

Thomas G White

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

670
citations

567281

15
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory evidence of dynamo amplification of magnetic fields in a turbulent plasma. Nature Communications, 2018, 9, 591.	12.8	105
2	Orbital-Free Density-Functional Theory Simulations of the Dynamic Structure Factor of Warm Dense Aluminum. Physical Review Letters, 2013, 111, 175002.	7.8	74
3	Observation of inhibited electron-ion coupling in strongly heated graphite. Scientific Reports, 2012, 2, 889.	3.3	58
4	Proton imaging of stochastic magnetic fields. Journal of Plasma Physics, 2017, 83, .	2.1	47
5	Electron-Ion Equilibration in Ultrafast Heated Graphite. Physical Review Letters, 2014, 112, 145005.	7.8	44
6	Ultrafast Imaging of Laser Driven Shock Waves using Betatron X-rays from a Laser Wakefield Accelerator. Scientific Reports, 2018, 8, 11010.	3.3	40
7	Electron-phonon equilibration in laser-heated gold films. Physical Review B, 2014, 90, .	3.2	33
8	Evaluating scintillator performance in time-resolved hard X-ray studies at synchrotron light sources. Journal of Synchrotron Radiation, 2016, 23, 685-693.	2.4	31
9	Numerical modeling of laser-driven experiments aiming to demonstrate magnetic field amplification via turbulent dynamo. Physics of Plasmas, 2017, 24, .	1.9	31
10	A strong diffusive ion mode in dense ionized matter predicted by Langevin dynamics. Nature Communications, 2017, 8, 14125.	12.8	30
11	Evidence for a glassy state in strongly driven carbon. Scientific Reports, 2014, 4, 5214.	3.3	28
12	Fast nonadiabatic dynamics of many-body quantum systems. Science Advances, 2019, 5, eaaw1634.	10.3	26
13	Supersonic plasma turbulence in the laboratory. Nature Communications, 2019, 10, 1758.	12.8	24
14	A single camera three-dimensional digital image correlation system for the study of adiabatic shear bands. Strain, 2017, 53, e12226.	2.4	21
15	Time-resolved turbulent dynamo in a laser plasma. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
16	High-resolution inelastic x-ray scattering at the high energy density scientific instrument at the European X-Ray Free-Electron Laser. Review of Scientific Instruments, 2021, 92, 013101.	1.3	15
17	Picosecond dynamics of a shock-driven displacive phase transformation in Zr. Physical Review B, 2016, 93, .	3.2	14
18	Ion modes in dense ionized plasmas through nonadiabatic molecular dynamics. Physical Review Research, 2020, 2, .	3.6	7

#	ARTICLE	IF	CITATIONS
19	Implementation of a Faraday rotation diagnostic at the OMEGA laser facility. High Power Laser Science and Engineering, 2018, 6, .	4.6	6
20	A molecular dynamics study of laser-excited gold. Matter and Radiation at Extremes, 2022, 7, 036901.	3.9	5
21	An Investigation into the Approximations Used in Wave Packet Molecular Dynamics for the Study of Warm Dense Matter. Plasma, 2021, 4, 294-308.	1.8	4
22	Evolution of the Design and Fabrication of Astrophysics Targets for Turbulent Dynamo (TDYNO) Experiments on OMEGA. Fusion Science and Technology, 2018, 73, 434-445.	1.1	3
23	Insensitivity of a turbulent laser-plasma dynamo to initial conditions. Matter and Radiation at Extremes, 2022, 7, .	3.9	3