

Alexander von Reppert

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

226
citations

933447

10
h-index

996975

15
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17
all docs

17
docs citations

17
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer specific observation of slow thermal equilibration in ultrathin metallic nanostructures by femtosecond X-ray diffraction. Nature Communications, 2018, 9, 3335.	12.8	38
2	Second Harmonic Generation of Nanoscale Phonon Wave Packets. Physical Review Letters, 2015, 115, 195502.	7.8	23
3	Persistent nonequilibrium dynamics of the thermal energies in the spin and phonon systems of an antiferromagnet. Structural Dynamics, 2016, 3, 054302.	2.3	23
4	Spin stress contribution to the lattice dynamics of FePt. Science Advances, 2020, 6, eaba1142.	10.3	20
5	Watching the Vibration and Cooling of Ultrathin Gold Nanotriangles by Ultrafast X-ray Diffraction. Journal of Physical Chemistry C, 2016, 120, 28894-28899.	3.1	19
6	Ultrafast laser generated strain in granular and continuous FePt thin films. Applied Physics Letters, 2018, 113, .	3.3	15
7	Measurement of transient strain induced by two-photon excitation. Physical Review Research, 2020, 2, .	3.6	11
8	Tracking picosecond strain pulses in heterostructures that exhibit giant magnetostriction. Structural Dynamics, 2019, 6, 024302.	2.3	10
9	Ultrafast negative thermal expansion driven by spin disorder. Physical Review B, 2019, 99, .	3.2	10
10	Unconventional picosecond strain pulses resulting from the saturation of magnetic stress within a photoexcited rare earth layer. Structural Dynamics, 2020, 7, 024303.	2.3	10
11	Ultrafast x-ray diffraction thermometry measures the influence of spin excitations on the heat transport through nanolayers. Physical Review B, 2017, 96, .	3.2	9
12	Electronic energy transport in nanoscale Au/Fe hetero-structures in the perspective of ultrafast lattice dynamics. Applied Physics Letters, 2022, 120, .	3.3	9
13	Grueneisen-approach for the experimental determination of transient spin and phonon energies from ultrafast x-ray diffraction data: gadolinium. Journal of Physics Condensed Matter, 2017, 29, 264001.	1.8	8
14	Reciprocal space slicing: A time-efficient approach to femtosecond x-ray diffraction. Structural Dynamics, 2021, 8, 014302.	2.3	8
15	Finite-size effects in ultrafast remagnetization dynamics of FePt. Physical Review B, 2019, 100, .	3.2	7
16	Analysis of the temperature- and fluence-dependent magnetic stress in laser-excited SrRuO ₃ . Structural Dynamics, 2021, 8, 024302.	2.3	5