

Karen Appel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3785180/publications.pdf>

Version: 2024-02-01

18
papers

666
citations

759233

12
h-index

794594

19
g-index

26
all docs

26
docs citations

26
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and electron spin state changes in an x-ray heated iron carbonate system at the Earth's lower mantle pressures. <i>Physical Review Research</i> , 2022, 4, .	3.6	6
2	X-ray Free Electron Laser-Induced Synthesis of μ -Iron Nitride at High Pressures. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3246-3252.	4.6	14
3	Novel experimental setup for megahertz X-ray diffraction in a diamond anvil cell at the High Energy Density (HED) instrument of the European X-ray Free-Electron Laser (EuXFEL). <i>Journal of Synchrotron Radiation</i> , 2021, 28, 688-706.	2.4	21
4	The High Energy Density Scientific Instrument at the European XFEL. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1393-1416.	2.4	33
5	Demonstration of an x-ray Raman spectroscopy setup to study warm dense carbon at the high energy density instrument of European XFEL. <i>Physics of Plasmas</i> , 2021, 28, 082701.	1.9	11
6	Impact of real mirror profiles inside a split-and-delay unit on the spatial intensity profile in pump/probe experiments at the European XFEL. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 350-361.	2.4	2
7	High-resolution inelastic x-ray scattering at the high energy density scientific instrument at the European X-Ray Free-Electron Laser. <i>Review of Scientific Instruments</i> , 2021, 92, 013101.	1.3	15
8	An approach for the measurement of the bulk temperature of single crystal diamond using an X-ray free electron laser. <i>Scientific Reports</i> , 2020, 10, 14564.	3.3	21
9	A MHz-repetition-rate hard X-ray free-electron laser driven by a superconducting linear accelerator. <i>Nature Photonics</i> , 2020, 14, 391-397.	31.4	315
10	Thermomechanical response of thickly tamped targets and diamond anvil cells under pulsed hard x-ray irradiation. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	16
11	Design and performance characterisation of the HAPG von HÄ;mos Spectrometer at the High Energy Density Instrument of the European XFEL. <i>Journal of Instrumentation</i> , 2020, 15, P11033-P11033.	1.2	15
12	Equation of state and high-pressure phase behaviour of SrCO_3 . <i>European Journal of Mineralogy</i> , 2020, 32, 575-586.	1.3	12
13	Measurements of the momentum-dependence of plasmonic excitations in matter around 1 Mbar using an X-ray free electron laser. <i>Applied Physics Letters</i> , 2019, 114, 014101.	3.3	16
14	Setup for meV-resolution inelastic X-ray scattering measurements and X-ray diffraction at the Matter in Extreme Conditions endstation at the Linac Coherent Light Source. <i>Review of Scientific Instruments</i> , 2018, 89, 10F104.	1.3	25
15	Femtosecond laser-generated high-energy-density states studied by x-ray FELs. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014028.	2.1	17
16	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11291-11309.	4.9	71
17	Kerb and urban increment of highly time-resolved trace elements in PM_{10} and $\text{PM}_{2.5}$ and $\text{PM}_{1.0}$; winter aerosol in London during ClearfLo 2012. <i>Atmospheric Chemistry and Physics</i> . 2015. 15. 2367-2386.	4.9	46
18	Studying planetary matter using intense x-ray pulses. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 014003.	2.1	6