Valeriy Verchenko

List of Publications by Year
in descending order

40	562	759233 12	677142 22
papers	citations	h-index	g-index

40	40	40	784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ferromagnetic Order, Strong Magnetocrystalline Anisotropy, and Magnetocaloric Effect in the Layered Telluride Fe_{3â˜Î´}GeTe₂. Inorganic Chemistry, 2015, 54, 8598-8607.	4.0	93
2	Boosting Water Oxidation through In Situ Electroconversion of Manganese Gallide: An Intermetallic Precursor Approach. Angewandte Chemie - International Edition, 2019, 58, 16569-16574.	13.8	60
3	Low-Temperature Structure and Thermoelectric Properties of Pristine Synthetic Tetrahedrite Cu₁₂Sb₄S₁₃. Chemistry of Materials, 2016, 28, 6621-6627.	6.7	41
4	Interplay between localized and itinerant magnetism in Co-substituted FeGa<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	36
5	Strong electron-phonon coupling in the intermetallic superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math>Ga41. Physical Review B, 2016, 93, .	3.2	31
6	Crystal Growth of the Nowotny Chimney Ladder Phase Fe₂Ge₃: Exploring New Fe-Based Narrow-Gap Semiconductor with Promising Thermoelectric Performance. Chemistry of Materials, 2017, 29, 9954-9963.	6.7	27
7	Two-gap superconductivity inMo8Ga41and its evolution upon vanadium substitution. Physical Review B, 2017, 96, .	3.2	24
8	Magnetism of coupled spin tetrahedra in ilinskite-type KCu5O2(SeO3)2Cl3. Scientific Reports, 2018, 8, 2379.	3.3	17
9	Role of iron in synthetic tetrahedrites revisited. Journal of Solid State Chemistry, 2016, 235, 28-35.	2.9	16
10	Structural and Thermodynamic Stability of the â€œ1111â€•Structure Type: A Case Study of the EuFZnPn Series. Inorganic Chemistry, 2016, 55, 12409-12418.	4.0	13
11	Steigerung der Wasseroxidation durch Inâ€situâ€Elektrokonversion eines Mangangallids: Ein intermetallischer VorlÃuferansatz. Angewandte Chemie, 2019, 131, 16722-16727.	2.0	13
12	Endohedral Cluster Superconductors in the Moâ€“Gaâ€“Sn System Explored by the Joint Flux Technique. Inorganic Chemistry, 2019, 58, 15552-15561.	4.0	13
13	Crystal Growth of Intermetallics from the Joint Flux: Exploratory Synthesis through the Control of Valence Electron Count. Inorganic Chemistry, 2019, 58, 1561-1570.	4.0	13
14	Crystal growth, electronic structure, and properties of Ni-substituted FeGa. Journal of Solid State Chemistry, 2016, 236, 166-172.	2.9	12
15	Antiferromagnetic ground state in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MnGa</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> compound. Physical Review Materials, 2018, 2, .	2.4	12
16	Mo6Ga31 endohedral cluster superconductor. Journal of Alloys and Compounds, 2020, 848, 156400.	5.5	11
17	Atomic Layer Deposition of Superconducting CuO Thin Films on Three-Dimensional Substrates. Crystals, 2020, 10, 650.	2.2	11
18	Family of Mo4Ga21-Based Superconductors. Chemistry of Materials, 2020, 32, 6730-6735.	6.7	11

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19	New Fe-based layered telluride Fe_{3â^Î´}As_{1â^'y}Te₂: synthesis, crystal structure and physical properties. Dalton Transactions, 2016, 45, 16938-16947.	3.3	10
20	Single-gap superconductivity in Mo8Ga41. Scientific Reports, 2019, 9, 13552.	3.3	10
21	From endohedral cluster superconductors to approximant phases: synthesis, crystal and electronic structure, and physical properties of Mo₈Ga_{41â^'x}Zn_xand Mo₇Ga_{52â^'x}Zn_x. Dalton Transactions, 2019, 48, 7853-7861.	3.3	9
22	Electron-Precise Semiconducting ReGa₂Ge: Extending the IrIn₃ Structure Type to Group 7 of the Periodic Table. Inorganic Chemistry, 2020, 59, 12748-12757.	4.0	9
23	Endohedral cluster intermetallic superconductors: at the frontier between chemistry and physics. Dalton Transactions, 2021, 50, 5109-5114.	3.3	9
24	Thermally Activated Electron Exchange in Cu_{12â€“x}Fe_xSb₄S₁₃ (x = 1.3, 1.5) Tetrahedrites: A MÃ¶ssbauer Study. Journal of Physical Chemistry C, 2017, 121, 4548-4557.	3.1	7
25	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m chain compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>16</mml:mn></mml:msub></mml:mrow></mml:m. Physical	3.2	6
26	Nontrivial Recurrent Intergrowth Structure and Unusual Magnetic Behavior of Intermetallic Compound Fe32+Î´Ge33As2. Inorganic Chemistry, 2016, 55, 12953-12961.	4.0	5
27	ReGaGe₂: an intermetallic compound with semiconducting properties and localized bonding. Chemical Communications, 2019, 55, 5821-5824.	4.1	5
28	Semiconducting and superconducting Moâ€“Ga frameworks: total energy and chemical bonding. Inorganic Chemistry Frontiers, 2021, 8, 1702-1709.	6.0	5
29	Synthesis, extended and local crystal structure, and thermoelectric properties of Fe1-xRexGa3 solid solution. Journal of Alloys and Compounds, 2019, 804, 331-338.	5.5	4
30	One or two gaps in Mo₈Ga₄₁ superconductor? Local Hall-probe magnetometry study. Superconductor Science and Technology, 2021, 34, 035017.	3.5	4
31	Semiconducting and Metallic Compounds within the IrIn₃ Structure Type: Stability and Chemical Bonding. Inorganic Chemistry, 2022, 61, 3274-3280.	4.0	4
32	ReGa0.4Ge0.6: Intermetallic Compound with Pronounced Covalency in the Bonding Pattern. Inorganic Chemistry, 2019, 58, 2822-2832.	4.0	3
33	Chemical pressure in the correlated narrow-gap semiconductor FeGa3. Journal of Materials Science, 2019, 54, 2371-2378.	3.7	3
34	Intermetallic Compound Re₂Ga₉Ge with Re- and Ge-Embedded Gallium Clusters: Synthesis, Crystal Structure, Chemical Bonding, and Physical Properties. Inorganic Chemistry, 2022, 61, 568-578.	4.0	3
35	Fe-Rich Ferromagnetic Cleavable Van der Waals Telluride Fe₅AsTe₂. Inorganic Chemistry, 2022, 61, 9224-9230.	4.0	3
36	Effect of Transition Metal Substitution on the Structure and Properties of a Clathrate-Like Compound Eu7Cu44As23. Materials, 2016, 9, 587.	2.9	2

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37	From Fe32+Ge35-P to Fe32+Ge35–P As : Fine geometry optimization in new intergrowth structures. Journal of Alloys and Compounds, 2019, 779, 229-236.	5.5	2
38	Magnetic structures of Fe32+Î´Ge33As2 and Fe32+Î´â€²Ge35â^'xPx intermetallic compounds: a neutron diffraction and 57Fe MÃ¶ssbauer spectroscopy study. Dalton Transactions, 2021, 50, 2210-2220.	3.3	2
39	Intricate magnetic behavior of Fe6Ge5 and its origin within a complex iron framework: The magnetic and 57Fe MÃ¶ssbauer study. Journal of Alloys and Compounds, 2022, 902, 163759.	5.5	2
40	Ferromagnetic correlations in the layered van der Waals sulfide FeAl₂S₄. Dalton Transactions, 2022, 51, 8454-8460.	3.3	1