

Nicholas F Quackenbush

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,182
citations

361413

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552781

26
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all docs

27
docs citations

27
times ranked

2417
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the Bipolar Doping Behavior of SnO from X-ray Spectroscopy and Density Functional Theory. Chemistry of Materials, 2013, 25, 3114-3123.	6.7	135
2	Direct Observation of Electrostatically Driven Band Gap Renormalization in a Degenerate Perovskite Transparent Conducting Oxide. Physical Review Letters, 2016, 116, 027602.	7.8	100
3	Band Gap Dependence on Cation Disorder in ZnSnN ₂ Solar Absorber. Advanced Energy Materials, 2015, 5, 1501462.	19.5	96
4	Nature of the Metal Insulator Transition in Ultrathin Epitaxial Vanadium Dioxide. Nano Letters, 2013, 13, 4857-4861.	9.1	90
5	La-doped BaSnO ₃ Degenerate perovskite transparent conducting oxide: Evidence from synchrotron x-ray spectroscopy. Applied Physics Letters, 2013, 103, .	3.3	81
6	Elucidating the Nature of Pseudo Jahn-Teller Distortions in Li _x MnPO ₄ : Combining Density Functional Theory with Soft and Hard X-ray Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 10383-10396.	3.1	72
7	Surface degradation of Li _x Ni _{0.80} Co _{0.15} Al _{0.05} O ₂ cathodes: Correlating charge transfer impedance with surface phase transformations. Applied Physics Letters, 2016, 108, .	3.3	72
8	Origin of deep subgap states in amorphous indium gallium zinc oxide: Chemically disordered coordination of oxygen. Applied Physics Letters, 2014, 104, .	3.3	67
9	Thermodynamics, Kinetics and Structural Evolution of $\hat{\mu}$ -LiVOPO ₄ over Multiple Lithium Intercalation. Chemistry of Materials, 2016, 28, 1794-1805.	6.7	64
10	Stability of the M2 phase of vanadium dioxide induced by coherent epitaxial strain. Physical Review B, 2016, 94, .	3.2	62
11	Interfacial Effects in $\hat{\mu}$ -Li _x VOPO ₄ and Evolution of the Electronic Structure. Chemistry of Materials, 2015, 27, 8211-8219.	6.7	37
12	Correlating Lithium Hydroxyl Accumulation with Capacity Retention in V ₂ O ₅ Aerogel Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 11532-11538.	8.0	33
13	Lone-Pair Stabilization in Transparent Amorphous Tin Oxides: A Potential Route to p-Type Conduction Pathways. Chemistry of Materials, 2016, 28, 4706-4713.	6.7	33
14	Simultaneous Structural and Electronic Transitions in Epitaxial VO_2		

#	ARTICLE	IF	CITATIONS
19	Reducing orbital occupancy in VO_2 suppresses Mott physics while Peierls distortions persist. <i>Physical Review B</i> , 2017, 96, .		
20	Electronic Structure of NaVO_5 (x = 0.33) Polycrystalline Films: Growth, Spectroscopy, and Theory. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1081-1094.	3.1	21
21	Uniform second Li ion intercalation in solid state $\mu\text{-LiVOPO}_4$. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	20
22	What Happens to LiMnPO_4 upon Chemical Delithiation?. <i>Inorganic Chemistry</i> , 2016, 55, 4335-4343.	4.0	17
23	Electron lone pair distortion facilitated metal-insulator transition in $\text{Pb}_0.33\text{V}_2\text{O}_5$ nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	15
24	Evidence of extreme type-III band offset at buried CdO/SnTe interfaces. <i>Physical Review B</i> , 2015, 91, .	3.2	7
25	Electrode Reaction Mechanism of $\text{Ag}_2\text{VO}_2\text{PO}_4$ Cathode. <i>Chemistry of Materials</i> , 2016, 28, 3428-3434.	6.7	6
26	Accurate band alignment at the amorphous $\text{Al}_2\text{O}_3/\text{p-Ge}(100)$ interface determined by hard x-ray photoelectron spectroscopy and density functional theory. <i>Physical Review Materials</i> , 2018, 2, .	2.4	3