Adam J Stanier

List of Publications by Year
in descending order

28 papers	526 citations	623734 14 h-index	642732 23 g-index
31 all docs	31 docs citations	31 times ranked	546 citing authors

#	Article	IF	Citations
1	Formation of Power-law Electron Energy Spectra in Three-dimensional Low-Î² Magnetic Reconnection. Astrophysical Journal, 2019, 884, 118.	4.5	53
2	Magnetic reconnection in the era of exascale computing and multiscale experiments. Nature Reviews Physics, 2022, 4, 263-282.	26.6	50
3	Plasma Energization in Colliding Magnetic Flux Ropes. Astrophysical Journal, 2018, 867, 16.	4.5	43
4	The island coalescence problem: Scaling of reconnection in extended fluid models including higher-order moments. Physics of Plasmas, 2015, 22, .	1.9	35
5	Two-fluid simulations of driven reconnection in the mega-ampere spherical tokamak. Physics of Plasmas, 2013, 20, 122302.	1.9	33
6	Role of Ion Kinetic Physics in the Interaction of Magnetic Flux Ropes. Physical Review Letters, 2015, 115, 175004.	7.8	33
7	Solar particle acceleration at reconnecting 3D null points. Astronomy and Astrophysics, 2012, 542, A47.	5.1	32
8	Simulations of anti-parallel reconnection using a nonlocal heat flux closure. Physics of Plasmas, 2017, 24, .	1.9	25
9	Influence of 3D plasmoid dynamics on the transition from collisional to kinetic reconnection. Physics of Plasmas, 2019, 26, .	1.9	22
10	Self-organization during spherical torus formation by flux rope merging in the Mega Ampere Spherical Tokamak. Plasma Physics and Controlled Fusion, 2014, 56, 064009.	2.1	20
11	The role of guide field in magnetic reconnection driven by island coalescence. Physics of Plasmas, 2017, 24, .	1.9	20
12	Two-fluid and magnetohydrodynamic modelling of magnetic reconnection in the MAST spherical tokamak and the solar corona. Plasma Physics and Controlled Fusion, 2016, 58, 014041.	2.1	19
13	A fully implicit, conservative, non-linear, electromagnetic hybrid particle-ion/fluid-electron algorithm. Journal of Computational Physics, 2019, 376, 597-616.	3.8	19
14	Overview of recent physics results from MAST. Nuclear Fusion, 2017, 57, 102007.	3.5	16
15	Fluid vs. kinetic magnetic reconnection with strong guide fields. Physics of Plasmas, 2015, 22, .	1.9	14
16	A scalable, fully implicit algorithm for the reduced two-field low-Î² extended MHD model. Journal of Computational Physics, 2016, 326, 763-772.	3.8	13
17	Three-dimensional stability of current sheets supported by electron pressure anisotropy. Physics of Plasmas, 2019, 26, .	1.9	12
18	Fast magnetic reconnection with large guide fields. Physics of Plasmas, 2015, 22, 010701.	1.9	11

#	Article	IF	Citations
19	A cancellation problem in hybrid particle-in-cell schemes due to finite particle size. Journal of Computational Physics, 2020, 420, 109705.	3.8	8
20	A drift kinetic model for the expander region of a magnetic mirror. Physics of Plasmas, 2021, 28, 042510.	1.9	8
21	Laboratory Verification of Electronâ€Scale Reconnection Regions Modulated by a Threeâ€Dimensional Instability. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029316.	2.4	8
22	Wavelet methods for studying the onset of strong plasma turbulence. Physics of Plasmas, 2018, 25, .	1.9	7
23	Astrophysical Explosions Revisited: Collisionless Coupling of Debris to Magnetized Plasma. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029125.	2.4	7
24	Lowerâ€Hybridâ€Drift Vortices in the Electronâ€Scale Magnetic Reconnection Layer. Geophysical Research Letters, 2020, 47, e2020GL090726.	4.0	6
25	Hybrid particle-in-cell simulations of electromagnetic coupling and waves from streaming burst debris. Physics of Plasmas, 2022, 29, .	1.9	4
26	Particle Acceleration in Interacting Magnetic Flux Ropes. Journal of Physics: Conference Series, 2018, 1100, 012009.	0.4	3
27	A conservative implicit-PIC scheme for the hybrid kinetic-ion fluid-electron plasma model on curvilinear meshes. Journal of Computational Physics, 2022, 459, 111144.	3.8	3
28	Flare particle acceleration and magnetohydrodynamic instabilities. Plasma Physics and Controlled Fusion, 2011, 53, 124030.	2.1	2