

Alexander N Vasiliev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5922137/publications.pdf>

Version: 2024-02-01

110
papers

2,967
citations

186265

28
h-index

182427

51
g-index

110
all docs

110
docs citations

110
times ranked

3167
citing authors

#	ARTICLE	IF	CITATIONS
1	Commensurate helicoidal order in the triangular layered magnet NaMn_2O_6 . Physical Review B, 2022, 105, .	3.2	7
2	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. Materials, 2022, 15, 2563.	2.9	8
3	Long range ordered, dimerized, large- D and Haldane phases in spin 1 chain compounds. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 371-383.	12.3	13
4	Chirality and Magnetocaloricity in GdFeTeO_6 as Compared to GdGaTeO_6 . Materials, 2021, 14, 5954.	2.9	2
5	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
6	Iron-Based Low-Dimensional Magnets. Moscow University Physics Bulletin (English Translation of) 10 Tf 50	0.4	0
7	MnSnTeO_6 : A Chiral Antiferromagnet Prepared by a Two-Step Topotactic Transformation. Inorganic Chemistry, 2020, 59, 1532-1546.	4.0	0
8	Hidden magnetic order in the triangular-lattice magnet LiMn_2O_6 . Physical Review B, 2020, 102, .	2.2	6
9	Ten-Coordinate Lanthanide $[\text{Ln}(\text{HL})(\text{L})]$ Complexes (Ln = Dy, Ho, Er, Tb) with Pentadentate N_3O_2 -Type Schiff-Base Ligands: Synthesis, Structure and Magnetism. Magnetochemistry, 2020, 6, 60.	2.4	9
10	Fine-Tuning of Uniaxial Anisotropy and Slow Relaxation of Magnetization in the Hexacoordinate $\text{Co}(\text{II})$ Complexes with Acidoligands. Journal of Physical Chemistry C, 2020, 124, 25957-25966.	3.1	12
11	Magnetocaloric properties of $\text{Ni}^{2+}\text{Mn}_2\text{Ga}$ with coupled magnetostructural phase transition. Journal of Applied Physics, 2020, 127, .	2.5	9
12	Synthesis and Study of Influence of Mechanical Activation Processing on the Structure and Magnetic Properties of $\text{Sm}_2\text{Fe}_{17-x}\text{Al}_x\text{N}_y$ Nitride Powders. Inorganic Materials: Applied Research, 2020, 11, 89-97.	0.5	1
13	Particularities of magnetic ordering in the two-dimensional square-lattice antimonate NaMnSbO_5 . Physical Review B, 2020, 101, .	3.2	4
14	One-dimensional magnet basic copper(ii) dihydroxoborate $\text{Cu}_2\{\text{BO}(\text{OH})_2\}(\text{OH})_3$: synthesis and properties. Russian Chemical Bulletin, 2020, 69, 704-711.	1.5	2
15	Multiband effect in elastoresistance of $\text{Fe}(\text{Se},\text{Te})$. Europhysics Letters, 2020, 131, 57001.	2.0	0
16	Synthesis, structure and magnetic properties of honeycomb-layered $\text{Li}_3\text{Co}_2\text{SbO}_6$ with new data on its sodium precursor, $\text{Na}_3\text{Co}_2\text{SbO}_6$. New Journal of Chemistry, 2019, 43, 13545-13553.	2.8	32
17	Thermoelectric power and its correlation with conductivity in NbS_3 whiskers. Physical Review B, 2019, 99, .	3.2	10
18	An Adiabatic Calorimetry Method to Determine the Thermodynamic Characteristics of Cryoprotectants. Biophysics (Russian Federation), 2019, 64, 1-6.	0.7	3

#	ARTICLE	IF	CITATIONS
19	Measurements of the superconducting anisotropy in FeSe with a resonance frequency technique. AIP Advances, 2019, 9, .	1.3	7
20	Crystal chemistry and physical properties of the $A_2M_3(H_2O)_2[B_4P_6O_{24}(OH)_2]$ (A = Cs, Rb; M = Ni, Cu, (Ni, Tj) $ETQ_0 0 0 rgBT / Overlo$	3.3	2
21	Vortex-core properties and vortex-lattice transformation in FeSe. Physical Review B, 2019, 99, .	3.2	15
22	Preparation, Crystal Chemistry, and Hidden Magnetic Order in the Family of Trigonal Layered Tellurates $A_{2-x}Mn_{4+x}TeO_6$ (A = Li, Na, Ag, or Tl). Inorganic Chemistry, 2019, 58, 5524-5532.	4.0	8
23	Majority carrier type inversion in the FeSe family and a \tilde{c} -doped semimetal scheme in iron-based superconductors. Superconductor Science and Technology, 2019, 32, 065005.	3.5	4
24	Relationship Between the Boson Heat Capacity Peak and the Excess Enthalpy of a Metallic Glass. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900046.	2.4	9
25	Flat-band spin dynamics and phonon anomalies of the saw-tooth spin-chain system $Fe_{2-x}Se_3$ Antiferroelectric antiferromagnetic type-I multiferroic	3.2	16
26	Spin Dynamics of Two-Dimensional Triangular-Lattice Antiferromagnet $3R-AgFeO_2$. Applied Magnetic Resonance, 2019, 50, 637-648.	3.2	7
27	Spin Dynamics of Two-Dimensional Triangular-Lattice Antiferromagnet $3R-AgFeO_2$. Applied Magnetic Resonance, 2019, 50, 637-648.	1.2	1
28	Single crystal growth, transport and scanning tunneling microscopy and spectroscopy of $FeSe_{1-x}S_x$. CrystEngComm, 2018, 20, 2449-2454.	2.6	17
29	Trigonal layered rosiite-related antiferromagnet $MnSnTeO_6$: ion-exchange preparation, structure and magnetic properties. Dalton Transactions, 2018, 47, 14760-14766.	3.3	5
30	Magnetism and the phase diagram of $MnSb_2O_6$. Physical Review B, 2018, 97, .	3.2	3
31	Superconducting gap symmetry in the superconductor $BaFe_{1.9}Ni_{0.1}As_2$. Physical Review B, 2018, 97, .	3.2	5
32	Crystal structure and spin-trimer magnetism of $Rb_{2.3}(H_2O)_2Mn_3[B_4P_6O_{24}(OH)_2]$ Dalton Transactions, 2017, 46, 2957-2965.	4.4	4
33	Preparation and characterization of metastable trigonal layered MSb_2O_6 phases (M = Co, Ni, Cu, Zn, and Mg) and considerations on $FeSb_2O_6$. Dalton Transactions, 2017, 46, 6059-6068.	3.3	12
34	Magnetically frustrated synthetic end member $Mn_2(PO_4)_3OH$ in the triplite family. Dalton Transactions, 2017, 46, 8680-8686.	3.3	7
35	Crystal Structure, Defects, Magnetic and Dielectric Properties of the Layered $Bi_3n+1Ti_7Fe_3n-3O_{9n+11}$ Perovskite-Anatase Intergrowths. Inorganic Chemistry, 2017, 56, 931-942.	4.0	5
36	A_2MnXO_4 Family (A = Li, Na, Ag; X = Si, Ge): Structural and Magnetic Properties. Inorganic Chemistry, 2017, 56, 14023-14039.	4.0	19

#	ARTICLE	IF	CITATIONS
37	Unveiling the hidden nematicity and spin subsystem in FeSe. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	33
38	Anisotropic Superconducting Gaps and Boson Mode in FeSe $1\hat{a}^{\wedge}x$ S x Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 763-768.	1.8	2
39	Laser-synthesized oxide-passivated bright Si quantum dots for bioimaging. <i>Scientific Reports</i> , 2016, 6, 24732.	3.3	70
40	Analysis of nonlinear conductivity of point contacts on the base of FeSe in the normal and superconducting state. <i>Low Temperature Physics</i> , 2016, 42, 31-35.	0.6	5
41	Orbitally induced hierarchy of exchange interactions in the zigzag antiferromagnetic state of honeycomb silver delafossite $Ag_{3}Co_{2}SbO_{6}$. <i>Dalton Transactions</i> , 2016, 45, 7373-7384.	3.3	36
42	Highly efficient energy transfer from quantum dot to allophycocyanin in hybrid structures. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 160, 96-101.	3.8	7
43	Static and Dynamic Magnetic Response of Fragmented Haldane-like Spin Chains in Layered $Li_{3}Cu_{2}SbO_{6}$. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 084702.	1.6	22
44	Highly Anisotropic and Twofold Symmetric Superconducting Gap in Nematically Ordered $FeSe_{1-x}S_{x}$. <i>Physical Review Letters</i> , 2016, 117, 157003.	3.8	36
45	Structure-Property Relationships in \hat{I}^{\pm} , \hat{I}^{2} , and \hat{I}^{3} -Modifications of $Mn_{3}(PO_{4})_{2}$. <i>Inorganic Chemistry</i> , 2016, 55, 10692-10700.	4.0	15
46	1/3 magnetization plateau and frustrated ferrimagnetism in a sodium iron phosphite. <i>Physical Review B</i> , 2016, 93, .	3.2	7
47	Doubling of the critical temperature of FeSe observed in point contacts. <i>Physical Review B</i> , 2016, 93, .	3.2	19
48	Impurity scattering effects on the superconducting properties and the tetragonal-to-orthorhombic phase transition in FeSe. <i>Physical Review B</i> , 2016, 93, .	3.2	38
49	New superconductor $Li_{x}Fe_{1-x}Se$ ($x \approx 0.07$, T_{c} up to 44 K) by an electrochemical route. <i>Scientific Reports</i> , 2016, 6, 25624.	3.3	22
50	Anomalous correlation effects and unique phase diagram of electron-doped FeSe revealed by photoemission spectroscopy. <i>Nature Communications</i> , 2016, 7, 10840.	12.8	144
51	Magnetic ground state of FeSe. <i>Nature Communications</i> , 2016, 7, 12182.	12.8	158
52	Strong interplay between stripe spin fluctuations, nematicity and superconductivity in FeSe. <i>Nature Materials</i> , 2016, 15, 159-163.	27.5	217
53	Superconducting Properties of $FeSe_{1-x}S_{x}$ Crystals for x up to 0.19. <i>Journal of Low Temperature Physics</i> , 2016, 185, 467-473.	1.4	8
54	$NaFe_{3}(HPO_{4})_{2}((H,F)PO_{2}OH)_{6}$: A Potential Cathode Material and a Novel Ferrimagnet. <i>Inorganic Chemistry</i> , 2016, 55, 2558-2564.	4.0	11

#	ARTICLE	IF	CITATIONS
55	The Contribution of the Nickel Subsystem into Magnetic Properties of Quasi One-Dimensional Magnets ($Y_{1-x}Nd_x$) $_2$ BaNiO $_5$. Journal of Low Temperature Physics, 2016, 185, 692-700.	1.4	0
56	Estimation of Intraband and Interband Relative Coupling Constants from Temperature Dependences of the Order Parameter for Two-Gap Superconductors. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1111-1116.	1.8	10
57	Synthesis, structure and magnetic ordering of the mullite-type Bi $_2$ Fe $_{4-x}$ Cr $_x$ O $_9$ solid solutions with a frustrated pentagonal Cairo lattice. Dalton Transactions, 2016, 45, 1192-1200.	3.3	11
58	Bi $_3$ Ti $_7$ Fe $_3$ O $_9$ Homologous Series: Slicing Perovskite Structure with Planar Interfaces Containing Anatase-like Chains. Inorganic Chemistry, 2016, 55, 1245-1257.	4.0	7
59	Physical properties of cobalt dugganites Pb $_3$ TeCo $_3$ P $_2$ O $_{14}$ and Pb $_3$ TeCo $_3$ As $_2$ O $_{14}$. Physics and Chemistry of Minerals, 2016, 43, 51-58.	0.8	2
60	The long-range magnetic order and underlying spin model in shattuckite Cu $_5$ (SiO $_3$) $_4$ (OH) $_2$. Physics and Chemistry of Minerals, 2016, 43, 43-49.	0.8	4
61	Superconducting properties of sulfur-doped iron selenide. Physical Review B, 2015, 91, .	3.2	90
62	Evolution of the superconducting properties in $FeSe_{1-x}S_x$. Physical Review B, 2015, 92, .	3.2	35
63	Enhanced critical current density in the pressure-induced magnetic state of the high-temperature superconductor FeSe. Scientific Reports, 2015, 5, 16385. Zigzag antiferromagnetic quantum ground state in monoclinic honeycomb lattice antimonates	3.3	25
64	$N_3A_3Sb_2O_{12}$	3.2	63
65	New Phase of MnSb $_2$ O $_6$ Prepared by Ion Exchange: Structural, Magnetic, and Thermodynamic Properties. Inorganic Chemistry, 2015, 54, 1705-1711.	4.0	21
66	Crucial Role of Site Disorder and Frustration in Unusual Magnetic Properties of Quasi-2D Triangular Lattice Antimonate Na $_4$ FeSbO $_6$. Applied Magnetic Resonance, 2015, 46, 1121-1145.	1.2	11
67	Raman diagnostics of photoinduced heating of silicon nanowires prepared by metal-assisted chemical etching. Applied Physics B: Lasers and Optics, 2015, 121, 337-344.	2.2	20
68	Quantum ground states of copper nitrates. Moscow University Physics Bulletin (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.4	0
69	Thermodynamic properties, electron spin resonance, and underlying spin model in $Cu_3Mn_3SeO_{12}$. Physical Review B, 2014, 90, .	3.2	12
70	Noncollinear ferrimagnetic ground state in Ni(NO $_3$) $_2$. Physical Review B, 2014, 90, .	3.2	12
71	Interrelation of superconductivity and magnetism in FeSe $_{1-x}$ compounds. Pressure effects. Low Temperature Physics, 2014, 40, 615-620.	0.6	7
72	Crystal growth, transport phenomena and two-gap superconductivity in the mixed alkali metal (K $_z$ Na $_z$) $_2$ Fe $_2$ Se $_2$ iron selenide. CrystEngComm, 2014, 16, 6919-6928.	2.6	15

#	ARTICLE	IF	CITATIONS
73	Quantum spin chain as a potential realization of the Nersesyan-Tselik model. Physical Review B, 2014, 90, .	3.2	8
74	Lower critical field and SNS-Andreev spectroscopy of 122-arsenides: Evidence of nodeless superconducting gap. Physical Review B, 2014, 90, .	3.2	31
75	Magnetic phase diagram and first-principles study of PbO_{14} . Physical Review B, 2014, 89, .	3.2	23
76	Structural phase transitions in the kagome lattice based materials $Cs_{2x}Rb_xSnCu_3F_{12}$ ($x = 0, 0.5, 1.0, 1.5$). CrystEngComm, 2014, 16, 7419-7425.	2.6	14
77	Unusual band renormalization in the simplest iron-based superconductor $FeSe_{1-x}$. Physical Review B, 2014, 89, .	3.2	158
78	Interplay between lattice and spin states degree of freedom in the FeSe superconductor: Dynamic spin state instabilities. Physical Review B, 2013, 87, .	3.2	54
79	Copper rubidium diphosphate, $Rb_2Cu_3(P_2O_7)_2$: synthesis, crystal structure, thermodynamic and resonant properties. New Journal of Chemistry, 2013, 37, 2743.	2.8	8
80	Temperature dependence of lower critical field H_c nodeless superconductivity in FeSe. Physical Review B, 2013, 88, .	3.2	91
81	Single crystal growth and characterization of tetragonal $FeSe_{1-x}$ superconductors. CrystEngComm, 2013, 15, 1989.	2.6	141
82	Spin-State Transition, Magnetism and Local Crystal Structure in $Eu_{1-x}Ca_xCoO_{3-\delta}$. Journal of the Physical Society of Japan, 2013, 82, 044714.	1.6	4
83	Quasiparticle Dynamics in FeSe Superconductors Studied by Femtosecond Spectroscopy. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1213-1215.	1.8	2
84	Weak ferrimagnetism and multiple magnetization reversal in \pm - $Cr_3(PO_4)_2$. Physical Review B, 2012, 85, .	3.2	8
85	Orthogonal spin arrangement as possible ground state of three-dimensional Shastry-Sutherland network in $BaCu_3$. Physical Review B, 2012, 85, .	3.2	16
86	Thermodynamic studies on single-crystalline $Cd_{1-x}Ba_xNiO_2$. Physical Review B, 2012, 85, .	3.2	8
87	Magnetic and superconducting properties of $FeSe_{1-x}Tex$ ($x = 0, 0.5, \text{ and } 1.0$). Low Temperature Physics, 2011, 37, 83-89.	0.6	26
88	Andreev spectroscopy of FeSe: Evidence for two-gap superconductivity. Journal of Experimental and Theoretical Physics, 2011, 113, 459-467.	0.9	22
89	Coexistence of isotropic and extended s -wave order parameters in FeSe as revealed by low-temperature specific heat. Physical Review B, 2011, 84, .	3.2	106
90	Frustrated exchange interactions formation at low temperatures and high hydrostatic pressures in $La_{0.70}Sr_{0.30}MnO_{2.85}$. Journal of Experimental and Theoretical Physics, 2010, 111, 209-214.	0.9	107

#	ARTICLE	IF	CITATIONS
91	<p>relationship between low dimensionality and magnetic frustration in the magnetoelectric pyroxenes</p> LiCr_XM_2		

#	ARTICLE	IF	CITATIONS
109	Sequence of phase transitions in a quasi-one-dimensional \hat{I}^2 -Na _{0.33} V ₂ O ₅ compound with variable valence. JETP Letters, 2004, 79, 542-544.	1.4	1
110	Long-range and short-range magnetic order in new compound NaVGe ₂ O ₆ . JETP Letters, 2002, 76, 30-32.	1.4	6