

Russell Follett

List of Publications by Year in descending order

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papers

829
citations

430874

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483
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the hot-spot pressure and demonstrating ignition hydrodynamic equivalence in cryogenic deuterium-tritium implosions on OMEGA. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	139
2	Thresholds of absolute instabilities driven by a broadband laser. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	51
3	Mitigation of cross-beam energy transfer in inertial-confinement-fusion plasmas with enhanced laser bandwidth. <i>Physical Review E</i> , 2018, 97, 061202.	2.1	44
4	Plasma characterization using ultraviolet Thomson scattering from ion-acoustic and electron plasma waves (invited). <i>Review of Scientific Instruments</i> , 2016, 87, 11E401.	1.3	41
5	A wave-based model for cross-beam energy transfer in direct-drive inertial confinement fusion. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	40
6	Stimulated Raman scattering mechanisms and scaling behavior in planar direct-drive experiments at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	38
7	Suppressing Two-Plasmon Decay with Laser Frequency Detuning. <i>Physical Review Letters</i> , 2018, 120, 135005.	7.8	36
8	Thresholds of absolute two-plasmon-decay and stimulated Raman scattering instabilities driven by multiple broadband lasers. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	32
9	Mitigation of cross-beam energy transfer in symmetric implosions on OMEGA using wavelength detuning. <i>Physics of Plasmas</i> , 2017, 24, 062706.	1.9	30
10	Two-Plasmon Decay Mitigation in Direct-Drive Inertial-Confinement-Fusion Experiments Using Multilayer Targets. <i>Physical Review Letters</i> , 2016, 116, 155002.	7.8	27
11	Hot-electron generation at direct-drive ignition-relevant plasma conditions at the National Ignition Facility. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	27
12	Simulations and measurements of hot-electron generation driven by the multibeam two-plasmon-decay instability. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	24
13	Anomalous Absorption by the Two-Plasmon Decay Instability. <i>Physical Review Letters</i> , 2020, 124, 185001.	7.8	22
14	Suppressing cross-beam energy transfer with broadband lasers. <i>High Energy Density Physics</i> , 2020, 36, 100772.	1.5	21
15	Direct observation of the two-plasmon-decay common plasma wave using ultraviolet Thomson scattering. <i>Physical Review E</i> , 2015, 91, 031104.	2.1	20
16	Full-wave and ray-based modeling of cross-beam energy transfer between laser beams with distributed phase plates and polarization smoothing. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	20
17	Direct-drive laser fusion: status, plans and future. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200011.	3.4	20
18	Resonance absorption of a broadband laser pulse. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	19

#	ARTICLE	IF	CITATIONS
19	Cross-Beam Energy Transfer Saturation by Ion Heating. <i>Physical Review Letters</i> , 2021, 126, 075002.	7.8	19
20	Real and complex valued geometrical optics inverse ray-tracing for inline field calculations. <i>Physics of Plasmas</i> , 2019, 26, 032301.	1.9	18
21	Crossed-beam energy transfer: polarization effects and evidence of saturation. <i>Plasma Physics and Controlled Fusion</i> , 2018, 60, 054017.	2.1	17
22	Ray-based modeling of cross-beam energy transfer at caustics. <i>Physical Review E</i> , 2018, 98, .	2.1	16
23	Adaptive inverse ray-tracing for accurate and efficient modeling of cross beam energy transfer in hydrodynamics simulations. <i>Physics of Plasmas</i> , 2019, 26, 072706.	1.9	16
24	Measurements of hot-electron temperature in laser-irradiated plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	15
25	Suppressing the enhancement of stimulated Raman scattering in inhomogeneous plasmas by tuning the modulation frequency of a broadband laser. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	14
26	The National Direct-Drive Inertial Confinement Fusion Program. <i>Nuclear Fusion</i> , 2019, 59, 032007.	3.5	10
27	Impact of spatiotemporal smoothing on the two-plasmon decay instability. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	10
28	Multibeam absolute stimulated Raman scattering and two-plasmon decay. <i>Physical Review E</i> , 2020, 101, 043214.	2.1	10
29	Cross-beam energy transfer in direct-drive ICF. II. Theory and simulation of mitigation through increased laser bandwidth. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	10
30	Cross-beam energy transfer saturation by ion trapping-induced detuning. <i>Physics of Plasmas</i> , 2021, 28, 082705.	1.9	7
31	Cross-beam energy transfer in direct-drive ICF. I. Nonlinear and kinetic effects. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7
32	Cross-beam energy transfer saturation: ion heating and pump depletion. <i>Plasma Physics and Controlled Fusion</i> , 2022, 64, 034003.	2.1	4
33	Hot Raman amplification. <i>Physics of Plasmas</i> , 2021, 28, 062311.	1.9	3
34	Independent-hot-spot approach to multibeam laser-plasma instabilities. <i>Physical Review E</i> , 2022, 105, .	2.1	2