

Alexander A Tsirlin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Kitaev Magnetism through the Prism of Lithium Iridate. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, 2100146.	0.7	14
2	Optical detection of the density-wave instability in the kagome metal KV ₃ Sb ₅ . <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	57
3	Role of Sb in the superconducting kagome metal CsV ₃ Sb ₅ revealed by its anisotropic compression. <i>SciPost Physics</i> , 2022, 12, .	1.5	29
4	Nematic state of the FeSe superconductor. <i>Physical Review B</i> , 2022, 105, .	1.1	3
5	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
6	Composition dependent polymorphism and superconductivity in Y ₃ Rh ₄ Ge ₁₃ . <i>Dalton Transactions</i> , 2022, 51, 4734-4748.	1.6	3
7	Pressure-induced dimerization and collapse of antiferromagnetism in the Kitaev material IrIn_3 . <i>Physical Review B</i> , 2022, 105, .	1.1	3
8	Optical study of RbVCl_3 : Multiple density-wave gaps and phonon anomalies. <i>Physical Review B</i> , 2022, 105, .	1.3	15
9	Acoustic phonon dispersion of RuCl_3 . <i>Physical Review B</i> , 2022, 106, .	1.1	7
10	Hybrid electrons in the trimerized GaV ₄ O ₈ . <i>Materials Horizons</i> , 2021, 8, 2325-2329.	6.4	3
11	Magnetic structures of Fe ₃₂ Ir ₃ Ge ₃₃ As ₂ and Fe ₃₂ Ir ₃ Ge ₃₅ As ₂ xPx intermetallic compounds: a neutron diffraction and ⁵⁷ Fe Mössbauer spectroscopy study. <i>Dalton Transactions</i> , 2021, 50, 2210-2220.	1.6	2
12	Semiconducting and superconducting Mo ₆ Ga frameworks: total energy and chemical bonding. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1702-1709.	3.0	5
13	Quasi-one-dimensional magnetism in the spin- $\frac{1}{2}$ antiferromagnet $\text{BaNa}_2\text{Ru}_2\text{O}_7$. <i>Physical Review B</i> , 2021, 103, .	1.1	12
14	Spectroscopic trace of the Lifshitz transition and multivalley activation in thermoelectric SnSe under high pressure. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	8
15	Angle-dependent thermodynamics of RuCl_3 . <i>Physical Review B</i> , 2021, 103, .	1.1	12
16	Experimental determination of the magnetic interactions of frustrated Cairo pentagon lattice materials. <i>Physical Review B</i> , 2021, 103, .	1.1	1
17	Towards cubic symmetry for Ir_4O_{13} : Structure and magnetism of the antiferromagnetic Ir_4O_{13} . <i>Physical Review B</i> , 2021, 103, .	1.1	13
18	Magnetic order and multipoles in the rhenium double perovskite YBa_2ReO_6 . <i>Physica</i>	1.2	1

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19	Low-dimensional magnetism of BaCuTe2O6. Physical Review B, 2021, 103, .	1.1	9
20	Frustrated magnet for adiabatic demagnetization cooling to milli-Kelvin temperatures. Communications Materials, 2021, 2, .	2.9	34
21	Cooperative Cluster Jahn-Teller Effect as a Possible Route to Antiferroelectricity. Physical Review Letters, 2021, 126, 187601.	2.9	12
22	Low-energy optical properties of the nonmagnetic kagome metal CsV_3Sb_5 . Physical Review B, 2021, 104, .	1.1	12
23	Structural Stability and Properties of Marokite-Type Mn_3O_4 . Inorganic Chemistry, 2021, 60, 13440-13452.	1.9	4
24	$\text{Li}_3\text{Mg}_2\text{N}$: A magnetically ordered metallic nitride. Physical Review Materials, 2021, 5, .	0.9	0
25	Synthesis of Ilmenite-type Mn_2O_3 and Its Properties. Inorganic Chemistry, 2021, 60, 13348-13358.	1.9	4
26	Universal fluctuating regime in triangular chromate antiferromagnets. Physical Review B, 2021, 104, .	1.1	11
27	$\text{Mo}_3\text{Si}_3\text{O}_{11}$: A d^1 spin liquid candidate. Physical Review B, 2021, 104, .	1.1	3
28	Interplay of magnetism and dimerization in the pressurized Kitaev material $\text{Li}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2021, 104, .	1.1	11
29	Antiferromagnetic resonance in the cubic iridium hexahalides Ir_2X_6 and $\text{Ir}_2\text{X}_6\text{NH}_4$. Physical Review B, 2021, 104, .	1.1	5
30	From ($S = 1$) Spin Hexamer to Spin Tetradecamer by CuO Interstitials in $\text{A}_2\text{Cu}_3\text{O}(\text{CuO})_3(\text{SO}_4)_3$ ($A = \text{alkali}$). Inorganic Chemistry, 2021, 60, 18185-18191.	1.9	5
31	Quantum magnetism of ferromagnetic spin dimers in KVOPo_4 . Physical Review B, 2021, 104, .	1.1	5
32	A Room-Temperature Verwey-Type Transition in Iron Oxide, Fe_5O_6 . Angewandte Chemie, 2020, 132, 5681-5685.	1.6	2
33	A Room-Temperature Verwey-Type Transition in Iron Oxide, Fe_5O_6 . Angewandte Chemie - International Edition, 2020, 59, 5632-5636.	7.2	17
34	Field evolution of the spin-liquid candidate $\text{YbMg}_2\text{Ga}_4\text{O}_{12}$. Physical Review B, 2020, 102, .	1.1	9
35	Range paths for octahedrally and tetrahedrally coordinated Mn^{2+} ions in the honeycomb multiferroic Mn_2O_7 . Physical Review B, 2020, 102, .	1.1	9
36	Crystal structure, phase transition and properties of indium (In) sulfide. Dalton Transactions, 2020, 49, 15903-15913.	1.6	10

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37	Mo ₆ Ga ₃₁ endohedral cluster superconductor. Journal of Alloys and Compounds, 2020, 848, 156400.	2.8	11
38	Thermodynamic Perspective on Field-Induced Behavior of RuCl_2 Physical Review Letters, 2020, 125, 097203.	2.9	42
39	Structure, phonons, and orbital degrees of freedom in FeO Physical Review B, 2020, 102, .	1.1	23
40	Magnetic hexamers interacting in layers in the (Na,K)2Cu3O(SO4)3 minerals. Physical Review B, 2020, 102, .	1.1	11
41	Optical signatures of phase transitions and structural modulation in elemental tellurium under pressure. Physical Review B, 2020, 101, .	1.1	3
42	$\text{Li}_2(\text{Se}_2\text{O}_5)(\text{H}_2\text{O})_{1.5}\cdot\text{CuCl}_2$, a salt-inclusion diselenite structurally based on tetranuclear Li_4 complexes. Dalton Transactions, 2020, 49, 7790-7795.	1.6	7
43	Two types of alternating spin-chains and their field-induced transitions in Eu_2O_3 Physical Review B, 2020, 101, .	1.1	7
44	Synthesis, electronic structure and physical properties of two new layered compounds, EuFgSe and EuFgTe , featuring the active redox pair $\text{Eu}^{2+}/\text{Ag}^{+}$. Dalton Transactions, 2020, 49, 7426-7435.	1.6	2
45	SrCu_2 under pressure: A first-principles study. Physical Review B, 2020, 101, .		
46	Field evolution of low-energy excitations in the hyperhoneycomb magnet Li_2IrO_4 Physical Review B, 2020, 101, .	1.1	11
47	Spin liquids in geometrically perfect triangular antiferromagnets. Journal of Physics Condensed Matter, 2020, 32, 224004.	0.7	34
48	Two Linear Regimes in Optical Conductivity of a Type-I Weyl Semimetal: The Case of Elemental Tellurium. Physical Review Letters, 2020, 124, 136402.	2.9	17
49	Family of Mo ₄ Ga ₂₁ -Based Superconductors. Chemistry of Materials, 2020, 32, 6730-6735.	3.2	11
50	Partial Up-Up-Down Order with the Continuously Distributed Order Parameter in the Triangular Antiferromagnet TmMgGaO Physical Review X, 2020, 10, .	2.8	22
51	Innentitelbild: A Room-Temperature Verwey-type Transition in Iron Oxide, Fe_5O_6 (Angew. Chem. 14/2020). Angewandte Chemie, 2020, 132, 5450-5450.	1.6	0
52	EuNi_2P_4 , the first magnetic unconventional clathrate prepared via a mechanochemically assisted route. Inorganic Chemistry Frontiers, 2020, 7, 1115-1126.	3.0	8
53	$\text{Cu}_9\text{O}_2(\text{VO}_4)_4\text{Cl}_2$, the First Copper Oxychloride Vanadate: Mineralogically Inspired Synthesis and Magnetic Behavior. Inorganic Chemistry Frontiers, 2020, 7, 1115-1126.	1.9	17
54	Soft and anisotropic local moments in Cu_5O mixed-valence Cu_5O Physical Review B, 2020, 101, .	1.1	11

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55	Magnetic frustration in a metallic fcc lattice. Physical Review Research, 2020, 2, .	1.3	9
56	Persistent spin dynamics in the pressurized spin-liquid candidate YbMgGaO ₄ . Physical Review Research, 2020, 2, .	1.3	11
57	Realizing square and diamond lattice Heisenberg antiferromagnet models in the $S=1$ and $S=2$ phases of the coordination framework. Physical Review Materials, 2020, 4	0.9	6
58	Zigzag spin chains in the spin-5/2 antiferromagnet Ba ₂ Mn(PO ₄) ₂ . Inorganic Chemistry Frontiers, 2019, 6, 2736-2746.	3.0	7
59	Hydrotriphylites Li _{1-x} Fe _{1+x} (PO ₄) _{1-y} (OH) _{2y} as Cathode Materials for Li-ion Batteries. Chemistry of Materials, 2019, 31, 5035-5046.	1.1	13
60	Optical signature of the pressure-induced dimerization in the honeycomb iridate Li_2IrO_3 . Physical Review B, 2019, 99, .	1.1	11
61	Endohedral Cluster Superconductors in the MoGaSn System Explored by the Joint Flux Technique. Inorganic Chemistry, 2019, 58, 15552-15561.	1.9	13
62	Pressure-induced formation of rhodium zigzag chains in the honeycomb rhodate Li ₂ RhO ₃ . Physical Review B, 2019, 100, .	1.1	11
63	Gapless spin-liquid state in the structurally disorder-free triangular antiferromagnet NaYbO_2 . Physical Review B, 2019, 100, .	1.1	13
64	Bose-Einstein condensation of triplons close to the quantum critical point in the quasi-one-dimensional spin-1/2 antiferromagnet NaVOPO_4 . Physical Review B, 2019, 100, .	1.1	13
65	Singlet ground state in the alternating spin-1/2 chain compound NaVOAsO ₄ . Physical Review B, 2019, 99, .	1.1	11
66	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
67	Triplon Bose-Einstein condensation in the triangular-lattice compound NaYbO_2 . Physical Review B, 2019, 100, .	1.1	86
68	Cubic symmetry and magnetic frustration on the fcc spin lattice in K_2IrCl_6 . Physical Review B, 2019, 99, .	1.1	25
69	Thermodynamic evidence of fractionalized excitations in RuCl_2 . Physical Review B, 2019, 99, .	1.1	52
70	Rearrangement of Uncorrelated Valence Bonds Evidenced by Low-Energy Spin Excitations in YbMgGaO ₄ . Physical Review Letters, 2019, 122, 137201.	2.9	34
71	Field-induced double dome and Bose-Einstein condensation in the crossing quantum spin chain system AgVOAsO_4 . Physical Review B, 2019, 100, .	1.1	14
72	Synthesis, crystal and electronic structures of Pt-rich phosphides EuPt ₃ P and EuPt ₆ P ₂ . Dalton Transactions, 2019, 48, 15272-15282.	1.6	3

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73	Origin of up-up-down-down magnetic order in Cu_2O . Physical Review B, 2019, 100, .	2.1	10
74	Large easy-axis anisotropy in the one-dimensional magnet BaMo_2O_7 . Physical Review B, 2019, 100, .	1.9	10
75	Crystal Structures and Low-Dimensional Ferromagnetism of Sodium Nickel Phosphates $\text{Na}_5\text{Ni}_2(\text{PO}_4)_3 \cdot \text{H}_2\text{O}$ and $\text{Na}_6\text{Ni}_2(\text{PO}_4)_3\text{OH}$. Inorganic Chemistry, 2019, 58, 610-621.	1.9	4
76	Chemical pressure in the correlated narrow-gap semiconductor FeGa_3 . Journal of Materials Science, 2019, 54, 2371-2378.	1.7	3
77	From $\text{Fe}_{32}+\text{Ge}_{35}\text{-P}$ to $\text{Fe}_{32}+\text{Ge}_{35}\text{-P As}$: Fine geometry optimization in new intergrowth structures. Journal of Alloys and Compounds, 2019, 779, 229-236.	2.8	2
78	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
79	Strongly canted antiferromagnetic ground state in $\text{Cu}_3(\text{OH})_2\text{F}_4$. Journal of Alloys and Compounds, 2019, 776, 16-21.	2.8	3
80	Anisotropic temperature-field phase diagram of single crystalline Li_2O : Magnetization, specific heat, and Li_2O . Physical Review Materials, 2019, 3, .	0.9	17
81	High-pressure synthesis and properties of iron oxides. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e253-e253.	0.0	0
82	Structure-magnetic property correlations in metal-formate frameworks at high pressure. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e301-e301.	0.0	0
83	New clathrate-like compound $\text{Eu}_7\text{Cu}_{44}\text{Sb}_{23}\text{-I}$: synthesis, crystal and electronic structure, and the effect of As-for-Sb substitution on the magnetic properties. Intermetallics, 2018, 98, 1-10.	1.8	2
84	Competition between spin-orbit coupling, magnetism, and dimerization in the honeycomb iridates: Li_2O under pressure. Physical Review B, 2018, 97, .	1.1	61
85	Magnetism of coupled spin tetrahedra in ilinskite-type $\text{KCu}_5\text{O}_2(\text{SeO}_3)_2\text{Cl}_3$. Scientific Reports, 2018, 8, 2379.	1.6	17
86	Synthesis, crystal structure and physical properties of europium manganese fluoride pnictides, EuMnPnF (Pn = P, As, Sb). Journal of Solid State Chemistry, 2018, 258, 682-690.	1.4	9
87	Electrochemical behavior of LiV_3O_8 positive electrode in hybrid Li,Na-ion batteries. Journal of Power Sources, 2018, 373, 1-10.	4.0	15
88	Irreversible Made Reversible: Increasing the Electrochemical Capacity by Understanding the Structural Transformations of $\text{Na}_{0.5}\text{Co}_{0.5}\text{Ti}_{0.5}\text{O}_2$. ACS Applied Materials & Interfaces, 2018, 10, 36108-36119.	4.0	10
89	Pressure tuning of charge ordering in iron oxide. Nature Communications, 2018, 9, 4142.	5.8	22
90	Stripe order and magnetic anisotropy in the antiferromagnet BaMo_2O_7 . Physical Review B, 2018, 98, .	1.1	7

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91	Unraveling the complex magnetic structure of multiferroic pyroxene $\text{NaFeGe}_2\text{O}_6$: A combined experimental and theoretical study. Physical Review B, 2018, 98, .	1.1	10
92	Frustration of square cupola in SrTiO_3 . Physical Review B, 2018, 97, .	1.1	10
93	Gapped ground state in the zigzag pseudospin-1/2 quantum antiferromagnetic chain compound PrTiNbO_6 . Physical Review B, 2018, 97, .	1.1	11
94	Spin-induced multiferroicity in the binary perovskite manganite Mn_2O_3 . Nature Communications, 2018, 9, 2996.	5.8	38
95	Magneto-orbital texture in the perovskite modification of Mn_2O_3 . Physical Review B, 2018, 98, .	1.1	7
96	Magnetic resonance as a local probe for kagomé magnetism in Barlowite $\text{Cu}_4(\text{OH})_6\text{FBr}$. Scientific Reports, 2018, 8, 10851.	1.6	17
97	Compressibility of BiCu_2PO_6 : Polymorphism against $S = 1/2$ Magnetic Spin Ladders. Inorganic Chemistry, 2018, 57, 6038-6044.	1.9	7
98	Pressure dependence of spin canting in ammonium metal formate antiferromagnets. Physical Chemistry Chemical Physics, 2018, 20, 24465-24476.	1.3	7
99	Breakdown of Magnetic Order in the Pressurized Kitaev Iridate Li_2IrO_4 . Physical Review Letters, 2018, 120, 237202.	2.9	57
100	Antiferromagnetic ground state in the compound $\text{MnGa}_4\text{O}_{12}$. Physical Review Materials, 2018, 2, 031101.	1.0	10
101	Crystal structure and spin-trimer magnetism of BiCu_3O_7 . Physical Review B, 2017, 95, .	1.0	10
102	Crystal structure and spin-trimer magnetism of $\text{Rb}_{2.3}(\text{H}_{2.3}\text{O})_{0.8}\text{Mn}_3[\text{B}_4\text{P}_6\text{O}_{24}(\text{OH})_4]$. Dalton Transactions, 2017, 46, 2957-2965.	1.0	10
103	Crystalline Electric-Field Randomness in the Triangular Lattice Spin-Liquid YbMgGaO_4 . Physical Review Letters, 2017, 118, 107202.	2.9	129
104	Structural and Magnetic Transitions in $\text{CaCo}_3\text{V}_4\text{O}_{12}$ Perovskite at Extreme Conditions. Inorganic Chemistry, 2017, 56, 6251-6263.	1.9	12
105	Nearest-neighbour resonating valence bonds in YbMgGaO_4 . Nature Communications, 2017, 8, 15814.	5.8	52
106	Frustrated spin chain physics near the Majumdar-Ghosh point in szenicsite Cu_3O_4 . Physical Review B, 2017, 95, .	1.1	10
107	Composition-dependent charge transfer and phase separation in the $\text{V}_{1-x}\text{Re}_x\text{O}_2$ solid solution. Dalton Transactions, 2017, 46, 1606-1617.	1.6	3
108	Stripe order on the spin-1 stacked honeycomb lattice in BaNi_2O_7 . Physical Review B, 2017, 95, .	1.1	10

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109	Two-gap superconductivity in $\text{Mo}_8\text{Ga}_4\text{I}$ and its evolution upon vanadium substitution. <i>Physical Review B</i> , 2017, 96, .	1.1	24
110	Models and materials for generalized Kitaev magnetism. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 493002.	0.7	384
111	Spin-reorientation transitions in the Cairo pentagonal magnet $\text{Bi}_4\text{Fe}_5\text{O}_{13}\text{F}$. <i>Physical Review B</i> , 2017, 96, .	1.1	15
112	Correction: Composition-dependent charge transfer and phase separation in the $\text{V}_1\text{xRe}_x\text{O}_2$ solid solution. <i>Dalton Transactions</i> , 2017, 46, 16711-16711.	1.6	0
113	Pressure-Induced Ferromagnetism due to an Anisotropic Electronic Topological Transition in Fe_2O_3 . <i>Physical Review Letters</i> , 2017, 119, 227003.	2.9	7
114	High-pressure versus isoelectronic doping effect on the honeycomb iridate $\text{Na}_2\text{Ir}_2\text{O}_7$. <i>Physical Review B</i> , 2017, 96, .	1.2	27
115	Crystal Growth of the Nowotny Chimney Ladder Phase Fe_2Ge_3 : Exploring New Fe-Based Narrow-Gap Semiconductor with Promising Thermoelectric Performance. <i>Chemistry of Materials</i> , 2017, 29, 9954-9963.	3.2	27
116	Persistent low-temperature spin dynamics in the mixed-valence iridate $\text{Ba}_3\text{Ir}_2\text{O}_9$. <i>Physical Review B</i> , 2017, 96, .	1.1	24
117	Alternating spin chain compound AgVOAsO_4 probed by ^{75}As NMR. <i>Physical Review B</i> , 2017, 96, .	1.1	10
118	Structure-property relationships in multiferroic metal formate frameworks under pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1421-C1421.	0.0	0
119	Effect of Transition Metal Substitution on the Structure and Properties of a Clathrate-Like Compound $\text{Eu}_7\text{Cu}_4\text{As}_{23}$. <i>Materials</i> , 2016, 9, 587.	1.3	2
120	Interplay of magnetic sublattices in langite $\text{Cu}_4(\text{OH})_6\text{SO}_4 \cdot 2\text{H}_2\text{O}$. <i>New Journal of Physics</i> , 2016, 18, 033020.	1.2	7
121	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO_2 upon Li Extraction and Insertion. <i>Inorganic Chemistry</i> , 2016, 55, 7079-7089.	1.9	20
122	Valence fluctuations of europium in the boride $\text{Eu}_4\text{Pd}_{29}\text{B}_8$. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 115601.	0.7	3
123	Nontrivial Recurrent Intergrowth Structure and Unusual Magnetic Behavior of Intermetallic Compound $\text{Fe}_{32}\text{IrGe}_{33}\text{As}_2$. <i>Inorganic Chemistry</i> , 2016, 55, 12953-12961.	1.9	5
124	Tuning the high-temperature properties of Pr_2NiO_4 by simultaneous Pr- and Ni-cation replacement. <i>RSC Advances</i> , 2016, 6, 33951-33958.	1.7	8
125	Charge-ordering transition in iron oxide Fe_4O_5 involving competing dimer and trimer formation. <i>Nature Chemistry</i> , 2016, 8, 501-508.	6.6	54
126	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

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127	Commensurate and incommensurate magnetic order in spin-1 chains stacked on the triangular lattice in Li_2O_8 . <i>Physical Review B</i> , 2016, 94, .	2.1	63
128	Role of iron in synthetic tetrahedrites revisited. <i>Journal of Solid State Chemistry</i> , 2016, 242, 62-69.	1.4	5
129	Magnetic anisotropy in the frustrated spin-chain compound Li_2O_8 . <i>Physical Review B</i> , 2016, 94, .	2.1	63
130	Muon Spin Relaxation Evidence for the U(1) Quantum Spin-Liquid Ground State in the Triangular Antiferromagnet YbMgGaO . <i>Physical Review Letters</i> , 2016, 117, 097201.	2.9	138
131	Hybridization and spin-orbit coupling effects in the quasi-one-dimensional spin-1/2 magnet $\text{Ba}_3\text{Cu}_3\text{Sb}_4\text{O}_{12}$. <i>Physical Review B</i> , 2016, 94, .	1.1	10
132	Structural and Thermodynamic Stability of the CaF_2 -Structure Type: A Case Study of the EuZnPn Series. <i>Inorganic Chemistry</i> , 2016, 55, 12409-12418.	1.9	13
133	New Fe-based layered telluride $\text{Fe}_3\text{As}_2\text{Te}_2$: synthesis, crystal structure and physical properties. <i>Dalton Transactions</i> , 2016, 45, 16938-16947.	1.6	10
134	Effect of Co and Ni substitution on the two magnetostructural phase transitions in $\text{Fe}_{1.12}\text{O}$. <i>Physical Review B</i> , 2016, 93, .	1.1	7
135	Strong electron-phonon coupling in the intermetallic superconductor Mo_3Sb_7 . <i>Physical Review B</i> , 2016, 93, .	1.1	7
136	1/3 magnetization plateau and frustrated ferrimagnetism in a sodium iron phosphite. <i>Physical Review B</i> , 2016, 93, .	1.1	7
137	Hydration-induced spin-glass state in a frustrated Na-Mn-O triangular lattice. <i>Physical Review B</i> , 2016, 93, .	1.1	11
138	First-principles study of the magnetic ground state and magnetization process of the kagome francisites Cu_3Bi . <i>Physical Review B</i> , 2016, 94, .	1.1	23
139	Antisite Disorder and Bond Valence Compensation in $\text{Li}_2\text{FePO}_4\text{F}$ Cathode for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 7578-7581.	3.2	20
140	Ternary borides $\text{Nb}_7\text{Fe}_3\text{B}_8$ and $\text{Ta}_7\text{Fe}_3\text{B}_8$ with Kagome-type iron framework. <i>Dalton Transactions</i> , 2016, 45, 9590-9600.	1.6	10
141	Role of iron in synthetic tetrahedrites revisited. <i>Journal of Solid State Chemistry</i> , 2016, 235, 28-35.	1.4	16
142	Synthesis, structure and magnetic ordering of the mullite-type $\text{Bi}_2\text{Fe}_4\text{Cr}_9\text{O}_{29}$ solid solutions with a frustrated pentagonal Cairo lattice. <i>Dalton Transactions</i> , 2016, 45, 1192-1200.	1.6	11
143	$\text{Bi}_3\text{Ti}_7\text{Fe}_3\text{O}_{29}$ Homologous Series: Slicing Perovskite Structure with Planar Interfaces Containing Anatase-like Chains. <i>Inorganic Chemistry</i> , 2016, 55, 1245-1257.	1.9	7
144	Crystal growth, electronic structure, and properties of Ni-substituted FeGa . <i>Journal of Solid State Chemistry</i> , 2016, 236, 166-172.	1.4	12

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145	Anisotropic χ in the multiple magnetic transitions in the spin-frustrated three-dimensional antiferromagnet Ru_2O_7 . Physical Review B, 2015, 92, .	1.1	169
146	Antiferromagnetism in the layered perovskite $\text{SrCu}_2\text{Te}_2\text{O}_{10}$. Physical Review B, 2015, 92, .	1.1	34
147	Physical Review B, 2015, 92, .		
148	Covalency effects reflected in the magnetic form factor of low-dimensional cuprates. Physical Review B, 2015, 92, .	1.1	10
149	Trapping of Oxygen Vacancies at Crystallographic Shear Planes in Acceptor-Doped Pb-Based Ferroelectrics. Angewandte Chemie - International Edition, 2015, 54, 14787-14790.	7.2	7
150	One-dimensional quantum magnetism in the anhydrous alum $\text{KTi}(\text{SO}_4)_2$. New Journal of Physics, 2015, 17, 113035.	1.2	12
151	Lithium Insertion into Li_2MoO_4 : Reversible Formation of $(\text{Li}_3\text{Mo})\text{O}_4$ with a Disordered Rock-Salt Structure. Chemistry of Materials, 2015, 27, 4485-4492.	3.2	27
152	Collinear order in the frustrated three-dimensional spin χ Li_2O_8 . Physical Review B, 2015, 92, .	2.1	9
153	{110}-Layered B-cation ordering in the anion-deficient perovskite $\text{Pb}_{2.4}\text{Ba}_{2.6}\text{Fe}_2\text{Sc}_2\text{TiO}_{13}$ with the crystallographic shear structure. Dalton Transactions, 2015, 44, 10753-10762.	1.6	2
154	An unusual high-spin ground state of Co^{3+} in octahedral coordination in brownmillerite-type cobalt oxide. Dalton Transactions, 2015, 44, 10708-10713.	1.6	46
155	Frustration and Dzyaloshinsky-Moriya anisotropy in the Kagome $\text{Cu}_3\text{Bi}_2\text{O}_{10}$. Physical Review B, 2015, 91, .	1.1	46
156	Intermetallic germanides with non-centrosymmetric structures derived from the $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$ type. Dalton Transactions, 2015, 44, 5638-5651.	1.6	17
157	Quasi-two-dimensional $S=1/2$ magnetism of $\text{Cu}[\text{C}_6\text{H}_2(\text{COO})_4][\text{C}_2\text{H}_5\text{NH}_3]_2$. Physical Review B, 2015, 91, .	1.1	23
158	Layered Oxychlorides $[\text{PbBiO}_2]_A\text{BnO}_3\text{nCl}_2$ ($A = \text{Pb/Bi}$, $B = \text{Fe/Ti}$): Intergrowth of the Hematophanite and Sillen Phases. Chemistry of Materials, 2015, 27, 2946-2956.	3.2	15
159	Ferromagnetic Order, Strong Magnetocrystalline Anisotropy, and Magnetocaloric Effect in the Layered Telluride Fe_3GeTe_2 . Inorganic Chemistry, 2015, 54, 8598-8607.	1.9	93
160	Antiferromagnetism of Zn_2Ti the dilution with Ti . Physical Review B, 2015, 91, .	1.1	20
161	Copper(II) perhenate $\text{Cu}(\text{C}_3\text{H}_7\text{OH})_2(\text{ReO}_4)_2$: Synthesis from isopropanol and CuReO_4 , structure and properties. Journal of Solid State Chemistry, 2015, 232, 264-269.	1.4	0
162	Magnetic pyroxenes LiCr_2O_6 and LiCrSi_2 . Physical Review B, 2015, 91, .	1.7	17

#	ARTICLE	IF	CITATIONS
163	Hindered magnetic order from mixed dimensionalities in CuP . Physical Review B, 2014, 89, .	11.1	15
164	Nearly compensated exchange in the dimer compound callaghanite $\text{Cu}_2\text{Mg}_2(\text{CO}_3)(\text{OH})_6 \cdot 2\text{H}_2\text{O}$. Physical Review B, 2014, 89, .	1.1	15
165	Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable π Electrical Conduction (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8184-8184.	11.1	1
166	Structural and thermodynamic properties of $\text{Fe}_{1.12}\text{Te}$ with multiple phase transitions. Journal of Applied Physics, 2014, 115, .	1.1	9
167	Importance of tetrahedral coordination for high-valent transition-metal oxides: YCrO_4 as a model system. Physical Review B, 2014, 90, .	1.1	9
168	Nanoscale phase separation in perovskites revisited. Nature Materials, 2014, 13, 216-217.	13.3	10
169	Multiple Twinning As a Structure Directing Mechanism in Layered Rock-Salt-Type Oxides: NaMnO_2 Polymorphism, Redox Potentials, and Magnetism. Chemistry of Materials, 2014, 26, 3306-3315.	3.2	56
170	Novel non-magnetic hard boride Co_5B_{16} synthesized under high pressure. Journal of Alloys and Compounds, 2014, 608, 69-72.	2.8	17
171	Interplay between localized and itinerant magnetism in Co-substituted $\text{FeGa}_{1-x}\text{Co}_x$. Physical Review B, 2014, 89, .	1.1	36
172	Spin-chain magnetism and uniform Dzyaloshinsky-Moriya anisotropy in BaVO_3 . Physical Review B, 2014, 89, .	1.1	19
173	The quantum nature of skyrmions and half-skyrmions in Cu_2OSeO_3 . Nature Communications, 2014, 5, 5376.	5.8	108
174	Nonfrustrated Interlayer Order and its Relevance to the Bose-Einstein Condensation of Magnons in $\text{BaCuSi}_2\text{O}_7$. Physical Review Letters, 2014, 112, 107202.	11.1	44
175	Oxygen-driven competition between low-dimensional structures of Sr_3CoMO_6 and Sr_3CoMO_7 with $M = \text{Ru, Ir}$. Dalton Transactions, 2014, 43, 13883.	1.6	10
176	A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable π Electrical Conduction. Advanced Materials, 2014, 26, 8185-8191.	11.1	44
177	Peierls distortion, magnetism, and high hardness of manganese tetraboride. Physical Review B, 2014, 89, .	1.1	53
178	Large Noncollinearity and Spin Reorientation in the Novel Mn_2Bi . Physical Review Letters, 2014, 113, 087203.	2.9	112
179	Two New Arsenides, $\text{Eu}_7\text{Cu}_{44}\text{As}_{23}$ and $\text{Sr}_7\text{Cu}_{44}\text{As}_{23}$, With a New Filled Variety of the BaHg_{11} Structure. Inorganic Chemistry, 2014, 53, 11173-11184.	1.9	14
180	Magnetic transitions in the spin-magnet BiMn_2 strong lattice softening in BiMn_2 . Physical Review B, 2014, 90, .	1.1	33

#	ARTICLE	IF	CITATIONS
181	Reply to Comment on "Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated $\text{Li}_3\text{Nd}_2/3\text{TlO}_3$ Perovskites". Chemistry of Materials, 2014, 26, 1288-1288.	3.2	2
182	Low-Temperature High-Resolution Solid-State (cryoMAS) NMR of Han Purple $\text{BaCuSi}_2\text{O}_6$. Applied Magnetic Resonance, 2014, 45, 1253-1260.	0.6	7
183	Structure, Magnetism, and Valence States of Cobalt and Platinum in Quasi-One-Dimensional Oxides A_3CoPtO_6 with A = Ca, Sr. Journal of Physical Chemistry C, 2014, 118, 5463-5469.	1.5	9
184	Cation Ordering and Flexibility of the BO_4^{2-} Tetrahedra in Incommensurately Modulated $\text{CaEu}_2(\text{BO}_4)_4$ (B = Mo, W) Scheelites. Inorganic Chemistry, 2014, 53, 9407-9415.	1.9	49
185	Crystal structures and variable magnetism of $\text{PbCu}_2(\text{XO}_3)_2\text{Cl}_2$ with X = Se, Te. Dalton Transactions, 2013, 42, 9547.	1.6	33
186	Effect of Lone-Electron-Pair Cations on the Orientation of Crystallographic Shear Planes in Anion-Deficient Perovskites. Inorganic Chemistry, 2013, 52, 10009-10020.	1.9	15
187	Discovery of a Superhard Iron Tetraboride Superconductor. Physical Review Letters, 2013, 111, 157002. Structure and magnetism of $\text{Cr}_2\text{B}_4\text{O}_{14}$	2.9	192
188	Structure and magnetism of $\text{Cr}_2\text{B}_4\text{O}_{14}$	1.1	15
189	Structural Changes in the LiCrMnO_4 Cathode Material during Electrochemical Li Extraction and Insertion. Journal of the Electrochemical Society, 2013, 160, A3082-A3089.	1.3	16
190	Low-temperature phase diagram of Fe_2Te studied using x-ray diffraction. Physical Review B, 2013, 88, .	1.1	61
191	New Antiferromagnetic Perovskite $\text{CaCo}_3\text{V}_4\text{O}_{12}$ Prepared at High-Pressure and High-Temperature Conditions. Inorganic Chemistry, 2013, 52, 11703-11710.	1.9	34
192	Structural and Magnetic Phase Transitions in the $\text{Pb}_2\text{Ba}_2\text{BiFe}_5\text{O}_{13}$ and $\text{Pb}_{1.5}\text{Ba}_{2.5}\text{Bi}_2\text{Fe}_6\text{O}_{16}$. Inorganic Chemistry, 2013, 52, 7834-7843.	1.9	10
193	Homologous Series of Layered Perovskites $\text{A}_{n+1}\text{BnO}_{3n+1}\text{Cl}$: Crystal and Magnetic Structure of a New Oxychloride $\text{Pb}_4\text{BiFe}_4\text{O}_{11}\text{Cl}$. Inorganic Chemistry, 2013, 52, 2208-2218.	1.9	7
194	Innen- und Außenstruktur von Perovskit-artigen Mn_2O_3 : A Path to New Manganites (Angew. Chem. 5/2013). Angewandte Chemie, 2013, 125, 1637-1637.	1.6	0
195	Perovskite-like Mn_2O_3 : A Path to New Manganites. Angewandte Chemie - International Edition, 2013, 52, 1494-1498. Spin gap in malachite $\text{Cu}_2(\text{OH})_2\text{CO}_3$	7.2	96
196	Spin gap in malachite $\text{Cu}_2(\text{OH})_2\text{CO}_3$	1.1	42
197	Structure and magnetic properties of a new anion-deficient perovskite $\text{Pb}_2\text{Ba}_2\text{BiFe}_4\text{ScO}_{13}$ with crystallographic shear structure. Materials Research Bulletin, 2013, 48, 3459-3465.	2.7	2
198	Crystal structure and magnetic properties of the Cr-doped spiral antiferromagnet $\text{BiMnFe}_2\text{O}_6$. Materials Research Bulletin, 2013, 48, 2993-2997.	2.7	3

#	ARTICLE	IF	CITATIONS
199	Magnetism of Cu χ frustrated chains ($T_{\text{ETQq1}} = 1.0784314 \text{ K}$) in the square-lattice magnetism of diabolite Pb χ		
200	Cu(OH)Cl: Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated $\text{Li}_3\text{Nd}_2/3\text{Ae}^{\text{TiO}_3}$ Perovskites. Chemistry of Materials, 2013, 25, 2670-2683.	1.1	23
201	Magnetization and spin dynamics of the spin-nanomagnet Cu χ	3.2	41
202	nanomagnet Cu χ	1.1	20
203	New Lithium Copper Borates with $\text{Li}_6\text{Cu}_4\text{B}_4\text{O}_{10}$, $\text{Li}_3\text{Cu}_3\text{B}_3\text{O}_7$, $\text{Li}_8\text{Cu}_7\text{B}_{14}\text{O}_{32}$, and Two energy scales of spin dimers in clinoclase $\text{Cu}_8\text{B}_8\text{O}_{18}$. Inorganic Chemistry, 2013, 52,	1.9	9
204	(AsO) χ	1.1	18
205	$\text{Y}_3\text{Pt}_4\text{Ge}_{13}$: A superconductor with a noncentrosymmetric crystal structure. Physical Review B, 2013, 87,	1.1	24
206	Frustrated pentagonal Cairo lattice in the non-collinear antiferromagnet Bi χ Fe χ	1.1	23
207	Synthesis and thermoelectric properties of $\text{Re}_3\text{As}_6.6\text{In}_0.4$ with Ir χ crystal structure. Beilstein Journal of Nanotechnology, 2013, 4, 446-452.	1.5	0
208	Effect of lone-pair cations on the orientation of crystallographic shear planes in anion-deficient perovskites. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s108-s108.	0.3	0
209	O_2		

#	ARTICLE	IF	CITATIONS
217	Ca ₃ Pt _{4+x} Ge ₁₃ and Yb ₃ Pt ₄ Ge ₁₃ : new derivatives of the Pr ₃ Rh ₄ Sn ₁₃ structure type. Dalton Transactions, 2012, 41, 6299.	1.6	34
218	YbPtGe ₂ : A multivalent charge-ordered system with an unusual spin pseudogap. Physical Review B, 2012, 86, .	1.1	19
219	Local Oxygen-Vacancy Ordering and Twinned Octahedral Tilting Pattern in the Bi _{0.81} Pb _{0.19} FeO _{2.905} Cubic Perovskite. Chemistry of Materials, 2012, 24, 1378-1385.	3.2	35
220	Smectite clays as the quasi-templates for platinum electrodeposition. Electrochimica Acta, 2012, 61, 94-106.	2.6	6
221	Fluorinated Heterometallic \hat{I}^2 -Diketonates as Volatile Single-Source Precursors for the Synthesis of Low-Valent Mixed-Metal Fluorides. Journal of the American Chemical Society, 2011, 133, 692-694.	6.6	39
222	Magnetic properties of the low-dimensional spin- $\frac{1}{2}$ magnet Cu^{\pm} . $\frac{1}{2}$ Cu^{\pm}	1.1	23
223	Publisher's Note: Magnetic model for A ₂ CuP ₂ O ₇ (A=Na, Li): One-dimensional versus two-dimensional behavior [Phys. Rev. B 84, 174436 (2011)]. Physical Review B, 2011, 84, .	1.1	1
224	Physical properties and valence state of cerium in the filled skutterudite CePt ₄ Ge ₁₂ . Journal of Physics Condensed Matter, 2011, 23, 465601.	0.7	20
225	CuP_2O_7		

#	ARTICLE	IF	CITATIONS
235	The High-Temperature Polymorphs of K_3AlF_6 . Inorganic Chemistry, 2011, 50, 7792-7801.	1.9	31
236	Unusual ferromagnetic superexchange in $CdVO_3$: The role of Cd. Physical Review B, 2011, 84, .	1.1	23
237	The two-dimensional frustrated Heisenberg model on the orthorhombic lattice. Journal of Physics: Conference Series, 2010, 200, 022055.	0.3	2
238	Slicing the Perovskite Structure with Crystallographic Shear Planes: The $AnBnO_{3n+2}$ Homologous Series. Inorganic Chemistry, 2010, 49, 9508-9516.	1.9	23
239	Bridging frustrated-spin-chain and spin-ladder physics: Quasi-one-dimensional magnetism of $BiCu_2PO_6$. Physical Review B, 2010, 82, .	1.1	54
240	Coupled anion and cation ordering in $Sr_3RFe_4O_{10.5}$ (R=Y, Ho, Dy) anion-deficient perovskites. Journal of Solid State Chemistry, 2010, 183, 2845-2854.	1.4	14
241	Direct space structure solution from precession electron diffraction data: Resolving heavy and light scatterers in $Pb_{13}Mn_9O_{25}$. Ultramicroscopy, 2010, 110, 881-890.	0.8	26
242	Frustrated square lattice with spatial anisotropy: Crystal structure and magnetic properties of $PbZnVO_3$. Physical Review B, 2010, 81, .	1.1	36
243	Uniform spin-chain physics arising from $Ni^{2+}Ca^{2+}N$ bridges in $CuNCN$, the nitride analog of the copper oxides. Physical Review B, 2010, 81, .	1.1	16
244	Interplay of atomic displacements in the quantum magnet $CuCl_2$. Physical Review B, 2010, 82, .	1.1	15
245	Microscopic model of $CuCl_2$: Coupled spin dimers replace a frustrated square lattice. Physical Review B, 2010, 82, .	1.1	25
246	Antiferromagnetic spin-1/2 chains in $(NO)_3Cu(NO_3)_3$: A microscopic study. Physical Review B, 2010, 82, .	1.1	15
247	A spin-1/2 chain in Cu_2O . Physical Review B, 2010, 82, .	1.1	84
248	$BiMnFe_2O_6$, a polysynthetically twinned hcp MO structure. Chemical Science, 2010, 1, 751.	3.7	13
249	Large quantum fluctuations in the strongly coupled spin-1/2 chains of green diopside. Physical Review B, 2009, 80, .	1.1	30
250	Exploring the spin-1/2 frustrated square lattice model with high-field magnetization studies. Physical Review B, 2009, 80, .	1.1	68
251	Extension of the spin-1/2 frustrated square lattice model: The case of layered vanadium phosphates. Physical Review B, 2009, 79, .	1.1	83
252	Structural distortion and frustrated magnetic interactions in the layered copper oxychloride $CuCl_2$. Physical Review B, 2009, 79, .	1.1	24

#	ARTICLE	IF	CITATIONS
253	Synthesis, crystal structure and magnetic properties of the Sr ₂ Al _{0.78} Mn _{1.22} O _{5.2} anion-deficient layered perovskite. Journal of Solid State Chemistry, 2009, 182, 356-363.	1.4	16
254	Original close-packed structure and magnetic properties of the Pb ₄ Mn ₉ O ₂₀ manganite. Journal of Solid State Chemistry, 2009, 182, 2231-2238.	1.4	6
255	Magnetic interactions and high-field properties of Ag ₂ VOP ₂ O ₇ : Frustrated alternating chain close to the dimer limit. Journal of Physics: Conference Series, 2009, 145, 012067.	0.3	3
256	Synthesis and crystal structure of new titanil phosphate Sr ₂ TiO(PO ₄) ₂ . Russian Chemical Bulletin, 2008, 57, 552-556.	0.4	3
257	New germanates RCrGeO ₅ (R=Nd ²⁺ , Er, Y): Synthesis, structure, and properties. Journal of Solid State Chemistry, 2008, 181, 2433-2441.	1.4	11
258	Frustrated spin-lattice in the layered perovskite PbV_3O_{10}	1.1	70
259	Magnetic properties of $BaCdVO_3$. A strongly frustrated spin-lattice in the layered perovskite PbV_3O_{10}	1.1	127
260	Magnetic properties of Ag_2VO_7 . Strong frustration due to competing ferromagnetic and antiferromagnetic interactions: Magnetic properties of $Pb_4Mn_9O_{20}$	1.1	28
261	Strong frustration due to competing ferromagnetic and antiferromagnetic interactions: Magnetic properties of $Pb_4Mn_9O_{20}$		