

# Johannes Roth

## List of Publications by Year in descending order

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27  
papers

613  
citations

687363

13  
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610901

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docs citations

28  
times ranked

672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomistic simulation of ultra-short pulsed laser ablation of Al: an extension for non-thermalized electrons and ballistic transport. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 135301.	2.8	0
2	IMD – the ITAP molecular dynamics simulation package. <i>European Physical Journal: Special Topics</i> , 2019, 227, 1831-1836.	2.6	3
3	Atomistic simulations of ultra-short pulse laser ablation of aluminum: validity of the Lambert-Beer law. <i>Advanced Optical Technologies</i> , 2018, 7, 189-196.	1.7	3
4	Properties of quasiperiodic functions. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 184003.	1.8	0
5	Atomistic modeling of flexoelectricity in periclase. <i>Physical Review B</i> , 2016, 93, .	3.2	14
6	Classical interaction potentials for diverse materials from <i>ab initio</i> data: a review of <i>potfit</i> . <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015, 23, 074002.	2.0	76
7	Simulation of laser ablation in aluminum: the effectivity of double pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 2207-2216.	2.3	20
8	Periodic average structures of colloidal quasicrystals. <i>Soft Matter</i> , 2014, 10, 8705-8710.	2.7	7
9	Comment on “Quantum Quasicrystals of Spin-Orbit-Coupled Dipolar Bosons”. <i>Physical Review Letters</i> , 2014, 113, 079601.	7.8	4
10	Phason-induced dynamics of colloidal particles on quasicrystalline substrates. <i>European Physical Journal E</i> , 2013, 36, 25.	1.6	9
11	2012 IEEE Visualization Contest Winner: Visualizing Polarization Domains in Barium Titanate. <i>IEEE Computer Graphics and Applications</i> , 2013, 33, 9-17.	1.2	9
12	IMD: A Typical Massively Parallel Molecular Dynamics Code for Classical Simulations – Structure, Applications, Latest Developments. , 2013, , 63-76.		3
13	Influence of polarizability on metal oxide properties studied by molecular dynamics simulations. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 485401.	1.8	8
14	Visualization of Electrostatic Dipoles in Molecular Dynamics of Metal Oxides. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 2061-2068.	4.4	14
15	Simulation of crack propagation in alumina with <i>ab initio</i> based polarizable force field. <i>Journal of Chemical Physics</i> , 2012, 136, 084707.	3.0	18
16	What Phasons Look Like: Particle Trajectories in a Quasicrystalline Potential. <i>Physical Review Letters</i> , 2012, 108, 218301.	7.8	35
17	<i>Ab initio</i> based polarizable force field generation and application to liquid silica and magnesia. <i>Journal of Chemical Physics</i> , 2011, 135, 234512.	3.0	17
18	Direct Wolf summation of a polarizable force field for silica. <i>Journal of Chemical Physics</i> , 2010, 132, 194109.	3.0	27

#	ARTICLE	IF	CITATIONS
19	Proliferation of anomalous symmetries in colloidal monolayers subjected to quasiperiodic light fields. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7214-7218.	7.1	70
20	Archimedean-like tiling on decagonal quasicrystalline surfaces. Nature, 2008, 454, 501-504.	27.8	192
21	Restricted square-triangle tilings. Zeitschrift für Kristallographie, 2008, 223, 761-764.	1.1	2
22	Freezing and Melting of a Colloidal Adsorbate on a 1D Quasicrystalline Substrate. Physical Review Letters, 2006, 97, 158304.	7.8	22
23	Shock waves in complex binary solids: Cubic Laves crystals, quasicrystals, and amorphous solids. Physical Review B, 2005, 71, .	3.2	13
24	Shock waves in materials with Dzugutov-potential interactions. Physical Review B, 2005, 72, .	3.2	9
25	Phason-elastic energy in a model quasicrystal. Journal of Non-Crystalline Solids, 2004, 334-335, 276-279.	3.1	6
26	Phason elastic constants of a binary tiling quasicrystal. Journal of Alloys and Compounds, 2002, 342, 287-290.	5.5	30
27	Shock waves in quasicrystals. Ferroelectrics, 2001, 250, 365-368.	0.6	1