Andrei Shevelkov

List of Publications by Year
in descending order

101	1,892	257450 24	289244 40
papers	citations	h-index	g-index

102	102	102	2234
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Synthesis and characterization of amantadinium iodoacetatobismuthate, a hybrid compound with mixed iodideâ€“carboxylate anions. Mendeleev Communications, 2022, 32, 194-197.	1.6	1
3	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
4	Ferromagnetic correlations in the layered van der Waals sulfide FeAl₂S₄. Dalton Transactions, 2022, 51, 8454-8460.	3.3	1
5	Fe-Rich Ferromagnetic Cleavable Van der Waals Telluride Fe₅AsTe₂. Inorganic Chemistry, 2022, 61, 9224-9230.	4.0	3
6	Synthesis and supramolecular organization of the iodide and triiodides of a polycyclic adamantane-based diammonium cation: the effects of hydrogen bonds and weak Iâ‹¯I interactions. CrystEngComm, 2021, 23, 2384-2395.	2.6	11
7	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
8	Intermetallic Fe₆Ge₅ formation and decay of a coreâ€“shell structure during the oxygen evolution reaction. Chemical Communications, 2021, 57, 2184-2187.	4.1	25
9	Supramolecular organization of the organic-inorganic hybrid [{p-(CH3)2NHâ€”C6H4â€”NH3}2Cl][BiI6]: assembly of a three-dimensional structure via covalent and non-covalent interactions. Russian Chemical Bulletin, 2021, 70, 39-46.	1.5	7
10	Semiconducting and superconducting Moâ€“Ga frameworks: total energy and chemical bonding. Inorganic Chemistry Frontiers, 2021, 8, 1702-1709.	6.0	5
11	Solid-Phase Equilibria in the Cu-Sb-S System and Thermodynamic Properties of Copper-Antimony Sulfides. Jom, 2021, 73, 1522-1530.	1.9	4
12	Formation and Destruction of Platinum Carbonyl [Pt(CO)2]n. Russian Journal of Inorganic Chemistry, 2021, 66, 348-353.	1.3	2
13	Temperature-dependent influence of disorder on the thermodynamic properties of Sn20.5â–¡3.5As20I8, a vacancy-driven superstructure of the type-I clathrate. Philosophical Magazine, 2021, 101, 2092-2107.	1.6	0
14	Molecular and Supramolecular Structures of Triiodides and Polyiodobismuthates of Phenylenediammonium and Its N,N-dimethyl Derivative. Molecules, 2021, 26, 5712.	3.8	7
15	Endohedral cluster intermetallic superconductors: at the frontier between chemistry and physics. Dalton Transactions, 2021, 50, 5109-5114.	3.3	9
16	Reversal Topotactic Removal of Acetone from (HMTH)2BiI5Â·(CH3)2Câ•O Accompanied by Rearrangement of Weak Bonds, from 1D to 3D Patterns. Crystal Growth and Design, 2020, 20, 87-94.	3.0	11
17	The specific features of phononic and magnetic subsystems of type-VII clathrate EuNi₂P₄. Physical Chemistry Chemical Physics, 2020, 22, 18025-18034.	2.8	0
18	Indium Doping of Lead-Free Perovskite Cs2SnI6. Frontiers in Chemistry, 2020, 8, 564.	3.6	12

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19	Nowotny Chimney Ladder Phases with Group 5 Metals: Crystal and Electronic Structure and Relations to the CrSi2 Structure Type. Crystals, 2020, 10, 670.	2.2	3
20	Mo6Ga31 endohedral cluster superconductor. Journal of Alloys and Compounds, 2020, 848, 156400.	5.5	11
21	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
22	Synthesis, electronic structure and physical properties of two new layered compounds, EuFAgSe and EuFAg_{1â˜'Î´}Te, featuring the active redox pair Eu²⁺/Ag⁺. Dalton Transactions, 2020, 49, 7426-7435.	3.3	2
23	Assembling Polyiodides and Iodobismuthates Using a Template Effect of a Cyclic Diammonium Cation and Formation of a Low-Gap Hybrid Iodobismuthate with High Thermal Stability. Molecules, 2020, 25, 2765.	3.8	31
24	Family of Mo4Ga21-Based Superconductors. Chemistry of Materials, 2020, 32, 6730-6735.	6.7	11
25	EuNi₂P₄, the first magnetic unconventional clathrate preparedviaa mechanochemically assisted route. Inorganic Chemistry Frontiers, 2020, 7, 1115-1126.	6.0	8
26	Crystal lattice disorder and characteristic features of the low-temperature thermal properties of higher borides. Dalton Transactions, 2020, 49, 2138-2144.	3.3	3
27	Intermetallic compounds with non-metallic properties. Russian Chemical Bulletin, 2020, 69, 2231-2255.	1.5	9
28	Soft chemistry of pure silver as unique plasmonic metal of the Periodic Table of Elements. Pure and Applied Chemistry, 2020, 92, 1007-1028.	1.9	2
29	Crystal structure and two-level supramolecular organization of glycinium triiodide. Russian Chemical Bulletin, 2019, 68, 1520-1524.	1.5	17
30	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
31	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
32	Endohedral Cluster Superconductors in the Moâ€“Gaâ€“Sn System Explored by the Joint Flux Technique. Inorganic Chemistry, 2019, 58, 15552-15561.	4.0	13
33	Single-gap superconductivity in Mo8Ga41. Scientific Reports, 2019, 9, 13552.	3.3	10
34	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
35	ReGaGe₂: an intermetallic compound with semiconducting properties and localized bonding. Chemical Communications, 2019, 55, 5821-5824.	4.1	5
36	Silver-chalcogen frameworks: crystal and electronic structure of [Ag3S](NO3) and a comparison with [Ag4Te](SO4). Structural Chemistry, 2019, 30, 443-450.	2.0	3

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37	ReGa0.4Ge0.6: Intermetallic Compound with Pronounced Covalency in the Bonding Pattern. Inorganic Chemistry, 2019, 58, 2822-2832.	4.0	3
38	Layered Compounds BaFMgPn (Pn = P, As, Sb, and Bi), Transition-Metal-Free Representatives of the 1111 Structure Type. Inorganic Chemistry, 2019, 58, 3435-3443.	4.0	8
39	Synthesis, crystal and electronic structures of Pt-rich phosphides EuPt₃P and EuPt₆P₂. Dalton Transactions, 2019, 48, 15272-15282.	3.3	3
40	Chemical pressure in the correlated narrow-gap semiconductor FeGa3. Journal of Materials Science, 2019, 54, 2371-2378.	3.7	3
41	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
42	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
43	When two is enough: On the origin of diverse crystal structures and physical properties in the Fe-Ge system. Journal of Solid State Chemistry, 2019, 270, 118-128.	2.9	8
44	Position and oxidation state of tin in Sn-bearing tetrahedrites Cu12-xSnxSb4S13. Journal of Alloys and Compounds, 2019, 778, 774-778.	5.5	8
45	New clathrate-like compound Eu7Cu44Sb23-Î´: synthesis, crystal and electronic structure, and the effect of As-for-Sb substitution on the magnetic properties. Intermetallics, 2018, 98, 1-10.	3.9	2
46	Metal-inorganic frameworks with pnictogen linkers. Russian Chemical Reviews, 2018, 87, 28-48.	6.5	14
47	Role of I₂ Molecules and Weak Interactions in Supramolecular Assembling of Pseudo-Three-Dimensional Hybrid Bismuth Polyiodides: Synthesis, Structure, and Optical Properties of Phenylenediammonium Polyiodobismuthate(III). Crystal Growth and Design, 2018, 18, 2572-2578.	3.0	68
48	From Isolated Anions to Polymer Structures through Linking with I₂: Synthesis, Structure, and Properties of Two Complex Bismuth(III) Iodine Iodides. Inorganic Chemistry, 2018, 57, 4077-4087.	4.0	68
49	Synthesis, structure, and properties of Schiff base iodobismuthate and its alteration in DMSO solution. Russian Chemical Bulletin, 2018, 67, 1212-1219.	1.5	7
50	Effect of the cation sublattice composition of tin-based type-I clathrates on their low-temperature thermal properties. Dalton Transactions, 2018, 47, 11219-11225.	3.3	7
51	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>n compound. Physical Review Materials, 2018, 2, .	2.4	12
52	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
53	A new formation strategy of hybrid perovskites via room temperature reactive polyiodide melts. Materials Horizons, 2017, 4, 625-632.	12.2	57
54	New Insight into the Formation of Hybrid Perovskite Nanowires via Structure Directing Adducts. Chemistry of Materials, 2017, 29, 587-594.	6.7	68

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55	Two-gap superconductivity inMo8Ga41and its evolution upon vanadium substitution. Physical Review B, 2017, 96, .	3.2	24
56	Synthesis, structure, and properties of LnBiI6â€¢13H2O (Ln = La, Nd). Russian Chemical Bulletin, 2017, 66, 1196-1201.	1.5	17
57	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
58	Phase diagrams in materials science of topological insulators based on metal chalcogenides. Russian Journal of Inorganic Chemistry, 2017, 62, 1703-1729.	1.3	51
59	Effect of Transition Metal Substitution on the Structure and Properties of a Clathrate-Like Compound Eu7Cu44As23. Materials, 2016, 9, 587.	2.9	2
60	Nontrivial Recurrent Intergrowth Structure and Unusual Magnetic Behavior of Intermetallic Compound Fe32+Î´Ge33As2. Inorganic Chemistry, 2016, 55, 12953-12961.	4.0	5
61	Helical magnetic structure and hyperfine interactions in FeP studied by 57Fe MÃ¶ssbauer spectroscopy and 31P NMR. Journal of Alloys and Compounds, 2016, 675, 277-285.	5.5	17
62	Iodobismuthates Containing One-Dimensional BiI₄^{â€“} Anions as Prospective Light-Harvesting Materials: Synthesis, Crystal and Electronic Structure, and Optical Properties. Inorganic Chemistry, 2016, 55, 4132-4140.	4.0	81
63	Low-Temperature Structure and Thermoelectric Properties of Pristine Synthetic Tetrahedrite Cu₁₂Sb₄S₁₃. Chemistry of Materials, 2016, 28, 6621-6627.	6.7	41
64	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
65	New Fe-based layered telluride Fe_{3âˆ’Î´}As_{1âˆ’y}Te₂: synthesis, crystal structure and physical properties. Dalton Transactions, 2016, 45, 16938-16947.	3.3	10
66	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>3</mml:mn></mml:msub><mml:mi>Al</mml:mi><mml:mn></mml:mn></mml:mrow></mml:math>2. Physical Review B, 2016, 93, .	3.8	31
67	Role of iron in synthetic tetrahedrites revisited. Journal of Solid State Chemistry, 2016, 235, 28-35.	2.9	16
68	Crystal growth, electronic structure, and properties of Ni-substituted FeGa. Journal of Solid State Chemistry, 2016, 236, 166-172.	2.9	12
69	Crystal growth and electronic phase diagram of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>d</mml:mi><mml:mtext>â€“</mml:mtext><mml:msub><mml:mi>Na</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Ni</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2015, 91, .	3.2	18
70	Ferromagnetic Order, Strong Magnetocrystalline Anisotropy, and Magnetocaloric Effect in the Layered Telluride Fe_{3âˆ’Î´}GeTe₂. Inorganic Chemistry, 2015, 54, 8598-8607.	4.0	93
71	Experimental and Computational Insight into the Chemical Bonding and Electronic Structure of Clathrate Compounds in the Snâ€“Inâ€“Asâ€“I System. Inorganic Chemistry, 2015, 54, 11542-11549.	4.0	2
72	Sb Magnetic Resonance as a Local Probe for the Gap Formation in the Correlated Semimetal FeSb2. Applied Magnetic Resonance, 2014, 45, 1237-1252.	1.2	8

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73	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
74	Two New Arsenides, Eu₇Cu₄₄As₂₃ and Sr₇Cu₄₄As₂₃, With a New Filled Variety of the BaHg₁₁ Structure. Inorganic Chemistry, 2014, 53, 11173-11184.	4.0	14
75	Experimental investigation of the Agâ€“Biâ€“I ternary system and thermodynamic properties of the ternary phases. Journal of Alloys and Compounds, 2013, 551, 512-520.	5.5	50
76	Synthesis and clathrate-type crystal structure of a solid solution in the Sn-In-P-Br system. Russian Chemical Bulletin, 2012, 61, 28-32.	1.5	2
77	Crystal structures and physicochemical properties of mixed salts of ammonium nitrate and sulfate. Russian Chemical Bulletin, 2012, 61, 33-39.	1.5	4
78	On the crystal structure of the germanium-based cationic clathrates [Ge38.3Sb7.7]I7.44, [Ge38.1P7.9]I8, and [Ge30.5Sn7.7P7.75]I7.88. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2012, 38, 192-199.	1.0	4
79	Introducing a Magnetic Guest to a Tetrel-Free Clathrate: Synthesis, Structure, and Properties of Eu_xBa_{8â€“x}Cu₁₆P₃₀ (0 â‰¤ x â‰¤ 1.5). Inorganic Chemistry, 2011, 50, 10387-10396.	4.0	53
80	Anomalously low thermal conductivity and thermoelectric properties of new cationic clathrates in the Sn-In-As-I system. Semiconductors, 2011, 45, 1399-1403.	0.5	10
81	Synthesis, Crystal Structure, and Thermoelectric Properties of Clathrates in the Snâ€“Inâ€“Asâ€“I System. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2059-2067.	1.2	9
82	Inside Cover: Bulk and Surface Structure and Highâ€Temperature Thermoelectric Properties of Inverse Clathrateâ€II in the Siâ€Pâ€Te System (Chem. Eur. J. 42/2010). Chemistry - A European Journal, 2010, 16, 12494-12494.	3.3	0
83	Distribution of phosphorus and arsenic atoms in the solid solution Sn24As x P19.3-x I8 with the structure of clathrate-I. Russian Chemical Bulletin, 2009, 58, 746-750.	1.5	1
84	Low-Temperature Transport Properties of Sn24P19.3Br8 and Sn17Zn7P22Br8. Journal of Electronic Materials, 2009, 38, 985-989.	2.2	4
85	Chemical aspects of the design of thermoelectric materials. Russian Chemical Reviews, 2008, 77, 1-19.	6.5	116
86	Highly Disordered Crystal Structure and Thermoelectric Properties of Sn₃P₄. Chemistry of Materials, 2008, 20, 2476-2483.	6.7	48
87	Effects of the orderâ€“disorder phase transition on the physical properties of A8Sn44â–¡2 (A = Rb, Cs). Journal of Materials Chemistry, 2008, 18, 5630.	6.7	46
88	Synthesis and crystal structure of new double mercury silver phosphide iodide Hg12Ag41P88I41. Russian Chemical Bulletin, 2007, 56, 1948-1952.	1.5	5
89	Synthesis and the crystal and electronic structure of Hg4AsI5. Russian Chemical Bulletin, 2006, 55, 762-765.	1.5	1
90	Solid State Supramolecular Complexes [Hg6As4](CuX3)2 (XÂ=ÂCl, Br): One-Dimensional Helical Guest in a Three-Dimensional Host Framework. Journal of Cluster Science, 2005, 16, 273-285.	3.3	4

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91	Semiconducting clathrates: synthesis, structure and properties. Russian Chemical Reviews, 2004, 73, 923-938.	6.5	162
92	Title is missing!. Russian Chemical Bulletin, 2003, 52, 570-575.	1.5	4
93	Title is missing!. Russian Chemical Bulletin, 2002, 51, 444-448.	1.5	10
94	Homo- and hetero-metallic rhenium oxomethoxide complexes with a M4(Âµ-O)2(Âµ-OMe)4 planar coreâ€"a new family of metal alkoxides displaying a peculiar structural disorder. Preparation and X-ray single crystal study. Dalton Transactions RSC, 2001, , 2762-2768.	2.3	38
95	Unique Metallic Wires in a Novel Quasi-1D Compound. Synthesis, Crystal and Electronic Structure, and Properties of Ni8Bi8Sl. Journal of the American Chemical Society, 2001, 123, 12375-12379.	13.7	39
96	New polymolecular bismuth monohalides. Synthesis and crystal structures of Bi4BrxI4â€"x (x = 1, 2, or) Tj ETQq0 0 0 rgBT /Overlock 10	1.5	21
97	Mercury and cadmium pnictidehalides: the inverted Zintl phases. Russian Chemical Bulletin, 2001, 50, 337-352.	1.5	25
98	The crystal structure of Bi14I4 condensed bismuth clusters. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1992, 612, 118-122.	1.2	32
99	Thermoelectric Power Generation by Clathrates. , 0, , .		3
100	Pattern of covalent and nonâ€covalent interactions within the pentaiodide anion in the structure of (3â€HOC ₅ H ₉ NH ₂)I ₅. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	1.2	3
101	Transport Properties of Sn24 P19.3 Br8 Sn17 Zn7 P22 Br8. Ceramic Engineering and Science Proceedings, 0, , 77-84.	0.1	0