Artem M Abakumov

List of Publications by Citations

Source: https://exaly.com/author-pdf/5810563/artem-m-abakumov-publications-by-citations.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

 341
 9,909
 47
 84

 papers
 citations
 h-index
 g-index

 404
 11,611
 7.4
 6.22

 ext. papers
 ext. citations
 avg, IF
 L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 341 | Origin of voltage decay in high-capacity layered oxide electrodes. <i>Nature Materials</i> , 2015 , 14, 230-8 | 27 | 612 |
| 340 | Water electrolysis on La(1-x)Sr(x)CoO(3-∏perovskite electrocatalysts. <i>Nature Communications</i> , 2016 , 7, 11053 | 17.4 | 550 |
| 339 | Visualization of O-O peroxo-like dimers in high-capacity layered oxides for Li-ion batteries. <i>Science</i> , 2015 , 350, 1516-21 | 33.3 | 514 |
| 338 | Oxidation state and chemical shift investigation in transition metal oxides by EELS. <i>Ultramicroscopy</i> , 2012 , 116, 24-33 | 3.1 | 348 |
| 337 | Evidence for anionic redox activity in a tridimensional-ordered Li-rich positive electrode ①LiIrO. Nature Materials, 2017, 16, 580-586 | 27 | 234 |
| 336 | Implementation of micro-ball nanodiamond anvils for high-pressure studies above 6 Mbar. <i>Nature Communications</i> , 2012 , 3, 1163 | 17.4 | 197 |
| 335 | Insertion compounds and composites made by ball milling for advanced sodium-ion batteries. <i>Nature Communications</i> , 2016 , 7, 10308 | 17.4 | 156 |
| 334 | Discovery of a superhard iron tetraboride superconductor. <i>Physical Review Letters</i> , 2013 , 111, 157002 | 7.4 | 155 |
| 333 | Structural Evolution of the BiFeO3LaFeO3System. <i>Chemistry of Materials</i> , 2011 , 23, 285-292 | 9.6 | 148 |
| 332 | Structural requirements in lithium cobalt oxides for the catalytic oxidation of water. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1616-9 | 16.4 | 139 |
| 331 | Understanding the roles of anionic redox and oxygen release during electrochemical cycling of lithium-rich layered Li4FeSbO6. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4804-14 | 16.4 | 128 |
| 330 | Terapascal static pressure generation with ultrahigh yield strength nanodiamond. <i>Science Advances</i> , 2016 , 2, e1600341 | 14.3 | 118 |
| 329 | Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in LaSrNiFeO Ruddlesden-Popper oxides. <i>Nature Communications</i> , 2018 , 9, 3150 | 17.4 | 108 |
| 328 | Anionic Redox Activity in a Newly Zn-Doped Sodium Layered Oxide P2-Na2/3Mn1JJZnyO2 (0 Advanced Energy Materials, 2018 , 8, 1802379 | 21.8 | 104 |
| 327 | Strong Oxygen Participation in the Redox Governing the Structural and Electrochemical Properties of Na-Rich Layered Oxide Na2IrO3. <i>Chemistry of Materials</i> , 2016 , 28, 8278-8288 | 9.6 | 98 |
| 326 | AVPO4F (A = Li, K): A 4 V Cathode Material for High-Power Rechargeable Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 411-415 | 9.6 | 86 |
| 325 | Perovskite-like Mn2O3: a path to new manganites. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1494-8 | 16.4 | 82 |

(2016-2015)

| 324 | VEGF-targeted magnetic nanoparticles for MRI visualization of brain tumor. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 825-33 | 6 | 80 | |
|-----|--|-------------------|----|--|
| 323 | 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> , 2013 , 85, 851-9 | 7.8 | 80 | |
| 322 | Exploring the bottlenecks of anionic redox in Li-rich layered sulfides. <i>Nature Energy</i> , 2019 , 4, 977-987 | 62.3 | 78 | |
| 321 | Chemistry and structure of Hg-based superconducting Cu mixed oxides. <i>Superconductor Science and Technology</i> , 2002 , 15, R31-R49 | 3.1 | 78 | |
| 320 | Tetrahedral Chain Order in the Sr2Fe2O5 Brownmillerite. <i>Chemistry of Materials</i> , 2008 , 20, 7188-7194 | 9.6 | 77 | |
| 319 | 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> , 2016 , 187, 161-172 | 6.7 | 75 | |
| 318 | Design of new electrode materials for Li-ion and Na-ion batteries from the bloedite mineral Na2Mg(SO4)2[4H2O. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2671-2680 | 13 | 73 | |
| 317 | Incommensurate Modulation and Luminescence in the CaGd2(1屆)Eu2x(MoO4)4(1屆)(WO4)4y (0 屆 日, 0 屆 日, 0 屆 日) Red Phosphors. <i>Chemistry of Materials</i> , 2013 , 25, 4387-4395 | 9.6 | 73 | |
| 316 | Synthesis of Li-Rich NMC: A Comprehensive Study. <i>Chemistry of Materials</i> , 2017 , 29, 9923-9936 | 9.6 | 68 | |
| 315 | Energy transfer in Eu🛘+ doped scheelites: use as thermographic phosphor. <i>Optics Express</i> , 2014 , 22 Suppl 3, A961-72 | 3.3 | 68 | |
| 314 | Structure and Magnetic Properties of BiFe0.75Mn0.25O3 Perovskite Prepared at Ambient and High Pressure. <i>Chemistry of Materials</i> , 2011 , 23, 4505-4514 | 9.6 | 66 | |
| 313 | Preparation, structure, and electrochemistry of layered polyanionic hydroxysulfates: LiMSO4OH (M = Fe, Co, Mn) electrodes for Li-ion batteries. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3653- | 61 ^{6.4} | 63 | |
| 312 | Reaching the Energy Density Limit of Layered O3-NaNi0.5Mn0.5O2 Electrodes via Dual Cu and Ti Substitution. <i>Advanced Energy Materials</i> , 2019 , 9, 1901785 | 21.8 | 61 | |
| 311 | Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesden B opper Catalysts for the Oxidation of Urea and Small Alcohols. <i>ACS Catalysis</i> , 2019 , 9, 2664-2673 | 13.1 | 60 | |
| 310 | A polar corundum oxide displaying weak ferromagnetism at room temperature. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3737-47 | 16.4 | 59 | |
| 309 | Nanocrystalline ZnO(Ga): Paramagnetic centers, surface acidity and gas sensor properties. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 555-564 | 8.5 | 58 | |
| 308 | Visible light activated room temperature gas sensors based on nanocrystalline ZnO sensitized with CdSe quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2014 , 205, 305-312 | 8.5 | 54 | |
| 307 | Direct Observation of Ferroelectric Domain Walls in LiNbO3: Wall-Meanders, Kinks, and Local Electric Charges. <i>Advanced Functional Materials</i> , 2016 , 26, 7599-7604 | 15.6 | 53 | |

| 306 | 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> , 2017 , 258, 814-824 | 6.7 | 51 |
|-----|---|------|----|
| 305 | Enhancing Na+ Extraction Limit through High Voltage Activation of the NASICON-Type Na4MnV(PO4)3 Cathode. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5842-5846 | 6.1 | 51 |
| 304 | Structural evolution at the oxidative and reductive limits in the first electrochemical cycle of LiNiMnCoO. <i>Nature Communications</i> , 2020 , 11, 1252 | 17.4 | 50 |
| 303 | Synthesis, Crystal Structure, and Magnetic Properties of a Novel Layered Manganese Oxide Sr2MnGaO5+\(\text{1}\)Journal of Solid State Chemistry, 2001 , 160, 353-361 | 3.3 | 50 |
| 302 | Solving the Structure of Li Ion Battery Materials with Precession Electron Diffraction: Application to Li2CoPO4F. <i>Chemistry of Materials</i> , 2011 , 23, 3540-3545 | 9.6 | 49 |
| 301 | Crystallographic shear structures as a route to anion-deficient perovskites. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6697-700 | 16.4 | 49 |
| 300 | Core-shell-corona doxorubicin-loaded superparamagnetic Fe3O4 nanoparticles for cancer theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 1073-80 | 6 | 48 |
| 299 | Synthesis and Crystal Structure of Novel Layered Manganese Oxide Ca2MnGaO5+\(\mathbb{I}\)Journal of Solid State Chemistry, 2001 , 158, 100-111 | 3.3 | 48 |
| 298 | The Crystal Structure of Ba8Ta6NiO24: Cation Ordering in Hexagonal Perovskites. <i>Journal of Solid State Chemistry</i> , 1996 , 125, 102-107 | 3.3 | 48 |
| 297 | Peierls distortion, magnetism, and high hardness of manganese tetraboride. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 47 |
| 296 | Solid state chemistry for developing better metal-ion batteries. <i>Nature Communications</i> , 2020 , 11, 4976 | 17.4 | 47 |
| 295 | Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. <i>Nature Materials</i> , 2021 , 20, 353-361 | 27 | 47 |
| 294 | Using electron vortex beams to determine chirality of crystals in transmission electron microscopy. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 45 |
| 293 | Direct Observation of Luminescent Silver Clusters Confined in Faujasite Zeolites. <i>ACS Nano</i> , 2016 , 10, 7604-11 | 16.7 | 45 |
| 292 | Multiple Twinning As a Structure Directing Mechanism in Layered Rock-Salt-Type Oxides: NaMnO2 Polymorphism, Redox Potentials, and Magnetism. <i>Chemistry of Materials</i> , 2014 , 26, 3306-3315 | 9.6 | 45 |
| 291 | Understanding and promoting the rapid preparation of the triplite-phase of LiFeSO4F for use as a large-potential Fe cathode. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18380-7 | 16.4 | 45 |
| 290 | UV effect on NO2 sensing properties of nanocrystalline In2O3. <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 491-496 | 8.5 | 44 |
| 289 | Charge-ordering transition in iron oxide Fe4O5 involving competing dimer and trimer formation. Nature Chemistry, 2016 , 8, 501-8 | 17.6 | 44 |

(2008-2018)

| 288 | Revealing pH-Dependent Activities and Surface Instabilities for Ni-Based Electrocatalysts during the Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2018 , 3, 2884-2890 | 20.1 | 44 | |
|-----|---|------|----|--|
| 287 | Cation insertion to break the activity/stability relationship for highly active oxygen evolution reaction catalyst. <i>Nature Communications</i> , 2020 , 11, 1378 | 17.4 | 43 | |
| 286 | Titanium-based potassium-ion battery positive electrode with extraordinarily high redox potential. <i>Nature Communications</i> , 2020 , 11, 1484 | 17.4 | 43 | |
| 285 | Interface control by chemical and dimensional matching in an oxide heterostructure. <i>Nature Chemistry</i> , 2016 , 8, 347-53 | 17.6 | 43 | |
| 284 | Revealing the Reactivity of the Iridium Trioxide Intermediate for the Oxygen Evolution Reaction in Acidic Media. <i>Chemistry of Materials</i> , 2019 , 31, 5845-5855 | 9.6 | 43 | |
| 283 | Structural and magnetic properties of the colossal magnetoresistance perovskite La0.85Ca0.15MnO3. <i>Physical Review B</i> , 2000 , 61, 8941-8949 | 3.3 | 43 | |
| 282 | Cation ordering and flexibility of the BOIP tetrahedra in incommensurately modulated CaEu(BO)III (B = Mo, W) scheelites. <i>Inorganic Chemistry</i> , 2014 , 53, 9407-15 | 5.1 | 42 | |
| 281 | Visible light activation of room temperature NO 2 gas sensors based on ZnO, SnO 2 and In 2 O 3 sensitized with CdSe quantum dots. <i>Thin Solid Films</i> , 2016 , 618, 253-262 | 2.2 | 42 | |
| 280 | A New Mixed-Valence Ferrite with a Cubic Structure, YBaFe4O7: Spin-Glass-Like Behavior. <i>Chemistry of Materials</i> , 2009 , 21, 1116-1122 | 9.6 | 41 | |
| 279 | Compositionally induced phase transition in the Ca2MnGa1NAlxO5 solid solutions: Ordering of tetrahedral chains in brownmillerite structure. <i>Solid State Sciences</i> , 2005 , 7, 801-811 | 3.4 | 41 | |
| 278 | Ordering of tetrahedral chains in the Sr2MnGaO5 brownmillerite. <i>Journal of Solid State Chemistry</i> , 2003 , 174, 319-328 | 3.3 | 40 | |
| 277 | A hard oxide semiconductor with a direct and narrow bandgap and switchable p-n electrical conduction. <i>Advanced Materials</i> , 2014 , 26, 8185-91 | 24 | 38 | |
| 276 | Topochemical Nitridation with Anion Vacancy-Assisted N(3-)/O(2-) Exchange. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3211-7 | 16.4 | 37 | |
| 275 | Chemistry and Structure of Anion-Deficient Perovskites with Translational Interfaces. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1807-1813 | 3.8 | 37 | |
| 274 | 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> , 2018 , 18, 6286-6291 | 11.5 | 37 | |
| 273 | Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1341-A1351 | 3.9 | 36 | |
| 272 | Inducing superconductivity and structural transformations by fluorination of reduced YBCO. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 280, 272-280 | 1.3 | 36 | |
| 271 | Target-aimed synthesis of anion-deficient perovskites. <i>Inorganic Chemistry</i> , 2008 , 47, 8543-52 | 5.1 | 36 | |

| 270 | Oxidation potential in the Earth's lower mantle as recorded by ferropericlase inclusions in diamond. <i>Earth and Planetary Science Letters</i> , 2015 , 417, 49-56 | 5.3 | 35 |
|-----|---|------|----|
| 269 | Switching between solid solution and two-phase regimes in the Li1-xFe1-yMnyPO4 cathode materials during lithium (de)insertion: combined PITT, in situ XRPD and electron diffraction tomography study. <i>Electrochimica Acta</i> , 2016 , 191, 149-157 | 6.7 | 35 |
| 268 | Oxygen exchange on nanocrystalline tin dioxide modified by palladium. <i>Journal of Solid State Chemistry</i> , 2012 , 186, 1-8 | 3.3 | 35 |
| 267 | Fluorinated heterometallic I-diketonates as volatile single-source precursors for the synthesis of low-valent mixed-metal fluorides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 692-4 | 16.4 | 35 |
| 266 | Synthesis and crystal structure of the Sr2Al1.07Mn0.93O5 brownmillerite. <i>Journal of Materials Chemistry</i> , 2007 , 17, 692-698 | | 35 |
| 265 | Coupled Cation and Charge Ordering in the CaMn3O6 Tunnel Structure. <i>Chemistry of Materials</i> , 2006 , 18, 5530-5536 | 9.6 | 35 |
| 264 | Novel Complex Stacking of Fully-Ordered Transition Metal Layers in Li4FeSbO6 Materials. <i>Chemistry of Materials</i> , 2015 , 27, 1699-1708 | 9.6 | 34 |
| 263 | New class of single-source precursors for the synthesis of main group-transition metal oxides: heterobimetallic Pb-Mn beta-diketonates. <i>Inorganic Chemistry</i> , 2009 , 48, 8480-8 | 5.1 | 34 |
| 262 | The Role of Divalent (Zn2+/Mg2+/Cu2+) Substituents in Achieving Full Capacity of Sodium Layered Oxides for Na-Ion Battery Applications. <i>Chemistry of Materials</i> , 2020 , 32, 1657-1666 | 9.6 | 31 |
| 261 | Local Oxygen-Vacancy Ordering and Twinned Octahedral Tilting Pattern in the Bi0.81Pb0.19FeO2.905 Cubic Perovskite. <i>Chemistry of Materials</i> , 2012 , 24, 1378-1385 | 9.6 | 31 |
| 260 | Preparation, Structure, and Magnetic Studies of a New Sr11Re4O24 Double Oxide. <i>Journal of Solid State Chemistry</i> , 2000 , 149, 49-55 | 3.3 | 31 |
| 259 | Structural Studies on New Ternary Oxides Ba8Ta4Ti3O24 and Ba10Ta7.04Ti1.2O30. <i>Journal of Solid State Chemistry</i> , 1995 , 114, 560-574 | 3.3 | 31 |
| 258 | Crystal Structure and Li-Ion Transport in Li2CoPO4F High-Voltage Cathode Material for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3194-3202 | 3.8 | 30 |
| 257 | Pressure-Collapsed Amorphous Mg(BH4)2: An Ultradense Complex Hydride Showing a Reversible Transition to the Porous Framework. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23402-23408 | 3.8 | 30 |
| 256 | Antiferroelectric (Pb,Bi)1½Fe1+xO3¼ Perovskites Modulated by Crystallographic Shear Planes. <i>Chemistry of Materials</i> , 2011 , 23, 255-265 | 9.6 | 30 |
| 255 | Effect of Fluorination on the Structure and Superconducting Properties of the Hg-1201 Phase. <i>Physical Review Letters</i> , 1998 , 80, 385-388 | 7.4 | 30 |
| 254 | Role of the Carbon Support on the Oxygen Reduction and Evolution Activities in LaNiO3 Composite Electrodes in Alkaline Solution. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1549-1558 | 6.1 | 29 |
| 253 | Synthesis and crystal structure of the palladium oxides NaPd3O4, Na2PdO3 and K3Pd2O4. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 1566-1574 | 3.3 | 29 |

(2015-2016)

| 252 | Study of Hydrogen Peroxide Reactions on Manganese Oxides as a Tool To Decode the Oxygen Reduction Reaction Mechanism. <i>ChemElectroChem</i> , 2016 , 3, 1667-1677 | 4.3 | 28 | |
|-----|---|------|----|--|
| 251 | Effect of Concentrated Diglyme-Based Electrolytes on the Electrochemical Performance of Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6051-6059 | 6.1 | 28 | |
| 250 | Crystal structure and phase transitions in Sr3WO6. <i>Inorganic Chemistry</i> , 2010 , 49, 6058-65 | 5.1 | 28 | |
| 249 | 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> , 2009 , 131, 10598-604 | 16.4 | 28 | |
| 248 | Local structure of perovskite-based Pb2Fe2O5\(\text{Solid State Sciences}\), 2008, 10, 382-389 | 3.4 | 28 | |
| 247 | Complex manganese oxides with the brownmillerite structure: synthesis, crystal chemistry and properties. <i>Russian Chemical Reviews</i> , 2004 , 73, 847-860 | 6.8 | 28 | |
| 246 | Structure and Microstructure of Epitaxial Sr4Fe6O13-Films on SrTiO3. <i>Chemistry of Materials</i> , 2004 , 16, 2578-2584 | 9.6 | 28 | |
| 245 | 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> , 2020 , 10, 8550 | 4.9 | 28 | |
| 244 | Spin-induced multiferroicity in the binary perovskite manganite MnO. <i>Nature Communications</i> , 2018 , 9, 2996 | 17.4 | 27 | |
| 243 | Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li3xNd2/3\(\text{MTiO3}\) Perovskites. <i>Chemistry of Materials</i> , 2013 , 25, 2670-2683 | 9.6 | 27 | |
| 242 | Frustrated square lattice with spatial anisotropy: Crystal structure and magnetic properties of PbZnVO(PO4)2. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 27 | |
| 241 | Crystal structure, phase transition, and magnetic ordering in perovskitelike Pb2\BaxFe2O5 solid solutions. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 27 | |
| 240 | Optical and photoelectrical properties of nanocrystalline indium oxide with small grains. <i>Thin Solid Films</i> , 2015 , 595, 25-31 | 2.2 | 26 | |
| 239 | The high-temperature polymorphs of K3AlF6. <i>Inorganic Chemistry</i> , 2011 , 50, 7792-801 | 5.1 | 26 | |
| 238 | The crystal structure of alpha-K3AlF6: elpasolites and double perovskites with broken corner-sharing connectivity of the octahedral framework. <i>Inorganic Chemistry</i> , 2009 , 48, 9336-44 | 5.1 | 26 | |
| 237 | Synthesis, Structure, and Magnetic Properties of SrLaMnSbO6: A New B-Site Ordered Double Perovskite. <i>Chemistry of Materials</i> , 2008 , 20, 4653-4660 | 9.6 | 26 | |
| 236 | Reversible facile Rb+ and K+ ions de/insertion in a KTiOPO4-type RbVPO4F cathode material. Journal of Materials Chemistry A, 2018 , 6, 14420-14430 | 13 | 26 | |
| 235 | Li2Cu2O(SO4)2: a Possible Electrode for Sustainable Li-Based Batteries Showing a 4.7 V Redox Activity vs Li+/Li0. <i>Chemistry of Materials</i> , 2015 , 27, 3077-3087 | 9.6 | 25 | |

| 234 | Structural, electrochemical and magnetic properties of a novel KFeSO4F polymorph. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19754-19764 | 13 | 25 |
|-----|--|---------------------|----|
| 233 | Proton Ion Exchange Reaction in Li3IrO4: A Way to New H3+xIrO4 Phases Electrochemically Active in Both Aqueous and Nonaqueous Electrolytes. <i>Advanced Energy Materials</i> , 2018 , 8, 1702855 | 21.8 | 24 |
| 232 | Extension of the clathrate family: the type X clathrate Ge79P29S18Te6. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2371-4 | 16.4 | 24 |
| 231 | Anion Ordering in Fluorinated La2CuO4. <i>Journal of Solid State Chemistry</i> , 1999 , 142, 440-450 | 3.3 | 24 |
| 230 | Bifunctional OER/ORR catalytic activity in the tetrahedral YBaCo4O7.3 oxide. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 330-341 | 13 | 23 |
| 229 | Role of PdOx and RuOy Clusters in Oxygen Exchange between Nanocrystalline Tin Dioxide and the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23858-23867 | 3.8 | 23 |
| 228 | Direct space structure solution from precession electron diffraction data: Resolving heavy and light scatterers in Pb(13)Mn(9)O(25). <i>Ultramicroscopy</i> , 2010 , 110, 881-90 | 3.1 | 23 |
| 227 | Synthesis and crystal structure of the Sr2MnGa(O,F)6 oxyfluorides. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 731-738 | 3.3 | 23 |
| 226 | 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> , 2019 , 537, 132-141 | 9.3 | 23 |
| 225 | Supramolecular thermoplastics and thermoplastic elastomer materials with self-healing ability based on oligomeric charged triblock copolymers. <i>NPG Asia Materials</i> , 2017 , 9, e385-e385 | 10.3 | 22 |
| 224 | KEu(MoO4)2: Polymorphism, Structures, and Luminescent Properties. <i>Chemistry of Materials</i> , 2015 , 27, 5519-5530 | 9.6 | 22 |
| 223 | First Example of Protonation of Ruddlesden B opper Sr2IrO4: A Route to Enhanced Water Oxidation Catalysts. <i>Chemistry of Materials</i> , 2020 , 32, 3499-3509 | 9.6 | 22 |
| 222 | Ti surface doping of LiNiMnO positive electrodes for lithium ion batteries RSC Advances, 2018, 8, 7287- | -3 3, 00 | 22 |
| 221 | ZnTaON: Stabilized High-Temperature LiNbO-type Structure. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15950-15955 | 16.4 | 22 |
| 220 | Facile synthesis of Ba(1-x)K(x)Fe2As2 superconductors via hydride route. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16932-9 | 16.4 | 22 |
| 219 | Structural Requirements in Lithium Cobalt Oxides for the Catalytic Oxidation of Water. <i>Angewandte Chemie</i> , 2012 , 124, 1648-1651 | 3.6 | 22 |
| 218 | Slicing the perovskite structure with crystallographic shear planes: the A(n)B(n)O(3n-2) homologous series. <i>Inorganic Chemistry</i> , 2010 , 49, 9508-16 | 5.1 | 22 |
| 217 | Room Temperature Magnetically Ordered Polar Corundum GaFeO Displaying Magnetoelectric Coupling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1520-1531 | 16.4 | 21 |

| 216 | The Role of the Electrode Surface in Nathir Batteries: Insights in Electrochemical Product Formation and Chemical Growth of NaO2. <i>Advanced Energy Materials</i> , 2018 , 8, 1701581 | 21.8 | 21 |
|-----|---|--------|----|
| 215 | Catalytic impact of RuOx clusters to high ammonia sensitivity of tin dioxide. <i>Sensors and Actuators B: Chemical</i> , 2012 , 175, 186-193 | 8.5 | 21 |
| 214 | Synthesis and Structural Study of Hexagonal Perovskites in the Ba5Ta4O15MZrO3(M=Ba, Sr) System. <i>Journal of Solid State Chemistry</i> , 1998 , 141, 492-499 | 3.3 | 21 |
| 213 | Transmission Electron Microscopic Study of the Defect Structure in Sr4Fe6O12+Compounds with Variable Oxygen Content. <i>Chemistry of Materials</i> , 2005 , 17, 4717-4726 | 9.6 | 21 |
| 212 | A study of the domain structure of epitaxial La1-xCaxMnO3 films by high-resolution transmission electron microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 1461-1478 | | 21 |
| 211 | Synthesis and properties of niobium bronzes R1 + xNb3O9 (R = La,Ce,Nd). <i>Materials Research Bulletin</i> , 1995 , 30, 97-103 | 5.1 | 21 |
| 210 | Superspace crystallography: a key to the chemistry and properties. <i>IUCrJ</i> , 2015 , 2, 137-54 | 4.7 | 20 |
| 209 | The Role of Semilabile Oxygen Atoms for Intercalation Chemistry of the Metal-Ion Battery Polyanion Cathodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3994-4003 | 16.4 | 20 |
| 208 | Crystal Structure and Luminescent Properties of R2 Ξ Eux(MoO4)3 (R = Gd, Sm) Red Phosphors. <i>Chemistry of Materials</i> , 2014 , 26, 7124-7136 | 9.6 | 20 |
| 207 | Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. Journal of the American Chemical Society, 2021 , 143, 2491-2499 | 16.4 | 20 |
| 206 | p-CoOx/n-SnO2 nanostructures: New highly selective materials for H2S detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 564-571 | 8.5 | 19 |
| 205 | Photoconductivity of nanocrystalline SnO2 sensitized with colloidal CdSe quantum dots. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1005-1010 | 7.1 | 19 |
| 204 | Photocatalytic process optimisation for ethylene oxidation. <i>Chemical Engineering Journal</i> , 2012 , 209, 494-500 | 14.7 | 19 |
| 203 | Sr2GaScO5, Sr10Ga6Sc4O25, and SrGa0.75Sc0.25O2.5: a play in the octahedra to tetrahedra ratio in oxygen-deficient perovskites. <i>Inorganic Chemistry</i> , 2012 , 51, 1094-103 | 5.1 | 19 |
| 202 | Uniform Patterns of Fe-Vacancy Ordering in the Kx(Fe,Co)2JSe2 Superconductors. <i>Chemistry of Materials</i> , 2011 , 23, 4311-4316 | 9.6 | 19 |
| 201 | Influence of Carbon Coating on Intercalation Kinetics and Transport Properties of LiFePO4. <i>ChemElectroChem</i> , 2019 , 6, 5090-5100 | 4.3 | 18 |
| 200 | ©NaVP2O7 as a Superior Electrode Material for Na-Ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 7463 | -7,469 | 18 |
| 199 | The rapid microwave-assisted hydrothermal synthesis of NASICON-structured NaVO (PO)F (0 RSC Advances, 2019 , 9, 19429-19440 | 3.7 | 18 |

| 198 | ☐Na1.7IrO3: A Tridimensional Na-Ion Insertion Material with a Redox Active Oxygen Network. <i>Chemistry of Materials</i> , 2018 , 30, 3285-3293 | 9.6 | 18 |
|-----|---|--------------|----|
| 197 | Mixed-valent, heteroleptic homometallic diketonates as templates for the design of volatile heterometallic precursors. <i>Chemical Science</i> , 2015 , 6, 2835-2842 | 9.4 | 18 |
| 196 | Li-ion diffusion in LixNb9PO25. <i>Electrochimica Acta</i> , 2013 , 89, 262-269 | 6.7 | 18 |
| 195 | Transmission electron microscopy and structural phase transitions in anion-deficient perovskite-based oxides. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005 , 61, 77-92 | | 18 |
| 194 | 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> , 2000 , 338, 52-59 | 1.3 | 18 |
| 193 | Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO2 upon Li Extraction and Insertion. <i>Inorganic Chemistry</i> , 2016 , 55, 7079-89 | 5.1 | 18 |
| 192 | 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> , 2019 , 21, 3327-3338 | 3.6 | 17 |
| 191 | Antisite Disorder and Bond Valence Compensation in Li2FePO4F Cathode for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 7578-7581 | 9.6 | 17 |
| 190 | Crystal Structure of a Lightweight Borohydride from Submicrometer Crystallites by Precession Electron Diffraction. <i>Chemistry of Materials</i> , 2012 , 24, 3401-3405 | 9.6 | 17 |
| 189 | Semiclathrates of the Ge-P-Te system: synthesis and crystal structures. <i>Chemistry - A European Journal</i> , 2011 , 17, 5719-26 | 4.8 | 17 |
| 188 | Superspace Description, Crystal Structures, and Electric Conductivity of the Ba4In6MMgxO13M/2 Solid Solutions. <i>Chemistry of Materials</i> , 2008 , 20, 4457-4467 | 9.6 | 17 |
| 187 | Synthesis, Cation Ordering, and Magnetic Properties of the (Sb1-xPbx)2(Mn1-ySby)O4Solid Solutions with the Sb2MnO4-Type Structure. <i>Chemistry of Materials</i> , 2005 , 17, 1123-1134 | 9.6 | 17 |
| 186 | Synthesis, structure, and properties of mixed niobium(IV,V) oxides. <i>Inorganic Materials</i> , 2000 , 36, 247-25 | 59 .9 | 17 |
| 185 | Synthesis, structure, and transport properties of type-I derived clathrate $Ge(46-x)P(x)Se(8-y)$ (x = 15.4(1); y = 0-2.65) with diverse host-guest bonding. <i>Inorganic Chemistry</i> , 2013 , 52, 577-88 | 5.1 | 16 |
| 184 | Frustrated pentagonal Cairo lattice in the non-collinear antiferromagnet Bi4Fe5O13F. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 16 |
| 183 | Layered perovskite-like Pb2Fe2O5 structure as a parent matrix for the nucleation and growth of crystallographic shear planes. <i>Inorganic Chemistry</i> , 2011 , 50, 4978-86 | 5.1 | 16 |
| 182 | Phase transitions in K3AlF6. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 421-428 | 3.3 | 16 |
| 181 | Pb2MnTeO6 Double Perovskite: An Antipolar Anti-ferromagnet. <i>Inorganic Chemistry</i> , 2016 , 55, 4320-9 | 5.1 | 16 |

(2010-2018)

| 180 | Improving salt-to-solvent ratio to enable high-voltage electrolyte stability for advanced Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 263, 127-133 | 6.7 | 15 |
|-----|--|------|----|
| 179 | Pd5InSe and Pd8In2Se INew metal-rich homological selenides with 2D palladiumIndium fragments: Synthesis, structure and bonding. <i>Journal of Alloys and Compounds</i> , 2014 , 589, 48-55 | 5.7 | 15 |
| 178 | Pd nanoparticles on SnO2(Sb) whiskers: Aggregation and reactivity in CO detection. <i>Journal of Alloys and Compounds</i> , 2013 , 565, 6-10 | 5.7 | 15 |
| 177 | Interplay of atomic displacements in the quantum magnet (CuCl)LaNb2O7. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 15 |
| 176 | Structural transformation in fluorinated LaACuGaO5 (A=Ca, Sr) brownmillerites. <i>Solid State Sciences</i> , 2000 , 2, 493-502 | | 15 |
| 175 | Correlating ligand-to-metal charge transfer with voltage hysteresis in a Li-rich rock-salt compound exhibiting anionic redox. <i>Nature Chemistry</i> , 2021 , 13, 1070-1080 | 17.6 | 15 |
| 174 | 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. Journal of Synchrotron Radiation, 2018, 25, 468-472 | 2.4 | 14 |
| 173 | An oxysulfate FeD(SO)Delectrode for sustainable Li-based batteries. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12658-66 | 16.4 | 14 |
| 172 | Effect of lone-electron-pair cations on the orientation of crystallographic shear planes in anion-deficient perovskites. <i>Inorganic Chemistry</i> , 2013 , 52, 10009-20 | 5.1 | 14 |
| 171 | Synthesis, crystal structure and magnetic properties of the Sr2Al0.78Mn1.22O5.2 anion-deficient layered perovskite. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 356-363 | 3.3 | 14 |
| 170 | The local structure and composition of Ba4Nb2O9-based oxycarbonates. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 1823-1828 | 3.3 | 14 |
| 169 | Ternary magnesium rhodium boride Mg2Rh1-xB6+2x with a modified Y2ReB6-type crystal structure. <i>Inorganic Chemistry</i> , 2007 , 46, 7378-86 | 5.1 | 14 |
| 168 | Complex oxides with coherent intergrowth structures. Russian Chemical Reviews, 1995, 64, 719-729 | 6.8 | 14 |
| 167 | Structural Study of the New Complex Oxides Ba5-ySryR2-xAl2Zr1+xO13+x/2 (R = Gd-Lu, Y, Sc). Journal of Solid State Chemistry, 1995 , 118, 180-192 | 3.3 | 14 |
| 166 | Synergy between transmission electron microscopy and powder diffraction: application to modulated structures. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015 , 71, 127-43 | 1.8 | 13 |
| 165 | Layered Oxychlorides [PbBiO2]An+1BnO3nflCl2 (A = Pb/Bi, B = Fe/Ti): Intergrowth of the Hematophanite and Sillen Phases. <i>Chemistry of Materials</i> , 2015 , 27, 2946-2956 | 9.6 | 13 |
| 164 | Synthesis, crystal structure, transport, and magnetic properties of novel ternary copper phosphides, A2Cu6P5 (A = Sr, Eu) and EuCu4P3. <i>Inorganic Chemistry</i> , 2012 , 51, 8948-55 | 5.1 | 13 |
| 163 | BiMnFe2O6, a polysynthetically twinned hcp MO structure. <i>Chemical Science</i> , 2010 , 1, 751 | 9.4 | 13 |

| 162 | Anion Rearrangements in Fluorinated Nd2CuO3.5. Chemistry of Materials, 2003, 15, 189-195 | 9.6 | 13 |
|-----|---|-----|----|
| 161 | High-temperature superconductors based on complex layered copper oxyfluorides. <i>Russian Chemical Reviews</i> , 2002 , 71, 383-399 | 6.8 | 13 |
| 160 | Luminescence Property Upgrading via the Structure and Cation Changing in AgxEu(2図)/3WO4 and AgxGd(2図)/3Ū.3Eu0.3WO4. <i>Chemistry of Materials</i> , 2017 , 29, 8811-8823 | 9.6 | 12 |
| 159 | Evaluation of Ce-doped Pr2CuO4 for potential application as a cathode material for solid oxide fuel cells. <i>RSC Advances</i> , 2016 , 6, 101029-101037 | 3.7 | 12 |
| 158 | Cs7Nd11(SeO3)12Cl16: first noncentrosymmetric structure among alkaline-metal lanthanide selenite halides. <i>Inorganic Chemistry</i> , 2013 , 52, 3611-9 | 5.1 | 12 |
| 157 | The Crystal Structure of Ca3ReO6. <i>Journal of Solid State Chemistry</i> , 1997 , 131, 305-309 | 3.3 | 12 |
| 156 | Synthesis and characterization of oxygen-deficient oxides BaCo1 \square YxO3 \square , x=0.15, 0.25 and 0.33, with the perovskite structure. <i>Solid State Ionics</i> , 2008 , 179, 1885-1889 | 3.3 | 12 |
| 155 | Growth of pure and doped Rb2ZnCl4 and K2ZnCl4 single crystals by Czochralski technique. <i>Journal of Crystal Growth</i> , 1999 , 200, 148-154 | 1.6 | 12 |
| 154 | Crystal structure of Ba5In2Al2ZrO13. Journal of Alloys and Compounds, 1994, 206, 185-188 | 5.7 | 12 |
| 153 | Anionic and Cationic Redox Processes in Li2IrO3 and Their Structural Implications on Electrochemical Cycling in a Li-Ion Cell. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2771-2781 | 3.8 | 12 |
| 152 | ⊞-VPO: A Novel Many Monovalent Ion Intercalation Anode Material for Metal-Ion Batteries. <i>ACS Applied Materials & Applied & A</i> | 9.5 | 11 |
| 151 | A pseudo-tetragonal tungsten bronze superstructure: a combined solution of the crystal structure of K6.4(Nb,Ta)(36.3)O94 with advanced transmission electron microscopy and neutron diffraction. <i>Dalton Transactions</i> , 2016 , 45, 973-9 | 4.3 | 11 |
| 150 | A three body problem: a genuine heterometallic molecule a mixture of two parent heterometallic molecules. <i>Chemical Science</i> , 2018 , 9, 4736-4745 | 9.4 | 11 |
| 149 | Two new arsenides, Eu7Cu44As23 and Sr7Cu44As23, with a new filled variety of the BaHg11 structure. <i>Inorganic Chemistry</i> , 2014 , 53, 11173-84 | 5.1 | 11 |
| 148 | Spiral ground state against ferroelectricity in the frustrated magnet BiMnFe2O6. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 11 |
| 147 | Oxygen and fluorine doping in Sr2MnGaO5 brownmillerite. <i>Physica Status Solidi A</i> , 2004 , 201, 1403-140 | 09 | 11 |
| 146 | The structural investigation of Ba4Bi3F17. Journal of Solid State Chemistry, 2004, 177, 312-318 | 3.3 | 11 |
| 145 | Synthesis and structure of Sr2MnGaO5+Ebrownmillerites with variable oxygen content. <i>Solid State Sciences</i> , 2003 , 5, 871-882 | 3.4 | 11 |

| 144 | Origins of irreversible capacity loss in hard carbon negative electrodes for potassium-ion batteries. Journal of Chemical Physics, 2020 , 152, 194704 | 3.9 | 11 |
|-----|---|-----|----|
| 143 | Microwave-assisted hydrothermal synthesis, structure and electrochemical properties of the Na3V2-yFey 2x (PO4)2F3-2x electrode materials for Na-ion batteries. <i>Journal of Solid State Chemistry</i> , 2020 , 281, 121010 | 3.3 | 11 |
| 142 | Magnetism of natural composite of halloysite clay nanotubes Al 2 Si 2 O 5 (OH) 4 and amorphous hematite Fe 2 O 3. <i>Materials Characterization</i> , 2017 , 129, 179-185 | 3.9 | 10 |
| 141 | Light-Activated Sub-ppm NO2 Detection by Hybrid ZnO/QD Nanomaterials vs. Charge Localization in Core-Shell QD. <i>Frontiers in Materials</i> , 2019 , 6, | 4 | 10 |
| 140 | Synthesis, structure and magnetic ordering of the mullite-type Bi2Fe(4-x)CrxO9 solid solutions with a frustrated pentagonal Cairo lattice. <i>Dalton Transactions</i> , 2016 , 45, 1192-200 | 4.3 | 10 |
| 139 | ⊞ydrotriphylitesILi1⊠Fe1+x(PO4)1以(OH)4y as Cathode Materials for Li-ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 5035-5046 | 9.6 | 10 |
| 138 | Oxygen-driven competition between low-dimensional structures of Sr3CoMO6 and Sr3CoMO7-I with M = Ru, Ir. <i>Dalton Transactions</i> , 2014 , 43, 13883-91 | 4.3 | 10 |
| 137 | Spin-reorientation transitions in the Cairo pentagonal magnet Bi4Fe5O13F. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 10 |
| 136 | Cubic lead perovskite PbMoO3 with anomalous metallic behavior. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 10 |
| 135 | Influence of antimony doping on structure and conductivity of tin oxide whiskers. <i>Thin Solid Films</i> , 2009 , 518, 1359-1362 | 2.2 | 10 |
| 134 | (CuCl)LaTa2O7 and quantum phase transition in the (CuX)LaM2O7 family (X=Cl, Br; M=Nb, Ta). <i>Physical Review B</i> , 2012 , 86, | 3.3 | 10 |
| 133 | Advanced electron microscopy and its possibilities to solve complex structures: application to transition metal oxides. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2660 | | 10 |
| 132 | Coupled anion and cation ordering in Sr3RFe4O10.5 (R=Y, Ho, Dy) anion-deficientperovskites. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2845-2854 | 3.3 | 10 |
| 131 | Crystal structure and chemical bonding in tin(II) acetate. <i>Polyhedron</i> , 2007 , 26, 5365-5369 | 2.7 | 10 |
| 130 | Mg8Rh4B 🖪 new type of boron stabilized Ti2Ni structure. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 2751-2760 | 3.3 | 10 |
| 129 | Crystal and magnetic structures of new layered oxides A2GaMnO5+y (A=Ca, Sr). <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1734-s1736 | 2.6 | 10 |
| 128 | HSA-Coated Magnetic Nanoparticles for MRI-Guided Photodynamic Cancer Therapy. <i>Pharmaceutics</i> , 2018 , 10, | 6.4 | 10 |
| 127 | Nanoscale phase separation in perovskites revisited. <i>Nature Materials</i> , 2014 , 13, 216-7 | 27 | 9 |

| 126 | Structural and magnetic phase transitions in the A(n)B(n)O(3n-2) anion-deficient perovskites Pb2Ba2BiFe5O13 and Pb(1.5)Ba(2.5)Bi2Fe6O16. <i>Inorganic Chemistry</i> , 2013 , 52, 7834-43 | 5.1 | 9 |
|-----|--|-----|---|
| 125 | Perovskite-like Mn2O3: A Path to New Manganites. <i>Angewandte Chemie</i> , 2013 , 125, 1534-1538 | 3.6 | 9 |
| 124 | Synthesis and structure of Ln4Re6⊠O19 (Ln=Ce, Pr, Nd) complex oxides. <i>Journal of Alloys and Compounds</i> , 1998 , 278, 98-102 | 5.7 | 9 |
| 123 | . Physics-Uspekhi, 2008 , 51, 180 | 2.8 | 9 |
| 122 | [SrF0.8(OH)0.2]2.526[Mn6O12]:´Columnar Rock-Salt Fragments Inside the Todorokite-Type Tunnel Structure. <i>Chemistry of Materials</i> , 2007 , 19, 1181-1189 | 9.6 | 9 |
| 121 | Crystallographic Shear Structures as a Route to Anion-Deficient Perovskites. <i>Angewandte Chemie</i> , 2006 , 118, 6849-6852 | 3.6 | 9 |
| 120 | Sn2-2xSbxFexO4 Solid Solutions as Possible Inert Anode Materials in Aluminum Electrolysis. <i>Chemistry of Materials</i> , 2005 , 17, 3004-3011 | 9.6 | 9 |
| 119 | Suppression of Modulations in Fluorinated Bi-2201 Phases. <i>Journal of Solid State Chemistry</i> , 2001 , 156, 445-451 | 3.3 | 9 |
| 118 | HREM Study of Fluorinated Nd2CuO4. Journal of Solid State Chemistry, 2001, 157, 56-61 | 3.3 | 9 |
| 117 | Synthesis and cation distribution in the new bismuth oxyhalides with the Sill-Aurivillius intergrowth structures. <i>Dalton Transactions</i> , 2015 , 44, 20568-76 | 4.3 | 8 |
| 116 | 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> , 2019 , 75, 485-494 | 1.8 | 8 |
| 115 | Layered oxygen vacancy ordering in Nb-doped SrCo1-xFexO3-liperovskite. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013 , 228, 28-34 | 1 | 8 |
| 114 | Pb2.85Ba2.15Fe4SnO13: A new member of the AnBnO3n anion-deficient perovskite-based homologous series. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 3150-3157 | 3.3 | 8 |
| 113 | New perovskite-based manganite Pb2Mn2O5. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2190-2195 | 3.3 | 8 |
| 112 | Synthesis and crystal structure of novel CaRMnSnO6 (R = La, Pr, Nd, Sm D y) double perovskites. Journal of Materials Chemistry, 2005 , 15, 4899 | | 8 |
| 111 | Synthesis and crystal structure of the lithium perrhenate monohydrate LiReO4[H2O. <i>Solid State Sciences</i> , 2001 , 3, 581-586 | 3.4 | 8 |
| 110 | Synthesis and Crystal Structure of a New Complex Oxyfluoride La0.813Sr0.187Cu(O,F)3[] <i>Journal of Solid State Chemistry</i> , 2000 , 149, 189-196 | 3.3 | 8 |
| 109 | Sulfate-Containing Composite Based on Ni-Rich Layered Oxide LiNiMnCoO as High-Performance Cathode Material for Li-ion Batteries. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 8 |

(2015-2016)

| 108 | TEM and AES investigations of the natural surface nano-oxide layer of an AISI 316L stainless steel microfibre. <i>Journal of Microscopy</i> , 2016 , 264, 207-214 | 1.9 | 8 | |
|-----|---|------------------|---|--|
| 107 | Incommensurately Modulated Structures and Luminescence Properties of the AgxSm(2🛭)/3WO4 (x = 0.286, 0.2) Scheelites as Thermographic Phosphors. <i>Chemistry of Materials</i> , 2018 , 30, 4788-4798 | 9.6 | 8 | |
| 106 | Three to tango requires a site-specific substitution: heterometallic molecular precursors for high-voltage rechargeable batteries. <i>Chemical Science</i> , 2019 , 10, 524-534 | 9.4 | 7 | |
| 105 | Expanding the Rich Crystal Chemistry of Ruthenium(V) Oxides via the Discovery of BaRu2O6, Ba5Ru4O15, Ba2Ru3O10, and Sr2Ru3O9(OH) by pH-Controlled Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2019 , 31, 6295-6305 | 9.6 | 7 | |
| 104 | Atomic structure of defects in anion-deficient perovskite-based ferrites with a crystallographic shear structure. <i>Inorganic Chemistry</i> , 2014 , 53, 2171-80 | 5.1 | 7 | |
| 103 | Trapping of Oxygen Vacancies at Crystallographic Shear Planes in Acceptor-Doped Pb-Based Ferroelectrics. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14787-90 | 16.4 | 7 | |
| 102 | Short-range order of Br and three-dimensional magnetism in (CuBr)LaNb2O7. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 7 | |
| 101 | Spatial separation of covalent, ionic, and metallic interactions in Mg11Rh18B8 and Mg3Rh5B3. <i>Chemistry - A European Journal</i> , 2013 , 19, 17860-70 | 4.8 | 7 | |
| 100 | Mixed Tellurides Ni3 GaTe2 (0 fx 10.65): Crystal and Electronic Structures, Properties, and Nickel Deficiency Effects on Vacancy Ordering. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1395-140- | 4 ^{2.3} | 7 | |
| 99 | Synthesis and structural investigations on the new Sr1.32Mn0.83Cu0.17O3 compound. <i>Solid State Sciences</i> , 2003 , 5, 1117-1125 | 3.4 | 7 | |
| 98 | Magnetic flux dynamics and structural features in fluorinated HgBa2CuO4 as probed by 19F NMR. <i>Physical Review B</i> , 2000 , 61, 14370-14373 | 3.3 | 7 | |
| 97 | Structural Transformations in the Fluorinated T* Phase. <i>Journal of Solid State Chemistry</i> , 1999 , 147, 647 | -6,556 | 7 | |
| 96 | Synthesis and properties of NbM2RCu2O8 and TaM2RCu2O8 phases (MBA, Sr: RPr, Nd, Sm, Eu and Gd). <i>Journal of Alloys and Compounds</i> , 1996 , 241, 63-68 | 5.7 | 7 | |
| 95 | Activation of anionic redox in d transition metal chalcogenides by anion doping. <i>Nature Communications</i> , 2021 , 12, 5485 | 17.4 | 7 | |
| 94 | Heterometallic Precursor with 2:2:1 Metal Ratio Requiring at Least a Pentanuclear Molecular Assembly. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12767-12776 | 16.4 | 6 | |
| 93 | Structural Polymorphism in NaZn(PO) Driven by Rotational Order-Disorder Transitions and the Impact of Heterovalent Substitutions on Na-Ion Conductivity. <i>Inorganic Chemistry</i> , 2020 , 59, 6528-6540 | 5.1 | 6 | |
| 92 | Magneto-orbital texture in the perovskite modification of Mn2O3. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 6 | |
| 91 | Soft chemical control of the crystal and magnetic structure of a layered mixed valent manganite oxide sulfide. <i>APL Materials</i> , 2015 , 3, 041520 | 5.7 | 6 | |

| 90 | Structure and high-temperature properties of the (Sr,Ca,Y)(Co, Mn)O3 perovskites perspective cathode materials for IT-SOFC. <i>Journal of Solid State Chemistry</i> , 2012 , 192, 186-194 | 3.3 | 6 |
|----|---|----------------------|---|
| 89 | Synthesis and Structural Study of Pb2Re2O7⊠Pyrochlores. <i>Journal of Solid State Chemistry</i> , 1998 , 138, 220-225 | 3.3 | 6 |
| 88 | Synthesis, Crystal Structure, and Magnetic Properties of Sr1.31Co0.63Mn0.37O3: A Derivative of the Incommensurate Composite Hexagonal Perovskite Structure. <i>Chemistry of Materials</i> , 2007 , 19, 6158 | 3- 8 :167 | 6 |
| 87 | Lanthanum-strontium cuprate: A promising cathodic material for solid oxide fuel cells. <i>Russian Journal of Electrochemistry</i> , 2007 , 43, 436-442 | 1.2 | 6 |
| 86 | Ca6.3Mn3Ga4.4Al1.3O18A novel complex oxide with 3D tetrahedral framework. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3137-3144 | 3.3 | 6 |
| 85 | Fluorite-like phases in the BaF2 B iF3 B i2O3 systemBynthesis, conductivity and defect clustering. Materials Research Bulletin, 2005 , 40, 821-830 | 5.1 | 6 |
| 84 | Exploring the Origin of the Superior Electrochemical Performance of Hydrothermally Prepared Li-Rich Lithium Iron Phosphate Li1+He1PO4. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 126-134 | 3.8 | 6 |
| 83 | Data-driven computational prediction and experimental realization of exotic perovskite-related polar magnets. <i>Npj Quantum Materials</i> , 2020 , 5, | 5 | 6 |
| 82 | Reduced Na2+xTi4O9/C Composite: A Durable Anode for Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 8521-8527 | 9.6 | 6 |
| 81 | Chemical Activity of the Peroxide/Oxide Redox Couple: Case Study of BaRuO in Aqueous and Organic Solvents. <i>Chemistry of Materials</i> , 2018 , 30, 3882-3893 | 9.6 | 6 |
| 80 | Effect of cation vacancies on the crystal structure and luminescent properties of Ca 0.85🛭.5x Gd x Eu 0.1 ? 0.05+0.5x WO 4 (0 🖟 🛈.567) scheelite-based red phosphors. <i>Journal of Alloys and Compounds</i> , 2017 , 706, 358-369 | 5.7 | 5 |
| 79 | Lithium-Ion Electrochemical Energy Storage: the Current State, Problems, and Development Trends in Russia. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2019 , 66, 219-224 | 0.8 | 5 |
| 78 | Bi(3n+1)Ti7Fe(3n-3)O(9n+11) Homologous Series: Slicing Perovskite Structure with Planar Interfaces Containing Anatase-like Chains. <i>Inorganic Chemistry</i> , 2016 , 55, 1245-57 | 5.1 | 5 |
| 77 | Tuning the Crystal Structure of A2CoPO4F (A = Li, Na) Fluoride-Phosphates: A New Layered Polymorph of LiNaCoPO4F. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 4365-4372 | 2.3 | 5 |
| 76 | Bi0.75Sr0.25FeO3🛘 Revealing order/disorder phenomena by combining diffraction techniques. <i>Solid State Communications</i> , 2012 , 152, 331-336 | 1.6 | 5 |
| 75 | Direct evidence of stacking disorder in the mixed ionic-electronic conductor Sr4Fe6O12+[] <i>ACS Nano</i> , 2013 , 7, 3078-85 | 16.7 | 5 |
| 74 | Surface processes during purification of InP quantum dots. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1220-5 | 3 | 5 |
| 73 | Original close-packed structure and magnetic properties of the Pb4Mn9O20 manganite. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2231-2238 | 3.3 | 5 |

(2020-1998)

| 72 | Effect of fluorination on the structure and superconducting properties of Y2Ba4Cu7O14+Iphases. <i>Physica C: Superconductivity and Its Applications</i> , 1998 , 301, 155-164 | 1.3 | 5 | |
|----|---|-------------|---|--|
| 71 | Ba2.1Bi0.9(O, F)6.8🛘A new ordered anion-excess fluorite. <i>Materials Research Bulletin</i> , 2007 , 42, 861-869 | 5.1 | 5 | |
| 7° | Crystal structure and properties of the Na1⊠ Ru2O4 phase. <i>Russian Chemical Bulletin</i> , 2006 , 55, 1717-17 | 22 7 | 5 | |
| 69 | Mixed-Cation Perovskite La0.6Ca0.4Fe0.7Ni0.3O2.9 as a Stable and Efficient Catalyst for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2021 , 11, 8338-8348 | 13.1 | 5 | |
| 68 | Exploring the Peculiarities of LiFePO4 Hydrothermal Synthesis Using In Situ Calvet Calorimetry. <i>Crystal Growth and Design</i> , 2018 , 18, 879-882 | 3.5 | 5 | |
| 67 | Exploring the Role of Crystal Water in Potassium Manganese Hexacyanoferrate as a Cathode Material for Potassium-Ion Batteries. <i>Crystals</i> , 2021 , 11, 895 | 2.3 | 5 | |
| 66 | Comprehensive Study of Li+/Ni2+ Disorder in Ni-Rich NMCs Cathodes for Li-lon Batteries. <i>Symmetry</i> , 2021 , 13, 1628 | 2.7 | 5 | |
| 65 | Crystal Structure, Defects, Magnetic and Dielectric Properties of the Layered BiTiFeO Perovskite-Anatase Intergrowths. <i>Inorganic Chemistry</i> , 2017 , 56, 931-942 | 5.1 | 4 | |
| 64 | 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> , 2020 , 49, 10486-10497 | 4.3 | 4 | |
| 63 | Phase Transformations and Charge Ordering during Li+ Intercalation into Hollandite-Type TiO2 Studied by Operando Synchrotron X-ray Powder Diffraction. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 743-748 | 2.3 | 4 | |
| 62 | Synthesis, structure and electrochemical properties of LiNaCo0.5Fe0.5PO4F fluoride-phosphate. Journal of Solid State Chemistry, 2016 , 242, 70-77 | 3.3 | 4 | |
| 61 | Pb5Fe3TiO11Cl: A rare example of Ti(IV) in a square pyramidal oxygen coordination. <i>Journal of Solid State Chemistry</i> , 2014 , 215, 245-252 | 3.3 | 4 | |
| 60 | Cationic clathrate of type-III Ge(172-x)P(x)Te(y) (y \square 1.5, x \square y): synthesis, crystal structure and thermoelectric properties. <i>Inorganic Chemistry</i> , 2013 , 52, 8272-9 | 5.1 | 4 | |
| 59 | Microstructural Aspects of the Degradation Behavior of SnO[sub 2]-Based Anodes for Aluminum Electrolysis. <i>Journal of the Electrochemical Society</i> , 2010 , 157, C178 | 3.9 | 4 | |
| 58 | . Chemistry of Materials, 2009 , 21, 2000-2001 | 9.6 | 4 | |
| 57 | Synthesis and crystal structure of the novel Pb5Sb2MnO11 compound. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 2855-2861 | 3.3 | 4 | |
| 56 | Synthesis and Characterization of New Phases: Sr3.75K1.75Bi3O12 and Sr3.1Na2.9Bi3O12. <i>Journal of Solid State Chemistry</i> , 2000 , 152, 492-502 | 3.3 | 4 | |
| 55 | Reversible electrochemical potassium deintercalation from >4 V positive electrode material K6(VO)2(V2O3)2(PO4)4(P2O7). <i>Solid State Ionics</i> , 2020 , 357, 115468 | 3.3 | 4 | |

| 54 | Protective Spinel Coating for LiNiMnCoO Cathode for Li-Ion Batteries through Single-Source Precursor Approach. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 4 |
|----|--|-----|---|
| 53 | 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> , 2021 , 11, | 5.4 | 4 |
| 52 | 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> , 2016 , 161, 292-5 | 0.8 | 4 |
| 51 | Molybdenum Oxide Nitrides of the Mo(O,N,?) Type: On the Way to MoO. <i>Inorganic Chemistry</i> , 2017 , 56, 8782-8792 | 5.1 | 3 |
| 50 | Crystal structure and magnetic properties of the Cr-doped spiral antiferromagnet BiMnFe2O6. <i>Materials Research Bulletin</i> , 2013 , 48, 2993-2997 | 5.1 | 3 |
| 49 | New anion-conducting solid solutions Bi1\(\mathbb{I}\)Tex(O,F)2+\(\bar{1}\)x>0.5) and glass\(\mathbb{I}\)eramic material on their base. Journal of Fluorine Chemistry, 2011 , 132, 1110-1116 | 2.1 | 3 |
| 48 | Tysonite-type solid solutions in the BiF3-BiOF-BaF2 system: Polymorphism and anionic conductivity. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 313-324 | 1.5 | 3 |
| 47 | Atomic and magnetic structures, phase separation, and unconventional superexchange interactions in Sr2GaMnO5+x (0. <i>Physica B: Condensed Matter</i> , 2004 , 350, E23-E26 | 2.8 | 3 |
| 46 | Synthesis and Crystal Structure of Sr2ScBiO6. <i>Journal of Solid State Chemistry</i> , 2001 , 162, 142-147 | 3.3 | 3 |
| 45 | Revisited TiNbO as an Anode Material for Advanced Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56366-56374 | 9.5 | 3 |
| 44 | Hydroxyl Defects in LiFePO Cathode Material: DFT+ and an Experimental Study. <i>Inorganic Chemistry</i> , 2021 , 60, 5497-5506 | 5.1 | 3 |
| 43 | Hydrothermal Microwave-Assisted Synthesis of Na3+xV2IJMny(PO4)2F3 Solid Solutions as Potential Positive Electrodes for Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5007-5014 | 6.1 | 3 |
| 42 | The role of antisite defect pairs in surface reconstruction of layered AMO2 oxides: A DFT+U study. <i>Applied Surface Science</i> , 2021 , 537, 147750 | 6.7 | 3 |
| 41 | Denticity and Mobility of the Carbonate Groups in AMCOF Fluorocarbonates: A Study on KMnCOF and High Temperature KCaCOF Polymorph. <i>Inorganic Chemistry</i> , 2017 , 56, 13132-13139 | 5.1 | 2 |
| 40 | Preparation of gold nanoparticles via direct interaction of tetrachloroauric acid with DNA. <i>Colloid and Polymer Science</i> , 2019 , 297, 433-444 | 2.4 | 2 |
| 39 | Anionic substitution in LiMnPO4: The Li1-Mn1+(PO4)1(VO4) (OH)4 solid solutions prepared with a microwave-assisted hydrothermal method. <i>Journal of Solid State Chemistry</i> , 2020 , 286, 121294 | 3.3 | 2 |
| 38 | Reply to Comment on Brustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li3xNd2/3\text{\text{\text{I}}TiO3 Perovskites}\text{\text{\text{\text{\$Chemistry of Materials, 2014}, 26, 1288-1288}} | 9.6 | 2 |
| 37 | Structure and magnetic properties of a new anion-deficient perovskite Pb2Ba2BiFe4ScO13 with crystallographic shear structure. <i>Materials Research Bulletin</i> , 2013 , 48, 3459-3465 | 5.1 | 2 |

| 36 | Expanding the Ruddlesden-Popper manganite family: the $N=3$ La(3.2)Ba(0.8)Mn3O10 member. <i>Inorganic Chemistry</i> , 2012 , 51, 11487-92 | 5.1 | 2 |
|----|--|--------|---|
| 35 | Synthesis and crystal structure of the new complex oxide Ca7Mn2.14 Ga5.86O17.93. <i>Russian Chemical Bulletin</i> , 2010 , 59, 706-711 | 1.7 | 2 |
| 34 | Irreversibility fields of the high-Tc superconductors Hg-1212 and (Hg,Tl)-1212. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 391, 298-304 | 1.3 | 2 |
| 33 | Electrochemical instability of bis(trifluoromethylsulfonyl)imide based ionic liquids as solvents in high voltage electrolytes for potassium ion batteries. <i>Mendeleev Communications</i> , 2020 , 30, 679-682 | 1.9 | 2 |
| 32 | Magnetic and Intercalation Properties of BaRu2O6 and SrRu2O6. Chemistry of Materials, 2020, 32, 8471 | -84680 | 2 |
| 31 | Crystal Structures and Low-Dimensional Ferromagnetism of Sodium Nickel Phosphates NaNi(PO)[HO and NaNi(PO)OH. <i>Inorganic Chemistry</i> , 2019 , 58, 610-621 | 5.1 | 2 |
| 30 | Doping of Bi 4 Fe 5 O 13 F with pentagonal Cairo lattice with Cr and Mn: Synthesis, structure and magnetic properties. <i>Materials Research Bulletin</i> , 2017 , 87, 54-60 | 5.1 | 1 |
| 29 | Toward unlocking the Mn3+/Mn2+ redox pair in alluaudite-type Na2+2zMn2½(SO4)3½(SeO4)x cathodes for sodium-ion batteries. <i>Journal of Solid State Chemistry</i> , 2019 , 277, 804-810 | 3.3 | 1 |
| 28 | Perovskites: A Hard Oxide Semiconductor with A Direct and Narrow Bandgap and Switchable pl Electrical Conduction (Adv. Mater. 48/2014). <i>Advanced Materials</i> , 2014 , 26, 8184-8184 | 24 | 1 |
| 27 | Crystal, magnetic and dielectric studies of the 2D antiferromagnet: I-NaMnO2 2014 , | | 1 |
| 26 | Interactions in the NdF3-Nd2O3-MF2 (M = Ba, Sr) systems. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 1625-1633 | 1.5 | 1 |
| 25 | Synthesis, Structure and Superconducting/Magnetic Properties of Cu- and Mn-based Oxyfluorides 2010 , 383-422 | | 1 |
| 24 | NH4+-based frameworks as a platform for designing electrodes and solid electrolytes for Na-ion batteries: A screening approach. <i>Solid State Ionics</i> , 2022 , 374, 115810 | 3.3 | 1 |
| 23 | Grain Boundaries as a Diffusion-Limiting Factor in Lithium-Rich NMC Cathodes for High-Energy Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6777-6786 | 6.1 | 1 |
| 22 | Determination of the platelet structure in natural diamond by ADF-STEM 2016 , 331-332 | | 1 |
| 21 | Reactivity with Water and Bulk Ruthenium Redox of Lithium Ruthenate in Basic Solutions. <i>Advanced Functional Materials</i> , 2021 , 31, 2002249 | 15.6 | 1 |
| 20 | Li-based layered nickel-tin oxide obtained through electrochemically-driven cation exchange <i>RSC Advances</i> , 2021 , 11, 28593-28601 | 3.7 | 1 |
| 19 | Synthesis and structural characterization of a novel Sill Daurivillius bismuth oxyhalide, PbBi3VO7.5Cl, and its derivatives. <i>Solid State Sciences</i> , 2018 , 75, 27-33 | 3.4 | 1 |

H-TiPO as a Negative Electrode Material for Lithium-Ion Batteries. Inorganic Chemistry, 2021, 60, 12237-1₹246 1 18 Layered Sodium Titanium Trichalcogenide Na2TiCh3 Framework (Ch = S, Se): A Rich Crystal and 9.6 17 Electrochemical Chemistry. Chemistry of Materials, 2022, 34, 2382-2392 Nanoscale Characterization of Growth of Secondary Phases in Off-Stoichiometric CZTS Thin Films. 16 1.3 O Journal of Nanoscience and Nanotechnology, **2018**, 18, 1688-1695 SrBi[Lu(CO)[D][a Bi⊞ oxycarbonate with an original 10L structure. Inorganic Chemistry, 2014, 15 5.1 53, 10266-75 Monoclinic ⊞-NaFePOF with Strong Antisite Disorder and Enhanced Na Diffusion. *Inorganic* 14 5.1 O Chemistry, 2020, 59, 16225-16237 LiVP2O7 as a positive electrode material for Li-ion batteries. Electrochimica Acta, 2021, 389, 138759 6.7 13 Hard carbon as a negative electrode material for potassium-ion batteries prepared with high yield 12 O through a polytetrafluoroethylene-based precursor. Carbon Trends, 2021, 5, 100089 Quantitative electron diffraction tomography for the structure solution of cathode materials for 11 Li-ion batteries 2016, 790-791 Low-temperature solvothermal fluorination method and synthesis of La4Ni3O8Fx oxyfluorides via 10 3.3 the La4Ni3O8 infinite-layer intermediate. Journal of Solid State Chemistry, 2020, 289, 121490 In Situ Electron Diffraction using Liquid-Electrochemical TEM for Monitoring Structural Transformation in Single Crystals Of Cathode Materials for Li-Ion Batteries. Microscopy and 0.5 9 Microanalysis, 2019, 25, 1946-1947 New anion-conducting fluorite-like solid solution Bi1 Ix Te x (O,F)2 + (0.28 Russian Journal of 8 1.5 Inorganic Chemistry, 2013, 58, 749-755 Materials Science Applications of Aberration Corrected TEM and/or STEM. Microscopy and 0.5 Microanalysis, **2015**, 21, 1131-1132 Trapping of Oxygen Vacancies at Crystallographic Shear Planes in Acceptor-Doped Pb-Based 3.6 Ferroelectrics. Angewandte Chemie, 2015, 127, 15000-15003 Electron Diffraction of Commensurately and Incommensurately Modulated Materials. NATO Science 0.2 for Peace and Security Series B: Physics and Biophysics, 2012, 409-417 Synthesis and Structure of 3-Methyl-2,2,4-trinitro-3-thiolene 1,1-dioxide. Russian Journal of General 0.7 Chemistry, **2003**, 73, 434-439 Crystal structure solution of K6.4(Nb,Ta)36.3O94 compound, by using advanced TEM 2016, 989-990 Electrode materials viewed with transmission electron microscopy 2021, Chemical Design of IrS2 Polymorphs to Understand the Charge/Discharge Asymmetry in Anionic 9.6

Redox Systems. Chemistry of Materials, 2022, 34, 325-336