Eeuwe S Zijlstra

List of Publications by Year
in descending order

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27
papers

602
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567281
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28
all docs

28
docs citations

28
times ranked

561
citing authors

#	Article	IF	Citations
1	Self-Learning Method for Construction of Analytical Interatomic Potentials to Describe Laser-Excited Materials. Physical Review Letters, 2020, 124, 085501.	7.8	16
2	Simulations of Highly-Excited Silicon. Silicon, 2018, 10, 567-568.	3.3	0
3	Controlling Three Laser-Excited Coherent Phonon Modes in Boron Nitride Nanotubes To Produce Ultrashort Shaped Terahertz Pulses: Implications for Memory Devices. ACS Applied Nano Materials, 2018, 1, 6932-6937.	5.0	4
4	Coherent and incoherent structural dynamics in laser-excited antimony. Physical Review B, 2017, 95, .	3.2	35
5	Simulations of laser-induced dynamics in free-standing thin silicon films. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	8
6	Molecular dynamics simulations of a femtosecond-laser-induced solid-to-solid transition in antimony. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	5
7	Nonequilibrium dynamics of the phonon gas in ultrafast-excited antimony. Physical Review Materials, 2017, 1, .	2.4	6
8	Ab initio molecular dynamics simulations of femtosecond-laser-induced anti-Peierls transition in antimony. Proceedings of SPIE, 2016, , .	0.8	3
9	Quasimomentum-Space Image for Ultrafast Melting of Silicon. Physical Review Letters, 2016, 116, 153901.	7.8	20
10	Isostructural elemental crystals in the presence of hot carriers. Physical Review B, 2015, 91, .	3.2	12
11	Signatures of nonthermal melting. Structural Dynamics, 2015, 2, 054101.	2.3	28
12	Melting of Al Induced by Laser Excitation of 2p Holes. Materials Research Letters, 2015, 3, 149-155.	8.7	4
13	Electronic origin of bond softening and hardening in femtosecond-laser-excited magnesium. New Journal of Physics, 2014, 16, 013002.	2.9	14
14	Ultrafast structural phenomena: theory of phonon frequency changes and simulations with code for highly excited valence electron systems. Journal of the Optical Society of America B: Optical Physics, 2014, 31, C22.	2.1	18
15	Femtosecond-laser-induced bond breaking and structural modifications in silicon, TiO $$_2$$ 2 , and defective graphene: an ab initio molecular dynamics study. Applied Physics A: Materials Science and Processing, 2014, 114, 1-9.	2.3	32
16	Silicon before the bonds break. Applied Physics A: Materials Science and Processing, 2014, 117, 1-5.	2.3	21
17	Mechanical properties of boron-nitride nanotubes after intense femtosecond-laser excitation. Nanotechnology, 2014, 25, 145701.	2.6	5
18	Fractional Diffusion in Silicon. Advanced Materials, 2013, 25, 5605-5608.	21.0	50

#	Article	IF	Citations
19	Ultrafast Evolution of the Excited-State Potential Energy Surface of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Single Crystals Induced by Carrier Cooling. Physical Review Letters, 2013, 110, 067402.	7.8	32
20	Squeezed Thermal Phonons Precurse Nonthermal Melting of Silicon as a Function of Fluence. Physical Review X, 2013, 3, .	8.9	46
21	Modeling of material properties after ultrashort laser and XUV excitation. Applied Physics A: Materials Science and Processing, 2013, 110, 519-528.	2.3	18
22	Femtosecond-laser-induced destruction of boron-nitride nanotubes and boron-nitride doped graphene. , 2013, , .		0
23	Comment on â€œDirectly Observing Squeezed Phonon States with Femtosecond X-Ray Diffractionâ€• Physical Review Letters, 2010, 104, 029601; author reply 029602.	7.8	14
24	Optimized Gaussian basis sets for Goedeckerâ€“Teterâ€“Hutter pseudopotentials. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 015009.	2.0	25
25	Laser-induced solidâ€“solid phase transition in As under pressure: a theoretical prediction. New Journal of Physics, 2008, 10, 033010.	2.9	31
26	Anharmonic Noninertial Lattice Dynamics during Ultrafast Nonthermal Melting of InSb. Physical Review Letters, 2008, 101, 135701.	7.8	66
27	Laser-induced phonon-phonon interactions in bismuth. Physical Review B, 2006, 74, .	3.2	84