David J Stark

List of Publications by Year
in descending order

25	767	840776 11	642732 23
papers	citations	h-index	g-index

32	32	32	1067
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms of shape transfer and preheating in indirect-drive double shell collisions. Physics of Plasmas, 2022, 29, .	1.9	7
2	Forward and backward stimulated Raman scattering in multi-speckled beams: Density dependence and effects on cross-beam energy transfer. Physics of Plasmas, 2021, 28, .	1.9	4
3	Constraining computational modeling of indirect drive double shell capsule implosions using experiments. Physics of Plasmas, 2021, 28, .	1.9	17
4	Detrimental effects and mitigation of the joint feature in double shell implosion simulations. Physics of Plasmas, 2021, 28, .	1.9	12
5	Gravitomagnetic vorticity generation in black hole accretion discs: a potential spatial constraint on plasma flow stability. Monthly Notices of the Royal Astronomical Society, 2021, 508, 414-420.	4.4	2
6	Mitigating the Joint Feature in Double Shell Implosion Simulations *. , 2021, , .		0
7	Coupling 1D xRAGE simulations with machine learning for graded inner shell design optimization in double shell capsules. Physics of Plasmas, 2021, 28, .	1.9	10
8	Birefringence in thermally anisotropic relativistic plasmas and its impact on laserâ€“plasma interactions. Physics of Plasmas, 2020, 27, .	1.9	7
9	Vortex generation in the early Universe. Astronomy and Astrophysics, 2020, 642, L6.	5.1	4
10	Saturation of cross-beam energy transfer for multispeckled laser beams involving both ion and electron dynamics. Physics of Plasmas, 2019, 26, 082708.	1.9	24
11	Laser-ion acceleration using mixed compositions: Tailoring the target for each species. Physics of Plasmas, 2019, 26, .	1.9	1
12	A detailed examination of laser-ion acceleration mechanisms in the relativistic transparency regime using tracers. Physics of Plasmas, 2018, 25, .	1.9	11
13	Surveying the implications of generalized vortical dynamics in curved spaceâ€“time. Monthly Notices of the Royal Astronomical Society, 2018, 481, 206-216.	4.4	8
14	Leveraging extreme laser-driven magnetic fields for gamma-ray generation and pair production. Plasma Physics and Controlled Fusion, 2018, 60, 054006.	2.1	43
15	Harnessing the relativistic Buneman instability for laser-ion acceleration in the transparency regime. Physics of Plasmas, 2018, 25, .	1.9	6
16	Self-aligning concave relativistic plasma mirror with adjustable focus. Physics of Plasmas, 2017, 24, .	1.9	8
17	Effects of dimensionality on kinetic simulations of laser-ion acceleration in the transparency regime. Physics of Plasmas, 2017, 24, .	1.9	32
18	Enhanced Multi-MeV Photon Emission by a Laser-Driven Electron Beam in a Self-Generated Magnetic Field. Physical Review Letters, 2016, 116, 185003.	7.8	150

#	Article	IF	Citations
19	Beltrami state in black-hole accretion disk: A magnetofluid approach. Physical Review E, 2015, 92, 063104.	2.1	11
20	Relativistic Plasma Polarizer: Impact of Temperature Anisotropy on Relativistic Transparency. Physical Review Letters, 2015, 115, 025002.	7.8	43
21	THE NATURE OF STARBURSTS. I. THE STAR FORMATION HISTORIES OF EIGHTEEN NEARBY STARBURST DWARF GALAXIES. Astrophysical Journal, 2010, 721, 297-317.	4.5	148
22	THE NATURE OF STARBURSTS. II. THE DURATION OF STARBURSTS IN DWARF GALAXIES. Astrophysical Journal, 2010, 724, 49-58.	4.5	130
23	THE TRUE DURATIONS OF STARBURSTS:HUBBLE SPACE TELESCOPEOBSERVATIONS OF THREE NEARBY DWARF STARBURST GALAXIES. Astrophysical Journal, 2009, 695, 561-573.	4.5	68
24	EVIDENCE OF FRAGMENTING DUST PARTICLES FROM NEAR-SIMULTANEOUS OPTICAL AND NEAR-INFRARED PHOTOMETRY AND POLARIMETRY OF COMET 73P/SCHWASSMANN-WACHMANN 3. Astronomical Journal, 2008, 135, 1318-1327.	4.7	16
25	A 1D fluid model of the CentaurusÂA jet. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	5