

# Valeriy Verchenko

## List of Publications by Year in descending order

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40  
papers

562  
citations

759233

12  
h-index

677142

22  
g-index

40  
all docs

40  
docs citations

40  
times ranked

784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intricate magnetic behavior of Fe <sub>6</sub> Ge <sub>5</sub> and its origin within a complex iron framework: The magnetic and 57Fe Mössbauer study. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163759.	5.5	2
2	Semiconducting and Metallic Compounds within the IrIn <sub>3</sub> Structure Type: Stability and Chemical Bonding. <i>Inorganic Chemistry</i> , 2022, 61, 3274-3280.	4.0	4
3	Intermetallic Compound Re <sub>2</sub> Ga <sub>9</sub> Ge with Re- and Ge-Embedded Gallium Clusters: Synthesis, Crystal Structure, Chemical Bonding, and Physical Properties. <i>Inorganic Chemistry</i> , 2022, 61, 568-578.	4.0	3
4	Ferromagnetic correlations in the layered van der Waals sulfide FeAl <sub>2</sub> S <sub>4</sub> . <i>Dalton Transactions</i> , 2022, 51, 8454-8460.	3.3	1
5	Fe-Rich Ferromagnetic Cleavable Van der Waals Telluride Fe <sub>5</sub> AsTe <sub>2</sub> . <i>Inorganic Chemistry</i> , 2022, 61, 9224-9230.	4.0	3
6	Magnetic structures of Fe <sub>32</sub> Ir <sub>3</sub> Ge <sub>33</sub> As <sub>2</sub> and Fe <sub>32</sub> Ir <sub>2</sub> Ge <sub>35</sub> As <sub>x</sub> P <sub>x</sub> intermetallic compounds: a neutron diffraction and 57Fe Mössbauer spectroscopy study. <i>Dalton Transactions</i> , 2021, 50, 2210-2220.	3.3	2
7	Semiconducting and superconducting Mo <sub>6</sub> Ga frameworks: total energy and chemical bonding. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1702-1709.	6.0	5
8	One or two gaps in Mo <sub>8</sub> Ga <sub>41</sub> superconductor? Local Hall-probe magnetometry study. <i>Superconductor Science and Technology</i> , 2021, 34, 035017.	3.5	4
9	Endohedral cluster intermetallic superconductors: at the frontier between chemistry and physics. <i>Dalton Transactions</i> , 2021, 50, 5109-5114.	3.3	9
10	Mo <sub>6</sub> Ga <sub>31</sub> endohedral cluster superconductor. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156400.	5.5	11
11	Atomic Layer Deposition of Superconducting CuO Thin Films on Three-Dimensional Substrates. <i>Crystals</i> , 2020, 10, 650.	2.2	11
12	Electron-Precise Semiconducting ReGa <sub>2</sub> Ge: Extending the IrIn <sub>3</sub> Structure Type to Group 7 of the Periodic Table. <i>Inorganic Chemistry</i> , 2020, 59, 12748-12757.	4.0	9
13	Family of Mo <sub>4</sub> Ga <sub>21</sub> -Based Superconductors. <i>Chemistry of Materials</i> , 2020, 32, 6730-6735.	6.7	11
14	Synthesis, extended and local crystal structure, and thermoelectric properties of Fe <sub>1-x</sub> Re <sub>x</sub> Ga <sub>3</sub> solid solution. <i>Journal of Alloys and Compounds</i> , 2019, 804, 331-338.	5.5	4
15	Steigerung der Wasseroxidation durch In situ Elektrokonversion eines Mangangallids: Ein intermetallischer Vorläuferansatz. <i>Angewandte Chemie</i> , 2019, 131, 16722-16727.	2.0	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.	13.8	60
17	Endohedral Cluster Superconductors in the Mo <sub>6</sub> Ga <sub>4</sub> Sn System Explored by the Joint Flux Technique. <i>Inorganic Chemistry</i> , 2019, 58, 15552-15561.	4.0	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>		

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19	Single-gap superconductivity in Mo <sub>8</sub> Ga <sub>41</sub> . Scientific Reports, 2019, 9, 13552.	3.3	10
20	From endohedral cluster superconductors to approximant phases: synthesis, crystal and electronic structure, and physical properties of Mo <sub>8</sub> Ga <sub>41</sub> xZnx and Mo <sub>7</sub> Ga <sub>52</sub> xZnx. Dalton Transactions, 2019, 48, 7853-7861.	3.3	9
21	ReGaGe <sub>2</sub> : an intermetallic compound with semiconducting properties and localized bonding. Chemical Communications, 2019, 55, 5821-5824.	4.1	5
22	ReGa <sub>0.4</sub> Ge <sub>0.6</sub> : Intermetallic Compound with Pronounced Covalency in the Bonding Pattern. Inorganic Chemistry, 2019, 58, 2822-2832.	4.0	3
23	Chemical pressure in the correlated narrow-gap semiconductor FeGa <sub>3</sub> . Journal of Materials Science, 2019, 54, 2371-2378.	3.7	3
24	From Fe <sub>32</sub> +Ge <sub>35</sub> -P to Fe <sub>32</sub> +Ge <sub>35</sub> -P As : Fine geometry optimization in new intergrowth structures. Journal of Alloys and Compounds, 2019, 779, 229-236.	5.5	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.	4.0	13
26	Magnetism of coupled spin tetrahedra in ilinskite-type KCu <sub>5</sub> O <sub>2</sub> (SeO <sub>3</sub> ) <sub>2</sub> Cl <sub>3</sub> . Scientific Reports, 2018, 8, 2379.	3.3	17
27	Antiferromagnetic ground state in the MnGa <sub>4</sub> compound. Physical Review Materials, 2018, 2, .		
28	Thermally Activated Electron Exchange in Cu <sub>12</sub> Fe <sub>13</sub> Sb <sub>4</sub> S <sub>13</sub> ( <i>x</i> = 1.3, 1.5) Tetrahedrites: A Mössbauer Study. Journal of Physical Chemistry C, 2017, 121, 4548-4557.	3.1	7
29	Two-gap superconductivity in Mo <sub>8</sub> Ga <sub>41</sub> and its evolution upon vanadium substitution. Physical Review B, 2017, 96, .	3.2	24
30	Crystal Growth of the Nowotny Chimney Ladder Phase Fe <sub>2</sub> Ge <sub>3</sub> : Exploring New Fe-Based Narrow-Gap Semiconductor with Promising Thermoelectric Performance. Chemistry of Materials, 2017, 29, 9954-9963.	6.7	27
31	Effect of Transition Metal Substitution on the Structure and Properties of a Clathrate-Like Compound Eu <sub>7</sub> Cu <sub>44</sub> As <sub>23</sub> . Materials, 2016, 9, 587.	2.9	2
32	Nontrivial Recurrent Intergrowth Structure and Unusual Magnetic Behavior of Intermetallic Compound Fe <sub>32</sub> +Ge <sub>33</sub> As <sub>2</sub> . Inorganic Chemistry, 2016, 55, 12953-12961.	4.0	5
33	Low-Temperature Structure and Thermoelectric Properties of Pristine Synthetic Tetrahedrite Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub> . Chemistry of Materials, 2016, 28, 6621-6627.	6.7	41
34	Structural and Thermodynamic Stability of the $\epsilon$ -Structure Type: A Case Study of the EuFZnPn Series. Inorganic Chemistry, 2016, 55, 12409-12418.	4.0	13
35	New Fe-based layered telluride Fe <sub>3</sub> As <sub>1</sub> Te <sub>2</sub> : synthesis, crystal structure and physical properties. Dalton Transactions, 2016, 45, 16938-16947.	3.3	10
36	Strong electron-phonon coupling in the intermetallic superconductor Mo <sub>8</sub> Ga <sub>41</sub> . Physical Review B, 2016, 93, .		

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37	Role of iron in synthetic tetrahedrites revisited. Journal of Solid State Chemistry, 2016, 235, 28-35.	2.9	16
38	Crystal growth, electronic structure, and properties of Ni-substituted FeGa. Journal of Solid State Chemistry, 2016, 236, 166-172.	2.9	12
39	Ferromagnetic Order, Strong Magnetocrystalline Anisotropy, and Magnetocaloric Effect in the Layered Telluride $\text{Fe}_3\text{GeTe}_2$ . Inorganic Chemistry, 2015, 54, 8598-8607.	4.0	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, .	3.2	36