

Karen Appel

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

666
citations

759233

12
h-index

794594

19
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26
all docs

26
docs citations

26
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Kerb and urban increment of highly time-resolved trace elements in PM ₁₀ , PM _{2.5} and PM _{1.0} ; winter aerosol in London during ClearLo 2012. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2367-2386.	4.9	46
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	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
6	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
7	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
8	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
9	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
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	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
12	Design and performance characterisation of the HAPG von Håmos Spectrometer at the High Energy Density Instrument of the European XFEL. <i>Journal of Instrumentation</i> , 2020, 15, P11033-P11033.	1.2	15
13	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
14	Equation of state and high-pressure phase behaviour of SrCO ₃ . <i>European Journal of Mineralogy</i> , 2020, 32, 575-586.	1.3	12
15	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
16	Studying planetary matter using intense x-ray pulses. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 014003.	2.1	6
17	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
18	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