

Vladimir B Nalbandyan

List of Publications by Year in descending order

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54
papers

1,144
citations

394390

19
h-index

395678

33
g-index

61
all docs

61
docs citations

61
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure, phase relations and electrochemical properties of monoclinic Li ₂ MnSiO ₄ . Journal of Solid State Chemistry, 2007, 180, 1045-1050.	2.9	155
2	A New Family of Fast Sodium Ion Conductors: Na ₂ M ₂ TeO ₆ (M = Ni, Tj ETQg 0 0 0 rgBT /Overlock	8.7	140
3	Mixed oxides of sodium, antimony (5+) and divalent metals (Ni, Co, Zn or Mg). Journal of Solid State Chemistry, 2010, 183, 684-691.	2.9	69
4	Monoclinic honeycomb-layered compound Li ₃ Ni ₂ SbO ₆ : preparation, crystal structure and magnetic properties. Dalton Transactions, 2012, 41, 572-580.	3.3	68
5	Subsolidus phase relations in Na ₂ O-CuO-Sb ₂ O ₃ system and crystal structure of new sodium copper antimonate Na ₃ Cu ₂ SbO ₆ . Journal of Solid State Chemistry, 2005, 178, 1165-1170.	2.9	65
6	Zigzag antiferromagnetic quantum ground state in monoclinic honeycomb lattice antimonates $\text{Na}_3\text{Cu}_2\text{SbO}_6$	3.2	63
7	A new layered triangular antiferromagnet Li ₄ FeSbO ₆ : spin order, field-induced transitions and anomalous critical behavior. Dalton Transactions, 2013, 42, 1550-1566.	3.3	49
8	Orbitally induced hierarchy of exchange interactions in the zigzag antiferromagnetic state of honeycomb silver delafossite Ag ₃ Co ₂ SbO ₆ . Dalton Transactions, 2016, 45, 7373-7384.	3.3	36
9	Heterovalent substitutions in Na ₂ M ₂ TeO ₆ family: Crystal structure, fast sodium ion conduction and phase transition of Na ₂ LiFeTeO ₆ . Solid State Ionics, 2013, 233, 7-11.	2.7	33
10	Crystal structure of Li ₄ ZnTeO ₆ and revision of Li ₃ Cu ₂ SbO ₆ . Journal of Solid State Chemistry, 2013, 199, 62-65.	2.9	32
11	Synthesis, structure and magnetic properties of honeycomb-layered Li ₃ Co ₂ SbO ₆ with new data on its sodium precursor, Na ₃ Co ₂ SbO ₆ . New Journal of Chemistry, 2019, 43, 13545-13553.	2.8	32
12	Zigzag spin structure in layered honeycomb $\text{Li}_3\text{Co}_2\text{SbO}_6$	3.2	27
13	Subsolidus phase relations, crystal chemistry and cation-transport properties of sodium iron antimony oxides. Solid State Sciences, 2009, 11, 144-150.	3.2	25
14	Magnetic and electrode properties, structure and phase relations of the layered triangular-lattice tellurate Li ₄ NiTeO ₆ . Journal of Solid State Chemistry, 2015, 225, 89-96.	2.9	24
15	Crystal structure, conductivity and reversible water uptake of new layered potassium antimonates K _x L _{(1+x)/3} Sb(2- ^x)/3O ₂ (L=Ni ²⁺ , Mg ²⁺ , Co ²⁺). Journal of Solid State Chemistry, 2005, 178, 172-179.	2.9	23
16	Ion exchange reactions of NaSbO ₃ and morphotropic series MSbO ₃ . Solid State Sciences, 2006, 8, 1430-1437.	3.2	22
17	Static and Dynamic Magnetic Response of Fragmented Haldane-like Spin Chains in Layered Li ₃ Cu ₂ SbO ₆ . Journal of the Physical Society of Japan, 2016, 85, 084702.	1.6	22
18	Crystal growth and crystal structures of the layered ionic conductors "sodium lithium titanium oxides. Solid State Sciences, 2000, 2, 443-449.	0.7	21

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19	New Phase of MnSb_2O_6 Prepared by Ion Exchange: Structural, Magnetic, and Thermodynamic Properties. <i>Inorganic Chemistry</i> , 2015, 54, 1705-1711.	4.0	21
20	A_2MnXO_4 Family (A = Li, Na, Ag; X = Si, Ge): Structural and Magnetic Properties. <i>Inorganic Chemistry</i> , 2017, 56, 14023-14039.	4.0	19
21	New Cubic Perovskite $\text{Na}(\text{Cu}_{2.5}\text{Ti}_{0.5})\text{Ti}_4\text{O}_{12}$ with Square Planar Coordination of Ti^{4+} . <i>Inorganic Chemistry</i> , 2006, 45, 2217-2220.	4.0	13
22	First observation of the reversible O^{3+} $\text{P}2$ phase transition. <i>Materials Research Bulletin</i> , 2006, 41, 1056-1062.	5.2	12
23	Alkali Metal Cation and Proton Conductors: Relationships between Composition, Crystal Structure, and Properties. , 0, , 227-278.		12
24	Preparation and characterization of metastable trigonal layered MSb_2O_6 phases (M = Co, Ni, Cu, Zn, and Mg) and considerations on FeSb_2O_6 . <i>Dalton Transactions</i> , 2017, 46, 6059-6068.	3.3	12
25	Preparation, crystal structures and rapid hydration of P2- and P3-type sodium chromium antimony oxides. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1043-1047.	2.9	11
26	Crucial Role of Site Disorder and Frustration in Unusual Magnetic Properties of Quasi-2D Triangular Lattice Antimonate $\text{Na}_4\text{FeSbO}_6$. <i>Applied Magnetic Resonance</i> , 2015, 46, 1121-1145.	1.2	11
27	Synthesis and structure of polycrystalline adducts of Co(II) azomethine complexes with redox-active 2,4,6,8-tetrakis-(tert-butyl)phenoxazin-1-one. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2016, 42, 252-259.	1.0	11
28	Structural chemistry of A_2MX_4 compounds ($\text{X} = \text{O}, \text{F}$) with isolated tetrahedral anions: search for the densest structure types. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 227-239.	1.8	9
29	Crystal structure and properties of a new mixed-valence compound $\text{LiMn}_2\text{TeO}_6$ and the survey of the LiMM_2XO_6 family (X = Sb or Te). <i>Solid State Sciences</i> , 2011, 13, 1931-1937.	3.2	8
30	Synthesis and Characterization of MnCrO_4 , a New Mixed-Valence Antiferromagnet. <i>Inorganic Chemistry</i> , 2013, 52, 11850-11858.	4.0	8
31	Effect of a structural disorder on the magnetic properties of the sodium cobalt tellurate $\text{Na}_{3.70}\text{Co}_{1.15}\text{TeO}_6$. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 612-616.	0.9	8
32	Preparation, Crystal Chemistry, and Hidden Magnetic Order in the Family of Trigonal Layered Tellurates $\text{A}_2\text{Mn}(4+)\text{TeO}_6$ (A = Li, Na, Ag, or Tl). <i>Inorganic Chemistry</i> , 2019, 58, 5524-5532.	4.0	8
33	Magnetic Properties of $\text{A}_2\text{Ni}_2\text{TeO}_6$ (A = K, Li): Zigzag Order in the Honeycomb Layers of Ni^{2+} Ions Induced by First and Third Nearest-Neighbor Spin Exchanges. <i>Materials</i> , 2022, 15, 2563.	2.9	8
34	X-ray diffraction analysis of urinary calculi: need for heat treatment. <i>Urological Research</i> , 2008, 36, 247-249.	1.5	7
35	A comparative study of lithium and sodium insertion into HfMo_2O_8 and two polymorphs of ZrMo_2O_8 . <i>Solid State Ionics</i> , 2008, 179, 503-507.	2.7	7
36	Comment on "Phase formation and crystal structure of ternary compound $\text{Na}_2\text{Li}_2\text{Ti}_6\text{O}_{14}$ " by L.M. Torres-Martinez et al., <i>Solid State Sciences</i> 8 (2006) 1281-1289. <i>Solid State Sciences</i> , 2007, 9, 329-330.	3.2	6

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37	Hidden magnetic order in the triangular-lattice magnet LiMn_2O_4 . Physical Review B, 2020, 102, .	2.2	6
38	Crystal structure, local sodium environments and ion dynamics in $\text{Na}_0.8\text{Ni}_0.6\text{Sb}_0.4\text{O}_2$, a new mixed antimonate. Solid State Ionics, 2007, 178, 1360-1365.	2.7	5
39	Trigonal layered rosielite-related antiferromagnet MnSnTeO_6 : ion-exchange preparation, structure and magnetic properties. Dalton Transactions, 2018, 47, 14760-14766.	3.3	5
40	PbMnTeO_6 : a chiral quasi 2D magnet with all cations in octahedral coordination and the space group problem of trigonal layered $\text{A}^{2+}\text{M}^{4+}\text{TeO}_6$. Dalton Transactions, 2019, 48, 17070-17077.	3.3	5
41	Ion exchange as a simple and effective tool for screening possible cation conductors. Journal of Solid State Electrochemistry, 2011, 15, 891-900.	2.5	4
42	Peculiarities of magnetic ordering in the two-dimensional square-lattice antimonate NaMnSbO_4 . Physical Review B, 2020, 101, .	3.2	4
43	Ni_5TiO_7 and Ni_5TiO_4 (BO_3) ₂ . Journal of Solid State Chemistry, 2017, 249, 27-28.	2.9	3
44	Spin dynamics in the alternating chain system LiMn_2O_4 with defects probed by nuclear magnetic resonance. Physical Review B, 2021, 103, .	3.2	3
45	Chemical Information in the L_3 X-ray Absorption Spectra of Molybdenum Compounds by High-Energy-Resolution Detection and Density Functional Theory. Inorganic Chemistry, 2022, 61, 869-881.	4.0	3
46	Existence of minimum molar volumes (maximum packing densities) in morphotropic series of mixed oxides and fluorides. Crystallography Reviews, 2013, 19, 125-148.	1.5	2
47	Chirality and Magnetocaloricity in GdFeTeO_6 as Compared to GdGaTeO_6 . Materials, 2021, 14, 5954.	2.9	2
48	Nonexistence of $\text{NdMgMn}_2\text{O}_6$ ($\text{M}=\text{Li, Na, K, Cs}$) compounds. Powder Diffraction, 2008, 23, 265-266.	0.2	1
49	Thallium manganese sulfate hexahydrate, a missing Tutton's salt, and a brief review of the entire family. Powder Diffraction, 2008, 23, 52-55.	0.2	1
50	Comment on "Effect of particle size and strain on phase stability of $(\text{Li}_{0.06}\text{Na}_{0.94})\text{NbO}_3$ ". Journal of Applied Physics, 2014, 116, 206101.	2.5	1
51	Effects of Non-Stoichiometry on the Ground State of the Frustrated System $\text{Li}_{0.8}\text{Ni}_{0.6}\text{Sb}_{0.4}\text{O}_2$. Materials, 2021, 14, 6785.	2.9	1
52	On the origin of irreproducible behaviour of $\text{Na}_{1-x}\text{Li}_x\text{NbO}_3$ solid solutions. Journal of Physics and Chemistry of Solids, 2004, 65, 1201.	4.0	0
53	Comment on "Distortions in Octahedrally Coordinated d ⁰ Transition Metal Oxides: A Continuous Symmetry Measures Approach". Chemistry of Materials, 2007, 19, 1199-1199.	6.7	0
54	MnSnTeO_6 : A Chiral Antiferromagnet Prepared by a Two-Step Topotactic Transformation. Inorganic Chemistry, 2020, 59, 1532-1546.	4.0	0