Maxim Avdeev

List of Publications by Year in Descending Order

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	FeMn3Ge2Sn7O16: A Perfectly Isotropic 2-D Kagom Lattice that Breaks Magnetic Symmetry with Partial Spin Order. *Chemistry of Materials*, **2022**, 34, 1369-1375	9.6	0
488	A niobium oxide with a shear structure and planar defects for high-power lithium ion batteries. *Energy and Environmental Science*, **2022**, 15, 254-264	35.4	5
487	Magnetic structure of fluorophosphate Na2MnPO4F sodium battery material. *Journal of Solid State Chemistry*, **2022**, 308, 122926	3.3	1
486	Crystal Growth, Structure, and Noninteracting Quantum Spins in Cyanochroite, KCu(SO)6HO.. *ACS Omega*, **2022**, 7, 5139-5145	3.9	
485	Chemical Design of IrS2 Polymorphs to Understand the Charge/Discharge Asymmetry in Anionic Redox Systems. *Chemistry of Materials*, **2022**, 34, 325-336	9.6	
484	Solid-State Calcium-Ion Diffusion in Ca1.5Ba0.5Si5O3N6. *Chemistry of Materials*, **2022**, 34, 128-139	9.6	1
483	Critical Barriers to Successful Implementation of Earth-Abundant, Mn-Rich Cathodes for Vehicle Applications and Beyond: The Effect of Particle Morphology. *Journal of the Electrochemical Society*, **2022**, 169, 020574	3.9	1
482	Unravelling the Nature of the Intrinsic Complex Structure of Binary Phase Na-layered Oxides.. *Advanced Materials*, **2022**, e2202137	24	2
481	Newly developed NaTiOPO4 by simple solid-state synthesis for anode material of Na-ion batteries in both nonaqueous and aqueous electrolytes. *Journal of Power Sources*, **2022**, 541, 231692	8.9	
480	Experimental Observation of Long-Range Magnetic Order in Icosahedral Quasicrystals. *Journal of the American Chemical Society*, **2021**, 143, 19938-19944	16.4	4
479	AA'ZnTeO (A = Na, A' = Rare Earth) Garnets: A-Site Ordered Noncentrosymmetric Structure, Photoluminescence, and Na-Ion Conductivity. *Inorganic Chemistry*, **2021**, 60, 18168-18177	5.1	1
478	Structure and Dynamics in Mg-Stabilized NaPO. *Journal of the American Chemical Society*, **2021**, 143, 17079-17089	16.4	2
477	Effect of Long- and Short-Range Disorder on the Oxygen Ionic Conductivity of Tm(TiTm)O "Stuffed" Pyrochlores. *Inorganic Chemistry*, **2021**, 60, 4517-4530	5.1	6
476	Layered-rocksalt intergrown cathode for high-capacity zero-strain battery operation. *Nature Communications*, **2021**, 12, 2348	17.4	11
475	On the Electrochemical Phase Evolution of Anti-PbO-Type CoSe in Alkali Ion Batteries. *Inorganic Chemistry*, **2021**, 60, 7150-7160	5.1	1
474	Pentanary transition-metals Na-ion layered oxide cathode with highly reversible O3-P3 phase transition. *Chemical Engineering Journal*, **2021**, 412, 128704	14.7	4
473	Structural and Spectroscopic Studies of NaCuCr(PO): A Noncentrosymmetric Phosphate Belonging to the -CrPO-Type Compounds. *Inorganic Chemistry*, **2021**, 60, 7803-7814	5.1	2

472	P2-Na2/3Mn0.8M0.1M?0.1O2 (M = Zn, Fe and M? = Cu, Al, Ti): A Detailed Crystal Structure Evolution Investigation. *Chemistry of Materials*, **2021**, 33, 3905-3914	9.6	3
471	Complex magnetic properties associated with competing local and itinerant magnetism in [Formula: see text]. *Scientific Reports*, **2021**, 11, 13245	4.9	0
470	Dopant and Current Rate Dependence on the Structural Evolution of P2-Na2/3Mn0.8Zn0.1M0.1O2 (M=Cu, Ti): An Operando Study. *Chemistry Methods*, **2021**, 1, 295-304		0
469	Superior Rate Capability and Cycling Stability in Partially Cation-Disordered Co-Free Li-Rich Layered Materials Enabled by an Initial Activation Process. *Chemistry of Materials*, **2021**, 33, 5115-5126	9.6	1
468	Extreme Biomimetics: Designing of the First Nanostructured 3D Spongin-Atacamite Composite and its Application. *Advanced Materials*, **2021**, 33, e2101682	24	7
467	High ionic conductivity and dendrite-resistant NASICON solid electrolyte for all-solid-state sodium batteries. *Materials Today Energy*, **2021**, 20, 100691	7	16
466	Synthesis and Structure of Oxygen Deficient Lead-Technetium Pyrochlore, the First Example of a Valence V Technetium Oxide. *Frontiers in Chemistry*, **2021**, 9, 706269	5	0
465	Critical Role of Ti in Stabilizing High-Voltage Redox Reactions in Li-Rich Layered Material. *Small*, **2021**, 17, e2100840	11	2
464	Extending insertion electrochemistry to soluble layered halides with superconcentrated electrolytes. *Nature Materials*, **2021**, 20, 1545-1550	27	2
463	Identifying Chemical Factors Affecting Reaction Kinetics in Li-air Battery via ab initio Calculations and Machine Learning. *Energy Storage Materials*, **2021**, 35, 595-601	19.4	15
462	Dual-ion intercalation to enable high-capacity VOPO4 cathodes for Na-ion batteries. *Electrochimica Acta*, **2021**, 365, 137376	6.7	5
461	Two-step magnetic ordering into a canted state in ferrimagnetic monoclinic Mn3As2. *Journal of Solid State Chemistry*, **2021**, 294, 121901	3.3	0
460	Biphasic P2/O3-NaLiMnFeO: a structural investigation. *Dalton Transactions*, **2021**, 50, 1357-1365	4.3	2
459	A highly efficient and informative method to identify ion transport networks in fast ion conductors. *Acta Materialia*, **2021**, 203, 116490	8.4	14
458	Nickel Metaphosphate as a Conversion Positive Electrode for Lithium-Ion Batteries. *Batteries and Supercaps*, **2021**, 4, 195-204	5.6	2
457	Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. *Nature Materials*, **2021**, 20, 353-361	27	47
456	Insights into the structural variations in SmNbTaO and HoNbTaO combined experimental and computational studies. *Dalton Transactions*, **2021**, 50, 9103-9117	4.3	1
455	Tilting and Distortion in Rutile-Related Mixed Metal Ternary Uranium Oxides: A Structural, Spectroscopic, and Theoretical Investigation. *Inorganic Chemistry*, **2021**, 60, 2246-2260	5.1	5

454	Non-equilibrium d-wave pair density wave order parameter in superconducting cuprates. *Physica C: Superconductivity and Its Applications*, **2021**, 581, 1353820	1.3	
453	Machine learning prediction of activation energy in cubic Li-argyrodites with hierarchically encoding crystal structure-based (HECS) descriptors. *Science Bulletin*, **2021**, 66, 1401-1408	10.6	10
452	Ultrawide Temperature Range Super-Invar Behavior of R_{2}(Fe,Co)_{17} Materials (R = Rare Earth). *Physical Review Letters*, **2021**, 127, 055501	7.4	3
451	Crystallographic and magnetic structures of the VI3 and LiVI3 van der Waals compounds. *Physical Review B*, **2021**, 104,	3.3	5
450	Marinite Li2Ni(SO4)2 as a New Member of the Bisulfate Family of High-Voltage Lithium Battery Cathodes. *Chemistry of Materials*, **2021**, 33, 6108-6119	9.6	2
449	Dimensional reduction by geometrical frustration in a cubic antiferromagnet composed of tetrahedral clusters. *Nature Communications*, **2021**, 12, 4382	17.4	0
448	The structural evolution of tetradymite-type Sb2Te3 in alkali ion batteries. *Journal of Alloys and Compounds*, **2021**, 871, 159378	5.7	0
447	The phase evolution of tetradymite-type bismuth selenide in alkali ion batteries. *Journal of Solid State Chemistry*, **2021**, 300, 122241	3.3	0
446	Expanded Chemistry and Proton Conductivity in Vanadium-Substituted Variants of □Ba4Nb2O9. *Chemistry of Materials*, **2021**, 33, 7475-7483	9.6	
445	Defect control and ionic conductivity of oxynitride perovskite Sr0.83Li0.17Ta0.83O1.88N0.74. *Ceramics International*, **2021**, 48, 1765-1765	5.1	
444	Visualizing lithium ions in the crystal structure of Li3PO4 by in situ neutron diffraction. *Journal of Applied Crystallography*, **2021**, 54, 1409-1415	3.8	0
443	Identifying descriptors for Li+ conduction in cubic Li-argyrodites via hierarchically encoding crystal structure and inferring causality. *Energy Storage Materials*, **2021**, 40, 386-393	19.4	8
442	An investigation of LnUO4 (Ln = Dy and Ho): Structures, microstructures, uranium valences and magnetic properties. *Journal of the European Ceramic Society*, **2021**, 41, 6000-6009	6	2
441	Average and local ordering of Yb2(Ti2-Yb)O7-/2 □stuffed□pyrochlores: The development of a robust structural model. *Journal of Solid State Chemistry*, **2021**, 302, 122412	3.3	2
440	Crystal and Magnetic Structures of Monoclinic FeOHSO. *Inorganic Chemistry*, **2021**, 60, 15128-15130	5.1	0
439	Magnetic structure of triangular lattice compound Tb2Ni0.90Si2.94. *Journal of Magnetism and Magnetic Materials*, **2021**, 536, 168083	2.8	0
438	Unlocking fast and reversible sodium intercalation in NASICON Na4MnV(PO4)3 by fluorine substitution. *Energy Storage Materials*, **2021**, 42, 307-316	19.4	10
437	Revisiting the cubic crystal structures of Sr4Nb2O9 and Sr5Nb2O10. *Journal of Solid State Chemistry* , **2021**, 303, 122502	3.3	

436	Magnetic structure study of the sawtooth chain antiferromagnet [Formula: see text].. *Scientific Reports*, **2021**, 11, 24049	4.9	0
435	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
434	High-throughput screening platform for solid electrolytes combining hierarchical ion-transport prediction algorithms. *Scientific Data*, **2020**, 7, 151	8.2	49
433	Relationships Between Na+ Distribution, Concerted Migration, and Diffusion Properties in Rhombohedral NASICON. *Advanced Energy Materials*, **2020**, 10, 2001486	21.8	23
432	Magnetic Structure and Metamagnetic Transitions in the van der Waals Antiferromagnet CrPS. *Advanced Materials*, **2020**, 32, e2001200	24	21
431	CAVD, towards better characterization of void space for ionic transport analysis. *Scientific Data*, **2020**, 7, 153	8.2	21
430	Manganese Metaphosphate Mn(PO3)2 as a High-Performance Negative Electrode Material for Lithium-Ion Batteries. *ChemElectroChem*, **2020**, 7, 2831-2837	4.3	2
429	Synthesis, electrochemistry and transition metal-doping of monoclinic Li4Ti5O12 and Na4Ti5O12. *Solid State Ionics*, **2020**, 353, 115375	3.3	1
428	Consequences of long-term water exposure for bulk crystal structure and surface composition/chemistry of nickel-rich layered oxide materials for Li-ion batteries. *Journal of Power Sources*, **2020**, 470, 228370	8.9	10
427	Unprecedented lattice volume expansion on doping stereochemically active Pb into uniaxially strained structure of CaBaPbZnGaO. *Nature Communications*, **2020**, 11, 1303	17.4	3
426	Synthesis, Electrical Properties and Na+ Migration Pathways of Na2CuP1.5As0.5O7. *Processes*, **2020**, 8, 305	2.9	3
425	Structural and Electrochemical Impacts of Mg/Mn Dual Dopants on the LiNiO Cathode in Li-Metal Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 12874-12882	9.5	33
424	Grain size and structure distortion characterization of β-MgAgSb thermoelectric material by powder diffraction. *Chinese Physics B*, **2020**, 29, 106101	1.2	1
423	Structural Distortion and Dielectric Permittivities of KCoO-Type Layered Nitrides CaSrTiN. *Inorganic Chemistry*, **2020**, 59, 9693-9698	5.1	0
422	A Database of Ionic Transport Characteristics for Over 29 000 Inorganic Compounds. *Advanced Functional Materials*, **2020**, 30, 2003087	15.6	19
421	Structure, conductivity and magnetism of orthorhombic and fluorite polymorphs in MoO-LnO (Ln = Gd, Dy, Ho) systems. *Dalton Transactions*, **2020**, 49, 2833-2842	4.3	4
420	Ultralow thermal conductivity from transverse acoustic phonon suppression in distorted crystalline β-MgAgSb. *Nature Communications*, **2020**, 11, 942	17.4	26
419	Uncovering the Potential of M1-Site-Activated NASICON Cathodes for Zn-Ion Batteries. *Advanced Materials*, **2020**, 32, e1907526	24	59

418	Multi-Layer Feature Selection Incorporating Weighted Score-Based Expert Knowledge toward Modeling Materials with Targeted Properties. *Advanced Theory and Simulations*, **2020**, 3, 1900215	3.5	35
417	Structural and Magnetic Studies of O-Type Ruthenium and Osmium Oxides. *Inorganic Chemistry*, **2020**, 59, 2791-2802	5.1	7
416	Synthesis, crystal structure, and magnetic properties of oxynitride perovskites SrMnMON (M = Nb, Ta). *Dalton Transactions*, **2020**, 49, 6471-6477	4.3	0
415	Elucidating the relationship between nanoparticle morphology, nuclear/magnetic texture and magnetic performance of sintered SrFeO magnets. *Nanoscale*, **2020**, 12, 9481-9494	7.7	9
414	Oxide Ion and Proton Conductivity in Highly Oxygen-Deficient Cubic Perovskite SrSc0.3Zn0.2Ga0.5O2.4. *Chemistry of Materials*, **2020**, 32, 4347-4357	9.6	8
413	Structural Chemistry and Magnetic Properties of the Hexagonal Double Perovskite BaCoOsO. *Inorganic Chemistry*, **2020**, 59, 6613-6622	5.1	2
412	A fast-cooling sample-positioning probe for low-temperature neutron scattering experiments. *Journal of Applied Crystallography*, **2020**, 53, 297-301	3.8	1
411	Crystal Structure and Magnetic Properties of the Breathing Kagome Ising Antiferromagnet Yb3Ni11Ge4.63. *Journal of the Physical Society of Japan*, **2020**, 89, 094704	1.5	2
410	Predicting creep rupture life of Ni-based single crystal superalloys using divide-and-conquer approach based machine learning. *Acta Materialia*, **2020**, 195, 454-467	8.4	35
409	Understanding the Li diffusion mechanism and positive effect of current collector volume expansion in anode free batteries. *Chinese Physics B*, **2020**, 29, 068202	1.2	20
408	Synthesis, structure, electrical properties and Na+ migration pathways of Na2CoP1.5As0.5O7. *Journal of Solid State Chemistry*, **2020**, 285, 121058	3.3	6
407	Revisiting the layered Na3Fe3(PO4)4 phosphate sodium insertion compound: structure, magnetic and electrochemical study. *Materials Research Express*, **2020**, 7, 014001	1.7	4
406	Ab initio thermodynamic optimization of Ni-rich NiCoMn oxide cathode coatings. *Journal of Power Sources*, **2020**, 450, 227693	8.9	11
405	Multielectron-Capable Li-Rich Polyanion Material with High Operating Voltage: Li5V2PO4F8 for Li-Ion Batteries. *ACS Energy Letters*, **2020**, 5, 403-410	20.1	6
404	Controlled Atomic Solubility in Mn-Rich Composite Material to Achieve Superior Electrochemical Performance for Li-Ion Batteries. *Advanced Energy Materials*, **2020**, 10, 1902231	21.8	9
403	High-Throughput Computational Screening of Li-Containing Fluorides for Battery Cathode Coatings. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 948-957	8.3	15
402	Magnetic properties and magnetic structure of the frustrated quasi-one-dimensional antiferromagnet SrCuTe2O6. *Physical Review B*, **2020**, 102,	3.3	3
401	Modification of magnetic ground state in Tb2Ni0.90Si2.94 by thermal annealing. *Intermetallics*, **2020**, 124, 106874	3.5	3

400	Fully Exploited Oxygen Redox Reaction by the Inter-Diffused Cations in Co-Free Li-Rich Materials for High Performance Li-Ion Batteries. *Advanced Science*, **2020**, 7, 2001658	13.6	8
399	Studies of the 4d and 5d 6H perovskites BaBMO, B = Ti, Zn, Y; M = Ru, Os, and cubic BaBRuO polymorphs stabilised under high pressure. *Dalton Transactions*, **2020**, 49, 12222-12233	4.3	0
398	Ultrastable All-Solid-State Sodium Rechargeable Batteries. *ACS Energy Letters*, **2020**, 5, 2835-2841	20.1	53
397	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
396	Optimizing the structure of layered cathode material for higher electrochemical performance by elucidating structural evolution during heat processing. *Nano Energy*, **2020**, 78, 105194	17.1	4
395	Monoclinic □-NaFePOF with Strong Antisite Disorder and Enhanced Na Diffusion. *Inorganic Chemistry*, **2020**, 59, 16225-16237	5.1	0
394	Structure Evolution of NaO from Room Temperature to 500 °C. *Inorganic Chemistry*, **2020**, 59, 14439-14446	5.1	
393	Ionic conductivity and thermal expansion of anion-deficient Sr11Mo4O23 perovskite. *Journal of Solid State Electrochemistry*, **2020**, 24, 2943-2951	2.6	1
392	Alkali Metal-Modified P2 NaMnO: Crystal Structure and Application in Sodium-Ion Batteries. *Inorganic Chemistry*, **2020**, 59, 12143-12155	5.1	4
391	Tunnel structure of tetragonal tungsten bronzes BaTa2O6, Ba0.8Ta2O5.8, and Ba0.5Ta2O5.5 studied using synchrotron X-ray and neutron diffraction. *Journal of Alloys and Compounds*, **2020**, 815, 152420	5.7	2
390	Synthesis and crystal structures of two polymorphs of Li4□xMg1+xTeO6. *Journal of Solid State Chemistry*, **2020**, 287, 121385	3.3	3
389	Correlated Migration Invokes Higher Na+-Ion Conductivity in NaSICON-Type Solid Electrolytes. *Advanced Energy Materials*, **2019**, 9, 1902373	21.8	86
388	Successive phase transitions and magnetization plateau in the spin-1 triangular-lattice antiferromagnet Ba2La2NiTe2O12 with small easy-axis anisotropy. *Physical Review B*, **2019**, 100,	3.3	4
387	Neutron Diffraction Study of Unusual Magnetic Behaviors in the HoFeAl Intermetallic Compound. *Inorganic Chemistry*, **2019**, 58, 13742-13745	5.1	5
386	Synthesis-Controlled Polymorphism and Magnetic and Electrochemical Properties of LiCoSbO. *Inorganic Chemistry*, **2019**, 58, 13881-13891	5.1	12
385	Structure and conductivity of Nd6MoO12-based potential electron□proton conductors under dry and wet redox conditions. *Inorganic Chemistry Frontiers*, **2019**, 6, 566-575	6.8	10
384	Investigation of K modified P2 Na0.7Mn0.8Mg0.2O2 as a cathode material for sodium-ion batteries. *CrystEngComm*, **2019**, 21, 172-181	3.3	10
383	Aliovalent M Site Substitutions of $[PO_4]^{3-}$ and $[HfO_4]^{4-}$ for $[AlO_4]^{5-}$ and $[GaO_4]^{5-}$ in the Sr3MO4F-type Anti-Perovskite Oxyfluoride. *ECS Journal of Solid State Science and Technology*, **2019**, 8, R1-R8	2	1

382	Spatially limited antiferromagnetic order in a cluster glass compound Tb2Ni0.90Si2.94. *Journal of Alloys and Compounds*, **2019**, 785, 72-79	5.7	16
381	Magnetic properties of La3Ni2Sb Ta Nb1 09; from relaxor to spin glass. *Journal of Solid State Chemistry*, **2019**, 273, 175-185	3.3	4
380	Magnetic structures of R2Fe2Si2C intermetallic compounds: Evolution to Er2Fe2Si2C and Tm2Fe2Si2C. *Physical Review B*, **2019**, 99,	3.3	1
379	Stabilisation of magnetic ordering in La3Ni2-xCuxB 09 (B = Sb, Ta, Nb) by the introduction of Cu2+. *Journal of Solid State Chemistry*, **2019**, 276, 164-172	3.3	2
378	Structural distortions and self-activated photoluminescence in reductively annealed Ba2SrGaO4F. *Journal of Solid State Chemistry*, **2019**, 276, 376-381	3.3	0
377	Magnetic states of coupled spin tubes with frustrated geometry in CsCrF4. *Npj Quantum Materials*, **2019**, 4,	5	5
376	Structural and magnetic studies of KOsO, a 5d quantum magnet oxide. *Physical Chemistry Chemical Physics*, **2019**, 21, 7261-7264	3.6	7
375	Comparative Study of Electrical Conduction and Oxygen Diffusion in the Rhombohedral and Bixbyite LnMoO (Ln = Er, Tm, Yb) Polymorphs. *Inorganic Chemistry*, **2019**, 58, 4275-4288	5.1	6
374	Lanthanide mononuclear complexes with a tridentate Schiff base ligand: Structures, spectroscopies and properties. *Polyhedron*, **2019**, 165, 125-131	2.7	1
373	Crystal and Magnetic Structures of Melilite-Type BaMnSiO. *Inorganic Chemistry*, **2019**, 58, 4164-4172	5.1	5
372	Synthesis and Structural Determination of the Disordered Bixbyite Cu Sb O with Spin-Glass Behaviour. *Chemistry - an Asian Journal*, **2019**, 14, 1286-1292	4.5	1
371	Controlling Oxygen Defect Formation and Its Effect on Reversible Symmetry Lowering and Disorder-to-Order Phase Transformations in Nonstoichiometric Ternary Uranium Oxides. *Inorganic Chemistry*, **2019**, 58, 6143-6154	5.1	9
370	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi0.045Cu0.185Fe0.265Mn0.505O2 Sodium-Ion Cathode Material. *Journal of Physical Chemistry C* , **2019**, 123, 11428-11435	3.8	10
369	Electrical Properties of Hollandite-Type BaGaTiO, KGaTiO, and KMgTiO. *Inorganic Chemistry*, **2019**, 58, 4782-4791	5.1	5
368	Diffraction Line Profile Analysis of 3D Wedge Samples of Ti-6Al-4V Fabricated Using Four Different Additive Manufacturing Processes. *Metals*, **2019**, 9, 60	2.3	15
367	Magnetic phase coexistence in DyNiAl4. *Journal of Magnetism and Magnetic Materials*, **2019**, 469, 30-34	2.8	
366	Whirling spin order in the quasicrystal approximant Au72Al14Tb14. *Physical Review B*, **2019**, 100,	3.3	14
365	Consolidating the grain boundary of the garnet electrolyte LLZTO with Li3BO3 for high-performance LiNi0.8Co0.1Mn0.1O2/LiFePO4 hybrid solid batteries. *Journal of Materials Chemistry A*, **2019**, 7, 20633-20639	13	25

364	Multiple Competing Magnetic Interactions in Na4Ni7(PO4)6. *Journal of Physical Chemistry C*, **2019**, 123, 19828-19834	3.8	
363	Neutron scattering study of the quasi-one-dimensional antiferromagnet Ba2CoSi2O7. *Physical Review B*, **2019**, 100,	3.3	1
362	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
361	An Ordered P2/P3 Composite Layered Oxide Cathode with Long Cycle Life in Sodium-Ion Batteries **2019**, 1, 573-581		20
360	Frustrated magnetism in the J1□2 honeycomb lattice compounds MgMnO3 and ZnMnO3 synthesized via a metathesis reaction. *Physical Review Materials*, **2019**, 3,	3.2	4
359	Synthesis, structure and Na+ migration pathways of new Wylleite-type Na1.25Co2.187Al1.125(AsO4)3. *Materials Research Express*, **2019**, 6, 126313	1.7	3
358	Crystal structures and phase transition behaviour in the 5d transition metal oxides AReO (A = Ag, Na, K, Rb, Cs and Tl). *Dalton Transactions*, **2019**, 48, 17524-17532	4.3	7
357	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. *Chemistry of Materials*, **2019**, 31, 9769-9776	9.6	54
356	Polymorphism and Temperature-Induced Phase Transitions of NaCoPO. *Inorganic Chemistry*, **2019**, 58, 16823-16830	5.1	2
355	Antiferromagnetism and Metamagnetism in ErFeCuGe4O12. *Journal of Solid State Chemistry*, **2019**, 269, 107-112	3.3	1
354	Magnetisation reversal in Ca2PrCr2NbO9 and Ca2PrCr2TaO9. *Journal of Solid State Chemistry*, **2019** , 269, 80-86	3.3	1
353	Growth of LiCoO2 Single Crystals by the TSFZ Method. *Crystal Growth and Design*, **2019**, 19, 415-420	3.5	4
352	Low temperature thermodynamics of Yb6MoO12 and Lu6MoO12. *Journal of Alloys and Compounds*, **2019**, 778, 756-760	5.7	5
351	Controlling the stoichiometry of the triangular lattice antiferromagnet Li1+xZn2□Mo3O8. *Journal of Solid State Chemistry*, **2019**, 271, 216-221	3.3	2
350	Preparation and high resolution structural studies of LixAg1-xNbO3 lead free piezoelectrics. *Journal of Solid State Chemistry*, **2019**, 269, 401-408	3.3	4
349	Cu(II) ion directed self-assembly of a Y8/Cu6 heterometallic coordination cage via an Y(III) metalloligand. *Inorganica Chimica Acta*, **2019**, 484, 521-526	2.7	3
348	In operando detection of lithium diffusion behaviors at low temperature in 18650 Li-ion battery anode. *Physica B: Condensed Matter*, **2018**, 551, 305-308	2.8	8
347	Synthesis and structural characterization of the vividly colored first row transition metal-containing oxyfluoride antiperovskites Sr3-xMnxMO4F and Sr3-xMnxMO4-□F1-□(M = Al, Ga). *Materials Research Bulletin*, **2018**, 102, 424-432	5.1	1

346	An O3-type Oxide with Low Sodium Content as the Phase-Transition-Free Anode for Sodium-Ion Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 7056-7060	16.4	57
345	An O3-type Oxide with Low Sodium Content as the Phase-Transition-Free Anode for Sodium-Ion Batteries. *Angewandte Chemie*, **2018**, 130, 7174-7178	3.6	13
344	Structural and magnetic studies of the ruthenium perovskites Ba2-xSrxHoRuO6. *Journal of Solid State Chemistry*, **2018**, 263, 36-43	3.3	1
343	Stability against reduction of fluorite-like rhombohedral La5.5MoO11.25 and Ho5.4Zr0.6MoO12.3 fluorite: Conductivity and neutron diffraction study. *Solid State Ionics*, **2018**, 319, 148-155	3.3	11
342	Magnetic state selected by magnetic dipole interaction in the kagome antiferromagnet NaBa2Mn3F11. *Physical Review B*, **2018**, 97,	3.3	4
341	Neutron diffraction study on Li3PO4 solid electrolyte for lithium ion battery. *Physica B: Condensed Matter*, **2018**, 551, 320-326	2.8	11
340	Structural studies of the high temperature phases of AgTaO3. *Journal of Solid State Chemistry*, **2018** , 258, 859-864	3.3	12
339	Cluster Formation in the Superconducting Complex Intermetallic Compound BePt. *Accounts of Chemical Research*, **2018**, 51, 214-222	24.3	18
338	Unexpected Crystallographic Phase Transformation in Nonstoichiometric SrUO: Reversible Oxygen Defect Ordering and Symmetry Lowering with Increasing Temperature. *Inorganic Chemistry*, **2018**, 57, 5948-5958	5.1	13
337	Crystal structure and monoclinic distortion of glaserite-type Ba3MnSi2O8. *Journal of Solid State Chemistry*, **2018**, 266, 1-8	3.3	1
336	Hydration Mechanisms and Proton Conduction in the Mixed Ionic-Electronic Conductors Ba4Nb2O9 and Ba4Ta2O9. *Chemistry of Materials*, **2018**, 30, 4949-4958	9.6	8
335	Crystal Chemistry of Vanadium-Bearing Ellestadite Waste Forms. *Inorganic Chemistry*, **2018**, 57, 9122-9132	5.1	3
334	A multi-technique investigation of the incuse coinage of Magna Graecia. *Journal of Archaeological Science: Reports*, **2018**, 20, 748-755	0.7	3
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