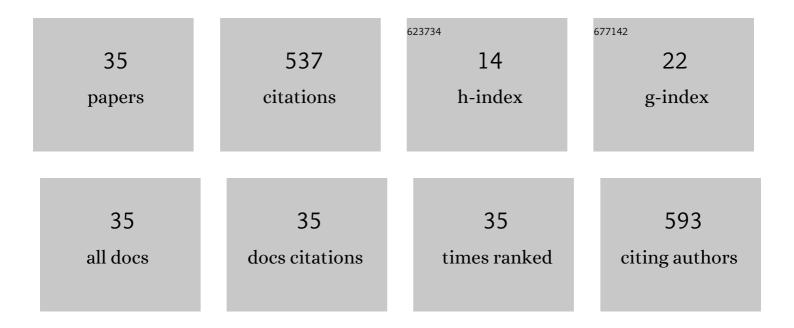
Joseph Katz

List of Publications by Year in descending order

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ΙΟςέρη Κλτζ

#	Article	IF	CITATIONS
1	Experimental observations of detached bow shock formation in the interaction of a laser-produced plasma with a magnetized obstacle. Physics of Plasmas, 2022, 29, .	1.9	6
2	Cross-beam energy transfer saturation: ion heating and pump depletion. Plasma Physics and Controlled Fusion, 2022, 64, 034003.	2.1	4
3	Novel designÂfor a polarizing DUV spectrometer using a Wollaston prism and its application as a diagnostic for measuring Thomson scattering data in the presence of strong self-emission backgrounds. Review of Scientific Instruments, 2022, 93, 013501.	1.3	0
4	Quantitative assessment of fitting errors associated with streak camera noise in Thomson scattering data analysis. Review of Scientific Instruments, 2022, 93, 043503.	1.3	2
5	Beam Spray Thresholds in ICF-Relevant Plasmas. Physical Review Letters, 2022, 129, .	7.8	6
6	Insensitivity of a turbulent laser-plasma dynamo to initial conditions. Matter and Radiation at Extremes, 2022, 7, .	3.9	3
7	A multi-channel x-ray temporal diagnostic for measurement of time-resolved electron temperature in cryogenic deuterium–tritium implosions at OMEGA. Review of Scientific Instruments, 2021, 92, 023507.	1.3	3
8	Using millimeter-sized carbon–deuterium foils for high-precision deuterium–tritium neutron spectrum measurements in direct-drive inertial confinement fusion at the OMEGA laser facility. Review of Scientific Instruments, 2021, 92, 023503.	1.3	2
9	Investigation of heat transport using directly driven gold spheres. Physics of Plasmas, 2021, 28, .	1.9	11
10	A transmitted-beam diagnostic for the wavelength-tunable UV drive beam on OMEGA. Review of Scientific Instruments, 2021, 92, 033526.	1.3	5
11	Unabsorbed light beamlets for diagnosing coronal density profiles and absorption nonuniformity in direct-drive implosions on OMEGA. Review of Scientific Instruments, 2021, 92, 043525.	1.3	2
12	Measurements of Non-Maxwellian Electron Distribution Functions and Their Effect on Laser Heating. Physical Review Letters, 2021, 127, 015001.	7.8	26
13	Nonuniform Absorption and Scattered Light in Direct-Drive Implosions Driven by Polarization Smoothing. Physical Review Letters, 2021, 127, 075001.	7.8	11
14	Statistical analysis of non-Maxwellian electron distribution functions measured with angularly resolved Thomson scattering. Physics of Plasmas, 2021, 28, .	1.9	10
15	Impact of the Langdon effect on crossed-beam energy transfer. Nature Physics, 2020, 16, 181-185.	16.7	37
16	Validation of heat transport modeling using directly driven beryllium spheres. Physics of Plasmas, 2020, 27, .	1.9	15
17	Requirements for a 4ω Thomson scattering system on megajoule scale laser facilities. Review of Scientific Instruments, 2020, 91, 083508.	1.3	2
18	Measurement of Kinetic-Scale Current Filamentation Dynamics and Associated Magnetic Fields in Interpenetrating Plasmas. Physical Review Letters, 2020, 124, 215001.	7.8	25

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#	Article	IF	CITATIONS
19	Evolution of the Electron Distribution Function in the Presence of Inverse Bremsstrahlung Heating and Collisional Ionization. Physical Review Letters, 2020, 124, 025001.	7.8	19
20	Mitigation of self-focusing in Thomson scattering experiments. Physics of Plasmas, 2019, 26, .	1.9	10
21	Picosecond Thermodynamics in Underdense Plasmas Measured with Thomson Scattering. Physical Review Letters, 2019, 122, 155001.	7.8	12
22	Measurement of apparent ion temperature using the magnetic recoil spectrometer at the OMEGA laser facility. Review of Scientific Instruments, 2018, 89, 10129.	1.3	12
23	Implementation of a Faraday rotation diagnostic at the OMEGA laser facility. High Power Laser Science and Engineering, 2018, 6, .	4.6	6
24	Observation of Nonlocal Heat Flux Using Thomson Scattering. Physical Review Letters, 2018, 121, 125001.	7.8	36
25	Unabsorbed light beamlets for diagnosing cross-beam energy transfer. Review of Scientific Instruments, 2018, 89, 10E101.	1.3	3
26	Supersonic gas-jet characterization with interferometry and Thomson scattering on the OMEGA Laser System. Review of Scientific Instruments, 2018, 89, 10C103.	1.3	18
27	A pulse-front-tilt–compensated streaked optical spectrometer with high throughput and picosecond time resolution. Review of Scientific Instruments, 2016, 87, 11E535.	1.3	10
28	Plasma characterization using ultraviolet Thomson scattering from ion-acoustic and electron plasma waves (invited). Review of Scientific Instruments, 2016, 87, 11E401.	1.3	41
29	Simulated performance of the optical Thomson scattering diagnostic designed for the National Ignition Facility. Review of Scientific Instruments, 2016, 87, 11E510.	1.3	19
30	Neutron temporal diagnostic for high-yield deuterium–tritium cryogenic implosions on OMEGA. Review of Scientific Instruments, 2016, 87, 053501.	1.3	33
31	Experimental Evidence of the Collective Brillouin Scattering of Multiple Laser Beams Sharing Acoustic Waves. Physical Review Letters, 2016, 116, 235002.	7.8	23
32	A Particle X-ray Temporal Diagnostic (PXTD) for studies of kinetic, multi-ion effects, and ion-electron equilibration rates in Inertial Confinement Fusion plasmas at OMEGA (invited). Review of Scientific Instruments, 2016, 87, 11D701.	1.3	22
33	The magnetic recoil spectrometer for measurements of the absolute neutron spectrum at OMEGA and the NIF. Review of Scientific Instruments, 2013, 84, 043506.	1.3	59
34	A reflective image-rotating periscope for spatially resolved Thomson-scattering experiments on OMEGA. Journal of Instrumentation, 2013, 8, C12009-C12009.	1.2	8
35	A reflective optical transport system for ultraviolet Thomson scattering from electron plasma waves on OMEGA. Review of Scientific Instruments, 2012, 83, 10E349.	1.3	36