

# Artem M Abakumov

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

341  
papers

9,909  
citations

47  
h-index

84  
g-index

404  
ext. papers

11,611  
ext. citations

7.4  
avg, IF

6.22  
L-index

#	Paper	IF	Citations
341	NH <sub>4</sub> <sup>+</sup> -based frameworks as a platform for designing electrodes and solid electrolytes for Na-ion batteries: A screening approach. <i>Solid State Ionics</i> , <b>2022</b> , 374, 115810	3.3	1
340	Layered Sodium Titanium Trichalcogenide Na <sub>2</sub> TiCh <sub>3</sub> Framework (Ch = S, Se): A Rich Crystal and Electrochemical Chemistry. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 2382-2392	9.6	1
339	Chemical Design of IrS <sub>2</sub> Polymorphs to Understand the Charge/Discharge Asymmetry in Anionic Redox Systems. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 325-336	9.6	
338	Revisited TiNbO as an Anode Material for Advanced Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 56366-56374	9.5	3
337	Hydroxyl Defects in LiFePO Cathode Material: DFT+ and an Experimental Study. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 5497-5506	5.1	3
336	Hydrothermal Microwave-Assisted Synthesis of Na <sub>3+x</sub> V <sub>2-y</sub> Mny(PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> Solid Solutions as Potential Positive Electrodes for Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5007-5014	6.1	3
335	Phase Transitions in the "Spinel-Layered" LiNiMnO (x = 0, 0.5, 1) Cathodes upon (De)lithiation Studied with Operando Synchrotron X-ray Powder Diffraction. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
334	Mixed-Cation Perovskite La <sub>0.6</sub> Ca <sub>0.4</sub> Fe <sub>0.7</sub> Ni <sub>0.3</sub> O <sub>2.9</sub> as a Stable and Efficient Catalyst for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8338-8348	13.1	5
333	Grain Boundaries as a Diffusion-Limiting Factor in Lithium-Rich NMC Cathodes for High-Energy Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 6777-6786	6.1	1
332	The role of antisite defect pairs in surface reconstruction of layered AMO <sub>2</sub> oxides: A DFT+U study. <i>Applied Surface Science</i> , <b>2021</b> , 537, 147750	6.7	3
331	Reactivity with Water and Bulk Ruthenium Redox of Lithium Ruthenate in Basic Solutions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2002249	15.6	1
330	Unlocking anionic redox activity in O <sub>3</sub> -type sodium 3d layered oxides via Li substitution. <i>Nature Materials</i> , <b>2021</b> , 20, 353-361	27	47
329	Electrode materials viewed with transmission electron microscopy <b>2021</b> ,		
328	Li-based layered nickel-tin oxide obtained through electrochemically-driven cation exchange.. <i>RSC Advances</i> , <b>2021</b> , 11, 28593-28601	3.7	1
327	Exploring the Role of Crystal Water in Potassium Manganese Hexacyanoferrate as a Cathode Material for Potassium-Ion Batteries. <i>Crystals</i> , <b>2021</b> , 11, 895	2.3	5
326	β-TiPO as a Negative Electrode Material for Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12237-12246	13.246	1
325	Activation of anionic redox in d transition metal chalcogenides by anion doping. <i>Nature Communications</i> , <b>2021</b> , 12, 5485	17.4	7

324	□LiVP2O7 as a positive electrode material for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 389, 138759	6.7	0
323	Correlating ligand-to-metal charge transfer with voltage hysteresis in a Li-rich rock-salt compound exhibiting anionic redox. <i>Nature Chemistry</i> , <b>2021</b> , 13, 1070-1080	17.6	15
322	Comprehensive Study of Li+/Ni <sup>2+</sup> Disorder in Ni-Rich NMCs Cathodes for Li-Ion Batteries. <i>Symmetry</i> , <b>2021</b> , 13, 1628	2.7	5
321	Hard carbon as a negative electrode material for potassium-ion batteries prepared with high yield through a polytetrafluoroethylene-based precursor. <i>Carbon Trends</i> , <b>2021</b> , 5, 100089	0	0
320	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2491-2499	16.4	20
319	Heterometallic Precursor with 2:2:1 Metal Ratio Requiring at Least a Pentanuclear Molecular Assembly. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12767-12776	16.4	6
318	Low-temperature solvothermal fluorination method and synthesis of La <sub>4</sub> Ni <sub>3</sub> O <sub>8</sub> F <sub>x</sub> oxyfluorides via the La <sub>4</sub> Ni <sub>3</sub> O <sub>8</sub> infinite-layer intermediate. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 289, 121490	3.3	
317	Cation insertion to break the activity/stability relationship for highly active oxygen evolution reaction catalyst. <i>Nature Communications</i> , <b>2020</b> , 11, 1378	17.4	43
316	Anionic substitution in LiMnPO <sub>4</sub> : The Li <sub>1</sub> -Mn <sub>1</sub> +(PO <sub>4</sub> ) <sub>1</sub> (VO <sub>4</sub> )(OH) <sub>4</sub> solid solutions prepared with a microwave-assisted hydrothermal method. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 286, 121294	3.3	2
315	Titanium-based potassium-ion battery positive electrode with extraordinarily high redox potential. <i>Nature Communications</i> , <b>2020</b> , 11, 1484	17.4	43
314	First Example of Protonation of Ruddlesden-Popper Sr <sub>2</sub> IrO <sub>4</sub> : A Route to Enhanced Water Oxidation Catalysts. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3499-3509	9.6	22
313	Structural evolution at the oxidative and reductive limits in the first electrochemical cycle of LiNiMnCoO. <i>Nature Communications</i> , <b>2020</b> , 11, 1252	17.4	50
312	An in-depth study of Sn substitution in Li-rich/Mn-rich NMC as a cathode material for Li-ion batteries. <i>Dalton Transactions</i> , <b>2020</b> , 49, 10486-10497	4.3	4
311	Phase Transformations and Charge Ordering during Li <sup>+</sup> Intercalation into Hollandite-Type TiO <sub>2</sub> Studied by Operando Synchrotron X-ray Powder Diffraction. <i>European Journal of Inorganic Chemistry</i> , <b>2020</b> , 2020, 743-748	2.3	4
310	The Role of Divalent (Zn <sup>2+</sup> /Mg <sup>2+</sup> /Cu <sup>2+</sup> ) Substituents in Achieving Full Capacity of Sodium Layered Oxides for Na-Ion Battery Applications. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1657-1666	9.6	31
309	Structural Polymorphism in NaZn(PO <sub>3</sub> ) <sub>2</sub> Driven by Rotational Order-Disorder Transitions and the Impact of Heterovalent Substitutions on Na-Ion Conductivity. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 6528-6540	5.1	6
308	Solid-electrolyte interphase nucleation and growth on carbonaceous negative electrodes for Li-ion batteries visualized with in situ atomic force microscopy. <i>Scientific Reports</i> , <b>2020</b> , 10, 8550	4.9	28
307	Origins of irreversible capacity loss in hard carbon negative electrodes for potassium-ion batteries. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 194704	3.9	11

306	Anionic and Cationic Redox Processes in $\square$ -Li <sub>2</sub> IrO <sub>3</sub> and Their Structural Implications on Electrochemical Cycling in a Li-Ion Cell. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 2771-2781	3.8	12
305	Exploring the Origin of the Superior Electrochemical Performance of Hydrothermally Prepared Li-Rich Lithium Iron Phosphate Li <sub>1+x</sub> Fe <sub>1</sub> PO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 126-134	3.8	6
304	Reversible electrochemical potassium deintercalation from >4 V positive electrode material K <sub>6</sub> (VO) <sub>2</sub> (V <sub>2</sub> O <sub>3</sub> ) <sub>2</sub> (PO <sub>4</sub> ) <sub>4</sub> (P <sub>2</sub> O <sub>7</sub> ). <i>Solid State Ionics</i> , <b>2020</b> , 357, 115468	3.3	4
303	Solid state chemistry for developing better metal-ion batteries. <i>Nature Communications</i> , <b>2020</b> , 11, 4976	17.4	47
302	Sulfate-Containing Composite Based on Ni-Rich Layered Oxide LiNiMnCoO as High-Performance Cathode Material for Li-ion Batteries. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
301	Monoclinic $\square$ -NaFePOF with Strong Antisite Disorder and Enhanced Na Diffusion. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 16225-16237	5.1	0
300	Electrochemical instability of bis(trifluoromethylsulfonyl)imide based ionic liquids as solvents in high voltage electrolytes for potassium ion batteries. <i>Mendeleev Communications</i> , <b>2020</b> , 30, 679-682	1.9	2
299	Protective Spinel Coating for LiNiMnCoO Cathode for Li-Ion Batteries through Single-Source Precursor Approach. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
298	Magnetic and Intercalation Properties of BaRu <sub>2</sub> O <sub>6</sub> and SrRu <sub>2</sub> O <sub>6</sub> . <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8471-8480	3.4	2
297	Data-driven computational prediction and experimental realization of exotic perovskite-related polar magnets. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	6
296	Microwave-assisted hydrothermal synthesis, structure and electrochemical properties of the Na <sub>3</sub> V <sub>2-y</sub> Fe <sub>y</sub> 2x(PO <sub>4</sub> ) <sub>2</sub> F <sub>3-2x</sub> electrode materials for Na-ion batteries. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 281, 121010	3.3	11
295	Influence of Carbon Coating on Intercalation Kinetics and Transport Properties of LiFePO <sub>4</sub> . <i>ChemElectroChem</i> , <b>2019</b> , 6, 5090-5100	4.3	18
294	$\square$ -NaVP <sub>2</sub> O <sub>7</sub> as a Superior Electrode Material for Na-Ion Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7463-7469	9.6	18
293	Light-Activated Sub-ppm NO <sub>2</sub> Detection by Hybrid ZnO/QD Nanomaterials vs. Charge Localization in Core-Shell QD. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	10
292	Three to tango requires a site-specific substitution: heterometallic molecular precursors for high-voltage rechargeable batteries. <i>Chemical Science</i> , <b>2019</b> , 10, 524-534	9.4	7
291	Bifunctional OER/ORR catalytic activity in the tetrahedral YBaCo <sub>4</sub> O <sub>7.3</sub> oxide. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 330-341	13	23
290	Decoupling the roles of carbon and metal oxides on the electrocatalytic reduction of oxygen on LaSrCoO perovskite composite electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 3327-3338	3.6	17
289	Preparation of gold nanoparticles via direct interaction of tetrachloroauric acid with DNA. <i>Colloid and Polymer Science</i> , <b>2019</b> , 297, 433-444	2.4	2

288	Lithium-Ion Electrochemical Energy Storage: the Current State, Problems, and Development Trends in Russia. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , <b>2019</b> , 66, 219-224	0.8	5
287	The rapid microwave-assisted hydrothermal synthesis of NASICON-structured NaVO (PO)F (0 RSC Advances, <b>2019</b> , 9, 19429-19440	3.7	18
286	□-VPO: A Novel Many Monovalent Ion Intercalation Anode Material for Metal-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12431-12440	9.5	11
285	Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesden-Popper Catalysts for the Oxidation of Urea and Small Alcohols. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2664-2673	13.1	60
284	Tuning the Crystal Structure of A <sub>2</sub> CoPO <sub>4</sub> F (A = Li, Na) Fluoride-Phosphates: A New Layered Polymorph of LiNaCoPO <sub>4</sub> F. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 4365-4372	2.3	5
283	In Situ Electron Diffraction using Liquid-Electrochemical TEM for Monitoring Structural Transformation in Single Crystals Of Cathode Materials for Li-Ion Batteries. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1946-1947	0.5	
282	Structure solution and refinement of metal-ion battery cathode materials using electron diffraction tomography. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2019</b> , 75, 485-494	1.8	8
281	Reaching the Energy Density Limit of Layered O <sub>3</sub> -NaNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> Electrodes via Dual Cu and Ti Substitution. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901785	21.8	61
280	Effect of Concentrated Diglyme-Based Electrolytes on the Electrochemical Performance of Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6051-6059	6.1	28
279	Revealing the Reactivity of the Iridium Trioxide Intermediate for the Oxygen Evolution Reaction in Acidic Media. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5845-5855	9.6	43
278	Toward unlocking the Mn <sup>3+</sup> /Mn <sup>2+</sup> redox pair in alluaudite-type Na <sub>2+2z</sub> Mn <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (SeO <sub>4</sub> ) <sub>x</sub> cathodes for sodium-ion batteries. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 277, 804-810	3.3	1
277	Expanding the Rich Crystal Chemistry of Ruthenium(V) Oxides via the Discovery of BaRu <sub>2</sub> O <sub>6</sub> , Ba <sub>5</sub> Ru <sub>4</sub> O <sub>15</sub> , Ba <sub>2</sub> Ru <sub>3</sub> O <sub>10</sub> , and Sr <sub>2</sub> Ru <sub>3</sub> O <sub>9</sub> (OH) by pH-Controlled Hydrothermal Synthesis. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6295-6305	9.6	7
276	Hydrotriphylites Li <sub>1-x</sub> Fe <sub>1+x</sub> (PO <sub>4</sub> ) <sub>1-y</sub> (OH) <sub>4y</sub> as Cathode Materials for Li-ion Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5035-5046	9.6	10
275	Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. <i>Nature Energy</i> , <b>2019</b> , 4, 977-987	62.3	78
274	Crystal Structures and Low-Dimensional Ferromagnetism of Sodium Nickel Phosphates NaNi(PO) <sub>2</sub> HO and NaNi(PO)OH. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 610-621	5.1	2
273	Synthesis and characterization of bacteriochlorin loaded magnetic nanoparticles (MNP) for personalized MRI guided photosensitizers delivery to tumor. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 537, 132-141	9.3	23
272	The Role of Semilabile Oxygen Atoms for Intercalation Chemistry of the Metal-Ion Battery Polyanion Cathodes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3994-4003	16.4	20
271	An electrochemical cell with sapphire windows for operando synchrotron X-ray powder diffraction and spectroscopy studies of high-power and high-voltage electrodes for metal-ion batteries. <i>Journal of Synchrotron Radiation</i> , <b>2018</b> , 25, 468-472	2.4	14

270	$\square$ Na <sub>1.7</sub> IrO <sub>3</sub> : A Tridimensional Na-Ion Insertion Material with a Redox Active Oxygen Network. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3285-3293	9.6	18
269	Ti surface doping of LiNiMnO positive electrodes for lithium ion batteries.. <i>RSC Advances</i> , <b>2018</b> , 8, 7287-7300	3.7	22
268	Proton Ion Exchange Reaction in Li <sub>3</sub> IrO <sub>4</sub> : A Way to New H <sub>3+x</sub> IrO <sub>4</sub> Phases Electrochemically Active in Both Aqueous and Nonaqueous Electrolytes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702855	21.8	24
267	Improving salt-to-solvent ratio to enable high-voltage electrolyte stability for advanced Li-ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 263, 127-133	6.7	15
266	Role of the Carbon Support on the Oxygen Reduction and Evolution Activities in LaNiO <sub>3</sub> Composite Electrodes in Alkaline Solution. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1549-1558	6.1	29
265	The Role of the Electrode Surface in Na <sub>2</sub> Ir Batteries: Insights in Electrochemical Product Formation and Chemical Growth of NaO <sub>2</sub> . <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701581	21.8	21
264	p-CoOx/n-SnO <sub>2</sub> nanostructures: New highly selective materials for H <sub>2</sub> S detection. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 564-571	8.5	19
263	Spin-induced multiferroicity in the binary perovskite manganite MnO. <i>Nature Communications</i> , <b>2018</b> , 9, 2996	17.4	27
262	Magneto-orbital texture in the perovskite modification of Mn <sub>2</sub> O <sub>3</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	6
261	A three body problem: a genuine heterometallic molecule a mixture of two parent heterometallic molecules. <i>Chemical Science</i> , <b>2018</b> , 9, 4736-4745	9.4	11
260	Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in LaSrNiFeO Ruddlesden-Popper oxides. <i>Nature Communications</i> , <b>2018</b> , 9, 3150	17.4	108
259	Nanoscale Characterization of Growth of Secondary Phases in Off-Stoichiometric CZTS Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 1688-1695	1.3	0
258	Exploring the Peculiarities of LiFePO <sub>4</sub> Hydrothermal Synthesis Using In Situ Calvet Calorimetry. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 879-882	3.5	5
257	Synthesis and structural characterization of a novel Sillb Aurivillius bismuth oxyhalide, PbBi <sub>3</sub> VO <sub>7.5</sub> Cl, and its derivatives. <i>Solid State Sciences</i> , <b>2018</b> , 75, 27-33	3.4	1
256	HSA-Coated Magnetic Nanoparticles for MRI-Guided Photodynamic Cancer Therapy. <i>Pharmaceutics</i> , <b>2018</b> , 10,	6.4	10
255	Reduced Na <sub>2+x</sub> Ti <sub>4</sub> O <sub>9</sub> /C Composite: A Durable Anode for Sodium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8521-8527	9.6	6
254	Anionic Redox Activity in a Newly Zn-Doped Sodium Layered Oxide P <sub>2</sub> -Na <sub>2/3</sub> Mn <sub>1/3</sub> Zn <sub>y</sub> O <sub>2</sub> (0	21.8	104
253	Enhancing Na <sup>+</sup> Extraction Limit through High Voltage Activation of the NASICON-Type Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> Cathode. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5842-5846	6.1	51

252	Revealing pH-Dependent Activities and Surface Instabilities for Ni-Based Electrocatalysts during the Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2884-2890	20.1	44
251	In Situ Electron Diffraction Tomography Using a Liquid-Electrochemical Transmission Electron Microscopy Cell for Crystal Structure Determination of Cathode Materials for Li-Ion batteries. <i>Nano Letters</i> , <b>2018</b> , 18, 6286-6291	11.5	37
250	Chemical Activity of the Peroxide/Oxide Redox Couple: Case Study of BaRuO in Aqueous and Organic Solvents. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3882-3893	9.6	6
249	Incommensurately Modulated Structures and Luminescence Properties of the Ag <sub>x</sub> Sm(2 $\times$ )/3WO <sub>4</sub> (x = 0.286, 0.2) Scheelites as Thermographic Phosphors. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4788-4798	9.6	8
248	Reversible facile Rb <sup>+</sup> and K <sup>+</sup> ions de/insertion in a KTiOPO <sub>4</sub> -type RbVPO <sub>4</sub> F cathode material. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 14420-14430	13	26
247	Crystal Structure and Li-Ion Transport in Li <sub>2</sub> CoPO <sub>4</sub> F High-Voltage Cathode Material for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3194-3202	3.8	30
246	Effect of cation vacancies on the crystal structure and luminescent properties of Ca <sub>0.85</sub> Eu <sub>0.15</sub> Gd <sub>x</sub> WO <sub>4</sub> (0 ≤ x ≤ 0.567) scheelite-based red phosphors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 706, 358-369	5.7	5
245	Evidence for anionic redox activity in a tridimensional-ordered Li-rich positive electrode Li <sub>1-x</sub> Li <sub>2</sub> O. <i>Nature Materials</i> , <b>2017</b> , 16, 580-586	27	234
244	Magnetism of natural composite of halloysite clay nanotubes Al <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> and amorphous hematite Fe <sub>2</sub> O <sub>3</sub> . <i>Materials Characterization</i> , <b>2017</b> , 129, 179-185	3.9	10
243	Doping of Bi <sub>4</sub> Fe <sub>5</sub> O <sub>13</sub> F with pentagonal Cairo lattice with Cr and Mn: Synthesis, structure and magnetic properties. <i>Materials Research Bulletin</i> , <b>2017</b> , 87, 54-60	5.1	1
242	Supramolecular thermoplastics and thermoplastic elastomer materials with self-healing ability based on oligomeric charged triblock copolymers. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e385-e385	10.3	22
241	Crystal Structure, Defects, Magnetic and Dielectric Properties of the Layered BiTiFeO Perovskite-Anatase Intergrowths. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 931-942	5.1	4
240	Room Temperature Magnetically Ordered Polar Corundum GaFeO Displaying Magnetoelectric Coupling. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1520-1531	16.4	21
239	Luminescence Property Upgrading via the Structure and Cation Changing in Ag <sub>x</sub> Eu(2 $\times$ )/3WO <sub>4</sub> and Ag <sub>x</sub> Gd(2 $\times$ )/3Eu <sub>0.3</sub> WO <sub>4</sub> . <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8811-8823	9.6	12
238	Denticity and Mobility of the Carbonate Groups in AMCOF Fluorocarbonates: A Study on KMnCOF and High Temperature KCaCOF Polymorph. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13132-13139	5.1	2
237	Spin-reorientation transitions in the Cairo pentagonal magnet Bi <sub>4</sub> Fe <sub>5</sub> O <sub>13</sub> F. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	10
236	Molybdenum Oxide Nitrides of the Mo(O,N, $\delta$ ) Type: On the Way to MoO. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 8782-8792	5.1	3
235	Effect of the electrode/electrolyte interface structure on the potassium-ion diffusional and charge transfer rates: towards a high voltage potassium-ion battery. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 814-824	6.7	51

234	Synthesis of Li-Rich NMC: A Comprehensive Study. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9923-9936	9.6	68
233	Cubic lead perovskite PbMoO <sub>3</sub> with anomalous metallic behavior. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	10
232	Quantitative electron diffraction tomography for the structure solution of cathode materials for Li-ion batteries <b>2016</b> , 790-791		
231	ZnTaON: Stabilized High-Temperature LiNbO-type Structure. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15950-15955	16.4	22
230	Direct Observation of Ferroelectric Domain Walls in LiNbO <sub>3</sub> : Wall-Meanders, Kinks, and Local Electric Charges. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7599-7604	15.6	53
229	Study of Hydrogen Peroxide Reactions on Manganese Oxides as a Tool To Decode the Oxygen Reduction Reaction Mechanism. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1667-1677	4.3	28
228	Direct Observation of Luminescent Silver Clusters Confined in Faujasite Zeolites. <i>ACS Nano</i> , <b>2016</b> , 10, 7604-11	16.7	45
227	Antisite Disorder and Bond Valence Compensation in Li <sub>2</sub> FePO <sub>4</sub> F Cathode for Li-Ion Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7578-7581	9.6	17
226	Strong Oxygen Participation in the Redox Governing the Structural and Electrochemical Properties of Na-Rich Layered Oxide Na <sub>2</sub> IrO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8278-8288	9.6	98
225	Evaluation of Ce-doped Pr <sub>2</sub> CuO <sub>4</sub> for potential application as a cathode material for solid oxide fuel cells. <i>RSC Advances</i> , <b>2016</b> , 6, 101029-101037	3.7	12
224	Terapascal static pressure generation with ultrahigh yield strength nanodiamond. <i>Science Advances</i> , <b>2016</b> , 2, e1600341	14.3	118
223	Water electrolysis on La(1-x)Sr(x)CoO(3- $\delta$ ) perovskite electrocatalysts. <i>Nature Communications</i> , <b>2016</b> , 7, 11053	17.4	550
222	Insertion compounds and composites made by ball milling for advanced sodium-ion batteries. <i>Nature Communications</i> , <b>2016</b> , 7, 10308	17.4	156
221	Switching between solid solution and two-phase regimes in the Li <sub>1-x</sub> Fe <sub>1-y</sub> Mn <sub>y</sub> PO <sub>4</sub> cathode materials during lithium (de)insertion: combined PITT, in situ XRPD and electron diffraction tomography study. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 149-157	6.7	35
220	Rationalizing the Influence of the Mn(IV)/Mn(III) Red-Ox Transition on the Electrocatalytic Activity of Manganese Oxides in the Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 187, 161-172	6.7	75
219	A pseudo-tetragonal tungsten bronze superstructure: a combined solution of the crystal structure of K <sub>6.4</sub> (Nb,Ta)(36.3)O <sub>94</sub> with advanced transmission electron microscopy and neutron diffraction. <i>Dalton Transactions</i> , <b>2016</b> , 45, 973-9	4.3	11
218	Topochemical Nitridation with Anion Vacancy-Assisted N(3-)/O(2-) Exchange. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3211-7	16.4	37
217	Interface control by chemical and dimensional matching in an oxide heterostructure. <i>Nature Chemistry</i> , <b>2016</b> , 8, 347-53	17.6	43



216	Synthesis, structure and electrochemical properties of LiNaCo <sub>0.5</sub> Fe <sub>0.5</sub> PO <sub>4</sub> F fluoride-phosphate. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 242, 70-77	3.3	4
215	Synthesis, structure and magnetic ordering of the mullite-type Bi <sub>2</sub> Fe <sub>(4-x)</sub> Cr <sub>x</sub> O <sub>9</sub> solid solutions with a frustrated pentagonal Cairo lattice. <i>Dalton Transactions</i> , <b>2016</b> , 45, 1192-200	4.3	10
214	AVPO <sub>4</sub> F (A = Li, K): A 4 V Cathode Material for High-Power Rechargeable Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 411-415	9.6	86
213	Bi <sub>(3n+1)</sub> Ti <sub>7</sub> Fe <sub>(3n-3)</sub> O <sub>(9n+11)</sub> Homologous Series: Slicing Perovskite Structure with Planar Interfaces Containing Anatase-like Chains. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 1245-57	5.1	5
212	Crystal structure solution of K <sub>6.4</sub> (Nb,Ta) <sub>36.3</sub> O <sub>94</sub> compound, by using advanced TEM <b>2016</b> , 989-990		
211	Determination of the platelet structure in natural diamond by ADF-STEM <b>2016</b> , 331-332		1
210	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO <sub>2</sub> upon Li Extraction and Insertion. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7079-89	5.1	18
209	TEM and AES investigations of the natural surface nano-oxide layer of an AISI 316L stainless steel microfibre. <i>Journal of Microscopy</i> , <b>2016</b> , 264, 207-214	1.9	8
208	Relationship between the Size of Magnetic Nanoparticles and Efficiency of MRT Imaging of Cerebral Glioma in Rats. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2016</b> , 161, 292-5	0.8	4
207	UV effect on NO <sub>2</sub> sensing properties of nanocrystalline In <sub>2</sub> O <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 231, 491-496	8.5	44
206	Charge-ordering transition in iron oxide Fe <sub>4</sub> O <sub>5</sub> involving competing dimer and trimer formation. <i>Nature Chemistry</i> , <b>2016</b> , 8, 501-8	17.6	44
205	Pb <sub>2</sub> MnTeO <sub>6</sub> Double Perovskite: An Antipolar Anti-ferromagnet. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 4320-9	5.1	16
204	Visible light activation of room temperature NO <sub>2</sub> gas sensors based on ZnO, SnO <sub>2</sub> and In <sub>2</sub> O <sub>3</sub> sensitized with CdSe quantum dots. <i>Thin Solid Films</i> , <b>2016</b> , 618, 253-262	2.2	42
203	Synergy between transmission electron microscopy and powder diffraction: application to modulated structures. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2015</b> , 71, 127-43	1.8	13
202	Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A1341-A1351	3.9	36
201	Li <sub>2</sub> Cu <sub>2</sub> O(SO <sub>4</sub> ) <sub>2</sub> : a Possible Electrode for Sustainable Li-Based Batteries Showing a 4.7 V Redox Activity vs Li <sup>+</sup> /Li <sup>0</sup> . <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3077-3087	9.6	25
200	Oxidation potential in the Earth's lower mantle as recorded by ferropericlase inclusions in diamond. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 417, 49-56	5.3	35
199	Layered Oxychlorides [PbBiO <sub>2</sub> ] <sub>n</sub> [An+1BnO <sub>3n</sub> ]Cl <sub>2</sub> (A = Pb/Bi, B = Fe/Ti): Intergrowth of the Hematophanite and Sillen Phases. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2946-2956	9.6	13

198	Understanding the roles of anionic redox and oxygen release during electrochemical cycling of lithium-rich layered Li <sub>4</sub> FeSbO <sub>6</sub> . <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4804-14	16.4	128
197	Using electron vortex beams to determine chirality of crystals in transmission electron microscopy. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	45
196	KEu(MoO <sub>4</sub> ) <sub>2</sub> : Polymorphism, Structures, and Luminescent Properties. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5519-5530	9.6	22
195	Superspace crystallography: a key to the chemistry and properties. <i>IUCrJ</i> , <b>2015</b> , 2, 137-54	4.7	20
194	Structural, electrochemical and magnetic properties of a novel KFeSO <sub>4</sub> F polymorph. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19754-19764	13	25
193	Synthesis and cation distribution in the new bismuth oxyhalides with the Sillb-Aurivillius intergrowth structures. <i>Dalton Transactions</i> , <b>2015</b> , 44, 20568-76	4.3	8
192	Origin of voltage decay in high-capacity layered oxide electrodes. <i>Nature Materials</i> , <b>2015</b> , 14, 230-8	27	612
191	Soft chemical control of the crystal and magnetic structure of a layered mixed valent manganite oxide sulfide. <i>APL Materials</i> , <b>2015</b> , 3, 041520	5.7	6
190	Materials Science Applications of Aberration Corrected TEM and/or STEM. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1131-1132	0.5	
189	Trapping of Oxygen Vacancies at Crystallographic Shear Planes in Acceptor-Doped Pb-Based Ferroelectrics. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 15000-15003	3.6	
188	Trapping of Oxygen Vacancies at Crystallographic Shear Planes in Acceptor-Doped Pb-Based Ferroelectrics. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14787-90	16.4	7
187	Mixed-valent, heteroleptic homometallic diketonates as templates for the design of volatile heterometallic precursors. <i>Chemical Science</i> , <b>2015</b> , 6, 2835-2842	9.4	18
186	Visualization of O-O peroxo-like dimers in high-capacity layered oxides for Li-ion batteries. <i>Science</i> , <b>2015</b> , 350, 1516-21	33.3	514
185	Core-shell-corona doxorubicin-loaded superparamagnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles for cancer theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 1073-80	6	48
184	Optical and photoelectrical properties of nanocrystalline indium oxide with small grains. <i>Thin Solid Films</i> , <b>2015</b> , 595, 25-31	2.2	26
183	Novel Complex Stacking of Fully-Ordered Transition Metal Layers in Li <sub>4</sub> FeSbO <sub>6</sub> Materials. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1699-1708	9.6	34
182	VEGF-targeted magnetic nanoparticles for MRI visualization of brain tumor. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 825-33	6	80
181	Nanoscale phase separation in perovskites revisited. <i>Nature Materials</i> , <b>2014</b> , 13, 216-7	27	9

180	Pb <sub>5</sub> Fe <sub>3</sub> TiO <sub>11</sub> Cl: A rare example of Ti(IV) in a square pyramidal oxygen coordination. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 215, 245-252	3.3	4
179	Multiple Twinning As a Structure Directing Mechanism in Layered Rock-Salt-Type Oxides: NaMnO <sub>2</sub> Polymorphism, Redox Potentials, and Magnetism. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3306-3315	9.6	45
178	Atomic structure of defects in anion-deficient perovskite-based ferrites with a crystallographic shear structure. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 2171-80	5.1	7
177	Pd <sub>5</sub> InSe and Pd <sub>8</sub> In <sub>2</sub> Se [New metal-rich homological selenides with 2D palladium/indium fragments: Synthesis, structure and bonding. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 589, 48-55	5.7	15
176	Design of new electrode materials for Li-ion and Na-ion batteries from the bloedite mineral Na <sub>2</sub> Mg(SO <sub>4</sub> ) <sub>2</sub> ·4H <sub>2</sub> O. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2671-2680	13	73
175	Facile synthesis of Ba(1-x)K(x)Fe <sub>2</sub> As <sub>2</sub> superconductors via hydride route. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16932-9	16.4	22
174	Oxygen-driven competition between low-dimensional structures of Sr <sub>3</sub> CoMO <sub>6</sub> and Sr <sub>3</sub> CoMO <sub>7</sub> with M = Ru, Ir. <i>Dalton Transactions</i> , <b>2014</b> , 43, 13883-91	4.3	10
173	A hard oxide semiconductor with a direct and narrow bandgap and switchable p-n electrical conduction. <i>Advanced Materials</i> , <b>2014</b> , 26, 8185-91	24	38
172	Peierls distortion, magnetism, and high hardness of manganese tetraboride. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	47
171	Two new arsenides, Eu <sub>7</sub> Cu <sub>44</sub> As <sub>23</sub> and Sr <sub>7</sub> Cu <sub>44</sub> As <sub>23</sub> , with a new filled variety of the BaHg <sub>11</sub> structure. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 11173-84	5.1	11
170	Pressure-Collapsed Amorphous Mg(BH <sub>4</sub> ) <sub>2</sub> : An Ultradense Complex Hydride Showing a Reversible Transition to the Porous Framework. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23402-23408	3.8	30
169	An oxysulfate Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> electrode for sustainable Li-based batteries. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12658-66	16.4	14
168	Reply to Comment on Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li <sub>3x</sub> Nd <sub>2/3-3x</sub> TiO <sub>3</sub> Perovskites. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1288-1288	9.6	2
167	Visible light activated room temperature gas sensors based on nanocrystalline ZnO sensitized with CdSe quantum dots. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 205, 305-312	8.5	54
166	Sr <sub>2</sub> Bi <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub> ·2a Bi <sub>2</sub> oxycarbonate with an original 10L structure. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 10266-75	5.1	0
165	Cation ordering and flexibility of the BO <sub>4</sub> tetrahedra in incommensurately modulated CaEu(BO <sub>3</sub> ) <sub>2</sub> (B = Mo, W) scheelites. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 9407-15	5.1	42
164	Surface processes during purification of InP quantum dots. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 1220-5	3	5
163	Energy transfer in Eu <sup>3+</sup> doped scheelites: use as thermographic phosphor. <i>Optics Express</i> , <b>2014</b> , 22 Suppl 3, A961-72	3.3	68

162	Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable p <i>n</i> Electrical Conduction (Adv. Mater. 48/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 8184-8184	24	1
161	Crystal Structure and Luminescent Properties of R <sub>2</sub> Eu <sub>x</sub> (MoO <sub>4</sub> ) <sub>3</sub> (R = Gd, Sm) Red Phosphors. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 7124-7136	9.6	20
160	Crystal, magnetic and dielectric studies of the 2D antiferromagnet: NaMnO <sub>2</sub> <b>2014</b> ,		1
159	Effect of lone-electron-pair cations on the orientation of crystallographic shear planes in anion-deficient perovskites. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 10009-20	5.1	14
158	New anion-conducting fluorite-like solid solution Bi <sub>1-x</sub> Te <sub>x</sub> (O,F) <sub>2</sub> + $\delta$ (0.28 Russian Journal of Inorganic Chemistry, <b>2013</b> , 58, 749-755	1.5	
157	Discovery of a superhard iron tetraboride superconductor. <i>Physical Review Letters</i> , <b>2013</b> , 111, 157002	7.4	155
156	Nanocrystalline ZnO(Ga): Paramagnetic centers, surface acidity and gas sensor properties. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 182, 555-564	8.5	58
155	Pd nanoparticles on SnO <sub>2</sub> (Sb) whiskers: Aggregation and reactivity in CO detection. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 565, 6-10	5.7	15
154	Incommensurate Modulation and Luminescence in the CaGd <sub>2</sub> (1-x)Eu <sub>2x</sub> (MoO <sub>4</sub> ) <sub>4</sub> (1-y)(WO <sub>4</sub> ) <sub>4y</sub> (0 ≤ x ≤ 1, 0 ≤ y ≤ 1) Red Phosphors. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4387-4395	9.6	73
153	Synthesis, structure, and transport properties of type-I derived clathrate Ge <sub>(46-x)</sub> P <sub>(x)</sub> Se <sub>(8-y)</sub> (x = 15.4(1); y = 0-2.65) with diverse host-guest bonding. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 577-88	5.1	16
152	Photoconductivity of nanocrystalline SnO <sub>2</sub> sensitized with colloidal CdSe quantum dots. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 1005-1010	7.1	19
151	Layered oxygen vacancy ordering in Nb-doped SrCo <sub>1-x</sub> Fe <sub>x</sub> O <sub>3-<math>\delta</math></sub> perovskite. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2013</b> , 228, 28-34	1	8
150	Structural and magnetic phase transitions in the A <sub>(n)</sub> B <sub>(n)</sub> O <sub>(3n-2)</sub> anion-deficient perovskites Pb <sub>2</sub> Ba <sub>2</sub> BiFe <sub>5</sub> O <sub>13</sub> and Pb <sub>(1.5)</sub> Ba <sub>(2.5)</sub> Bi <sub>2</sub> Fe <sub>6</sub> O <sub>16</sub> . <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 7834-43	5.1	9
149	Perovskite-like Mn <sub>2</sub> O <sub>3</sub> : A Path to New Manganites. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1534-1538	3.6	9
148	Perovskite-like Mn <sub>2</sub> O <sub>3</sub> : a path to new manganites. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1494-8	16.4	82
147	Structure and magnetic properties of a new anion-deficient perovskite Pb <sub>2</sub> Ba <sub>2</sub> BiFe <sub>4</sub> ScO <sub>13</sub> with crystallographic shear structure. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 3459-3465	5.1	2
146	Preparation, structure, and electrochemistry of layered polyanionic hydroxysulfates: LiMSO <sub>4</sub> OH (M = Fe, Co, Mn) electrodes for Li-ion batteries. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3653-61	16.4	63
145	Direct evidence of stacking disorder in the mixed ionic-electronic conductor Sr <sub>4</sub> Fe <sub>6</sub> O <sub>12</sub> + $\delta$ ACS <i>Nano</i> , <b>2013</b> , 7, 3078-85	16.7	5

144	Cs <sub>7</sub> Nd <sub>11</sub> (SeO <sub>3</sub> ) <sub>12</sub> Cl <sub>16</sub> : first noncentrosymmetric structure among alkaline-metal lanthanide selenite halides. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3611-9	5.1	12
143	Degradation process of lead chromate in paintings by Vincent van Gogh studied by means of spectromicroscopic methods. 3. Synthesis, characterization, and detection of different crystal forms of the chrome yellow pigment. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 851-9	7.8	80
142	Li-ion diffusion in Li <sub>x</sub> Nb <sub>9</sub> PO <sub>25</sub> . <i>Electrochimica Acta</i> , <b>2013</b> , 89, 262-269	6.7	18
141	Crystal structure and magnetic properties of the Cr-doped spiral antiferromagnet BiMnFe <sub>2</sub> O <sub>6</sub> . <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 2993-2997	5.1	3
140	Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li <sub>3x</sub> Nd <sub>2/3</sub> TiO <sub>3</sub> Perovskites. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2670-2683	9.6	27
139	Cationic clathrate of type-III Ge(172-x)P(x)Te(y) (y ≥ 1.5, x ≥ 2y): synthesis, crystal structure and thermoelectric properties. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 8272-9	5.1	4
138	Role of PdO <sub>x</sub> and RuO <sub>y</sub> Clusters in Oxygen Exchange between Nanocrystalline Tin Dioxide and the Gas Phase. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 23858-23867	3.8	23
137	Spatial separation of covalent, ionic, and metallic interactions in Mg <sub>11</sub> Rh <sub>18</sub> B <sub>8</sub> and Mg <sub>3</sub> Rh <sub>5</sub> B <sub>3</sub> . <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 17860-70	4.8	7
136	Frustrated pentagonal Cairo lattice in the non-collinear antiferromagnet Bi <sub>4</sub> Fe <sub>5</sub> O <sub>13</sub> F. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	16
135	Oxygen exchange on nanocrystalline tin dioxide modified by palladium. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 186, 1-8	3.3	35
134	Bi <sub>0.75</sub> Sr <sub>0.25</sub> FeO <sub>3</sub> Revealing order/disorder phenomena by combining diffraction techniques. <i>Solid State Communications</i> , <b>2012</b> , 152, 331-336	1.6	5
133	Oxidation state and chemical shift investigation in transition metal oxides by EELS. <i>Ultramicroscopy</i> , <b>2012</b> , 116, 24-33	3.1	348
132	Structural requirements in lithium cobalt oxides for the catalytic oxidation of water. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1616-9	16.4	139
131	Crystal Structure of a Lightweight Borohydride from Submicrometer Crystallites by Precession Electron Diffraction. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 3401-3405	9.6	17
130	Understanding and promoting the rapid preparation of the triplite-phase of LiFeSO <sub>4</sub> F for use as a large-potential Fe cathode. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18380-7	16.4	45
129	Synthesis, crystal structure, transport, and magnetic properties of novel ternary copper phosphides, A <sub>2</sub> Cu <sub>6</sub> P <sub>5</sub> (A = Sr, Eu) and EuCu <sub>4</sub> P <sub>3</sub> . <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8948-55	5.1	13
128	Short-range order of Br and three-dimensional magnetism in (CuBr)LaNb <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	7
127	Expanding the Ruddlesden-Popper manganite family: the N = 3 La <sub>(3.2)</sub> Ba <sub>(0.8)</sub> Mn <sub>3</sub> O <sub>10</sub> member. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 11487-92	5.1	2

126	Structure and high-temperature properties of the $(\text{Sr,Ca,Y})(\text{Co, Mn})\text{O}_{3-x}$ perovskites [perspective cathode materials for IT-SOFC]. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 192, 186-194	3.3	6
125	Photocatalytic process optimisation for ethylene oxidation. <i>Chemical Engineering Journal</i> , <b>2012</b> , 209, 494-500	14.7	19
124	Electron Diffraction of Commensurately and Incommensurately Modulated Materials. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2012</b> , 409-417	0.2	
123	Implementation of micro-ball nanodiamond anvils for high-pressure studies above 6 Mbar. <i>Nature Communications</i> , <b>2012</b> , 3, 1163	17.4	197
122	$\text{Sr}_2\text{GaScO}_5$ , $\text{Sr}_{10}\text{Ga}_6\text{Sc}_4\text{O}_{25}$ , and $\text{SrGa}_{0.75}\text{Sc}_{0.25}\text{O}_{2.5}$ : a play in the octahedra to tetrahedra ratio in oxygen-deficient perovskites. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 1094-103	5.1	19
121	Catalytic impact of $\text{RuO}_x$ clusters to high ammonia sensitivity of tin dioxide. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 175, 186-193	8.5	21
120	A polar corundum oxide displaying weak ferromagnetism at room temperature. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 3737-47	16.4	59
119	Local Oxygen-Vacancy Ordering and Twinned Octahedral Tilting Pattern in the $\text{Bi}_{0.81}\text{Pb}_{0.19}\text{FeO}_{2.905}$ Cubic Perovskite. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1378-1385	9.6	31
118	Structural Requirements in Lithium Cobalt Oxides for the Catalytic Oxidation of Water. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1648-1651	3.6	22
117	$(\text{CuCl})\text{LaTa}_2\text{O}_7$ and quantum phase transition in the $(\text{CuX})\text{LaM}_2\text{O}_7$ family ( $\text{X}=\text{Cl, Br}$ ; $\text{M}=\text{Nb, Ta}$ ). <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	10
116	Layered perovskite-like $\text{Pb}_2\text{Fe}_2\text{O}_5$ structure as a parent matrix for the nucleation and growth of crystallographic shear planes. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 4978-86	5.1	16
115	Spiral ground state against ferroelectricity in the frustrated magnet $\text{BiMnFe}_2\text{O}_6$ . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	11
114	Solving the Structure of Li Ion Battery Materials with Precession Electron Diffraction: Application to $\text{Li}_2\text{CoPO}_4\text{F}$ . <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3540-3545	9.6	49
113	Structure and Magnetic Properties of $\text{BiFe}_{0.75}\text{Mn}_{0.25}\text{O}_3$ Perovskite Prepared at Ambient and High Pressure. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4505-4514	9.6	66
112	New anion-conducting solid solutions $\text{Bi}_{1-x}\text{Te}_x(\text{O,F})_{2+x}$ ( $x>0.5$ ) and glass-ceramic material on their base. <i>Journal of Fluorine Chemistry</i> , <b>2011</b> , 132, 1110-1116	2.1	3
111	$\text{Pb}_{2.85}\text{Ba}_{2.15}\text{Fe}_4\text{SnO}_{13}$ : A new member of the $\text{AnBnO}_{3n-x}$ anion-deficient perovskite-based homologous series. <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 3150-3157	3.3	8
110	Antiferroelectric $(\text{Pb,Bi})_{1-x}\text{Fe}_{1+x}\text{O}_3$ Perovskites Modulated by Crystallographic Shear Planes. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 255-265	9.6	30
109	Uniform Patterns of Fe-Vacancy Ordering in the $\text{K}_x(\text{Fe,Co})_2\text{Se}_2$ Superconductors. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4311-4316	9.6	19

108	Tysonite-type solid solutions in the BiF <sub>3</sub> -BiOF-BaF <sub>2</sub> system: Polymorphism and anionic conductivity. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 313-324	1.5	3
107	Interactions in the NdF <sub>3</sub> -Nd <sub>2</sub> O <sub>3</sub> -MF <sub>2</sub> (M = Ba, Sr) systems. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1625-1633	1.5	1
106	Structural Evolution of the BiFeO <sub>3</sub>   aFeO <sub>3</sub> System. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 285-292	9.6	148
105	The high-temperature polymorphs of K <sub>3</sub> AlF <sub>6</sub> . <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 7792-801	5.1	26
104	Extension of the clathrate family: the type X clathrate Ge <sub>79</sub> P <sub>29</sub> S <sub>18</sub> Te <sub>6</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2371-4	16.4	24
103	Semiclathrates of the Ge-P-Te system: synthesis and crystal structures. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 5719-26	4.8	17
102	Fluorinated heterometallic $\beta$ -diketonates as volatile single-source precursors for the synthesis of low-valent mixed-metal fluorides. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 692-4	16.4	35
101	Synthesis, Structure and Superconducting/Magnetic Properties of Cu- and Mn-based Oxyfluorides <b>2010</b> , 383-422		1
100	Frustrated square lattice with spatial anisotropy: Crystal structure and magnetic properties of PbZnVO(PO <sub>4</sub> ) <sub>2</sub> . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	27
99	Interplay of atomic displacements in the quantum magnet (CuCl)LaNb <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	15
98	Microstructural Aspects of the Degradation Behavior of SnO <sub>2</sub> -Based Anodes for Aluminum Electrolysis. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, C178	3.9	4
97	Crystal structure and phase transitions in Sr <sub>3</sub> WO <sub>6</sub> . <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 6058-65	5.1	28
96	BiMnFe <sub>2</sub> O <sub>6</sub> , a polysynthetically twinned hcp MO structure. <i>Chemical Science</i> , <b>2010</b> , 1, 751	9.4	13
95	Slicing the perovskite structure with crystallographic shear planes: the A <sub>(n)</sub> B <sub>(n)</sub> O <sub>(3n-2)</sub> homologous series. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 9508-16	5.1	22
94	New perovskite-based manganite Pb <sub>2</sub> Mn <sub>2</sub> O <sub>5</sub> . <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 2190-2195	3.3	8
93	Coupled anion and cation ordering in Sr <sub>3</sub> RFe <sub>4</sub> O <sub>10.5</sub> (R=Y, Ho, Dy) anion-deficient perovskites. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 2845-2854	3.3	10
92	Synthesis and crystal structure of the new complex oxide Ca <sub>7</sub> Mn <sub>2.14</sub> Ga <sub>5.86</sub> O <sub>17.93</sub> . <i>Russian Chemical Bulletin</i> , <b>2010</b> , 59, 706-711	1.7	2
91	Mixed Tellurides Ni <sub>3</sub> □GaTe <sub>2</sub> (0 ≤ □ ≤ 0.65): Crystal and Electronic Structures, Properties, and Nickel Deficiency Effects on Vacancy Ordering. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 1395-1404 <sup>2-3</sup>		7

90	The local structure and composition of Ba <sub>4</sub> Nb <sub>2</sub> O <sub>9</sub> -based oxycarbonates. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 1823-1828	3.3	14
89	Direct space structure solution from precession electron diffraction data: Resolving heavy and light scatterers in Pb(13)Mn(9)O(25). <i>Ultramicroscopy</i> , <b>2010</b> , 110, 881-90	3.1	23
88	Influence of antimony doping on structure and conductivity of tin oxide whiskers. <i>Thin Solid Films</i> , <b>2009</b> , 518, 1359-1362	2.2	10
87	Synthesis, crystal structure and magnetic properties of the Sr <sub>2</sub> Al <sub>0.78</sub> Mn <sub>1.22</sub> O <sub>5.2</sub> anion-deficient layered perovskite. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 356-363	3.3	14
86	Original close-packed structure and magnetic properties of the Pb <sub>4</sub> Mn <sub>9</sub> O <sub>20</sub> manganite. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 2231-2238	3.3	5
85	A New Mixed-Valence Ferrite with a Cubic Structure, YBaFe <sub>4</sub> O <sub>7</sub> : Spin-Glass-Like Behavior. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1116-1122	9.6	41
84	The crystal structure of alpha-K <sub>3</sub> AlF <sub>6</sub> : elpasolites and double perovskites with broken corner-sharing connectivity of the octahedral framework. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 9336-44	5.1	26
83	. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2000-2001	9.6	4
82	New class of single-source precursors for the synthesis of main group-transition metal oxides: heterobimetallic Pb-Mn beta-diketonates. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 8480-8	5.1	34
81	Topotactic reduction as a route to new close-packed anion deficient perovskites: structure and magnetism of 4H-BaMnO(2+x). <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10598-604	16.4	28
80	Advanced electron microscopy and its possibilities to solve complex structures: application to transition metal oxides. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2660		10
79	Local structure of perovskite-based Pb <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> . <i>Solid State Sciences</i> , <b>2008</b> , 10, 382-389	3.4	28
78	Synthesis, Structure, and Magnetic Properties of SrLaMnSbO <sub>6</sub> : A New B-Site Ordered Double Perovskite. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4653-4660	9.6	26
77	Target-aimed synthesis of anion-deficient perovskites. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 8543-52	5.1	36
76	Superspace Description, Crystal Structures, and Electric Conductivity of the Ba <sub>4</sub> In <sub>6</sub> Mg <sub>x</sub> O <sub>13</sub> /2 Solid Solutions. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4457-4467	9.6	17
75	Crystal structure, phase transition, and magnetic ordering in perovskitelike Pb <sub>2</sub> BaxFe <sub>2</sub> O <sub>5</sub> solid solutions. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	27
74	. <i>Physics-Uspexhi</i> , <b>2008</b> , 51, 180	2.8	9
73	Synthesis and characterization of oxygen-deficient oxides BaCo <sub>1-x</sub> Y <sub>x</sub> O <sub>3</sub> , x=0.15, 0.25 and 0.33, with the perovskite structure. <i>Solid State Ionics</i> , <b>2008</b> , 179, 1885-1889	3.3	12



72	Tetrahedral Chain Order in the Sr <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> Brownmillerite. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 7188-7194	9.6	77
71	Chemistry and Structure of Anion-Deficient Perovskites with Translational Interfaces. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1807-1813	3.8	37
70	Synthesis and crystal structure of the Sr <sub>2</sub> Al <sub>1.07</sub> Mn <sub>0.93</sub> O <sub>5</sub> brownmillerite. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 692-698		35
69	Synthesis, Crystal Structure, and Magnetic Properties of Sr <sub>1.31</sub> Co <sub>0.63</sub> Mn <sub>0.37</sub> O <sub>3</sub> : A Derivative of the Incommensurate Composite Hexagonal Perovskite Structure. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 6158-6167	9.6	6
68	Crystal structure and chemical bonding in tin(II) acetate. <i>Polyhedron</i> , <b>2007</b> , 26, 5365-5369	2.7	10
67	Ba <sub>2.1</sub> Bi <sub>0.9</sub> (O, F) <sub>6.8</sub> A new ordered anion-excess fluorite. <i>Materials Research Bulletin</i> , <b>2007</b> , 42, 861-869	5.1	5
66	Lanthanum-strontium cuprate: A promising cathodic material for solid oxide fuel cells. <i>Russian Journal of Electrochemistry</i> , <b>2007</b> , 43, 436-442	1.2	6
65	[SrF <sub>0.8</sub> (OH) <sub>0.2</sub> ] <sub>2.526</sub> [Mn <sub>6</sub> O <sub>12</sub> ]: Columnar Rock-Salt Fragments Inside the Todorokite-Type Tunnel Structure. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1181-1189	9.6	9
64	Synthesis and crystal structure of the palladium oxides NaPd <sub>3</sub> O <sub>4</sub> , Na <sub>2</sub> PdO <sub>3</sub> and K <sub>3</sub> Pd <sub>2</sub> O <sub>4</sub> . <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 1566-1574	3.3	29
63	Ternary magnesium rhodium boride Mg <sub>2</sub> Rh <sub>1-x</sub> B <sub>6+2x</sub> with a modified Y <sub>2</sub> ReB <sub>6</sub> -type crystal structure. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 7378-86	5.1	14
62	Mg <sub>8</sub> Rh <sub>4</sub> B A new type of boron stabilized Ti <sub>2</sub> Ni structure. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 2751-2760	3.3	10
61	Crystallographic shear structures as a route to anion-deficient perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 6697-700	16.4	49
60	Crystallographic Shear Structures as a Route to Anion-Deficient Perovskites. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 6849-6852	3.6	9
59	Coupled Cation and Charge Ordering in the CaMn <sub>3</sub> O <sub>6</sub> Tunnel Structure. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5530-5536	9.6	35
58	Phase transitions in K <sub>3</sub> AlF <sub>6</sub> . <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 421-428	3.3	16
57	Crystal structure and properties of the Na <sub>1-x</sub> Ru <sub>2</sub> O <sub>4</sub> phase. <i>Russian Chemical Bulletin</i> , <b>2006</b> , 55, 1717-1722		5
56	Sn <sub>2-2x</sub> Sb <sub>x</sub> FexO <sub>4</sub> Solid Solutions as Possible Inert Anode Materials in Aluminum Electrolysis. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 3004-3011	9.6	9
55	Transmission Electron Microscopic Study of the Defect Structure in Sr <sub>4</sub> Fe <sub>6</sub> O <sub>12+δ</sub> Compounds with Variable Oxygen Content. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4717-4726	9.6	21

54	Synthesis, Cation Ordering, and Magnetic Properties of the $(\text{Sb}_{1-x}\text{Pb}_x)_2(\text{Mn}_{1-y}\text{Sb}_y)\text{O}_4$ Solid Solutions with the $\text{Sb}_2\text{MnO}_4$ -Type Structure. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1123-1134	9.6	17
53	$\text{Ca}_6.3\text{Mn}_3\text{Ga}_4.4\text{Al}_{1.3}\text{O}_{18}$ novel complex oxide with 3D tetrahedral framework. <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 3137-3144	3.3	6
52	Fluorite-like phases in the $\text{BaF}_2\text{BiF}_3\text{Bi}_2\text{O}_3$ system Synthesis, conductivity and defect clustering. <i>Materials Research Bulletin</i> , <b>2005</b> , 40, 821-830	5.1	6
51	Compositionally induced phase transition in the $\text{Ca}_2\text{MnGa}_{1-x}\text{Al}_x\text{O}_5$ solid solutions: Ordering of tetrahedral chains in brownmillerite structure. <i>Solid State Sciences</i> , <b>2005</b> , 7, 801-811	3.4	41
50	Transmission electron microscopy and structural phase transitions in anion-deficient perovskite-based oxides. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2005</b> , 61, 77-92		18
49	Synthesis and crystal structure of novel $\text{CaR}_2\text{MnSnO}_6$ (R = La, Pr, Nd, Sm, Dy) double perovskites. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 4899		8
48	Oxygen and fluorine doping in $\text{Sr}_2\text{MnGaO}_5$ brownmillerite. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 1403-1409		11
47	Atomic and magnetic structures, phase separation, and unconventional superexchange interactions in $\text{Sr}_2\text{GaMnO}_{5+x}$ (0. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 350, E23-E26	2.8	3
46	The structural investigation of $\text{Ba}_4\text{Bi}_3\text{F}_{17}$ . <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 312-318	3.3	11
45	Synthesis and crystal structure of the $\text{Sr}_2\text{MnGa}(\text{O},\text{F})_6$ oxyfluorides. <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 731-738	3.3	23
44	Synthesis and crystal structure of the novel $\text{Pb}_5\text{Sb}_2\text{MnO}_{11}$ compound. <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 2855-2861	3.3	4
43	Complex manganese oxides with the brownmillerite structure: synthesis, crystal chemistry and properties. <i>Russian Chemical Reviews</i> , <b>2004</b> , 73, 847-860	6.8	28
42	Structure and Microstructure of Epitaxial $\text{Sr}_4\text{Fe}_6\text{O}_{13}$ Films on $\text{SrTiO}_3$ . <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2578-2584	9.6	28
41	Synthesis and Structure of 3-Methyl-2,2,4-trinitro-3-thiolene 1,1-dioxide. <i>Russian Journal of General Chemistry</i> , <b>2003</b> , 73, 434-439	0.7	
40	Synthesis and structure of $\text{Sr}_2\text{MnGaO}_{5+\delta}$ brownmillerites with variable oxygen content. <i>Solid State Sciences</i> , <b>2003</b> , 5, 871-882	3.4	11
39	Synthesis and structural investigations on the new $\text{Sr}_{1.32}\text{Mn}_{0.83}\text{Cu}_{0.17}\text{O}_3$ compound. <i>Solid State Sciences</i> , <b>2003</b> , 5, 1117-1125	3.4	7
38	Ordering of tetrahedral chains in the $\text{Sr}_2\text{MnGaO}_5$ brownmillerite. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 174, 319-328	3.3	40
37	Irreversibility fields of the high- $T_c$ superconductors $\text{Hg-1212}$ and $(\text{Hg},\text{Tl})\text{-1212}$ . <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 391, 298-304	1.3	2

36	Anion Rearrangements in Fluorinated Nd <sub>2</sub> CuO <sub>3.5</sub> . <i>Chemistry of Materials</i> , <b>2003</b> , 15, 189-195	9.6	13
35	Crystal and magnetic structures of new layered oxides A <sub>2</sub> GaMnO <sub>5+y</sub> (A=Ca, Sr). <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, s1734-s1736	2.6	10
34	High-temperature superconductors based on complex layered copper oxyfluorides. <i>Russian Chemical Reviews</i> , <b>2002</b> , 71, 383-399	6.8	13
33	Chemistry and structure of Hg-based superconducting Cu mixed oxides. <i>Superconductor Science and Technology</i> , <b>2002</b> , 15, R31-R49	3.1	78
32	Suppression of Modulations in Fluorinated Bi-2201 Phases. <i>Journal of Solid State Chemistry</i> , <b>2001</b> , 156, 445-451	3.3	9
31	HREM Study of Fluorinated Nd <sub>2</sub> CuO <sub>4</sub> . <i>Journal of Solid State Chemistry</i> , <b>2001</b> , 157, 56-61	3.3	9
30	Synthesis and Crystal Structure of Novel Layered Manganese Oxide Ca <sub>2</sub> MnGaO <sub>5+□</sub> . <i>Journal of Solid State Chemistry</i> , <b>2001</b> , 158, 100-111	3.3	48
29	Synthesis, Crystal Structure, and Magnetic Properties of a Novel Layered Manganese Oxide Sr <sub>2</sub> MnGaO <sub>5+□</sub> . <i>Journal of Solid State Chemistry</i> , <b>2001</b> , 160, 353-361	3.3	50
28	Synthesis and Crystal Structure of Sr <sub>2</sub> ScBiO <sub>6</sub> . <i>Journal of Solid State Chemistry</i> , <b>2001</b> , 162, 142-147	3.3	3
27	Synthesis and crystal structure of the lithium perrhenate monohydrate LiReO <sub>4</sub> ·H <sub>2</sub> O. <i>Solid State Sciences</i> , <b>2001</b> , 3, 581-586	3.4	8
26	Preparation, Structure, and Magnetic Studies of a New Sr <sub>11</sub> Re <sub>4</sub> O <sub>24</sub> Double Oxide. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 149, 49-55	3.3	31
25	Synthesis and Crystal Structure of a New Complex Oxyfluoride La <sub>0.813</sub> Sr <sub>0.187</sub> Cu(O,F) <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 149, 189-196	3.3	8
24	Synthesis and Characterization of New Phases: Sr <sub>3.75</sub> K <sub>1.75</sub> Bi <sub>3</sub> O <sub>12</sub> and Sr <sub>3.1</sub> Na <sub>2.9</sub> Bi <sub>3</sub> O <sub>12</sub> . <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 152, 492-502	3.3	4
23	Effect of fluorination and high pressure on the structure and properties of the Hg-bearing superconducting Cu mixed oxides. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 338, 52-59	1.3	18
22	Synthesis, structure, and properties of mixed niobium(IV,V) oxides. <i>Inorganic Materials</i> , <b>2000</b> , 36, 247-250.9	0.9	17
21	Magnetic flux dynamics and structural features in fluorinated HgBa <sub>2</sub> CuO <sub>4</sub> as probed by <sup>19</sup> F NMR. <i>Physical Review B</i> , <b>2000</b> , 61, 14370-14373	3.3	7
20	Structural transformation in fluorinated LaACuGaO <sub>5</sub> (A=Ca, Sr) brownmillerites. <i>Solid State Sciences</i> , <b>2000</b> , 2, 493-502		15
19	Structural and magnetic properties of the colossal magnetoresistance perovskite La <sub>0.85</sub> Ca <sub>0.15</sub> MnO <sub>3</sub> . <i>Physical Review B</i> , <b>2000</b> , 61, 8941-8949	3.3	43

18	A study of the domain structure of epitaxial $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ films by high-resolution transmission electron microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1999</b> , 79, 1461-1478		21
17	Growth of pure and doped $\text{Rb}_2\text{ZnCl}_4$ and $\text{K}_2\text{ZnCl}_4$ single crystals by Czochralski technique. <i>Journal of Crystal Growth</i> , <b>1999</b> , 200, 148-154	1.6	12
16	Anion Ordering in Fluorinated $\text{La}_2\text{CuO}_4$ . <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 142, 440-450	3.3	24
15	Structural Transformations in the Fluorinated $T^*$ Phase. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 147, 647-656	5.6	7
14	Synthesis and Structural Study of $\text{Pb}_2\text{Re}_2\text{O}_7$ Pyrochlores. <i>Journal of Solid State Chemistry</i> , <b>1998</b> , 138, 220-225	3.3	6
13	Synthesis and Structural Study of Hexagonal Perovskites in the $\text{Ba}_5\text{Ta}_4\text{O}_{15}\text{M}_2\text{ZrO}_3$ (M=Ba, Sr) System. <i>Journal of Solid State Chemistry</i> , <b>1998</b> , 141, 492-499	3.3	21
12	Effect of fluorination on the structure and superconducting properties of $\text{Y}_2\text{Ba}_4\text{Cu}_7\text{O}_{14+x}$ phases. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 301, 155-164	1.3	5
11	Synthesis and structure of $\text{Ln}_4\text{Re}_6\text{O}_{19}$ (Ln=Ce, Pr, Nd) complex oxides. <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 278, 98-102	5.7	9
10	Effect of Fluorination on the Structure and Superconducting Properties of the Hg-1201 Phase. <i>Physical Review Letters</i> , <b>1998</b> , 80, 385-388	7.4	30
9	Inducing superconductivity and structural transformations by fluorination of reduced YBCO. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 280, 272-280	1.3	36
8	The Crystal Structure of $\text{Ca}_3\text{ReO}_6$ . <i>Journal of Solid State Chemistry</i> , <b>1997</b> , 131, 305-309	3.3	12
7	Synthesis and properties of $\text{NbM}_2\text{RCu}_2\text{O}_8$ and $\text{TaM}_2\text{RCu}_2\text{O}_8$ phases (M=Ba, Sr; R=Pr, Nd, Sm, Eu and Gd). <i>Journal of Alloys and Compounds</i> , <b>1996</b> , 241, 63-68	5.7	7
6	The Crystal Structure of $\text{Ba}_8\text{Ta}_6\text{NiO}_{24}$ : Cation Ordering in Hexagonal Perovskites. <i>Journal of Solid State Chemistry</i> , <b>1996</b> , 125, 102-107	3.3	48
5	Synthesis and properties of niobium bronzes $\text{R}_1 + x\text{Nb}_3\text{O}_9$ (R = La, Ce, Nd). <i>Materials Research Bulletin</i> , <b>1995</b> , 30, 97-103	5.1	21
4	Complex oxides with coherent intergrowth structures. <i>Russian Chemical Reviews</i> , <b>1995</b> , 64, 719-729	6.8	14
3	Structural Studies on New Ternary Oxides $\text{Ba}_8\text{Ta}_4\text{Ti}_3\text{O}_{24}$ and $\text{Ba}_{10}\text{Ta}_7.04\text{Ti}_{1.2}\text{O}_{30}$ . <i>Journal of Solid State Chemistry</i> , <b>1995</b> , 114, 560-574	3.3	31
2	Structural Study of the New Complex Oxides $\text{Ba}_{5-y}\text{Sr}_y\text{R}_2-x\text{Al}_2\text{Zr}_{1+x}\text{O}_{13+x/2}$ (R = Gd-Lu, Y, Sc). <i>Journal of Solid State Chemistry</i> , <b>1995</b> , 118, 180-192	3.3	14
1	Crystal structure of $\text{Ba}_5\text{In}_2\text{Al}_2\text{ZrO}_{13}$ . <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 206, 185-188	5.7	12

