

Charles E Seyler

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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	The status of observations and theory of high latitude ionospheric and magnetospheric plasma turbulence. <i>Space Science Reviews</i> , 1985 , 41, 91	7.5	109
76	Broadband ELF plasma emission during auroral energization: 1. Slow ion acoustic waves. <i>Journal of Geophysical Research</i> , 1998 , 103, 4343-4375		100
75	A mathematical model of the structure and evolution of small-scale discrete auroral arcs. <i>Journal of Geophysical Research</i> , 1990 , 95, 17199		94
74	Electron acceleration by Alfvén waves in the magnetosphere. <i>Journal of Geophysical Research</i> , 1992 , 97, 3953		93
73	Two-dimensional turbulence in inviscid fluids or guiding center plasmas. <i>Physics of Fluids</i> , 1975 , 18, 803		89
72	Kinetic tilting stability of field-reversed configurations. <i>Physics of Fluids</i> , 1986 , 29, 2616		82
71	A symmetric regularized-long-wave equation. <i>Physics of Fluids</i> , 1984 , 27, 4		80
70	On the perpendicular scale of electron phase-space holes. <i>Geophysical Research Letters</i> , 2000 , 27, 169-172	7.9	77
69	Magnetohydrodynamic equilibrium and stability of field-reversed configurations. <i>Physics of Fluids</i> , 1983 , 26, 1295		47
68	Particle energization by oblique inertial Alfvén waves in the auroral region. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		46
67	Theory and simulation of low-frequency plasma waves and comparison to Freja satellite observations. <i>Journal of Geophysical Research</i> , 1995 , 100, 21453-21472		46
66	Relaxation model for extended magnetohydrodynamics: Comparison to magnetohydrodynamics for dense Z-pinches. <i>Physics of Plasmas</i> , 2011 , 18, 012703	2.1	45
65	Nonlinear 3-D evolution of bounded kinetic Alfvén waves due to shear flow and collisionless tearing instability. <i>Geophysical Research Letters</i> , 1988 , 15, 756-759	4.9	45
64	Magnetic bubbles and kinetic Alfvén waves in the high-latitude magnetopause boundary. <i>Journal of Geophysical Research</i> , 2001 , 106, 29503-29514		38
63	Thermodynamics of two-dimensional plasmas or discrete line vortex fluids. <i>Physics of Fluids</i> , 1976 , 19, 1336		38
62	Theory of nearly perpendicular electrostatic plasma waves and comparison to Freja satellite observations. <i>Journal of Geophysical Research</i> , 1996 , 101, 21795-21813		37
61	Vlasov-fluid stability of a rigidly rotating theta pinch. <i>Physics of Fluids</i> , 1979 , 22, 2324		33

60	Electron beam formation by small-scale oblique inertial Alfvén waves. <i>Journal of Geophysical Research</i> , 1999 , 104, 17233-17249		32
59	Electrostatic broadband ELF wave emission by Alfvén wave breaking. <i>Journal of Geophysical Research</i> , 1998 , 103, 7027-7041		30
58	Observation of Bound States and Counterrotating Lower Hybrid Eigenmodes in the Auroral Ionosphere. <i>Physical Review Letters</i> , 1998 , 80, 5734-5737	7.4	29
57	Nonlinear magnetic field transport in opening switch plasmas. <i>Physics of Fluids B</i> , 1993 , 5, 1115-1127		29
56	Helical instability in MagLIF due to axial flux compression by low-density plasma. <i>Physics of Plasmas</i> , 2018 , 25, 062711	2.1	29
55	Partition function for a two-dimensional plasma in the random-phase approximation. <i>Physical Review Letters</i> , 1974 , 32, 515-517	7.4	28
54	A positivity-preserving semi-implicit discontinuous Galerkin scheme for solving extended magnetohydrodynamics equations. <i>Journal of Computational Physics</i> , 2014 , 278, 400-415	4.1	27
53	Internal waves and undular bores in mesospheric inversion layers. <i>Journal of Geophysical Research</i> , 2005 , 110,		26
52	Instability at the electron inertial scale. <i>Journal of Geophysical Research</i> , 2001 , 106, 21623-21644		26
51	Two-dimensional turbulence, space shuttle plume transport in the thermosphere, and a possible relation to the Great Siberian Impact Event. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	24
50	Stability of Vlasov equilibria. Part 1. General theory. <i>Journal of Plasma Physics</i> , 1982 , 27, 13-24	2.7	24
49	Impact of the Hall effect on high-energy-density plasma jets. <i>Physical Review Letters</i> , 2013 , 110, 015002	7.4	23
48	Resonant particle effects on finite Larmor radius stabilization. <i>Physics of Fluids</i> , 1980 , 23, 331		23
47	Instability of inertial Alfvén waves in transverse sheared flow. <i>Journal of Geophysical Research</i> , 2003 , 108,		22
46	Stability of Vlasov equilibria. Part 3. Models. <i>Journal of Plasma Physics</i> , 1982 , 27, 37-53	2.7	20
45	SIERRA observations of Alfvénic processes in the topside auroral ionosphere. <i>Journal of Geophysical Research</i> , 2005 , 110,		19
44	Stimulated Raman scattering of nonlinear space-charge and transverse magnetic waves with a longitudinal wiggler. <i>Physics of Fluids</i> , 1987 , 30, 190		18
43	Reduced magnetofluid dynamics in the lower-hybrid frequency range. <i>Physics of Fluids B</i> , 1991 , 3, 2449-2451		17

42	Applied axial magnetic field effects on laboratory plasma jets: Density hollowing, field compression, and azimuthal rotation. <i>Physics of Plasmas</i> , 2017 , 24, 122701	2.1	16
41	Particle and fluid simulations of resistive current-driven electrostatic ion cyclotron waves. <i>Physics of Fluids</i> , 1987 , 30, 3113		16
40	The role of magnetic field in the transition to streaming ablation in wire arrays. <i>Physics of Plasmas</i> , 2010 , 17, 052706	2.1	15
39	Finite Larmor radius model for axisymmetric compact toroids. <i>Physics of Fluids</i> , 1981 , 24, 1989		15
38	Stability of Vlasov equilibria. Part 2. One non-ignorable co-ordinate. <i>Journal of Plasma Physics</i> , 1982 , 27, 25-35	2.7	15
37	Inadequacies of finite Larmor radius treatments of the internal tilting instability in field-reversed configurations. <i>Physics of Fluids</i> , 1984 , 27, 2151		13
36	Reconnection Phenomena during the Formation Phase of Field-Reversal Experiments. <i>Physical Review Letters</i> , 1981 , 46, 1519-1522	7.4	13
35	The dispersion functional for multidimensional equilibria. <i>Physics of Fluids</i> , 1985 , 28, 3546		12
34	Axial magnetic field injection in magnetized liner inertial fusion. <i>Physics of Plasmas</i> , 2017 , 24, 102712	2.1	11
33	The impact of Hall physics on magnetized high energy density plasma jets. <i>Physics of Plasmas</i> , 2014 , 21, 056307	2.1	11
32	The relationship between field-aligned currents and low-frequency electromagnetic fluctuations. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	11
31	THE QUANTUM WIGNER FUNCTION IN A MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2003 , 17, 4555-4592	1.1	10
30	On the existence of Alfvénic solitary waves. <i>Physics of Plasmas</i> , 1999 , 6, 4778-4780	2.1	10
29	Investigation of radiative bow-shocks in magnetically accelerated plasma flows. <i>Physics of Plasmas</i> , 2015 , 22, 052710	2.1	9
28	Particle-in-cell simulations of current shear-driven instabilities and the generation of broadband ELF fluctuations. <i>Journal of Geophysical Research</i> , 2006 , 111,		9
27	Extended Magnetohydrodynamic Plasma Jets With External Magnetic Fields. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 638-642	1.3	8
26	Modeling of strongly collimated jets produced by high energy density plasmas on COBRA. <i>Plasma Physics and Controlled Fusion</i> , 2014 , 56, 035002	2	8
25	Magnetized laboratory plasma jets: experiment and simulation. <i>Physical Review E</i> , 2015 , 91, 013110	2.4	7

24	Pinching of ablation streams via magnetic field curvature in wire-array Z-pinches. <i>Physics of Plasmas</i> , 2012 , 19, 022109	2.1	7
23	Nonlinear space-charge wave propagation on thin annular electron beams. <i>Physics of Fluids</i> , 1984 , 27, 1808		7
22	Three-dimensional modeling of the electromagnetic characteristics of equatorial plasma depletions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3505-3514	2.6	6
21	Axial magnetic flux amplification in Hall-magnetohydrodynamic simulations of externally magnetized z-pinches. <i>Physics of Plasmas</i> , 2020 , 27, 092102	2.1	6
20	Pulse propagation in a magnetoplasma: 1. Longitudinal propagation. <i>Journal of Geophysical Research</i> , 1972 , 77, 4237-4241		5
19	The influence of Hall physics on power-flow along a coaxial transmission line. <i>Physics of Plasmas</i> , 2018 , 25, 102705	2.1	5
18	The influence of the Hall term on the development of magnetized laser-produced plasma jets. <i>Physics of Plasmas</i> , 2018 , 25, 042906	2.1	5
17	Computational extended magneto-hydrodynamical study of shock structure generated by flows past an obstacle. <i>Physics of Plasmas</i> , 2015 , 22, 072102	2.1	4
16	WIGNER FUNCTION IN THE SYMMETRIC GAUGE: DE HAAS-VAN ALPHEN OSCILLATIONS, MAGNETIC FIELD LOCALIZATION AND UNCERTAINTY PRINCIPLE. <i>International Journal of Modern Physics B</i> , 2003 , 17, 4683-4732	1.1	4
15	Symmetry properties of a multidimensional dispersion functional. <i>Physics of Fluids</i> , 1987 , 30, 2414		4
14	Extended magnetohydrodynamics simulations of thin-foil Z-pinch implosions with comparison to experiments. <i>Physics of Plasmas</i> , 2020 , 27, 092705	2.1	3
13	Kinetic stabilization of interchange modes in an axisymmetric mirror by large orbit radius thermal ions. <i>Physics of Fluids B</i> , 1991 , 3, 1015-1025		3
12	The Generation of Warm Dense Matter Using a Magnetic Anvil Cell. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3968-3972	1.3	3
11	External Magnetic Field Effects on Ablation of Current-Driven Foils Using an Extended Magnetohydrodynamics Simulation. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3746-3752	1.3	3
10	Anode-Cathode Asymmetry in a Wire-Array Z-Pinch: Highly Resolved Axial-Shear-Flow Structure Observed on the Outer Edges of Ablating Wires. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2430-2431	1.3	2
9	On the most probable states of two-dimensional plasmas. <i>Journal of Plasma Physics</i> , 1996 , 56, 553-567	2.7	2
8	Formulation of 8-moment plasma transport with application to the Nernst effect. <i>Physics of Plasmas</i> , 2021 , 28, 022306	2.1	2
7	Current polarity effects on laboratory plasma jets. <i>Physics of Plasmas</i> , 2021 , 28, 082703	2.1	2

6	Design of a 3-D Printed Experimental Platform for Studying the Formation and Magnetization of Turbulent Plasma Jets. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 4056-4067	1.3	1
5	Relativistic Modeling Capabilities in PERSEUS Extended-MHD Simulation Code for HED Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 1112-1126	1.3	1
4	Plasma Jet Formation Disruption From a Critical Applied Uniform Axial Magnetic Field. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 3204-3213	1.3	
3	Power Flow in Pulsed-Power Systems: The Influence of Hall Physics and Modeling of the Plasma-Vacuum Interface. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 2064-2073	1.3	
2	Erratum to Design of a 3-D Printed Experimental Platform for Studying the Formation and Magnetization of Turbulent Plasma Jets [Nov 20 4056-4067]. <i>IEEE Transactions on Plasma Science</i> , 2021 , 49, 1259-1259	1.3	
1	Plasma thermal transport with a generalized 8-moment distribution function. <i>Physics of Plasmas</i> , 2022 , 29, 034502	2.1	