

Alexander E Karkin

List of Publications by Year in descending order

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times ranked

507
citing authors

#	ARTICLE	IF	CITATIONS
1	A Room-Temperature Verwey-Type Transition in Iron Oxide, Fe ₅ O ₆ . <i>Angewandte Chemie</i> , 2020, 132, 5681-5685.	2.0	2
2	A Room-Temperature Verwey-Type Transition in Iron Oxide, Fe ₅ O ₆ . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5632-5636.	13.8	17
3	Charge-ordering transition in iron oxide Fe ₄ O ₅ involving competing dimer and trimer formation. <i>Nature Chemistry</i> , 2016, 8, 501-508.	13.6	54
4	Unconventional Electronic Properties of Mg ₂ Si Thermoelectrics Revealed by Fast-Neutron-Irradiation Doping. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9692-9701.	3.1	3
5	Electronic transport properties of $M_{2}As_{2}$ ($M = Ca, Eu, Sr$) at ambient and high pressures up to 20 GPa. <i>Superconductor Science and Technology</i> , 2015, 28, 125010.	3.5	10
6	Significant enhancement of thermoelectric properties and metallization of Al-doped Mg ₂ Si under pressure. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	34
7	Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable n Electrical Conduction (<i>Adv. Mater.</i> 48/2014). <i>Advanced Materials</i> , 2014, 26, 8184-8184.	21.0	1
8	A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable n Electrical Conduction. <i>Advanced Materials</i> , 2014, 26, 8185-8191.	21.0	44
9	Bulk Silicon Crystals with the High Boron Content, Si _{1-x} B _x : Two Semiconductors Form an Unusual Metal. <i>Chemistry of Materials</i> , 2014, 26, 5274-5281.	6.7	15
10	High-pressure behavior of structural, optical, and electronic transport properties of the golden Th ₂ S ₃ -type Ti ₂ O ₃ . <i>Physical Review B</i> , 2013, 88, .	3.2	24
11	New Antiferromagnetic Perovskite CaCo ₃ V ₄ O ₁₂ Prepared at High-Pressure and High-Temperature Conditions. <i>Inorganic Chemistry</i> , 2013, 52, 11703-11710.	4.0	34
12	High-pressure study of the thermoelectric properties of various oxides (ZnO,) http://www.w3.org/1998/Math/MathML compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 741-745.	1.5	3
13	http://www.w3.org/1998/Math/MathML $Fe_{2}O_{3}$ http://www.w3.org/1998/Math/MathML $Nanostructuring, in situ, for electronic transport$	3.2	17
14	Pressure-temperature phase diagram of Ti ₂ O ₃ and physical properties in the golden Th ₂ S ₃ -type phase. <i>Physical Review B</i> , 2012, 86, .	3.2	22
15	Pressure cycling of InN to 20 GPa: In situ transport properties and amorphization. <i>Applied Physics Letters</i> , 2010, 97, 032105.	3.3	14
16	Structural stability of a golden semiconducting orthorhombic polymorph of Ti ₂ O ₃ under high pressures and high temperatures. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 375402.	1.8	37
17	Galvanomagnetic properties of fast neutron bombarded Fe ₃ O ₄ magnetite: A case against charge ordering mechanism of the Verwey transition. <i>Solid State Communications</i> , 2009, 149, 759-762.	1.9	18