

# David J Stark

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

767  
citations

840776

11  
h-index

642732

23  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Multi-MeV Photon Emission by a Laser-Driven Electron Beam in a Self-Generated Magnetic Field. <i>Physical Review Letters</i> , 2016, 116, 185003.	7.8	150
2	THE NATURE OF STARBURSTS. I. THE STAR FORMATION HISTORIES OF EIGHTEEN NEARBY STARBURST DWARF GALAXIES. <i>Astrophysical Journal</i> , 2010, 721, 297-317.	4.5	148
3	THE NATURE OF STARBURSTS. II. THE DURATION OF STARBURSTS IN DWARF GALAXIES. <i>Astrophysical Journal</i> , 2010, 724, 49-58.	4.5	130
4	THE TRUE DURATIONS OF STARBURSTS: HUBBLE SPACE TELESCOPE OBSERVATIONS OF THREE NEARBY DWARF STARBURST GALAXIES. <i>Astrophysical Journal</i> , 2009, 695, 561-573.	4.5	68
5	Relativistic Plasma Polarizer: Impact of Temperature Anisotropy on Relativistic Transparency. <i>Physical Review Letters</i> , 2015, 115, 025002.	7.8	43
6	Leveraging extreme laser-driven magnetic fields for gamma-ray generation and pair production. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054006.	2.1	43
7	Effects of dimensionality on kinetic simulations of laser-ion acceleration in the transparency regime. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	32
8	Saturation of cross-beam energy transfer for multispeckled laser beams involving both ion and electron dynamics. <i>Physics of Plasmas</i> , 2019, 26, 082708.	1.9	24
9	Constraining computational modeling of indirect drive double shell capsule implosions using experiments. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	17
10	EVIDENCE OF FRAGMENTING DUST PARTICLES FROM NEAR-SIMULTANEOUS OPTICAL AND NEAR-INFRARED PHOTOMETRY AND POLARIMETRY OF COMET 73P/SCHWASSMANN-WACHMANN 3. <i>Astronomical Journal</i> , 2008, 135, 1318-1327.	4.7	16
11	Detrimental effects and mitigation of the joint feature in double shell implosion simulations. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	12
12	Beltrami state in black-hole accretion disk: A magnetofluid approach. <i>Physical Review E</i> , 2015, 92, 063104.	2.1	11
13	A detailed examination of laser-ion acceleration mechanisms in the relativistic transparency regime using tracers. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	11
14	Coupling 1D xRAGE simulations with machine learning for graded inner shell design optimization in double shell capsules. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	10
15	Self-aligning concave relativistic plasma mirror with adjustable focus. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	8
16	Surveying the implications of generalized vortical dynamics in curved space-time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 206-216.	4.4	8
17	Birefringence in thermally anisotropic relativistic plasmas and its impact on laser-plasma interactions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
18	Mechanisms of shape transfer and preheating in indirect-drive double shell collisions. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7

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19	Harnessing the relativistic Buneman instability for laser-ion acceleration in the transparency regime. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	6
20	A 1D fluid model of the Centaurus jet. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	5
21	Forward and backward stimulated Raman scattering in multi-speckled beams: Density dependence and effects on cross-beam energy transfer. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	4
22	Vortex generation in the early Universe. <i>Astronomy and Astrophysics</i> , 2020, 642, L6.	5.1	4
23	Gravitomagnetic vorticity generation in black hole accretion discs: a potential spatial constraint on plasma flow stability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 414-420.	4.4	2
24	Laser-ion acceleration using mixed compositions: Tailoring the target for each species. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	1
25	Mitigating the Joint Feature in Double Shell Implosion Simulations *. , 2021, , .		0