

Andrei Buin

List of Publications by Year in descending order

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12
papers

7,755
citations

1307366

7
h-index

1199470

12
g-index

12
all docs

12
docs citations

12
times ranked

10641
citing authors

#	ARTICLE	IF	CITATIONS
1	Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. <i>Science</i> , 2015, 347, 519-522.	6.0	4,156
2	Ligand-Stabilized Reduced-Dimensionality Perovskites. <i>Journal of the American Chemical Society</i> , 2016, 138, 2649-2655.	6.6	1,157
3	Perovskite–fullerene hybrid materials suppress hysteresis in planar diodes. <i>Nature Communications</i> , 2015, 6, 7081.	5.8	948
4	Materials Processing Routes to Trap-Free Halide Perovskites. <i>Nano Letters</i> , 2014, 14, 6281-6286.	4.5	671
5	Quantum-dot-in-perovskite solids. <i>Nature</i> , 2015, 523, 324-328.	13.7	468
6	Halide-Dependent Electronic Structure of Organolead Perovskite Materials. <i>Chemistry of Materials</i> , 2015, 27, 4405-4412.	3.2	305
7	Perovskite Quantum Dots Modeled Using ab Initio and Replica Exchange Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13965-13971.	1.5	28
8	Mechanisms of Phase Transformations of TiO ₂ Nanotubes and Nanorods. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22257-22264.	1.5	7
9	Conformational Changes of <i>trans</i> -1,2-Dichlorocyclohexane Adsorbed in Zeolites Studied by FT-Raman Spectroscopy and Molecular QM/MM Simulations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8608-8618.	1.5	7
10	A study of conformational equilibrium of 1,1,2-trichloroethane in FAU-type zeolites. <i>Microporous and Mesoporous Materials</i> , 2014, 183, 207-217.	2.2	5
11	Reply to: Perovskite decomposition and missing crystal planes in HRTEM. <i>Nature</i> , 2021, 594, E8-E9.	13.7	2
12	Permutationally Invariant Deep Learning Approach to Molecular Fingerprinting with Application to Compound Mixtures. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 631-640.	2.5	1