

Alexander E Karkin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7402986/publications.pdf>

Version: 2024-02-01

17
papers

349
citations

759233

12
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

507
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-ordering transition in iron oxide Fe ₄ O ₅ involving competing dimer and trimer formation. Nature Chemistry, 2016, 8, 501-508.	13.6	54
2	A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable μ n Electrical Conduction. Advanced Materials, 2014, 26, 8185-8191.	21.0	44
3	Structural stability of a golden semiconducting orthorhombic polymorph of Ti ₂ O ₃ under high pressures and high temperatures. Journal of Physics Condensed Matter, 2010, 22, 375402.	1.8	37
4	New Antiferromagnetic Perovskite CaCo ₃ V ₄ O ₁₂ Prepared at High-Pressure and High-Temperature Conditions. Inorganic Chemistry, 2013, 52, 11703-11710.	4.0	34
5	Significant enhancement of thermoelectric properties and metallization of Al-doped Mg ₂ Si under pressure. Journal of Applied Physics, 2014, 115, .	2.5	34
6	High-pressure behavior of structural, optical, and electronic transport properties of the golden Th ₂ S ₃ -type Ti ₂ O ₃ . Physical Review B, 2013, 88, .	3.2	24
7	Pressure-temperature phase diagram of Ti ₂ O ₃ and physical properties in the golden Th ₂ S ₃ -type phase. Physical Review B, 2012, 86, .	3.2	22
8	Galvanomagnetic properties of fast neutron bombarded Fe ₃ O ₄ magnetite: A case against charge ordering mechanism of the Verwey transition. Solid State Communications, 2009, 149, 759-762.	1.9	18
9	Fe_2O_3 : Nanostructuring, <i>in situ</i> electronic transport properties. Applied Physics Letters, 2010, 97, 032105.	3.2	17
10	A Room-Temperature Verwey-type Transition in Iron Oxide, Fe ₅ O ₆ . Angewandte Chemie - International Edition, 2020, 59, 5632-5636.	13.8	17
11	Bulk Silicon Crystals with the High Boron Content, Si _{1-x} B _x : Two Semiconductors Form an Unusual Metal. Chemistry of Materials, 2014, 26, 5274-5281.	6.7	15
12	Pressure cycling of InN to 20 GPa: In situ transport properties and amorphization. Applied Physics Letters, 2010, 97, 032105.	3.3	14
13	Electronic transport properties of <i>M</i> Fe ₂ As ₂ (<i>M</i> = Ca, Eu, Sr) at ambient and high pressures up to 20 GPa. Superconductor Science and Technology, 2015, 28, 125010.	3.5	10
14	High-pressure study of the thermoelectric properties of various oxides (ZnO, Ti ₂ O ₃) compounds. Physica Status Solidi (B): Basic Research, 2013, 250, 741-745.	1.5	3
15	Unconventional Electronic Properties of Mg ₂ Si Thermoelectrics Revealed by Fast-Neutron-Irradiation Doping. Journal of Physical Chemistry C, 2016, 120, 9692-9701.	3.1	3
16	A Room-Temperature Verwey-type Transition in Iron Oxide, Fe ₅ O ₆ . Angewandte Chemie, 2020, 132, 5681-5685.	2.0	2
17	Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable μ n Electrical Conduction (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8184-8184.	21.0	1