

Tommi T JÄärvi

List of Publications by Year in descending order

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26
papers

791
citations

471509

17
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

1298
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Interatomic ReaxFF Potentials for Au-C-H Systems. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10315-10322.	2.5	77
2	Highly Selective SAM-Nanowire Hybrid NO ₂ Sensor: Insight into Charge Transfer Dynamics and Alignment of Frontier Molecular Orbitals. <i>Advanced Functional Materials</i> , 2014, 24, 595-602.	14.9	71
3	Enhanced sputtering from nanoparticles and thin films: Size effects. <i>Europhysics Letters</i> , 2008, 82, 26002.	2.0	60
4	Development of a ReaxFF description for gold. <i>European Physical Journal B</i> , 2008, 66, 75-79.	1.5	58
5	Plasma-chemical reduction of iron oxide photoanodes for efficient solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4828-4835.	7.1	54
6	Friction and Wear Mechanisms of Tungsten-Carbon Systems: A Comparison of Dry and Lubricated Conditions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6123-6135.	8.0	44
7	Contact epitaxy by deposition of Cu, Ag, Au, Pt, and Ni nanoclusters on (100) surfaces: Size limits and mechanisms. <i>Physical Review B</i> , 2007, 75, .	3.2	43
8	Experimental and Numerical Atomistic Investigation of the Third Body Formation Process in Dry Tungsten/Tungsten-Carbide Tribo Couples. <i>Tribology Letters</i> , 2013, 50, 67-80.	2.6	42
9	Coarse Graining and Localized Plasticity between Sliding Nanocrystalline Metals. <i>Physical Review Letters</i> , 2014, 113, 036101.	7.8	37
10	Lithium Chalcogenidotetrelates: LiCh ₄ Synthesis and Characterization of New Li ⁺ Ion Conducting Li/Sn/Se Compounds. <i>Chemistry of Materials</i> , 2013, 25, 2961-2969.	6.7	32
11	Stopping of energetic cobalt clusters and formation of radiation damage in graphite. <i>Physical Review B</i> , 2009, 80, .	3.2	31
12	Sputtering of freestanding metal nanocrystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 66-69.	1.4	31
13	Charge-transfer model for carbonaceous electrodes in polar environments. <i>Physical Review B</i> , 2011, 83, .	3.2	30
14	Cluster ion-solid interactions from meV to MeV energies. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 91, 561-566.	2.3	28
15	Quaternary Diamond-Like Chalcogenidometalate Networks as Efficient Anode Material in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 5693-5699.	14.9	26
16	From multiply twinned to fcc nanoparticles via irradiation-induced transient amorphization. <i>Europhysics Letters</i> , 2009, 85, 26001.	2.0	23
17	Primary Radiation Defect Production in Polyethylene and Cellulose. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13932-13938.	2.6	20
18	Effects of the surface structure and cluster bombardment on the self-sputtering of molybdenum. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5845-5855.	1.8	16

#	ARTICLE	IF	CITATIONS
19	Structural modification of a multiply twinned nanoparticle by ion irradiation: A molecular dynamics study. <i>Journal of Applied Physics</i> , 2007, 102, 124304.	2.5	14
20	Damage production in nanoparticles under light ion irradiation. <i>Physical Review B</i> , 2009, 80, .	3.2	14
21	Contact epitaxy in multiple cluster deposition. <i>Applied Physics Letters</i> , 2006, 89, 253109.	3.3	11
22	Binding of deposited gold clusters to thiol self-assembled monolayers on Au(111) surfaces. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	11
23	Decay Kinetics of Cluster-Beam-Deposited Metal Particles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19327-19334.	3.1	10
24	Low energy cluster deposition of nanoalloys. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	7
25	Sensors: Highly Selective SAM- ² Nanowire Hybrid NO ₂ Sensor: Insight into Charge Transfer Dynamics and Alignment of Frontier Molecular Orbitals (<i>Adv. Funct. Mater.</i> 5/2014). <i>Advanced Functional Materials</i> , 2014, 24, 566-566.	14.9	1
26	Adaptive molecular decomposition: Large-scale quantum chemistry for liquids. <i>Journal of Chemical Physics</i> , 2013, 138, 104108.	3.0	0