Richard D Sydora

List of Publications by Year in descending order

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279798 182427 2,708 84 23 51 citations h-index g-index papers 85 85 85 2319 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Fluid simulations of three-dimensional reconnection that capture the lower-hybrid drift instability. Journal of Plasma Physics, 2021, 87, .	2.1	4
2	Electromagnetic Turbulence in the Electron Current Layer to Drive Magnetic Reconnection. Astrophysical Journal Letters, 2021, 909, L15.	8.3	7
3	Stimulated excitation of thermal diffusion waves in a magnetized plasma pressure filament. Physics of Plasmas, 2021, 28, 092112.	1.9	1
4	Shock waves in pulsed electrical discharges in liquids: numerical simulation and comparison to experiment. Journal Physics D: Applied Physics, 2021, 54, 075202.	2.8	3
5	Pair plasma instability in homogeneous magnetic guide fields. Physics of Plasmas, 2020, 27, .	1.9	2
6	Parametric Decay of Beamâ€Generated Langmuir Waves and Threeâ€Wave Interaction in Plateau Plasmas: Implications for Type III Radiation. Journal of Geophysical Research: Space Physics, 2019, 124, 68-89.	2.4	6
7	Drift-Alfv \tilde{A} @n fluctuations and transport in multiple interacting magnetized electron temperature filaments. Journal of Plasma Physics, 2019, 85, .	2.1	4
8	Spiky electric and magnetic field structures in flux rope experiments. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18239-18244.	7.1	10
9	Nonlocal Ohms Law, Plasma Resistivity, and Reconnection During Collisions of Magnetic Flux Ropes. Astrophysical Journal, 2018, 853, 33.	4.5	12
10	Driven thermal waves and determination of the thermal conductivity in a magnetized plasma. Physical Review E, $2018, 98, .$	2.1	4
11	Linear theory of the current sheet shear instability. Journal of Geophysical Research: Space Physics, 2017, 122, 5418-5430.	2.4	10
12	Non-local Ohm's law during collisions of magnetic flux ropes. Physics of Plasmas, 2017, 24, .	1.9	6
13	Microscopic origin of the Drude-Smith model. Physical Review B, 2017, 96, .	3.2	140
14	HIGHER RADIAL MODES OF AZIMUTHAL SURFACE WAVES IN CYLINDRICAL WAVEGUIDES WITHOUT EXTERNAL MAGNETIC FIELD. Progress in Electromagnetics Research M, 2017, 54, 1-7.	0.9	2
15	Using orbital tethers to remediate geomagnetic radiation belts. Journal of Geophysical Research: Space Physics, 2016, 121, 1114-1123.	2.4	2
16	Currentâ€driven Langmuir oscillations and formation of wave packets via modulational instability: Relevance to STEREO observations. Geophysical Research Letters, 2016, 43, 7348-7355.	4.0	3
17	Currentâ€driven Langmuir oscillations and amplitude modulations—Another view on electron beamâ€plasma interaction. Journal of Geophysical Research: Space Physics, 2015, 120, 235-252.	2.4	6
18	Three-dimensional gyrokinetic simulation of the relaxation of a magnetized temperature filament. Physics of Plasmas, 2015, 22, .	1.9	3

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19	Laboratory study of avalanches in magnetized plasmas. Physical Review E, 2015, 91, 031102.	2.1	13
20	AZIMUTHALLY NON-SYMMETRIC SURFACE WAVES PROPAGATING IN METAL WAVEGUIDES FILLED WITH ISOTROPIC PLASMA. Progress in Electromagnetics Research B, 2014, 61, 87-98.	1.0	3
21	Excitation of the surface flute waves in electron cyclotron frequency range by internal rotating electron beam in a coaxial waveguide. Physica Scripta, 2014, 89, 125605.	2.5	4
22	Kubo conductivity tensor for two- and three-dimensional magnetic nulls. Physical Review E, 2014, 90, 033103.	2.1	1
23	Numerical magnetohydrodynamic simulations of expanding flux ropes: Influence of boundary driving. Physics of Plasmas, 2013, 20, 072104.	1.9	1
24	Plasmoid-Induced Turbulence in Collisionless Magnetic Reconnection. Physical Review Letters, 2012, 109, 265004.	7.8	29
25	Mode crossing effects at electron beam–plasma interaction and related phenomena. Plasma Physics and Controlled Fusion, 2012, 54, 124045.	2.1	18
26	Warm plasma effects on electromagnetic ion cyclotron wave MeV electron interactions in the magnetosphere. Journal of Geophysical Research, 2011, 116, .	3.3	81
27	Effects of superthermal ring current ion tails on the electromagnetic ion cyclotron instability in multi-ion magnetospheric plasmas. Journal of Geophysical Research, $2011, 116, \ldots$	3.3	21
28	MAGNEOWAVE INDUCED PLASMA WAKEFIELD ACCELERATION AS A MECHANISM FOR UHECR. International Journal of Modern Physics Conference Series, 2011, 01, 151-156.	0.7	0
29	Hybrid Fourier–Vlasov simulation in non-inertial reference frames. Computer Physics Communications, 2011, 182, 2508-2518.	7.5	0
30	Nonlinear evolution of electromagnetic ion cyclotron waves. Physics of Plasmas, 2011, 18, 042108.	1.9	4
31	Whistler-Langmuir oscillitons and their relation to auroral hiss. Annales Geophysicae, 2011, 29, 1739-1753.	1.6	11
32	Beam-excited whistler waves at oblique propagation with relation to STEREO radiation belt observations. Annales Geophysicae, 2010, 28, 1317-1325.	1.6	28
33	Conjugate ground and multisatellite observations of compressionâ€related EMIC Pc1 waves and associated proton precipitation. Journal of Geophysical Research, 2010, 115, .	3.3	108
34	Parallel whistler instability in a plasma with an anisotropic biâ€kappa distribution. Journal of Geophysical Research, 2010, 115, .	3.3	38
35	Particle description of the electron diffusion region in collisionless magnetic reconnection. Physics of Plasmas, 2009, 16, 112309.	1.9	28
36	Magnetowave Induced Plasma Wakefield Acceleration for Ultrahigh Energy Cosmic Rays. Physical Review Letters, 2009, 102, 111101.	7.8	21

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37	Application of a Gridâ€Free Kinetic Model to the Collisionless Sheath. Contributions To Plasma Physics, 2008, 48, 116-120.	1.1	7
38	Electromagnetic particle-in-cell simulations on magnetic reconnection with adaptive mesh refinement. Computer Physics Communications, 2008, 178, 915-923.	7. 5	21
39	Whistler waves associated with magnetic reconnection. Geophysical Research Letters, 2008, 35, .	4.0	59
40	Energy dissipation via electron energization in standing shear Alfvén waves. Physics of Plasmas, 2007, 14, 062904.	1.9	22
41	Instabilities and solitary structures in plasmas with ion beams: Linear theory and Vlasov simulations. Physics of Plasmas, 2007, 14, 012109.	1.9	3
42	Electron beam-plasma interaction: Linear theory and Vlasov-Poisson simulations. Physics of Plasmas, 2007, 14, 012106.	1.9	24
43	Coherent whistler waves and oscilliton formation: Kinetic simulations. Geophysical Research Letters, 2007, 34, .	4.0	19
44	Collisional particle simulation of ion acoustic instability. Journal of Plasma Physics, 2006, 72, 1295.	2.1	3
45	Particle-in-cell simulations of heat flux driven ion acoustic instability. Physics of Plasmas, 2005, 12, 012321.	1.9	6
46	Deep trapping of electrons by oblique shock waves. Physics of Plasmas, 2005, 12, 052321.	1.9	13
47	Enhanced inverse bremsstrahlung heating rates in a strong laser field. Physics of Plasmas, 2003, 10, 3385-3396.	1.9	64
48	Linear theory of nonlocal transport in a magnetized plasma. Physics of Plasmas, 2003, 10, 4633-4644.	1.9	13
49	Hybrid magnetohydrodynamic–kinetic model of standing shear Alfvén waves. Journal of Plasma Physics, 2003, 69, 277-304.	2.1	18
50	Comparison of turbulence measurements from DIII-D low-mode and high-performance plasmas to turbulence simulations and models. Physics of Plasmas, 2002, 9, 2141-2148.	1.9	64
51	Regional geoelectrical complexity of the Western Canada Basin from magnetotelluric tensor invariants. Earth, Planets and Space, 2002, 54, 899-905.	2.5	4
52	Heat transport and electron distribution function in laser produced plasmas with hot spots. Physics of Plasmas, 2002, 9, 2302-2310.	1.9	40
53	Langevin representation of laser heating in PIC simulations. Computer Physics Communications, 2002, 143, 48-53.	7. 5	6
54	Origin of some anisotropic tailward flows in the plasma sheet. Annales Geophysicae, 2002, 20, 1559-1575.	1.6	5

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55	Electron distribution function in laser heated plasmas. Physics of Plasmas, 2001, 8, 550-556.	1.9	47
56	Effect of sheared toroidal rotation on ion temperature gradient turbulence and resistive kink stability in a large aspect ratio tokamak. Physics of Plasmas, 2001, 8, 4849-4855.	1.9	3
57	Non-dimensional scaling of turbulence characteristics and turbulent diffusivity. Nuclear Fusion, 2001, 41, 1235-1242.	3.5	100
58	The quiescent double barrier regime in the DIII-D tokamak. Plasma Physics and Controlled Fusion, 2001, 43, A95-A112.	2.1	35
59	Recent progress toward high performance above the Greenwald density limit in impurity seeded discharges in limiter and divertor tokamaks. Physics of Plasmas, 2001, 8, 2188-2198.	1.9	52
60	Nonlinear dynamics of small-scale magnetic islands in high temperature plasmas. Physics of Plasmas, 2001, 8, 1929-1934.	1.9	26
61	Comparisons and physics basis of tokamak transport models and turbulence simulations. Physics of Plasmas, 2000, 7, 969-983.	1.9	856
62	Turbulent transport and turbulence in radiative I mode plasmas in TEXTOR-94. Nuclear Fusion, 2000, 40, 209-221.	3.5	22
63	Impurity-induced turbulence suppression and reduced transport in the DIII-D tokamak. Physics of Plasmas, 2000, 7, 1870-1877.	1.9	60
64	Effect of externally imposed and self-generated flows on turbulence and magnetohydrodynamic activity in tokamak plasmas. Physics of Plasmas, 2000, 7, 1795-1801.	1.9	11
65	Radial electric field required to suppress ion temperature gradient modes in the Electric Tokamak. Physics of Plasmas, 1999, 6, 4722-4727.	1.9	16
66	Heat Transport Along an Inhomogeneous Magnetic Field. I. Periodic Magnetic Mirrors. Astrophysical Journal, 1999, 525, 638-650.	4.5	23
67	Fluctuation-induced heat transport results from a large global 3D toroidal particle simulation model. Plasma Physics and Controlled Fusion, 1996, 38, A281-A294.	2.1	196
68	Gyrokinetic simulation of internal kink modes. Physics of Plasmas, 1995, 2, 4257-4268.	1.9	39
69	Toroidal gyrokinetic particle simulations of core fluctuations and transport. Physica Scripta, 1995, 52, 474-480.	2.5	24
70	Particle simulation of the magnetized rf plasma sheath. Physics of Fluids B, 1992, 4, 2699-2704.	1.7	6
71	A vlasov particle ion zero mass electron model for plasma simulations. Journal of Computational Physics, 1992, 102, 277-296.	3.8	12
72	Magnetic reconnection driven by current repulsion. Physics of Fluids B, 1990, 2, 488-494.	1.7	17

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73	Fluctuations and transport due to ion-temperature-gradient–driven instabilities. Physical Review Letters, 1990, 64, 2015-2018.	7.8	33
74	Threeâ€dimensional gyrokinetic particle simulation of lowâ€frequency drift instabilities. Physics of Fluids B, 1990, 2, 1455-1460.	1.7	16
75	Simulation and non-linear stage of the electrostatic waves observed during the AMPTE lithium release in the solar wind. Advances in Space Research, 1988, 8, 35-38.	2.6	1
76	Electron beam-driven ion modes in a space plasma. Part I: Observations. Advances in Space Research, 1988, 8, 123-127.	2.6	1
77	Dynamics and fluctuation spectra of electrostatic resistive interchange turbulence. Physics of Fluids, 1986, 29, 2871-2880.	1.4	10
78	Three-dimensional particle simulation of drift-wave fluctuations in a sheared magnetic field. Physical Review Letters, 1986, 57, 3269-3272.	7.8	8
79	Particle simulations of current-driven drift waves in shearless and sheared magnetic fields. Physics of Fluids, 1986, 29, 4147.	1.4	4
80	Particle simulation of the resistive g mode in a sheared magnetic field. Physics of Fluids, 1985, 28, 255-260.	1.4	2
81	Particle simulation of drift waves in a sheared magnetic field. Physics of Fluids, 1985, 28, 528.	1.4	9
82	Electrostatic Kelvin–Helmholtz instability in a radially injected plasma cloud. Physics of Fluids, 1983, 26, 2986.	1.4	20
83	A highâ€altitude barium radial injection experiment. Geophysical Research Letters, 1980, 7, 1037-1040.	4.0	34
84	Particle-in-cell simulations of laser-produced hot spot. , 0, , .		0