

Jianheng Zhao

List of Publications by Year in descending order

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39
papers

329
citations

759233

12
h-index

888059

17
g-index

39
all docs

39
docs citations

39
times ranked

359
citing authors

#	ARTICLE	IF	CITATIONS
1	A 4 MA, 500 ns pulsed power generator CQ-4 for characterization of material behaviors under ramp wave loading. <i>Review of Scientific Instruments</i> , 2013, 84, 015117.	1.3	40
2	First demonstration of the FLASH effect with ultrahigh dose rate high-energy X-rays. <i>Radiotherapy and Oncology</i> , 2022, 166, 44-50.	0.6	40
3	Terahertz Spectroscopic Diagnosis of Myelin Deficit Brain in Mice and Rhesus Monkey with Chemometric Techniques. <i>Scientific Reports</i> , 2017, 7, 5176.	3.3	26
4	Mechanical response of near-equiatomic NiTi alloy at dynamic high pressure and strain rate. <i>Journal of Alloys and Compounds</i> , 2018, 731, 569-576.	5.5	26
5	The techniques of metallic foil electrically exploding driving hypervelocity flyer to more than 10 km/s for shock wave physics experiments. <i>Review of Scientific Instruments</i> , 2011, 82, 095105.	1.3	24
6	Enhancing perovskite film fluorescence by simultaneous near- and far-field effects of gold nanoparticles. <i>RSC Advances</i> , 2017, 7, 35752-35756.	3.6	18
7	High velocity flyer plates launched by magnetic pressure on pulsed power generator CQ-4 and applied in shock Hugoniot experiments. <i>Review of Scientific Instruments</i> , 2014, 85, 055110.	1.3	15
8	Continuous Sound Velocity Measurements along the Shock Hugoniot Curve of Quartz. <i>Physical Review Letters</i> , 2018, 120, 215703.	7.8	15
9	Finite-temperature infrared and Raman spectra of high-pressure hydrogen from first-principles molecular dynamics. <i>Physical Review B</i> , 2018, 98, .	3.2	14
10	The compact capacitor bank CQ-1.5 employed in magnetically driven isentropic compression and high velocity flyer plate experiments. <i>Review of Scientific Instruments</i> , 2008, 79, 053904.	1.3	13
11	Strain rate and hydrostatic pressure effects on strength of iron. <i>Mechanics of Materials</i> , 2017, 114, 142-146.	3.2	13
12	One-dimensional numerical simulation of laser-driven flyer plates. <i>Journal of Applied Physics</i> , 2004, 96, 3486-3490.	2.5	12
13	Study on launching technique of a 98 kJ electric gun for hypervelocity impact experiments. <i>International Journal of Impact Engineering</i> , 2018, 122, 419-430.	5.0	8
14	Yield behavior of polystyrene at strain rate 10^6 /s under quasi-isentropic compression. <i>Mechanics of Materials</i> , 2018, 124, 1-6.	3.2	8
15	Dynamic behaviors of a Zr-based bulk metallic glass under ramp wave and shock wave loading. <i>AIP Advances</i> , 2015, 5, .	1.3	7
16	Enhancing Optically Pumped Organic-Inorganic Hybrid Perovskite Amplified Spontaneous Emission via Compound Surface Plasmon Resonance. <i>Crystals</i> , 2018, 8, 124.	2.2	7
17	Optimization of detected optical intensity for measurement of diffuse correlation spectroscopy: Intralipid phantom study. <i>AIP Advances</i> , 2019, 9, .	1.3	7
18	Refractive index and polarizability of polystyrene under shock compression. <i>Journal of Materials Science</i> , 2018, 53, 12628-12640.	3.7	5

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19	Enhanced electron transportation of PF-NR2 cathode interface by gold nanoparticles. <i>Nanoscale Research Letters</i> , 2019, 14, 261.	5.7	5
20	Numerical analysis of laser-driven reservoir dynamics for shockless loading. <i>Journal of Applied Physics</i> , 2011, 109, 093525.	2.5	4
21	A high current pulsed power generator CQ-3-MMAF with co-axial cable transmitting energy for material dynamics experiments. <i>Review of Scientific Instruments</i> , 2016, 87, 065110.	1.3	4
22	Loading Circuit Coupled Magnetohydrodynamic Simulation of Sample Configurations in Isentropic Compression Experiments. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 1068-1076.	1.3	3
23	Simultaneous in vivo measurements of the total hemoglobin, oxygen saturation, and tissue blood flow via hybrid near-infrared diffuse optical techniques. <i>AIP Advances</i> , 2019, 9, .	1.3	3
24	MAGNETICALLY DRIVEN ISENTROPIC COMPRESSION AND FLYER PLATE EXPERIMENTS USING A CAPACITOR BANK. , 2008, , .		2
25	Cylindrical isentropic compression by ultrahigh magnetic field. <i>Journal of Physics: Conference Series</i> , 2014, 500, 142018.	0.4	2
26	A Compact Explosive-Driven Flux Compression Generator for Reproducibly Generating Multimegagauss Fields. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 3279-3283.	1.3	2
27	A compact platform for the investigation of material dynamics in quasi-isentropic compression to ~ 19 GPa. <i>Scientific Reports</i> , 2021, 11, 20688.	3.3	2
28	Label-free monitoring of cell death induced by oxidative stress in living human cells using terahertz ATR spectroscopy. , 2018, , .		1
29	Hypervelocity impact tests on a Whipple shield using a flyer plate in the velocity range from 4 km/s to 12 km/s. <i>International Journal of Impact Engineering</i> , 2021, 156, 103899.	5.0	1
30	Preliminary experimental investigation on small-aspect-ratio cylindrical solid liner implosion using compact pulsed power generator. <i>AIP Advances</i> , 2021, 11, 125229.	1.3	1
31	Development of a transient complex impedance measurement device used in quasi-isentropic compression experiments. <i>Review of Scientific Instruments</i> , 2022, 93, 054701.	1.3	1
32	The experimental research on explosively high magnetic field generator. , 2012, , .		0
33	Optimization of loading pressure waveforms for piston driven isentropic compression. <i>Journal of Applied Physics</i> , 2014, 115, 243506.	2.5	0
34	Experiments of cylindrical isentropic compression by ultrahigh magnetic field. <i>EPJ Web of Conferences</i> , 2015, 94, 01023.	0.3	0
35	Study of paraffin-embedded brain glioma using terahertz spectroscopy. , 2015, , .		0
36	Terahertz spectroscopic diagnosis and sub-wavelength imaging of Myelin Deficit monkey brain with chemometric techniques. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Elastic Behavior of Zirconia under Ramp Compression. EPJ Web of Conferences, 2018, 183, 03026.	0.3	0
38	Characterizations of dynamic material properties on compact pulsed power generator CQ-4. EPJ Web of Conferences, 2018, 183, 02057.	0.3	0
39	Direct measurement of material dynamic strength under high pressure using magnetically driven pressure-shear loading. Scientia Sinica: Physica, Mechanica Et Astronomica, 2016, 46, 114601.	0.4	0