

Valeriy Verchenko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6223929/publications.pdf>

Version: 2024-02-01

40
papers

562
citations

758635

12
h-index

676716

22
g-index

40
all docs

40
docs citations

40
times ranked

784
citing authors

#	ARTICLE	IF	CITATIONS
1	Intricate magnetic behavior of Fe ₆ Ge ₅ and its origin within a complex iron framework: The magnetic and 57Fe Mössbauer study. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163759.	2.8	2
2	Semiconducting and Metallic Compounds within the IrIn ₃ Structure Type: Stability and Chemical Bonding. <i>Inorganic Chemistry</i> , 2022, 61, 3274-3280.	1.9	4
3	Intermetallic Compound Re ₂ Ga ₉ Ge with Re- and Ge-Embedded Gallium Clusters: Synthesis, Crystal Structure, Chemical Bonding, and Physical Properties. <i>Inorganic Chemistry</i> , 2022, 61, 568-578.	1.9	3
4	Ferromagnetic correlations in the layered van der Waals sulfide FeAl ₂ S ₄ . <i>Dalton Transactions</i> , 2022, 51, 8454-8460.	1.6	1
5	Fe-Rich Ferromagnetic Cleavable Van der Waals Telluride Fe ₅ AsTe ₂ . <i>Inorganic Chemistry</i> , 2022, 61, 9224-9230.	1.9	3
6	Magnetic structures of Fe ₃₂ Ir ₃ Ge ₃₃ As ₂ and Fe ₃₂ Ir ₂ Ge ₃₅ As _x P _x intermetallic compounds: a neutron diffraction and 57Fe Mössbauer spectroscopy study. <i>Dalton Transactions</i> , 2021, 50, 2210-2220.	1.6	2
7	Semiconducting and superconducting Mo ₄ Ga frameworks: total energy and chemical bonding. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1702-1709.	3.0	5
8	One or two gaps in Mo ₈ Ga ₄₁ superconductor? Local Hall-probe magnetometry study. <i>Superconductor Science and Technology</i> , 2021, 34, 035017.	1.8	4
9	Endohedral cluster intermetallic superconductors: at the frontier between chemistry and physics. <i>Dalton Transactions</i> , 2021, 50, 5109-5114.	1.6	9
10	Mo ₆ Ga ₃₁ endohedral cluster superconductor. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156400.	2.8	11
11	Atomic Layer Deposition of Superconducting CuO Thin Films on Three-Dimensional Substrates. <i>Crystals</i> , 2020, 10, 650.	1.0	11
12	Electron-Precise Semiconducting ReGa ₂ Ge: Extending the IrIn ₃ Structure Type to Group 7 of the Periodic Table. <i>Inorganic Chemistry</i> , 2020, 59, 12748-12757.	1.9	9
13	Family of Mo ₄ Ga ₂₁ -Based Superconductors. <i>Chemistry of Materials</i> , 2020, 32, 6730-6735.	3.2	11
14	Synthesis, extended and local crystal structure, and thermoelectric properties of Fe _{1-x} Re _x Ga ₃ solid solution. <i>Journal of Alloys and Compounds</i> , 2019, 804, 331-338.	2.8	4
15	Steigerung der Wasseroxidation durch In situ Elektrokonversion eines Mangangallids: Ein intermetallischer Vorläuferansatz. <i>Angewandte Chemie</i> , 2019, 131, 16722-16727.	1.6	13
16	Boosting Water Oxidation through In Situ Electroconversion of Manganese Gallide: An Intermetallic Precursor Approach. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16569-16574.	7.2	60
17	Endohedral Cluster Superconductors in the Mo ₄ Ga ₂₁ Sn System Explored by the Joint Flux Technique. <i>Inorganic Chemistry</i> , 2019, 58, 15552-15561.	1.9	13
18	NMR, magnetization, and heat capacity studies of the uniform spin-chain compound $\text{V}_{1-x}\text{Bi}_x\text{O}_3$. <i>Physical</i>		

#	ARTICLE	IF	CITATIONS
19	Single-gap superconductivity in Mo ₈ Ga ₄₁ . Scientific Reports, 2019, 9, 13552.	1.6	10
20	From endohedral cluster superconductors to approximant phases: synthesis, crystal and electronic structure, and physical properties of Mo ₈ Ga ₄₁ xZnx and Mo ₇ Ga ₅₂ xZnx. Dalton Transactions, 2019, 48, 7853-7861.	1.6	9
21	ReGaGe ₂ : an intermetallic compound with semiconducting properties and localized bonding. Chemical Communications, 2019, 55, 5821-5824.	2.2	5
22	ReGa _{0.4} Ge _{0.6} : Intermetallic Compound with Pronounced Covalency in the Bonding Pattern. Inorganic Chemistry, 2019, 58, 2822-2832.	1.9	3
23	Chemical pressure in the correlated narrow-gap semiconductor FeGa ₃ . Journal of Materials Science, 2019, 54, 2371-2378.	1.7	3
24	From Fe ₃₂ +Ge ₃₅ -P to Fe ₃₂ +Ge ₃₅ -P As : Fine geometry optimization in new intergrowth structures. Journal of Alloys and Compounds, 2019, 779, 229-236.	2.8	2
25	Crystal Growth of Intermetallics from the Joint Flux: Exploratory Synthesis through the Control of Valence Electron Count. Inorganic Chemistry, 2019, 58, 1561-1570.	1.9	13
26	Magnetism of coupled spin tetrahedra in ilinskite-type KCu ₅ O ₂ (SeO ₃) ₂ Cl ₃ . Scientific Reports, 2018, 8, 2379.	1.6	17
27	Antiferromagnetic ground state in the MnGa ₄ compound. Physical Review Materials, 2018, 2, .		
28	Thermally Activated Electron Exchange in Cu ₁₂ Fe ₁₃ Sb ₄ S ₁₃ ($x = 1.3, 1.5$) Tetrahedrites: A Mössbauer Study. Journal of Physical Chemistry C, 2017, 121, 4548-4557.	1.5	7
29	Two-gap superconductivity in Mo ₈ Ga ₄₁ and its evolution upon vanadium substitution. Physical Review B, 2017, 96, .	1.1	24
30	Crystal Growth of the Nowotny Chimney Ladder Phase Fe ₂ Ge ₃ : Exploring New Fe-Based Narrow-Gap Semiconductor with Promising Thermoelectric Performance. Chemistry of Materials, 2017, 29, 9954-9963.	3.2	27
31	Effect of Transition Metal Substitution on the Structure and Properties of a Clathrate-Like Compound Eu ₇ Cu ₄₄ As ₂₃ . Materials, 2016, 9, 587.	1.3	2
32	Nontrivial Recurrent Intergrowth Structure and Unusual Magnetic Behavior of Intermetallic Compound Fe ₃₂ +Ge ₃₃ As ₂ . Inorganic Chemistry, 2016, 55, 12953-12961.	1.9	5
33	Low-Temperature Structure and Thermoelectric Properties of Pristine Synthetic Tetrahedrite Cu ₁₂ Sb ₄ S ₁₃ . Chemistry of Materials, 2016, 28, 6621-6627.	3.2	41
34	Structural and Thermodynamic Stability of the ϵ-Structure Type: A Case Study of the EuFZnPn Series. Inorganic Chemistry, 2016, 55, 12409-12418.	1.9	13
35	New Fe-based layered telluride Fe ₃ As ₁ Te ₂ : synthesis, crystal structure and physical properties. Dalton Transactions, 2016, 45, 16938-16947.	1.6	10
36	Strong electron-phonon coupling in the intermetallic superconductor Mo ₈ Ge ₄₁ xZnx. Physical Review B, 2016, 93, .		

#	ARTICLE	IF	CITATIONS
37	Role of iron in synthetic tetrahedrites revisited. Journal of Solid State Chemistry, 2016, 235, 28-35.	1.4	16
38	Crystal growth, electronic structure, and properties of Ni-substituted FeGa. Journal of Solid State Chemistry, 2016, 236, 166-172.	1.4	12
39	Ferromagnetic Order, Strong Magnetocrystalline Anisotropy, and Magnetocaloric Effect in the Layered Telluride Fe_3GeTe_2 . Inorganic Chemistry, 2015, 54, 8598-8607.	1.9	93
40	Interplay between localized and itinerant magnetism in Co-substituted FeGa $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} / \rangle \langle \text{mml:mn} \rangle 3 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$. Physical Review B, 2014, 89, .	1.1	36