109
16	The dispersion functional for multidimensional equilibria. *Physics of Fluids*, **1985**, 28, 3546		12
15	Inadequacies of finite Larmor radius treatments of the internal tilting instability in field-reversed configurations. *Physics of Fluids*, **1984**, 27, 2151		13
14	Nonlinear space-charge wave propagation on thin annular electron beams. *Physics of Fluids*, **1984**, 27, 1808		7
13	A symmetric regularized-long-wave equation. *Physics of Fluids*, **1984**, 27, 4		80
12	Magnetohydrodynamic equilibrium and stability of field-reversed configurations. *Physics of Fluids*, **1983**, 26, 1295		47
11	Stability of Vlasov equilibria. Part 1. General theory. *Journal of Plasma Physics*, **1982**, 27, 13-24	2.7	24
10	Stability of Vlasov equilibria. Part 2. One non-ignorable co-ordinate. *Journal of Plasma Physics*, **1982** , 27, 25-35	2.7	15
9	Stability of Vlasov equilibria. Part 3. Models. *Journal of Plasma Physics*, **1982**, 27, 37-53	2.7	20
8	Reconnection Phenomena during the Formation Phase of Field-Reversal Experiments. *Physical Review Letters*, **1981**, 46, 1519-1522	7.4	13
7	Finite Larmor radius model for axisymmetric compact toroids. *Physics of Fluids*, **1981**, 24, 1989		15

6	Resonant particle effects on finite Larmor radius stabilization. *Physics of Fluids*, **1980**, 23, 331		23
5	Vlasov-fluid stability of a rigidly rotating theta pinch. *Physics of Fluids*, **1979**, 22, 2324		33
4	Thermodynamics of two-dimensional plasmas or discrete line vortex fluids. *Physics of Fluids*, **1976**, 19, 1336		38
3	Two-dimensional turbulence in inviscid fluids or guiding center plasmas. *Physics of Fluids*, **1975**, 18, 803		89
2	Partition function for a two-dimensional plasma in the random-phase approximation. *Physical Review Letters*, **1974**, 32, 515-517	7.4	28
1	Pulse propagation in a magnetoplasma: 1. Longitudinal propagation. *Journal of Geophysical Research*, **1972**, 77, 4237-4241		5