

Maxim Avdeev

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489 papers	9,088 citations	46 h-index	73 g-index
561 ext. papers	10,967 ext. citations	5.4 avg, IF	6.4 L-index

#	Paper	IF	Citations
489	P2-Na _{0.6} [Cr _{0.6} Ti _{0.4}]O ₂ cation-disordered electrode for high-rate symmetric rechargeable sodium-ion batteries. <i>Nature Communications</i> , 2015 , 6, 6954	17.4	345
488	Na ₂ FeP ₂ O ₇ : A Safe Cathode for Rechargeable Sodium-ion Batteries. <i>Chemistry of Materials</i> , 2013 , 25, 3480-3487	9.6	243
487	Crystal chemistry of carbon-substituted MgB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 387, 301-306	1.3	204
486	High-Performance P2-Phase Na _{2/3} Mn _{0.8} Fe _{0.1} Ti _{0.1} O ₂ Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 106-116	9.6	166
485	Structural changes in a commercial lithium-ion battery during electrochemical cycling: An in situ neutron diffraction study. <i>Journal of Power Sources</i> , 2010 , 195, 8258-8266	8.9	153
484	3DBVSMAPPER: a program for automatically generating bond-valence sum landscapes. <i>Journal of Applied Crystallography</i> , 2012 , 45, 1054-1056	3.8	151
483	A new polymorph of Na ₂ MnP ₂ O ₇ as a 3.6 V cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4194	13	148
482	Electric-field-induced strain mechanisms in lead-free 94%(Bi _{1/2} Na _{1/2})TiO ₃ 8%BaTiO ₃ . <i>Applied Physics Letters</i> , 2011 , 98, 082901	3.4	130
481	Pressure-induced superconductivity in the iron-based ladder material BaFe ₂ S ₃ . <i>Nature Materials</i> , 2015 , 14, 1008-12	27	119
480	Crystal structure of the sodium cobaltate deuterate superconductor Na _x CoO ₂ ·4xD ₂ O (x=1/3). <i>Physical Review B</i> , 2003 , 68,	3.3	118
479	Chemically Induced Expansion of La ₂ NiO ₄ +δ-Based Materials. <i>Chemistry of Materials</i> , 2007 , 19, 2027-2033	9.6	109
478	Oxygen Nonstoichiometry, Conductivity, and Seebeck Coefficient of La _{0.3} Sr _{0.7} Fe _{1-x} Ga _x O _{2.65+δ} Perovskites. <i>Journal of Solid State Chemistry</i> , 2002 , 167, 203-213	3.3	101
477	Magnetic structure of the quasi-two-dimensional antiferromagnet NiPS ₃ . <i>Physical Review B</i> , 2015 , 92,	3.3	97
476	Large magnetic cooling power involving frustrated antiferromagnetic spin-glass state in R ₂ NiSi ₃ (R=Gd,Er). <i>Physical Review B</i> , 2016 , 94,	3.3	95
475	Screening of the alkali-metal ion containing materials from the Inorganic Crystal Structure Database (ICSD) for high ionic conductivity pathways using the bond valence method. <i>Solid State Ionics</i> , 2012 , 225, 43-46	3.3	95
474	Static disorder from lone-pair electrons in Bi _{2-x} M _x Ru ₂ O ₇ (M=Cu,Co;x=0,0.4) pyrochlores. <i>Journal of Solid State Chemistry</i> , 2002 , 169, 24-34	3.3	91
473	High temperature magnetic ordering in the 4d perovskite SrTcO ₃ . <i>Physical Review Letters</i> , 2011 , 106, 067201	7.4	88

472	Dielectric relaxation in Ba-based layered perovskites. <i>Applied Physics Letters</i> , 2001 , 79, 662-664	3.4	87
471	Correlated Migration Invokes Higher Na ⁺ -Ion Conductivity in NaSICON-Type Solid Electrolytes. <i>Advanced Energy Materials</i> , 2019 , 9, 1902373	21.8	86
470	Magnetic structures of NaFePO ₄ maricite and triphylite polymorphs for sodium-ion batteries. <i>Inorganic Chemistry</i> , 2013 , 52, 8685-93	5.1	86
469	Does local disorder occur in the pyrochlore zirconates?. <i>Inorganic Chemistry</i> , 2012 , 51, 13237-44	5.1	86
468	Relaxor properties of Ba-based layered perovskites. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 1303-1306	6	80
467	ECHIDNA: a decade of high-resolution neutron powder diffraction at OPAL. <i>Journal of Applied Crystallography</i> , 2018 , 51, 1597-1604	3.8	78
466	Perovskite-like system (Sr,La)(Fe,Ga)O ₃ structure and ionic transport under oxidizing conditions. <i>Solid State Ionics</i> , 2002 , 150, 229-243	3.3	76
465	Synthetic, Structural, and Electrochemical Study of Monoclinic Na ₄ Ti ₅ O ₁₂ as a Sodium-Ion Battery Anode Material. <i>Chemistry of Materials</i> , 2014 , 26, 7067-7072	9.6	71
464	Structural and magnetic phase diagram of the two-electron-doped (Ca _{1-x} Ce _x)MnO ₃ system: Effects of competition among charge, orbital, and spin ordering. <i>Physical Review B</i> , 2004 , 69,	3.3	71
463	Investigating the Local Structure of Lanthanoid Hafnates Ln ₂ Hf ₂ O ₇ via Diffraction and Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2266-2273	3.8	70
462	In Situ Neutron Diffraction Monitoring of Li ₇ La ₃ Zr ₂ O ₁₂ Formation: Toward a Rational Synthesis of Garnet Solid Electrolytes.. <i>Chemistry of Materials</i> , 2015 , 27, 2903-2910	9.6	69
461	High/low-moment phase transition in hexagonal Mn-Fe-P-Si compounds. <i>Physical Review B</i> , 2012 , 86,	3.3	65
460	Oxyhydrides of (Ca,Sr,Ba)TiO ₃ perovskite solid solutions. <i>Inorganic Chemistry</i> , 2012 , 51, 11371-6	5.1	65
459	Block magnetism coupled with local distortion in the iron-based spin-ladder compound BaFe ₂ Se ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	64
458	Uncovering the Potential of M1-Site-Activated NASICON Cathodes for Zn-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1907526	24	59
457	Formation of transition metal boride and carbide perovskites related to superconducting MgCNi ₃ . <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1244-1251	3.3	59
456	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 . <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1165-1170	3.3	58
455	An O ₃ -type Oxide with Low Sodium Content as the Phase-Transition-Free Anode for Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7056-7060	16.4	57

- 454 Pressure-induced ferroelectric to antiferroelectric phase transition in $\text{Pb}_{0.99}(\text{Zr}_{0.95}\text{Ti}_{0.05})_{0.98}\text{Nb}_{0.02}\text{O}_3$. *Physical Review B*, **2006**, 73, 3-3 57
- 453 Coupled Cation-Anion Dynamics Enhances Cation Mobility in Room-Temperature Superionic Solid-State Electrolytes. *Journal of the American Chemical Society*, **2019**, 141, 19360-19372 16.4 56
- 452 Transitions between P21, P63(3A), and P6322 modifications of SrAl_2O_4 by in situ high-temperature X-ray and neutron diffraction. *Journal of Solid State Chemistry*, **2007**, 180, 3535-3544 3-3 54
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- 450 Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. *Chemistry of Materials*, **2019**, 31, 9769-9776 9.6 54
- 449 Ultrastable All-Solid-State Sodium Rechargeable Batteries. *ACS Energy Letters*, **2020**, 5, 2835-2841 20.1 53
- 448 Structural phase transitions and magnetic order in SrTcO_3 . *Dalton Transactions*, **2011**, 40, 7228-33 4-3 50
- 447 High-throughput screening platform for solid electrolytes combining hierarchical ion-transport prediction algorithms. *Scientific Data*, **2020**, 7, 151 8.2 49
- 446 $\text{t-Na}_2(\text{VO})\text{P}_2\text{O}_7$: A 3.8 V Pyrophosphate Insertion Material for Sodium-Ion Batteries. *ChemElectroChem*, **2014**, 1, 1488-1491 4-3 47
- 445 Doping-driven structural phase transition and loss of superconductivity in MxFe_1Se_2 ($\text{M}=\text{Mn}, \text{Cu}$). *Physical Review B*, **2010**, 82, 3-3 47
- 444 Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. *Nature Materials*, **2021**, 20, 353-361 27 47
- 443 High-Voltage-Driven Surface Structuring and Electrochemical Stabilization of Ni-Rich Layered Cathode Materials for Li Rechargeable Batteries. *Advanced Energy Materials*, **2020**, 10, 2000521 21.8 43
- 442 Stripelike magnetism in a mixed-valence insulating state of the Fe-based ladder compound CsFe_2Se_3 . *Physical Review B*, **2012**, 85, 3-3 43
- 441 Investigation of cell parameters, microstructures and electrochemical behaviour of LiMn_2O_4 normal and nano powders. *Journal of Power Sources*, **2009**, 188, 274-280 8.9 42
- 440 Neutron diffraction study of phase transitions in perovskite-type strontium molybdate SrMoO_3 . *Journal of Solid State Chemistry*, **2010**, 183, 250-255 3-3 42
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- 438 Increase of ferromagnetic ordering temperature by the minority-band double-exchange interaction in $\text{SrRu}_{1-x}\text{Cr}_x\text{O}_3$. *Physical Review B*, **2005**, 72, 3-3 42
- 437 Apparent critical phenomena in the superionic phase transition of Cu_{2-x}Se . *New Journal of Physics*, **2016**, 18, 013024 2.9 42

436	Structures and crystal chemistry of the double perovskites Ba ₂ LnB ²⁺ O ₆ (Ln=lanthanide B ²⁺ =Nb ⁵⁺ and Ta ⁵⁺): Part I. Investigation of Ba ₂ LnTaO ₆ using synchrotron X-ray and neutron powder diffraction. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 2991-3000	3.3	41
435	Effects of penta- and trivalent dopants on structure and conductivity of Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Solid State Ionics</i> , 2015 , 274, 100-105	3.3	40
434	Magnetic structure and properties of the Na ₂ CoP ₂ O ₇ pyrophosphate cathode for sodium-ion batteries: a supersuperexchange-driven non-collinear antiferromagnet. <i>Inorganic Chemistry</i> , 2013 , 52, 395-401	5.1	39
433	Structure and microwave dielectric properties of La(Mg _{0.5} Ti _{0.5})O ₃ /BaTiO ₃ system. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 2403-2408	6	39
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431	Structures, Phase Transitions, Hydration, and Ionic Conductivity of Ba ₄ Ta ₂ O ₉ . <i>Chemistry of Materials</i> , 2010 , 22, 532-540	9.6	36
430	Single-crystal structure of HoBaCo ₄ O ₇ at ambient conditions, at low temperature, and at high pressure. <i>Physical Review B</i> , 2009 , 79,	3.3	36
429	In situ high-energy X-ray diffraction study and quantitative phase analysis in the β - β' phase field of titanium aluminides. <i>Scripta Materialia</i> , 2007 , 57, 1145-1148	5.6	36
428	Structure evolution in La(Mg _{0.5} Ti _{0.5})O ₃ /BaTiO ₃ system. <i>Materials Research Bulletin</i> , 2002 , 37, 1459-1468	5.1	36
427	Multi-Layer Feature Selection Incorporating Weighted Score-Based Expert Knowledge toward Modeling Materials with Targeted Properties. <i>Advanced Theory and Simulations</i> , 2020 , 3, 1900215	3.5	35
426	Predicting creep rupture life of Ni-based single crystal superalloys using divide-and-conquer approach based machine learning. <i>Acta Materialia</i> , 2020 , 195, 454-467	8.4	35
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424	Antiferromagnetism in a technetium oxide. Structure of CaTcO ₃ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 1654-7	16.4	34
423	Oxygen permeability, thermal expansion and stability of SrCo _{0.8} Fe _{0.2} O ₃ /BaAl ₂ O ₄ composites. <i>Solid State Ionics</i> , 2007 , 178, 1205-1217	3.3	34
422	Structural and Electrochemical Impacts of Mg/Mn Dual Dopants on the LiNiO Cathode in Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12874-12882	9.5	33
421	Hydrothermal Synthesis, Crystal Structure, and Superconductivity of a Double-Perovskite Bi Oxide. <i>Chemistry of Materials</i> , 2016 , 28, 459-465	9.6	33
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419	Giant magnetoelastic effect at the opening of a spin-gap in Ba ₃ BiIr ₂ O ₉ . <i>Journal of the American Chemical Society</i> , 2012 , 134, 3265-70	16.4	32

418	Third structure determination by powder diffractometry round robin (SDPDRR-3). <i>Powder Diffraction</i> , 2009 , 24, 254-262	1.8	31
417	Structures, Phase Transitions, Hydration, and Ionic Conductivity of Ba ₄ Nb ₂ O ₉ . <i>Chemistry of Materials</i> , 2009 , 21, 3853-3864	9.6	31
416	Broad-band dielectric spectroscopy of SrTiO ₃ :Bi ceramics. <i>Physical Review B</i> , 2004 , 69,	3.3	31
415	LiTa ₂ PO ₈ : a fast lithium-ion conductor with new framework structure. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22478-22482	13	31
414	Structural origin of the anisotropic and isotropic thermal expansion of K ₂ NiF ₄ -Type LaSrAlO ₄ and Sr ₂ TiO ₄ . <i>Inorganic Chemistry</i> , 2015 , 54, 3896-904	5.1	30
413	Crystal Chemistry and Structures of (Ca,U) Titanate Pyrochlores. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3464-3473	3.8	30
412	The magnetic structures and transitions of a potential multiferroic orthoferrite ErFeO ₃ . <i>Journal of Applied Physics</i> , 2015 , 117, 164105	2.5	29
411	The mechanism of the sodiation and desodiation in Super P carbon electrode for sodium-ion battery. <i>Journal of Power Sources</i> , 2017 , 340, 14-21	8.9	29
410	Structure and dielectric characterization of the La(Mg _{1/2} Ti _{1/2})O ₃ /Nd(Mg _{1/2} Ti _{1/2})O ₃ system. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 4229-4238	1.8	29
409	Freezing of octahedral tilts below the Curie temperature in SrRu _{1-x} O ₃ perovskites. <i>Physical Review B</i> , 2005 , 71,	3.3	29
408	Magnetic structure of the S=12 quasi-two-dimensional square-lattice Heisenberg antiferromagnet Sr ₂ CuTeO ₆ . <i>Physical Review B</i> , 2016 , 93,	3.3	28
407	Mössbauer spectroscopy analysis of ⁵⁷ Fe-doped YBaCo ₄ O ₇ + δ Effects of oxygen intercalation. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 640-643	3.3	28
406	On the polyhedral volume ratios V _A /V _B in perovskites ABX ₃ . <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 363-72		28
405	On Disrupting the Na ⁺ -Ion/Vacancy Ordering in P2-Type Sodium/Manganese/Nickel Oxide Cathodes for Na ⁺ -Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23251-23260	3.8	28
404	Neutron scattering study of ionic diffusion in CuBe superionic compounds. <i>Solid State Ionics</i> , 2012 , 225, 190-193	3.3	27
403	Ultralow thermal conductivity from transverse acoustic phonon suppression in distorted crystalline β -MgAgSb. <i>Nature Communications</i> , 2020 , 11, 942	17.4	26
402	Anomalous thermal expansion in orthorhombic perovskite SrIrO ₃ : Interplay between spin-orbit coupling and the crystal lattice. <i>Physical Review B</i> , 2014 , 89,	3.3	26
401	Structural, magnetic, and oxygen storage properties of hexagonal Dy _{1-x} Y _x MnO ₃ + δ <i>Journal of Solid State Chemistry</i> , 2014 , 217, 127-135	3.3	26

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399	Investigating the order-disorder phase transition in Nd _{2-x} YxZr ₂ O ₇ via diffraction and spectroscopy. <i>Dalton Transactions</i> , 2013 , 42, 14875-82	4.3	26
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397	Magnetic structure and Dzyaloshinskii-Moriya interaction in the S=12 helical-honeycomb antiferromagnet $\text{Cu}_2\text{V}_2\text{O}_7$. <i>Physical Review B</i> , 2015 , 92,	3.3	26
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390	Nanoengineered High-Performance Hexaferrite Magnets by Morphology-Induced Alignment of Tailored Nanoplatelets. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6938-6949	5.6	26
389	Consolidating the grain boundary of the garnet electrolyte LLZTO with Li ₃ BO ₃ for high-performance LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /LiFePO ₄ hybrid solid batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20633-20639	13	25
388	Tuneable Magnetic Phase Transitions in Layered CeMn ₂ Ge(2-x)Six Compounds. <i>Scientific Reports</i> , 2015 , 5, 11288	4.9	25
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383	FeCr ₂ Sn magnetic fields: possible evidence for a multiferroic ground state. <i>Scientific Reports</i> , 2014 , 4, 6079	4.9	24

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- 376 Efficient potential-tuning strategy through p-type doping for designing cathodes with ultrahigh energy density. *National Science Review*, **2020**, 7, 1768-1775 10.8 23
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- 366 Oxygen vacancy formation and ionic transport in Sr₄Fe₆O₁₃· $\frac{1}{2}$ Journal of Solid State Electrochemistry, **2002**, 6, 217-224 2.6 21
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