Jianheng Zhao

List of Publications by Year
in descending order

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	First demonstration of the FLASH effect with ultrahigh dose rate high-energy X-rays. Radiotherapy and Oncology, 2022, 166, 44-50.	0.6	40
2	Development of a transient complex impedance measurement device used in quasi-isentropic compression experiments. Review of Scientific Instruments, 2022, 93, 054701.	1.3	1
3	Hypervelocity impact tests on a Whipple shield using a flyer plate in the velocity range from 4 km/s to 12 km/s. International Journal of Impact Engineering, 2021, 156, 103899.	5.0	1
4	A compact platform for the investigation of material dynamics in quasi-isentropic compression toâ€‰~â€‰19 GPa. Scientific Reports, 2021, 11, 20688.	3.3	2
5	Preliminary experimental investigation on small-aspect-ratio cylindrical solid liner implosion using compact pulsed power generator. AIP Advances, 2021, 11, 125229.	1.3	1
6	Enhanced electron transportation of PF-NR2 cathode interface by gold nanoparticles. Nanoscale Research Letters, 2019, 14, 261.	5.7	5
7	Simultaneous in vivo measurements of the total hemoglobin, oxygen saturation, and tissue blood flow via hybrid near-infrared diffuse optical techniques. AIP Advances, 2019, 9, .	1.3	3
8	Optimization of detected optical intensity for measurement of diffuse correlation spectroscopy: Intralipid phantom study. AIP Advances, 2019, 9, .	1.3	7
9	A Compact Explosive-Driven Flux Compression Generator for Reproducibly Generating Multimegagauss Fields. IEEE Transactions on Plasma Science, 2018, 46, 3279-3283.	1.3	2
10	Mechanical response of near-equiatomic NiTi alloy at dynamic high pressure and strain rate. Journal of Alloys and Compounds, 2018, 731, 569-576.	5.5	26
11	Elastic Behavior of Zirconia under Ramp Compression. EPJ Web of Conferences, 2018, 183, 03026.	0.3	0
12	Characterizations of dynamic material properties on compact pulsed power generator CQ-4. EPJ Web of Conferences, 2018, 183, 02057.	0.3	0
13	Label-free monitoring of cell death induced by oxidative stress in living human cells using terahertz ATR spectroscopy. , 2018, , .		1
14	Finite-temperature infrared and Raman spectra of high-pressure hydrogen from first-principles molecular dynamics. Physical Review B, 2018, 98, .	3.2	14
15	Study on launching technique of a 98â€¯kJ electric gun for hypervelocity impact experiments. International Journal of Impact Engineering, 2018, 122, 419-430.	5.0	8
16	Continuous Sound Velocity Measurements along the Shock Hugoniot Curve of Quartz. Physical Review Letters, 2018, 120, 215703.	7.8	15
17	Enhancing Optically Pumped Organic-Inorganic Hybrid Perovskite Amplified Spontaneous Emission via Compound Surface Plasmon Resonance. Crystals, 2018, 8, 124.	2.2	7
18	Yield behavior of polystyrene at strain rate 10 6 /s under quasi-isentropic compression. Mechanics of Materials, 2018, 124, 1-6.	3.2	8

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19	Refractive index and polarizability of polystyrene under shock compression. Journal of Materials Science, 2018, 53, 12628-12640.	3.7	5
20	Enhancing perovskite film fluorescence by simultaneous near- and far-field effects of gold nanoparticles. RSC Advances, 2017, 7, 35752-35756.	3.6	18
21	Strain rate and hydrostatic pressure effects on strength of iron. Mechanics of Materials, 2017, 114, 142-146.	3.2	13
22	Terahertz Spectroscopic Diagnosis of Myelin Deficit Brain in Mice and Rhesus Monkey with Chemometric Techniques. Scientific Reports, 2017, 7, 5176.	3.3	26
23	Terahertz spectroscopic diagnosis and sub-wavelength imaging of Myelin Deficit monkey brain with chemometric techniques. , 2017, , .		0
24	A high current pulsed power generator CQ-3-MMAF with co-axial cable transmitting energy for material dynamics experiments. Review of Scientific Instruments, 2016, 87, 065110.	1.3	4
25	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
26	Dynamic behaviors of a Zr-based bulk metallic glass under ramp wave and shock wave loading. AIP Advances, 2015, 5, .	1.3	7
27	Experiments of cylindrical isentropic compression by ultrahigh magnetic field. EPJ Web of Conferences, 2015, 94, 01023.	0.3	0
28	Study of paraffin-embedded brain glioma using terahertz spectroscopy. , 2015, , .		0
29	Loading Circuit Coupled Magnetohydrodynamic Simulation of Sample Configurations in Isentropic Compression Experiments. IEEE Transactions on Plasma Science, 2015, 43, 1068-1076.	1.3	3
30	High velocity flyer plates launched by magnetic pressure on pulsed power generator CQ-4 and applied in shock Hugoniot experiments. Review of Scientific Instruments, 2014, 85, 055110.	1.3	15
31	Optimization of loading pressure waveforms for piston driven isentropic compression. Journal of Applied Physics, 2014, 115, 243506.	2.5	0
32	Cylindrical isentropic compression by ultrahigh magnetic field. Journal of Physics: Conference Series, 2014, 500, 142018.	0.4	2
33	A 4 MA, 500 ns pulsed power generator CQ-4 for characterization of material behaviors under ramp wave loading. Review of Scientific Instruments, 2013, 84, 015117.	1.3	40
34	The experimental research on explosively high magnetic field generator. , 2012, , .		0
35	The techniques of metallic foil electrically exploding driving hypervelocity flyer to more than 10 km/s for shock wave physics experiments. Review of Scientific Instruments, 2011, 82, 095105.	1.3	24
36	Numerical analysis of laser-driven reservoir dynamics for shockless loading. Journal of Applied Physics, 2011, 109, 093525.	2.5	4

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37	The compact capacitor bank CQ-1.5 employed in magnetically driven isentropic compression and high velocity flyer plate experiments. Review of Scientific Instruments, 2008, 79, 053904.	1.3	13
38	MAGNETICALLY DRIVEN ISENTROPIC COMPRESSION AND FLYER PLATE EXPERIMENTS USING A CAPACITOR BANK. , 2008, , .		2
39	One-dimensional numerical simulation of laser-driven flyer plates. Journal of Applied Physics, 2004, 96, 3486-3490.	2.5	12