

Alexander N Vasiliev

List of Publications by Year in descending order

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110
all docs

110
docs citations

110
times ranked

3167
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong interplay between stripe spin fluctuations, nematicity and superconductivity in FeSe. Nature Materials, 2016, 15, 159-163.	27.5	217
2	Phase transitions in $\text{Ni}_{2+x}\text{Mn}_{1-x}\text{Ga}$ with a high Ni excess. Physical Review B, 2005, 72, .	3.2	176
3	Unusual band renormalization in the simplest iron-based superconductor $\text{FeSe}_{1-x}\text{Te}_x$. Physical Review B, 2014, 89, .	3.2	158
4	Magnetic ground state of FeSe. Nature Communications, 2016, 7, 12182.	12.8	158
5	Anomalous correlation effects and unique phase diagram of electron-doped FeSe revealed by photoemission spectroscopy. Nature Communications, 2016, 7, 10840.	12.8	144
6	Single crystal growth and characterization of tetragonal FeSe_{1-x} superconductors. CrystEngComm, 2013, 15, 1989.	2.6	141
7	Frustrated exchange interactions formation at low temperatures and high hydrostatic pressures in $\text{La}_{0.70}\text{Sr}_{0.30}\text{MnO}_{2.85}$. Journal of Experimental and Theoretical Physics, 2010, 111, 209-214.	0.9	107
8	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
9	Temperature dependence of lower critical field H_{c1} and nodeless superconductivity in FeSe. Physical Review B, 2013, 88, .	3.2	91
10	Superconducting properties of sulfur-doped iron selenide. Physical Review B, 2015, 91, .	3.2	90
11	Laser-synthesized oxide-passivated bright Si quantum dots for bioimaging. Scientific Reports, 2016, 6, 24732.	3.3	70
12	Highly Anisotropic and Twofold Symmetric Superconducting Gap in Nematically Ordered $\text{FeSe}_{1-x}\text{Te}_x$. Physical Review Letters, 2016, 117, 157003.	18.0	64
13	Magnetic field effect and dielectric anomalies at the spin reorientation phase transition of $\text{GdFe}_3(\text{BO}_3)_4$. Physical Review B, 2006, 73, .	3.2	64
14	Zigzag antiferromagnetic quantum ground state in monoclinic honeycomb lattice antimonates $\text{A}_3\text{Sb}_2\text{O}_{10}$. Physical Review B, 2013, 87, .	3.2	63
15	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
16	Cascade of phase transitions in $\text{GdFe}_3(\text{BO}_3)_4$. JETP Letters, 2004, 79, 423-426.	1.4	53
17	Relationship between low-temperature boson heat capacity peak and high-temperature shear modulus relaxation in a metallic glass. Physical Review B, 2009, 80, .	3.2	49
18	Impurity scattering effects on the superconducting properties and the tetragonal-to-orthorhombic phase transition in FeSe. Physical Review B, 2016, 93, .	3.2	38

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19	Relationship between the shear modulus G , activation energy, and shear viscosity in metallic glasses below and above Thermodynamic properties, electron spin resonance, and underlying spin model in $\text{Cu}_{1-x}\text{Ni}_x\text{SeO}_3$. Physical Review B, 2014, 90, .	3.2	37
20	Orbitally induced hierarchy of exchange interactions in the zigzag antiferromagnetic state of honeycomb silver delafossite $\text{Ag}_3\text{Co}_2\text{SbO}_6$. Dalton Transactions, 2016, 45, 7373-7384.	3.3	36
22	Long-range magnetic order in quasi-one-dimensional chromium-based $(\text{S}=32)$ pyroxenes $(\text{Li,Na})\text{Cr}(\text{Si,Ge})_2\text{O}_6$. Physical Review B, 2005, 72, .	3.2	35
23	Evolution of the superconducting properties in $\text{FeSe}_{1-x}\text{S}_x$. Physical Review B, 2015, 92, .	3.2	35
24	Unveiling the hidden nematicity and spin subsystem in FeSe. Npj Quantum Materials, 2017, 2, .	5.2	33
25	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
26	Magnetic and magnetoelectric study of the pyroxene NaCrSi_2 . Physical Review B, 2010, 81, .	3.2	31
27	Lower critical field and SNS-Andreev spectroscopy of 122-arsenides: Evidence of nodeless superconducting gap. Physical Review B, 2014, 90, .	3.2	31
28	Magnetization and specific heat of $\text{DyFe}_3(\text{BO}_3)_4$ single crystal. European Physical Journal B, 2008, 62, 123-128.	1.5	29
29	Magnetic and crystal structures of the magnetoelectric pyroxene LiCrSi_2 . Physical Review B, 2009, 79, .	3.2	27
30	Long range Néel order in the quasi-one-dimensional vanadium-based $(\text{S}=1)$ pyroxenes $(\text{Li,Na})\text{V}(\text{Si,Ge})_2\text{O}_6$. Physical Review B, 2004, 70, .	3.2	26
31	Magnetic and superconducting properties of $\text{FeSe}_{1-x}\text{Te}_x$ ($x=1/4, 0.5$, and 1.0). Low Temperature Physics, 2011, 37, 83-89.	0.6	26
32	Enhanced critical current density in the pressure-induced magnetic state of the high-temperature superconductor FeSe. Scientific Reports, 2015, 5, 16385.	3.3	25
33	Impurity between low dimensionality and magnetic frustration in the magnetoelectric pyroxenes LiCrSi_2 .		

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37	Static and Dynamic Magnetic Response of Fragmented Haldane-like Spin Chains in Layered $\text{Li}_3\text{Cu}_2\text{SbO}_6$. Journal of the Physical Society of Japan, 2016, 85, 084702.	1.6	22
38	New superconductor $\text{Li}_x\text{Fe}_{1-x}\text{Se}$ ($x \approx 0.07$, T_c up to 44 K) by an electrochemical route. Scientific Reports, 2016, 6, 25624.	3.3	22
39	New Phase of MnSb_2O_6 Prepared by Ion Exchange: Structural, Magnetic, and Thermodynamic Properties. Inorganic Chemistry, 2015, 54, 1705-1711.	4.0	21
40	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
41	Doubling of the critical temperature of FeSe observed in point contacts. Physical Review B, 2016, 93, .	3.2	19
42	A_2MnXO_4 Family (A = Li, Na, Ag; X = Si, Ge): Structural and Magnetic Properties. Inorganic Chemistry, 2017, 56, 14023-14039.	4.0	19
43	Magnetic, structural, and dielectric properties of CuB_2O_4 . Physical Review B, 2007, 76, .	3.2	18
44	Single crystal growth, transport and scanning tunneling microscopy and spectroscopy of $\text{FeSe}_{1-x}\text{S}_x$. CrystEngComm, 2018, 20, 2449-2454.	2.6	17
45	network in $\text{Ba}_3\text{Cu}_2\text{SbO}_6$. Physical Review B, 2019, 99, .	3.2	16
46	Flat-band spin dynamics and phonon anomalies of the saw-tooth spin-chain system Fe_2O_3 . Physical Review B, 2019, 99, .	3.2	16
47	Crystal growth, transport phenomena and two-gap superconductivity in the mixed alkali metal $(\text{K}_{1-x}\text{Na}_x)_2\text{Fe}_2\text{Se}_3$ iron selenide. CrystEngComm, 2014, 16, 6919-6928.	2.6	15
48	Structure-Property Relationships in $\text{Mn}_3(\text{PO}_4)_2$, and Mn_3 -Modifications of $\text{Mn}_3(\text{PO}_4)_2$. Inorganic Chemistry, 2016, 55, 10692-10700.	4.0	15
49	Vortex-core properties and vortex-lattice transformation in FeSe. Physical Review B, 2019, 99, .	3.2	15
50	Structural phase transitions in the kagome lattice based materials $\text{Cs}_x\text{Rb}_{1-x}\text{SnCu}_3\text{F}_{12}$ ($x = 0, 0.5, 1.0, 1.5$). CrystEngComm, 2014, 16, 7419-7425.	2.6	14
51	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
52	Noncollinear ferrimagnetic ground state in $\text{Ni}(\text{NO}_3)_2$. Physical Review B, 2014, 90, .	3.2	12
53	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
54	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

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55	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
56	NaFe ₃ (HPO ₃) ₂ ((H,F)PO ₂ OH) ₆ : A Potential Cathode Material and a Novel Ferrimagnet. Inorganic Chemistry, 2016, 55, 2558-2564.	4.0	11
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	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
59	Thermoelectric power and its correlation with conductivity in NbS ₃ whiskers. Physical Review B, 2019, 99, .	3.2	10
60	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
61	Ten-Coordinate Lanthanide [Ln(HL)(L)] Complexes (Ln = Dy, Ho, Er, Tb) with Pentadentate N ₃ O ₂ -Type Schiff-Base Ligands: Synthesis, Structure and Magnetism. Magnetochemistry, 2020, 6, 60.	2.4	9
62	Magnetocaloric properties of Ni ²⁺ Mn ¹⁺ Ga with coupled magnetostructural phase transition. Journal of Applied Physics, 2020, 127, .	2.5	9
63	Weak ferrimagnetism and multiple magnetization reversal in \pm -Cr ₃ (PO ₄) ₂ . Physical Review B, 2012, 85, .	3.2	8
64	Thermodynamic studies on single-crystalline Cd ₂ BaNiO ₅ . Physical Review B, 2012, 85, .	3.2	8
65	Copper rubidium diphosphate, Rb ₂ Cu ₃ (P ₂ O ₇) ₂ : synthesis, crystal structure, thermodynamic and resonant properties. New Journal of Chemistry, 2013, 37, 2743.	2.8	8
66	Quantum spin chain as a potential realization of the Nersesyan-Tselik model. Physical Review B, 2014, 90, .	3.2	8
67	Superconducting Properties of FeSe _{1-x} S _x Crystals for x up to 0.19. Journal of Low Temperature Physics, 2016, 185, 467-473.	1.4	8
68	Preparation, Crystal Chemistry, and Hidden Magnetic Order in the Family of Trigonal Layered Tellurates A ₂ Mn(4+)TeO ₆ (A = Li, Na, Ag, or Tl). Inorganic Chemistry, 2019, 58, 5524-5532.	4.0	8
69	Magnetic Properties of A ₂ Ni ₂ 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
70	Interrelation of superconductivity and magnetism in FeSe _{1-x} Tex compounds. Pressure effects. Low Temperature Physics, 2014, 40, 615-620.	0.6	7
71	Highly efficient energy transfer from quantum dot to allophycocyanin in hybrid structures. Journal of Photochemistry and Photobiology B: Biology, 2016, 160, 96-101.	3.8	7
72	1/3 magnetization plateau and frustrated ferrimagnetism in a sodium iron phosphite. Physical Review B, 2016, 93, .	3.2	7

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73	Bi ₃ Ti ₇ Fe ₃ O ₉ +11 Homologous Series: Slicing Perovskite Structure with Planar Interfaces Containing Anatase-like Chains. Inorganic Chemistry, 2016, 55, 1245-1257.	4.0	7
74	Crystal structure and spin-trimer magnetism of Rb _{2.3} (H ₂ O) _{0.8} Mn ₃ [B ₄ P ₆ O ₂₄](OH) ₃ Dalton Transactions, 2017, 46, 2957-2965.	4.4	7
75	Magnetically frustrated synthetic end member Mn ₂ (PO ₄)OH in the triplite-triploidite family. Dalton Transactions, 2017, 46, 8680-8686.	3.3	7
76	Measurements of the superconducting anisotropy in FeSe with a resonance frequency technique. AIP Advances, 2019, 9, . <i>Antiferroelectric antiferromagnetic type-I multiferroic</i>	1.3	7
77	Commensurate helicoidal order in the triangular layered magnet Physical Review B, 2022, 105, . <i>Antiferroelectric antiferromagnetic type-I multiferroic</i>	3.2	7
78	Commensurate helicoidal order in the triangular layered magnet Physical Review B, 2022, 105, .	3.2	7
79	Long-range and short-range magnetic order in new compound NaVGe ₂ O ₆ . JETP Letters, 2002, 76, 30-32.	1.4	6
80	Application of Nanostructured ASP Precursors for Processing CaCuMn ₆ O ₁₂ Colossal Magnetoresistance Ceramics. International Journal of Applied Ceramic Technology, 2006, 3, 259-265.	2.1	6
81	Specific heat of YFe ₃ (BO ₃) ₄ , Y _{0.5} Gd _{0.5} Fe ₃ (BO ₃) ₄ , and GdFe ₃ (BO ₃) ₄ . Journal of Experimental and Theoretical Physics, 2006, 102, 262-265.	0.9	6
82	Hidden magnetic order in the triangular-lattice magnet Physical Review B, 2020, 102, . <i>Phase transition and Kondo behavior in</i>	2.2	6
83	Phase transition and Kondo behavior in Physical Review B, 2020, 102, .	3.2	5
84	Analysis of nonlinear conductivity of point contacts on the base of FeSe in the normal and superconducting state. Low Temperature Physics, 2016, 42, 31-35.	0.6	5
85	Crystal Structure, Defects, Magnetic and Dielectric Properties of the Layered Bi _{3n+1} Ti ₇ Fe _{3n+11} Perovskite-Anatase Intergrowths. Inorganic Chemistry, 2017, 56, 931-942.	4.0	5
86	Trigonal layered rosiite-related antiferromagnet MnSnTeO ₆ : ion-exchange preparation, structure and magnetic properties. Dalton Transactions, 2018, 47, 14760-14766.	3.3	5
87	Superconducting gap symmetry in the superconductor BaFe _{1.9} Ni _{0.1} As ₂ . Physical Review B, 2018, 97, .	3.2	5
88	Magnetic properties and electronic structure of LaFeAsO _{0.85} F _{0.1} . Low Temperature Physics, 2010, 36, 230-235.	0.6	4
89	Spin-State Transition, Magnetism and Local Crystal Structure in Eu _{1-x} Ca _x CoO _{3-δ} . Journal of the Physical Society of Japan, 2013, 82, 044714.	1.6	4
90	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

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91	Majority carrier type inversion in the FeSe family and a δ -doped semimetal scheme in iron-based superconductors. Superconductor Science and Technology, 2019, 32, 065005.	3.5	4
92	Peculiarities of magnetic ordering in the two-dimensional square-lattice antimonate NaMnSbO_4 . Physical Review B, 2020, 101, .	3.2	4
93	Effect of pressure on the magnetic properties of CrB2. Low Temperature Physics, 2009, 35, 531-535.	0.6	3
94	Magnetism and the phase diagram of MnSb2O6. Physical Review B, 2018, 97, .	3.2	3
95	An Adiabatic Calorimetry Method to Determine the Thermodynamic Characteristics of Cryoprotectants. Biophysics (Russian Federation), 2019, 64, 1-6.	0.7	3
96	Quasiparticle Dynamics in FeSe Superconductors Studied by Femtosecond Spectroscopy. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1213-1215.	1.8	2
97	Physical properties of cobalt dugganites $\text{Pb}_3\text{TeCo}_3\text{P}_2\text{O}_{14}$ and $\text{Pb}_3\text{TeCo}_3\text{As}_2\text{O}_{14}$. Physics and Chemistry of Minerals, 2016, 43, 51-58.	0.8	2
98	Anisotropic Superconducting Gaps and Boson Mode in FeSe $1 \times 1 \times 1$ Single Crystals. Journal of Superconductivity and Novel Magnetism, 2017, 30, 763-768.	1.8	2
99	Crystal chemistry and physical properties of the $\text{A}_2\text{M}_3(\text{H}_2\text{O})_2[\text{B}_4\text{P}_6\text{O}_{24}(\text{OH})_2]$ (A = Cs, Rb; M = Ni, Cu, (Ni, Tj) ETQ_0)	1.0784314	2
100	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
101	Chirality and Magnetocaloricity in GdFeTeO_6 as Compared to GdGaTeO_6 . Materials, 2021, 14, 5954.	2.9	2
102	Sequence of phase transitions in a quasi-one-dimensional $\hat{1}^2\text{-Na}_{0.33}\text{V}_2\text{O}_5$ compound with variable valence. JETP Letters, 2004, 79, 542-544.	1.4	1
103	Spin Dynamics of Two-Dimensional Triangular-Lattice Antiferromagnet 3R-AgFeO_2 . Applied Magnetic Resonance, 2019, 50, 637-648.	1.2	1
104	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
105	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
106	Quantum ground states of copper nitrates. Moscow University Physics Bulletin (English Translation) Tj ETQ_0	0.4	0
107	The Contribution of the Nickel Subsystem into Magnetic Properties of Quasi One-Dimensional Magnets $(\text{Y}_{1-x}\text{Nd}_x)_2\text{BaNiO}_5$. Journal of Low Temperature Physics, 2016, 185, 692-700.	1.4	0
108	MnSnTeO_6 : A Chiral Antiferromagnet Prepared by a Two-Step Topotactic Transformation. Inorganic Chemistry, 2020, 59, 1532-1546.	4.0	0

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109	Multiband effect in elasto-resistance of Fe(Se,Te). Europhysics Letters, 2020, 131, 57001.	2.0	0
110	Iron-Based Low-Dimensional Magnets. Moscow University Physics Bulletin (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	0