## Oleksandr I Malyi

## List of Publications by Citations

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2,202 25 46 g-index

72 2,650 8.4 5.47 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
66	Phosphorene as an anode material for Na-ion batteries: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13921-8	3.6	267
65	Adsorption of metal adatoms on single-layer phosphorene. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 992-1000	3.6	246
64	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1368-1380	21.8	118
63	Water-Soluble Sericin Protein Enabling Stable Solid-Electrolyte Interphase for Fast Charging High Voltage Battery Electrode. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701828	24	114
62	In search of high performance anode materials for Mg batteries: Computational studies of Mg in Ge, Si, and Sn. <i>Journal of Power Sources</i> , <b>2013</b> , 233, 341-345	8.9	85
61	Ambient dissolution decrystallization towards large-scale preparation of V 2 O 5 nanobelts for high-energy battery applications. <i>Nano Energy</i> , <b>2016</b> , 22, 583-593	17.1	82
60	Identifying the Origin and Contribution of Surface Storage in TiO (B) Nanotube Electrode by In Situ Dynamic Valence State Monitoring. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802200	24	72
59	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14847-14852	16.4	71
58	A Comparative Computational Study of Structures, Diffusion, and Dopant Interactions between Li and Na Insertion into Si. <i>Applied Physics Express</i> , <b>2013</b> , 6, 027301	2.4	71
57	A computational study of Na behavior on graphene. <i>Applied Surface Science</i> , <b>2015</b> , 333, 235-243	6.7	71
56	Insertion energetics of lithium, sodium, and magnesium in crystalline and amorphous titanium dioxide: A comparative first-principles study. <i>Journal of Power Sources</i> , <b>2015</b> , 278, 197-202	8.9	69
55	A computational study of the insertion of Li, Na, and Mg atoms into Si(111) nanosheets. <i>Nano Energy</i> , <b>2013</b> , 2, 1149-1157	17.1	68
54	Controlling Na diffusion by rational design of Si-based layered architectures. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 4260-7	3.6	62
53	Comparative computational study of the energetics of Li, Na, and Mg storage in amorphous and crystalline silicon. <i>Computational Materials Science</i> , <b>2014</b> , 94, 214-217	3.2	56
52	Enhanced Li adsorption and diffusion in silicon nanosheets based on first principles calculations. <i>RSC Advances</i> , <b>2013</b> , 3, 4231	3.7	48
51	Direct coherent multi-ink printing of fabric supercapacitors. Science Advances, 2021, 7,	14.3	44
50	Comparative computational study of the diffusion of Li, Na, and Mg in silicon including the effect of vibrations. <i>Solid State Ionics</i> , <b>2013</b> , 253, 157-163	3.3	43

## (2021-2012)

49	Formation and migration of oxygen and zirconium vacancies in cubic zirconia and zirconium oxysulfide. <i>Solid State Ionics</i> , <b>2012</b> , 212, 117-122	3.3	35	
48	Energy, Phonon, and Dynamic Stability Criteria of Two-Dimensional Materials. <i>ACS Applied Materials</i> & Amp; Interfaces, <b>2019</b> , 11, 24876-24884	9.5	33	
47	Correlating the Peukert® Constant with Phase Composition of Electrode Materials in Fast Lithiation Processes <b>2019</b> , 1, 519-525		32	
46	Printable Ink Design towards Customizable Miniaturized Energy Storage Devices <b>2020</b> , 2, 1041-1056		29	
45	Understanding Doping of Quantum Materials. Chemical Reviews, 2021, 121, 3031-3060	68.1	27	
44	Stability and electronic properties of phosphorene oxides: from 0-dimensional to amorphous 2-dimensional structures. <i>Nanoscale</i> , <b>2017</b> , 9, 2428-2435	7.7	26	
43	Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO Nanotubes. <i>Small</i> , <b>2020</b> , 16, e2002094	11	26	
42	Density functional theory study of the effects of alloying additions on sulfur adsorption on nickel surfaces. <i>Applied Surface Science</i> , <b>2013</b> , 264, 320-328	6.7	25	
41	In search of new reconstructions of (001) ⊞quartz surface: a first principles study. <i>RSC Advances</i> , <b>2014</b> , 4, 55599-55603	3.7	22	
40	Enhanced Li adsorption and diffusion in single-walled silicon nanotubes: an ab initio study. <i>ChemPhysChem</i> , <b>2013</b> , 14, 1161-7	3.2	21	
39	Tailoring electronic properties of multilayer phosphorene by siliconization. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 2075-2083	3.6	18	
38	Spontaneous Non-stoichiometry and Ordering in Degenerate but Gapped Transparent Conductors. <i>Matter</i> , <b>2019</b> , 1, 280-294	12.7	17	
37	Density functional theory study of sulfur tolerance of copper: New copperBulfur phase diagram. <i>Chemical Physics Letters</i> , <b>2012</b> , 533, 20-24	2.5	17	
36	Realization of predicted exotic materials: The burden of proof. <i>Materials Today</i> , <b>2020</b> , 32, 35-45	21.8	17	
35	Reducing the Charge Carrier Transport Barrier in Functionally Layer-Graded Electrodes. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15043-15048	3.6	15	
34	False metals, real insulators, and degenerate gapped metals. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 041310	17.3	15	
33	Comparison of alpha and beta tin for lithium, sodium, and magnesium storage: An ab initio study including phonon contributions. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 204701	3.9	15	
32	Deep Cycling for High-Capacity Li-Ion Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004998	24	15	

Band gap modulation of SrTiO upon CO adsorption. *Physical Chemistry Chemical Physics*, **2017**, 19, 16629<sub>3</sub>16637<sub>14</sub>

Physics, 2016, 18, 7483-9  28 Effect of sulfur impurity on the stability of cubic zirconia and its interfaces with metals. Journal of Materials Chemistry, 2011, 21, 12363  27 Effect of sulfur impurity on the stability of cubic zirconia and its interfaces with metals. Journal of Materials Chemistry, 2011, 21, 12363  28 Effect of sulfur impurity on the stability of cubic zirconia and its interfaces with metals. Journal of Materials Chemistry, 2011, 21, 12363  28 Effect of sulfur impurity on the stability of Cubic zirconia and its interfaces with metals. Journal of Materials Chemistry, 2011, 21, 12363  29 Einst-Principles Mapping of the Electronic Properties of Two-Dimensional Materials for Strain-Tunable Nanoelectronics. ACS Applied Nano Materials, 2019, 2, 5614-5624  20 Distance-Dependent Sign Reversal in the Casimir-Lifshitz Torque. Physical Review Letters, 2018, 74  20 Improved binding and stability in SI/CNT hybrid nanostructures via interfacial functionalization: a first-principles study. RSC Advances, 2013, 3, 8446  21 A computational study of the effect of alloying additions on the stability of Ni/c-ZrO2 interfaces. Surface Science, 2013, 611, 5-9  22 Anisotropic contribution to the van der Waals and the Casimir-Polder energies for CO2 and CH4 molecules near surfaces and thin films. Physical Review A, 2015, 92, 2  22 Chemistry of Oxygen Ionosorption on SnO Surfaces. ACS Applied Materials & Dispersion Forces Stabilize Ice Coatings at Certain Gas Hydrate Interfaces That Prevent Water Wetting, ACS Earth and Space Chemistry, 2019, 3, 1014-1022  23 Dispersion Forces Stabilize Ice Coatings at Certain Gas Hydrate Interfaces That Prevent Water Wetting, ACS Earth and Space Chemistry, 2019, 3, 1014-1022  24 Fluid-sensitive nanoscale switching with quantum levitation controlled by Ebr/Isn phase transition. Physical Review B, 2018, 97, 33  25 Suppression of surfaces states at cubic perovskite (001) surfaces by CO adsorption. Physical Chemistry Chemical Physics, 2018, 1678, 1  26 A Comparative Computational Study of LI				
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Dispersion Forces Stabilize Ice Coatings at Certain Gas Hydrate Interfaces That Prevent Water Wetting. ACS Earth and Space Chemistry, 2019, 3, 1014-1022  Fluid-sensitive nanoscale switching with quantum levitation controlled by En/En phase transition. Physical Review B, 2018, 97,  Suppression of surfaces states at cubic perovskite (001) surfaces by CO adsorption. Physical Chemistry Chemical Physics, 2018, 20, 18828-18836  A Comparative Computational Study of Li, Na, and Mg Insertion in En. Materials Research Society Symposia Proceedings, 2014, 1678, 1  Bulk NdNiO2 is thermodynamically unstable with respect to decomposition while hydrogenation reduces the instability and transforms it from metal to insulator. Physical Review B, 2022, 105,  Hole antidoping of oxides. Physical Review B, 2020, 101,  Effects of van der Waals forces and salt ions on the growth of water films on ice and the	23	·	2.6	9
Wetting. ACS Earth and Space Chemistry, 2019, 3, 1014-1022  Fluid-sensitive nanoscale switching with quantum levitation controlled by En/En phase transition. Physical Review B, 2018, 97,  Suppression of surfaces states at cubic perovskite (001) surfaces by CO adsorption. Physical Chemistry Chemical Physics, 2018, 20, 18828-18836  A Comparative Computational Study of Li, Na, and Mg Insertion in En. Materials Research Society Symposia Proceedings, 2014, 1678, 1  Bulk NdNiO2 is thermodynamically unstable with respect to decomposition while hydrogenation reduces the instability and transforms it from metal to insulator. Physical Review B, 2022, 105,  Hole antidoping of oxides. Physical Review B, 2020, 101,  Effects of van der Waals forces and salt ions on the growth of water films on ice and the	22		9.5	9
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Bulk NdNiO2 is thermodynamically unstable with respect to decomposition while hydrogenation reduces the instability and transforms it from metal to insulator. <i>Physical Review B</i> , <b>2022</b> , 105,  Hole antidoping of oxides. <i>Physical Review B</i> , <b>2020</b> , 101,  Effects of van der Waals forces and salt ions on the growth of water films on ice and the	19		3.6	7
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Effects of van der Waals forces and salt ions on the growth of water films on ice and the	17		3.3	7
	16	Hole antidoping of oxides. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
	15		1.6	6
14 Lifshitz interaction can promote ice growth at water-silica interfaces. <i>Physical Review B</i> , <b>2017</b> , 95, 3.3	14	Lifshitz interaction can promote ice growth at water-silica interfaces. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	6

## LIST OF PUBLICATIONS

13	Regulating zinc electroplating chemistry to achieve high energy coaxial fiber Zn ion supercapacitor for self-powered textile-based monitoring system. <i>Nano Energy</i> , <b>2022</b> , 93, 106893	17.1	6	
12	Mass enhancement in 3d and sp perovskites from symmetry breaking. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	6	
11	A comparative computational study of the diffusion of Na and Li atoms in Sn(111) nanosheets. <i>Solid State Ionics</i> , <b>2014</b> , 268, 273-276	3.3	5	
10	The influence of Lifshitz forces and gas on premelting of ice within porous materials. <i>Europhysics Letters</i> , <b>2016</b> , 115, 13001	1.6	5	
9	Effect of static local distortions vs. dynamic motions on the stability and band gaps of cubic oxide and halide perovskites. <i>Materials Today</i> , <b>2021</b> ,	21.8	4	
8	Noble gas as a functional dopant in ZnO. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	3	
7	Increased porosity turns desorption to adsorption for gas bubbles near water-SiO2 interface. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	3	
6	Computational study of Mg insertion into amorphous silicon: advantageous energetics over crystalline silicon for Mg storage. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1540, 3601		3	
5	Amorphization of Indirect Band Gap Semiconductors To Tune Their Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 14432-14438	3.8	2	
4	Role of Inter-Dopant Interactions on the Diffusion of Li and Na Atoms in Bulk Si Anodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1541, 75601		2	
3	Elementary models of the "flux driven anti-ripening" during nanobelt growth. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 9740-9748	3.6	1	
2	Effect of excess charge carriers and fluid medium on the magnitude and sign of the Casimir-Lifshitz torque. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1	
1	Silicon-Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize SolidElectrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO2 Nanotubes (Small 30/2020). Small. 2020, 16, 2070169	11		