

# 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	Ferromagnetic Order, Strong Magnetocrystalline Anisotropy, and Magnetocaloric Effect in the Layered Telluride $\text{Fe}_3\text{V}_2\text{Ge}_2\text{Te}_5$ . <i>Inorganic Chemistry</i> , 2015, 54, 8598-8607.	1.9	93
2	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
3	Low-Temperature Structure and Thermoelectric Properties of Pristine Synthetic Tetrahedrite $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$ . <i>Chemistry of Materials</i> , 2016, 28, 6621-6627.	3.2	41
4	Interplay between localized and itinerant magnetism in Co-substituted $\text{FeGa}_3$ . <i>Physical Review B</i> , 2014, 89, .	1.1	36
5	Strong electron-phonon coupling in the intermetallic superconductor $\text{Mo}_8\text{Ga}_4\text{V}_1$ . <i>Physical Review B</i> , 2016, 93, .		
6	Crystal Growth of the Nowotny Chimney Ladder Phase $\text{Fe}_2\text{Ge}_3$ : Exploring New Fe-Based Narrow-Gap Semiconductor with Promising Thermoelectric Performance. <i>Chemistry of Materials</i> , 2017, 29, 9954-9963.	3.2	27
7	Two-gap superconductivity in $\text{Mo}_8\text{Ga}_4\text{V}_1$ and its evolution upon vanadium substitution. <i>Physical Review B</i> , 2017, 96, .	1.1	24
8	Magnetism of coupled spin tetrahedra in ilinskite-type $\text{KCu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_3$ . <i>Scientific Reports</i> , 2018, 8, 2379.	1.6	17
9	Role of iron in synthetic tetrahedrites revisited. <i>Journal of Solid State Chemistry</i> , 2016, 235, 28-35.	1.4	16
10	Structural and Thermodynamic Stability of the $\alpha\text{-Fe}_3\text{V}_2\text{Ge}_2\text{Te}_5$ Structure Type: A Case Study of the $\text{EuFZnPn}$ Series. <i>Inorganic Chemistry</i> , 2016, 55, 12409-12418.	1.9	13
11	Steigerung der Wasseroxidation durch In situ Elektrokonversion eines Mangangallids: Ein intermetallischer Vorläuferansatz. <i>Angewandte Chemie</i> , 2019, 131, 16722-16727.	1.6	13
12	Endohedral Cluster Superconductors in the $\text{Mo}_6\text{Ga}_3\text{Sn}$ System Explored by the Joint Flux Technique. <i>Inorganic Chemistry</i> , 2019, 58, 15552-15561.	1.9	13
13	Crystal Growth of Intermetallics from the Joint Flux: Exploratory Synthesis through the Control of Valence Electron Count. <i>Inorganic Chemistry</i> , 2019, 58, 1561-1570.	1.9	13
14	Crystal growth, electronic structure, and properties of Ni-substituted $\text{FeGa}_3$ . <i>Journal of Solid State Chemistry</i> , 2016, 236, 166-172.	1.4	12
15	Antiferromagnetic ground state in the $\text{MnGa}_4$ compound. <i>Physical Review Materials</i> , 2018, 2, .		
16	$\text{Mo}_6\text{Ga}_3\text{Sn}$ endohedral cluster superconductor. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156400.	2.8	11
17	Atomic Layer Deposition of Superconducting $\text{CuO}$ Thin Films on Three-Dimensional Substrates. <i>Crystals</i> , 2020, 10, 650.	1.0	11
18	Family of $\text{Mo}_4\text{Ga}_2\text{Sn}$ -Based Superconductors. <i>Chemistry of Materials</i> , 2020, 32, 6730-6735.	3.2	11

#	ARTICLE	IF	CITATIONS
19	New Fe-based layered telluride $\text{Fe}_3\text{As}_1\text{Te}_2$ : synthesis, crystal structure and physical properties. Dalton Transactions, 2016, 45, 16938-16947.	1.6	10
20	Single-gap superconductivity in $\text{Mo}_8\text{Ga}_4$ . Scientific Reports, 2019, 9, 13552.	1.6	10
21	From endohedral cluster superconductors to approximant phases: synthesis, crystal and electronic structure, and physical properties of $\text{Mo}_8\text{Ga}_4\text{Zn}_x$ and $\text{Mo}_7\text{Ga}_5\text{Zn}_x$ . Dalton Transactions, 2019, 48, 7853-7861.	1.6	9
22	Electron-Precise Semiconducting $\text{ReGa}_2\text{Ge}$ : Extending the $\text{IrIn}_3$ Structure Type to Group 7 of the Periodic Table. Inorganic Chemistry, 2020, 59, 12748-12757.	1.9	9
23	Endohedral cluster intermetallic superconductors: at the frontier between chemistry and physics. Dalton Transactions, 2021, 50, 5109-5114.	1.6	9
24	Thermally Activated Electron Exchange in $\text{Cu}_{12}\text{Fe}_8\text{Sb}_4\text{S}_{13}$ ( $x = 1.3, 1.5$ ) Tetrahedrites: A Mössbauer Study. Journal of Physical Chemistry C, 2017, 121, 4548-4557.	1.5	7
25	chain compound $\text{Bi}_6\text{O}_{16}$ . Physical	1.1	6
26	Nontrivial Recurrent Intergrowth Structure and Unusual Magnetic Behavior of Intermetallic Compound $\text{Fe}_{32}\text{IrGe}_{33}\text{As}_2$ . Inorganic Chemistry, 2016, 55, 12953-12961.	1.9	5
27	$\text{ReGaGe}_2$ : an intermetallic compound with semiconducting properties and localized bonding. Chemical Communications, 2019, 55, 5821-5824.	2.2	5
28	Semiconducting and superconducting $\text{MoGa}$ frameworks: total energy and chemical bonding. Inorganic Chemistry Frontiers, 2021, 8, 1702-1709.	3.0	5
29	Synthesis, extended and local crystal structure, and thermoelectric properties of $\text{Fe}_{1-x}\text{Re}_x\text{Ga}_3$ solid solution. Journal of Alloys and Compounds, 2019, 804, 331-338.	2.8	4
30	One or two gaps in $\text{Mo}_8\text{Ga}_4$ superconductor? Local Hall-probe magnetometry study. Superconductor Science and Technology, 2021, 34, 035017.	1.8	4
31	Semiconducting and Metallic Compounds within the $\text{IrIn}_3$ Structure Type: Stability and Chemical Bonding. Inorganic Chemistry, 2022, 61, 3274-3280.	1.9	4
32	$\text{ReGa}_0.4\text{Ge}_0.6$ : Intermetallic Compound with Pronounced Covalency in the Bonding Pattern. Inorganic Chemistry, 2019, 58, 2822-2832.	1.9	3
33	Chemical pressure in the correlated narrow-gap semiconductor $\text{FeGa}_3$ . Journal of Materials Science, 2019, 54, 2371-2378.	1.7	3
34	Intermetallic Compound $\text{Re}_2\text{Ga}_9\text{Ge}$ with Re- and Ge-Embedded Gallium Clusters: Synthesis, Crystal Structure, Chemical Bonding, and Physical Properties. Inorganic Chemistry, 2022, 61, 568-578.	1.9	3
35	Fe-Rich Ferromagnetic Cleavable Van der Waals Telluride $\text{Fe}_5\text{AsTe}_2$ . Inorganic Chemistry, 2022, 61, 9224-9230.	1.9	3
36	Effect of Transition Metal Substitution on the Structure and Properties of a Clathrate-Like Compound $\text{Eu}_7\text{Cu}_{44}\text{As}_{23}$ . Materials, 2016, 9, 587.	1.3	2

#	ARTICLE	IF	CITATIONS
37	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.	2.8	2
38	Magnetic structures of Fe <sub>32</sub> +Ge <sub>33</sub> As <sub>2</sub> and Fe <sub>32</sub> +Ge <sub>35</sub> -P <sub>x</sub> intermetallic compounds: a neutron diffraction and <sup>57</sup> Fe Mössbauer spectroscopy study. Dalton Transactions, 2021, 50, 2210-2220.	1.6	2
39	Intricate magnetic behavior of Fe <sub>6</sub> Ge <sub>5</sub> and its origin within a complex iron framework: The magnetic and <sup>57</sup> Fe Mössbauer study. Journal of Alloys and Compounds, 2022, 902, 163759.	2.8	2
40	Ferromagnetic correlations in the layered van der Waals sulfide FeAl <sub>2</sub> S <sub>4</sub> . Dalton Transactions, 2022, 51, 8454-8460.	1.6	1