

# Daniel Ruiz

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

521  
citations

759233

12  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

397  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of pulsed power-driven high energy density physics research on Z at Sandia. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	140
2	Performance Scaling in Magnetized Liner Inertial Fusion Experiments. <i>Physical Review Letters</i> , 2020, 125, 155002.	7.8	65
3	Origins and effects of mix on magnetized liner inertial fusion target performance. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	37
4	Diagnosing and mitigating laser preheat induced mix in MagLIF. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	33
5	First-principles variational formulation of polarization effects in geometrical optics. <i>Physical Review A</i> , 2015, 92, .	2.5	31
6	Quasioptical modeling of wave beams with and without mode conversion. I. Basic theory. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	29
7	Zonal-flow dynamics from a phase-space perspective. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	25
8	Extending geometrical optics: A Lagrangian theory for vector waves. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	20
9	A conservative approach to scaling magneto-inertial fusion concepts to larger pulsed-power drivers. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	19
10	Ponderomotive dynamics of waves in quasiperiodically modulated media. <i>Physical Review A</i> , 2017, 95, .	2.5	15
11	Wave kinetics of drift-wave turbulence and zonal flows beyond the ray approximation. <i>Physical Review E</i> , 2018, 97, 053210.	2.1	15
12	Scaling laser preheat for MagLIF with the Z-Beamlet laser. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	15
13	Relativistic ponderomotive Hamiltonian of a Dirac particle in a vacuum laser field. <i>Physical Review A</i> , 2015, 92, .	2.5	12
14	Wave kinetic equation for inhomogeneous drift-wave turbulence beyond the quasilinear approximation. <i>Journal of Plasma Physics</i> , 2019, 85, .	2.1	12
15	Estimation of stagnation performance metrics in magnetized liner inertial fusion experiments using Bayesian data assimilation. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	11
16	Mode conversion in cold low-density plasma with a sheared magnetic field. <i>Physics of Plasmas</i> , 2017, 24, 122116.	1.9	10
17	The effect of laser entrance hole foil thickness on MagLIF-relevant laser preheat. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8
18	On a variational formulation of the weakly nonlinear magnetic Rayleigh–Taylor instability. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8

#	ARTICLE	IF	CITATIONS
19	A novel, magnetically driven convergent Richtmyer–Meshkov platform. Physics of Plasmas, 2020, 27, .	1.9	7
20	Variational nonlinear WKB in the Eulerian frame. Journal of Mathematical Physics, 2020, 61, .	1.1	5
21	Studying the Richtmyer–Meshkov instability in convergent geometry under high energy density conditions using the Decel platform. Physics of Plasmas, 2022, 29, .	1.9	4
22	Increased preheat energy to MagLIF targets with cryogenic cooling. , 2021, , .		0