

Andreas Pedersen

List of Publications by Year in descending order

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34
papers

1,059
citations

516561

16
h-index

477173

29
g-index

34
all docs

34
docs citations

34
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved initial guess for minimum energy path calculations. Journal of Chemical Physics, 2014, 140, 214106.	1.2	279
2	Atomic Scale Plasmonic Switch. Nano Letters, 2016, 16, 709-714.	4.5	118
3	Magic-Number Gold Nanoclusters with Diameters from 1 to 3.5 nm: Relative Stability and Catalytic Activity for CO Oxidation. Nano Letters, 2015, 15, 682-688.	4.5	92
4	Simulations of hydrogen diffusion at grain boundaries in aluminum. Acta Materialia, 2009, 57, 4036-4045.	3.8	78
5	EON: software for long time simulations of atomic scale systems. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 055002.	0.8	58
6	Space-Charge Modulation in Vacuum Microdiodes at THz Frequencies. Physical Review Letters, 2010, 104, 175002.	2.9	56
7	Theoretical study of kinks on screw dislocation in silicon. Physical Review B, 2008, 77, .	1.1	49
8	Optimal atomic structure of amorphous silicon obtained from density functional theory calculations. New Journal of Physics, 2017, 19, 063018.	1.2	32
9	Efficient Sampling of Saddle Points with the Minimum-Mode Following Method. SIAM Journal of Scientific Computing, 2011, 33, 633-652.	1.3	23
10	Reassignment of "magic numbers"™ for Au clusters of decahedral and FCC structural motifs. Nanoscale, 2018, 10, 5124-5132.	2.8	23
11	Long-timescale simulations of diffusion in molecular solids. Physical Chemistry Chemical Physics, 2012, 14, 10844.	1.3	22
12	Geothermal model calibration using a global minimization algorithm based on finding saddle points and minima of the objective function. Computers and Geosciences, 2014, 65, 110-117.	2.0	22
13	Long time scale simulation of a grain boundary in copper. New Journal of Physics, 2009, 11, 073034.	1.2	20
14	Distributed implementation of the adaptive kinetic Monte Carlo method. Mathematics and Computers in Simulation, 2010, 80, 1487-1498.	2.4	17
15	Simulated Annealing with Coarse Graining and Distributed Computing. Lecture Notes in Computer Science, 2012, , 34-44.	1.0	17
16	Molecular reordering processes on ice (0001) surfaces from long timescale simulations. Journal of Chemical Physics, 2014, 141, 234706.	1.2	17
17	Pushing back the limit of <i>ab-initio</i> quantum transport simulations on hybrid supercomputers. , 2015, , .		16
18	Finding mechanism of transitions in complex systems: formation and migration of dislocation kinks in a silicon crystal. Journal of Physics Condensed Matter, 2009, 21, 084210.	0.7	15

#	ARTICLE	IF	CITATIONS
19	Tunability of the terahertz space-charge modulation in a vacuum microdiode. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	15
20	Long-Time-Scale Simulations of H ₂ O Admolecule Diffusion on Ice Ih(0001) Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16528-16536.	1.5	15
21	Lithiation of Tin Oxide: A Computational Study. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22257-22263.	4.0	14
22	PHOTOELECTRIC CHARGING OF DUST GRAINS IN THE ENVIRONMENT OF YOUNG STELLAR OBJECTS. <i>Astrophysical Journal</i> , 2011, 740, 77.	1.6	13
23	Bowl breakout: Escaping the positive region when searching for saddle points. <i>Journal of Chemical Physics</i> , 2014, 141, 024109.	1.2	9
24	Lithiation of Silicon Nanoclusters. <i>Physical Review Applied</i> , 2017, 7, .	1.5	9
25	Three-Phase Model for the Reversible Lithiation-Delithiation of SnO Anodes in Li-Ion Batteries. <i>Physical Review Applied</i> , 2015, 4, .	1.5	6
26	Atomic and electronic structures of a vacancy in amorphous silicon. <i>Physical Review B</i> , 2020, 101, .	1.1	6
27	Stability and mobility of vacancy-H complexes in Al. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 375401.	0.7	5
28	Atomistic simulation of nanodevices. , 2016, , .		5
29	Diffusion mechanisms in Li _{0.5} CoO ₂ —A computational study. <i>Applied Physics Letters</i> , 2016, 108, 153902.	1.5	3
30	Reassignment of magic numbers for icosahedral Au clusters: 310, 564, 928 and 1426. <i>Nanoscale</i> , 2022, 14, 9053-9060.	2.8	3
31	Electronic properties of lithiated SnO-based anode materials. <i>Journal of Applied Physics</i> , 2017, 122, 055105.	1.1	2
32	Parametric survey of space-charge modulations in vacuum microdiodes. , 2012, , .		0
33	Vacuum microdiodes as tunable THz oscillators. , 2013, , .		0
34	Atomic scale plasmonic devices. , 2016, , .		0