# Tor Grande

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 327 papers | 9,822 citations | 49 h-index | 84 g-index |
| 347 ext. papers | 10,687 ext. citations | 4.9 avg, IF | 6.38 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 327 | Electrochemical Performance of Carbon Anodes Made of Bio-pitch as a Binder. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2022**, 53, 584-593 | 2.5 | |
| 326 | Cation inter-diffusion and formation of intermediate phases in CoO and La2NiO4+δ diffusion couples. *Materials Letters*, **2022**, 310, 131507 | 3.3 | 0 |
| 325 | Epitaxial (100), (110), and (111) BaTiO3 films on SrTiO3 substrates: A transmission electron microscopy study. *Journal of Applied Physics*, **2021**, 129, 095304 | 2.5 | 1 |
| 324 | Understanding the Hydrothermal Formation of NaNbO: Its Full Reaction Scheme and Kinetics. *Inorganic Chemistry*, **2021**, 60, 7632-7640 | 5.1 | 0 |
| 323 | Structures and Role of the Intermediate Phases on the Crystallization of BaTiO from an Aqueous Synthesis Route. *ACS Omega*, **2021**, 6, 9567-9576 | 3.9 | 0 |
| 322 | Hydrothermal synthesis of hexagonal YMnO and YbMnO below 250 °C. *Dalton Transactions*, **2021**, 50, 9904-9913 | 4.3 | 0 |
| 321 | Wetting of Carbon Cathodes by Molten Electrolyte and Aluminium. *Minerals, Metals and Materials Series*, **2021**, 699-707 | 0.3 | 1 |
| 320 | Anisotropic in-plane dielectric and ferroelectric properties of tensile-strained BaTiO3 films with three different crystallographic orientations. *AIP Advances*, **2021**, 11, 025016 | 1.5 | 3 |
| 319 | In situ X-ray diffraction studies of the crystallization of K0.5Na0.5NbO3 powders and thin films from an aqueous synthesis route. *Open Ceramics*, **2021**, 7, 100147 | 3.3 | 0 |
| 318 | Microscopic Link between Electron Localization and Chemical Expansion in AMnO3 and ATiO3 Perovskites (A = Ca, Sr, Ba). *Journal of Physical Chemistry C*, **2020**, 124, 12922-12932 | 3.8 | 6 |
| 317 | Structural Evolution of Ferroelectric and Ferroelastic Barium Sodium Niobate Tungsten Bronze. *Inorganic Chemistry*, **2020**, 59, 8514-8521 | 5.1 | 3 |
| 316 | Performance of a Thermoelectric Module Based on n-Type (La0.12Sr0.88)0.95TiO3 and p-Type Ca3Co4O9+δ *Journal of Electronic Materials*, **2020**, 49, 4154-4159 | 1.9 | 3 |
| 315 | Ferroelectric and dielectric properties of Ca2+-doped and Ca2+–Ti4+ co-doped K0.5Na0.5NbO3 thin films. *Journal of Materials Chemistry C*, **2020**, 8, 5102-5111 | 7.1 | 4 |
| 314 | Controlled Growth of Sr Ba Nb O Hopper- and Cube-Shaped Nanostructures by Hydrothermal Synthesis. *Chemistry - A European Journal*, **2020**, 26, 9348-9355 | 4.8 | 3 |
| 313 | A Fast, Low-Temperature Synthesis Method for Hexagonal YMnO : Kinetics, Purity, Size and Shape as Studied by In Situ X-ray Diffraction. *Chemistry - A European Journal*, **2020**, 26, 9330-9337 | 4.8 | 3 |
| 312 | Electric field dependent polarization switching of tetramethylammonium bromotrichloroferrate(III) ferroelectric plastic crystals. *Applied Physics Letters*, **2020**, 116, 242902 | 3.4 | 3 |
| 311 | Effects of Oxygen Mobility in La–Fe-Based Perovskites on the Catalytic Activity and Selectivity of Methane Oxidation. *ACS Catalysis*, **2020**, 10, 3707-3719 | 13.1 | 60 |

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| 310 | Super-coercive electric field hysteresis in ferroelectric plastic crystal tetramethylammonium bromotrichloroferrate(III). *Journal of Materials Chemistry C*, **2020**, 8, 3206-3216 | 7.1 | 8 |
| 309 | Experimental setup for high-temperature in situ studies of crystallization of thin films with atmosphere control. *Journal of Synchrotron Radiation*, **2020**, 27, 1209-1217 | 2.4 | 4 |
| 308 | A unified approach for the calculation of in-plane dielectric constant of films with interdigitated electrodes. *Smart Materials and Structures*, **2020**, 29, 115039 | 3.4 | 2 |
| 307 | Biocompatibility of Piezoelectric KNaNbO Thin Films on Platinized Silicon Substrates.. *ACS Applied Bio Materials*, **2020**, 3, 8714-8721 | 4.1 | 4 |
| 306 | On the formation mechanism of Ba0.85Ca0.15Zr0.1Ti0.9O3 thin films by aqueous chemical solution deposition. *Journal of the European Ceramic Society*, **2020**, 40, 5376-5383 | 6 | 3 |
| 305 | Mechanisms for texture in BaTiO3 thin films from aqueous chemical solution deposition. *Journal of Sol-Gel Science and Technology*, **2020**, 95, 562-572 | 2.3 | 5 |
| 304 | Application of a long short-term memory for deconvoluting conductance contributions at charged ferroelectric domain walls. *Npj Computational Materials*, **2020**, 6, | 10.9 | 7 |
| 303 | Microstructural and compositional optimization of La0.5Ba0.5CoO3−BaZr1−YzO3− (z = 0, 0.05 and 0.1) nanocomposite cathodes for protonic ceramic fuel cells. *JPhys Energy*, **2020**, 2, 015001 | 4.9 | 2 |
| 302 | Carbon Cathode Wear in Aluminium Electrolysis Cells. *Jom*, **2020**, 72, 210-217 | 2.1 | 5 |
| 301 | Composition and morphology tuning during hydrothermal synthesis of SrxBa1−Nb2O6 tetragonal tungsten bronzes studied by in situ X-ray diffraction. *CrystEngComm*, **2019**, 21, 5922-5930 | 3.3 | 4 |
| 300 | Surface reactivity and cation non-stoichiometry in BaZr1−YxO3− (x = 0–0.2) exposed to CO2 at elevated temperature. *Journal of Materials Chemistry A*, **2019**, 7, 3848-3856 | 13 | 12 |
| 299 | In Situ Monitoring of Pit Gas Composition During Baking of Anodes for Aluminum Electrolysis. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2019**, 50, 950-957 | 2.5 | 4 |
| 298 | The Effect of Cation Disorder on Ferroelectric Properties of SrBaNbO Tungsten Bronzes. *Materials*, **2019**, 12, | 3.5 | 11 |
| 297 | Processing of high performance composite cathodes for protonic ceramic fuel cells by exsolution. *Journal of Materials Chemistry A*, **2019**, 7, 8609-8619 | 13 | 27 |
| 296 | Epitaxial KNaNbO thin films by aqueous chemical solution deposition. *Royal Society Open Science*, **2019**, 6, 180989 | 3.3 | 11 |
| 295 | Thermoelectric Properties of CaCoMnO ( = 0.05, 0.2, 0.5, 0.75, and 1). *Materials*, **2019**, 12, | 3.5 | 5 |
| 294 | Chemical Durability of Thermal Insulating Materials in Hall-Héroult Electrolysis Cells. *Ceramics*, **2019**, 2, 441-459 | 1.7 | 1 |
| 293 | Controlling Phase Purity and Texture of KNaNbO Thin Films by Aqueous Chemical Solution Deposition. *Materials*, **2019**, 12, | 3.5 | 11 |

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| 292 | Local structural coupling of A- and B-site disorder in perovskite bismuth-based piezoelectrics. *Acta Materialia*, **2019**, 177, 222-229 | 8.4 | 1 |
| 291 | Compositional Engineering of LaBaCoO-(1-) BaZrYO ( = 0.6, 0.7, 0.8 and x = 0.5, 0.6, 0.7) Nanocomposite Cathodes for Protonic Ceramic Fuel Cells. *Materials*, **2019**, 12, | 3.5 | 2 |
| 290 | In Situ Monitoring of Pit Gas Composition During Baking of Anodes for Aluminum Electrolysis. *Minerals, Metals and Materials Series*, **2019**, 1291-1292 | 0.3 | |
| 289 | Thermogravimetric Analysis of Thermal Insulating Materials Exposed to Sodium Vapor. *Minerals, Metals and Materials Series*, **2019**, 737-744 | 0.3 | |
| 288 | Autopsy of refractory lining in anode kilns with open and closed design. *International Journal of Applied Ceramic Technology*, **2019**, 16, 602-613 | 2 | 3 |
| 287 | Rationalization of Hydrothermal Synthesis of NaNbO3 by Rapid in Situ Time-Resolved Synchrotron X-ray Diffraction. *Crystal Growth and Design*, **2018**, 18, 770-774 | 3.5 | 15 |
| 286 | Structural Disorder and Coherence across the Phase Transitions of Lead-Free Piezoelectric Bi0.5K0.5TiO3. *Chemistry of Materials*, **2018**, 30, 2631-2640 | 9.6 | 15 |
| 285 | Biaxial strength and slow crack growth in porous alumina with silica sintering aid. *Journal of the European Ceramic Society*, **2018**, 38, 665-670 | 6 | 5 |
| 284 | Thermal evolution of the crystal structure and phase transitions of KNbO. *Royal Society Open Science*, **2018**, 5, 180368 | 3.3 | 8 |
| 283 | Tailoring properties of nanostructured MoO3 thin films by aqueous solution deposition. *Applied Surface Science*, **2018**, 459, 822-829 | 6.7 | 9 |
| 282 | Facile Low Temperature Hydrothermal Synthesis of BaTiO3 Nanoparticles Studied by In Situ X-ray Diffraction. *Crystals*, **2018**, 8, 253 | 2.3 | 11 |
| 281 | 96Zr Tracer Diffusion in AZrO3 (A = Ca, Sr, Ba). *Inorganics*, **2018**, 6, 14 | 2.9 | 7 |
| 280 | Effect of Cation Ordering on the Performance and Chemical Stability of Layered Double Perovskite Cathodes. *Materials*, **2018**, 11, | 3.5 | 26 |
| 279 | All-Oxide Thermoelectric Module with in Situ Formed Non-Rectifying Complex p-p-n Junction and Transverse Thermoelectric Effect. *ACS Omega*, **2018**, 3, 9899-9906 | 3.9 | 9 |
| 278 | Goldstone-like phonon modes in a (111)-strained perovskite. *Physical Review Materials*, **2018**, 2, | 3.2 | 11 |
| 277 | Formation of Aluminium Carbide in Hall-Héoult Electrolysis Cell Environments. *Minerals, Metals and Materials Series*, **2018**, 1215-1222 | 0.3 | |
| 276 | Modified Pechini Synthesis of Oxide Powders and Thin Films **2018**, 1089-1118 | | 3 |
| 275 | Influence of processing on stability, microstructure and thermoelectric properties of Ca3Co4O9+ *Journal of the European Ceramic Society*, **2018**, 38, 1592-1599 | 6 | 18 |

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| 274 | Kinetics during hydrothermal synthesis of nanosized KxNa1−xNbO3. *CrystEngComm*, **2018**, 20, 6795-6802 | 3.3 | 10 |
| 273 | Enhanced in-plane ferroelectricity in BaTiO3 thin films fabricated by aqueous chemical solution deposition. *AIP Advances*, **2018**, 8, 105228 | 1.5 | 15 |
| 272 | High-Performance La0.5Ba0.5Co1/3Mn1/3Fe1/3O3−δ–BaZr1−xYxO3−δ Cathode Composites via an Exsolution Mechanism for Protonic Ceramic Fuel Cells. *Inorganics*, **2018**, 6, 83 | 2.9 | 10 |
| 271 | The effect of Zr-substitution in La1-Sr Co0.2M0.6Zr0.2O3-δ (M = Fe, Mn) on the crystal structure, thermal expansion and electronic transport properties. *Solid State Ionics*, **2017**, 301, 53-58 | 3.3 | 1 |
| 270 | Progression of reduction of MoO3 observed in powders and solution-processed films. *Thin Solid Films*, **2017**, 626, 94-103 | 2.2 | 24 |
| 269 | Toughening of Y-doped BaZrO3 proton conducting electrolytes by hydration. *Journal of Materials Chemistry A*, **2017**, 5, 5846-5857 | 13 | 29 |
| 268 | Formation mechanism and growth of MNbO3, M=K, Na by in´situ X-ray diffraction. *Journal of the American Ceramic Society*, **2017**, 100, 3835-3842 | 3.8 | 17 |
| 267 | Controlling Oriented Attachment and in Situ Functionalization of TiO2 Nanoparticles During Hydrothermal Synthesis with APTES. *Journal of Physical Chemistry C*, **2017**, 121, 11897-11906 | 3.8 | 17 |
| 266 | Local Structure of Disordered Bi0.5K0.5TiO3 Investigated by Pair Distribution Function Analysis and First-Principles Calculations. *Chemistry of Materials*, **2017**, 29, 4244-4252 | 9.6 | 39 |
| 265 | Electronic properties of reduced molybdenum oxides. *Physical Chemistry Chemical Physics*, **2017**, 19, 9232-9245 | 3.6 | 127 |
| 264 | Nonlinear mechanical behaviour of Ba0.5Sr0.5Co0.8Fe0.2O3−δ and in situ stress dependent synchrotron X-ray diffraction study. *Solid State Ionics*, **2017**, 300, 106-113 | 3.3 | 10 |
| 263 | Tracer diffusion of Zr and Ba in polycrystalline BaZrO. *Physical Chemistry Chemical Physics*, **2017**, 19, 21873-21886 | 3.6 | 29 |
| 262 | Role of Lone Pair Cations in Ferroelectric Tungsten Bronzes. *Chemistry of Materials*, **2017**, 29, 6414-6424 | 9.6 | 11 |
| 261 | Surface Diffusion of Oxygen Transport Membrane Materials Studied by Grain-Boundary Grooving. *Journal of the American Ceramic Society*, **2017**, 100, 354-364 | 3.8 | 1 |
| 260 | 134Ba diffusion in polycrystalline BaMO3 (M = Ti, Zr, Ce). *AIP Advances*, **2017**, 7, 115024 | 1.5 | 7 |
| 259 | Functionalized TiO nanoparticles by single-step hydrothermal synthesis: the role of the silane coupling agents. *Beilstein Journal of Nanotechnology*, **2017**, 8, 304-312 | 3 | 31 |
| 258 | Fabrication of Lead-Free BiNaTiO3 Thin Films by Aqueous Chemical Solution Deposition. *Materials*, **2017**, 10, | 3.5 | 7 |
| 257 | Structure and Optical Properties of Titania-PDMS Hybrid Nanocomposites Prepared by In Situ Non-Aqueous Synthesis. *Nanomaterials*, **2017**, 7, | 5.4 | 15 |

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| 256 | Formation of Carbon Build-Up on the Flue Wall of Anode Baking Furnace. *Minerals, Metals and Materials Series*, **2017**, 1265-1274 | 0.3 | 2 |
| 255 | Investigation of Spent Refractory Lining in an Anode Baking Furnace. *Minerals, Metals and Materials Series*, **2017**, 1281-1288 | 0.3 | 5 |
| 254 | Chemical Stability of Thermal Insulating Materials in Sodium Vapour Environment. *Minerals, Metals and Materials Series*, **2017**, 543-549 | 0.3 | 3 |
| 253 | Cathode Wear Based on Autopsy of a Shutdown Aluminium Electrolysis Cell. *Minerals, Metals and Materials Series*, **2017**, 561-570 | 0.3 | 1 |
| 252 | Luminescent Eu3+-doped NaLa(WO4)(MoO4) and Ba2CaMoO6 prepared by the modified Pechini method. *Journal of Sol-Gel Science and Technology*, **2016**, 77, 136-144 | 2.3 | 10 |
| 251 | Compositional dependence of the crystal symmetry of Eu3+-doped (Sr Ba1−)2CaWyMo1−O6 phosphors. *Journal of Solid State Chemistry*, **2016**, 233, 30-36 | 3.3 | 9 |
| 250 | Crystal structure, thermal expansion and electrical conductivity of LaCoNiMoO. *Dalton Transactions* , **2016**, 45, 15290-15293 | 4.3 | |
| 249 | Origin of ferroelectric polarization in tetragonal tungsten-bronze-type oxides. *Physical Review B*, **2016**, 93, | 3.3 | 30 |
| 248 | The Effect of Cryolite on the Formation of Aluminum Carbide at the Carbon Aluminum Interface. *Minerals, Metals and Materials Series*, **2016**, 1245-1250 | 0.3 | |
| 247 | Photoluminescence of A- and B-site Eu3+-substituted (Sr Ba1−)2CaW Mo1−O6 phosphors. *Journal of Solid State Chemistry*, **2016**, 237, 72-80 | 3.3 | 15 |
| 246 | White light emitting silicon nano-crystals-polymeric hybrid films prepared by single batch solution based method. *Thin Solid Films*, **2016**, 603, 126-133 | 2.2 | 5 |
| 245 | Electrical conductivity and ferroelastic properties of Ti-substituted solid solutions (1 −x ) BiFeO 3 − x Bi 0.5 K 0.5 TiO 3. *Journal of the European Ceramic Society*, **2016**, 36, 497-506 | 6 | 17 |
| 244 | Modified Pechini Synthesis of Oxide Powders and Thin Films **2016**, 1-30 | | 15 |
| 243 | Cathode Wear in Electrowinning of Aluminum Investigated by a Laboratory Test Cell **2016**, 897-902 | | 1 |
| 242 | Critical Reflections on Laboratory Wear Tests for Ranking Commercial Cathode Materials in Aluminium Cells. *Minerals, Metals and Materials Series*, **2016**, 1251-1256 | 0.3 | |
| 241 | Chemical Degradation Map for Sodium Attack in Refractory Linings **2016**, 978-983 | | |
| 240 | Cathode Refractory Materials for Aluminium Reduction Cells **2016**, 849-856 | | |
| 239 | Effect of A-Site Cation Ordering on Chemical Stability, Oxygen Stoichiometry and Electrical Conductivity in Layered LaBaCo− Double Perovskite. *Materials*, **2016**, 9, | 3.5 | 42 |

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| 238 | Synthesis and oxygen transport properties of La2ySryNi1xMoxO4+ *Solid State Ionics*, **2016**, 292, 38-44 | 3.3 | 13 |
| 237 | A van der Waals Density Functional Study of MoO3 and Its Oxygen Vacancies. *Journal of Physical Chemistry C*, **2016**, 120, 8959-8968 | 3.8 | 64 |
| 236 | Cathode Wear in Electrowinning of Aluminum Investigated by a Laboratory Test Cell **2016**, 895-902 | | |
| 235 | Effect of CO2 Exposure on the Chemical Stability and Mechanical Properties of BaZrO3-Ceramics. *Journal of the American Ceramic Society*, **2016**, 99, 3685-3695 | 3.8 | 35 |
| 234 | High temperature X-ray diffraction and thermo-gravimetrical analysis of the cubic perovskite Ba0.5Sr0.5Co0.8Fe0.2O3- under different atmospheres. *Dalton Transactions*, **2015**, 44, 10875-81 | 4.3 | 17 |
| 233 | Thermal evolution of the crystal structure of proton conducting BaCe0.8Y0.2O3- from high-resolution neutron diffraction in dry and humid atmosphere. *Dalton Transactions*, **2015**, 44, 10834-46 | 4.3 | 24 |
| 232 | Diffusion of alkali metals in the first stage graphite intercalation compounds by vdW-DFT calculations. *RSC Advances*, **2015**, 5, 15985-15992 | 3.7 | 46 |
| 231 | Electrical conductivity and thermopower of (1 - x) BiFeO(3) - xBi(0.5)K(0.5)TiO3 (x = 0.1, 0.2) ceramics near the ferroelectric to paraelectric phase transition. *Physical Chemistry Chemical Physics*, **2015**, 17, 9420-8 | 3.6 | 28 |
| 230 | Sintering of sub-micron K 0.5 Na 0.5 NbO 3 powders fabricated by spray pyrolysis. *Journal of the European Ceramic Society*, **2015**, 35, 1449-1457 | 6 | 30 |
| 229 | Aqueous tape casting and mechanical properties of La2NiO4+ dense membranes. *Journal of the European Ceramic Society*, **2015**, 35, 309-315 | 6 | 4 |
| 228 | In-situ structural investigations of ferroelasticity in soft and hard rhombohedral and tetragonal PZT. *Journal of Applied Physics*, **2015**, 118, 164104 | 2.5 | 28 |
| 227 | Mechanical stability of piezoelectric properties in ferroelectric perovskites. *Journal of Applied Physics*, **2015**, 117, 194101 | 2.5 | 24 |
| 226 | On the energetics of cation ordering in tungsten-bronze-type oxides. *Physical Chemistry Chemical Physics*, **2015**, 17, 30343-51 | 3.6 | 12 |
| 225 | Synthesis and characterization of hybrid aminopropyl silane-based coatings on stainless steel substrates. *Surface and Coatings Technology*, **2014**, 238, 1-8 | 4.4 | 14 |
| 224 | 1D oxide nanostructures from chemical solutions. *Chemical Society Reviews*, **2014**, 43, 2187-99 | 58.5 | 83 |
| 223 | Octoxy capped Si nanoparticles synthesized by homogeneous reduction of SiCl4 with crown ether alkalide. *Dalton Transactions*, **2014**, 43, 2127-33 | 4.3 | 7 |
| 222 | Oxygen Non-Stoichiometry and Electrical Conductivity of La0.2Sr0.8Fe0.8B0.2O3 B = Fe, Ti, Ta. *Journal of the Electrochemical Society*, **2014**, 161, F176-F184 | 3.9 | 11 |
| 221 | Optimisation of chemical solution deposition of indium tin oxide thin films. *Thin Solid Films*, **2014**, 573, 48-55 | 2.2 | 15 |

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|---|---|---|---|
| 220 | Atmosphere controlled conductivity and Maxwell-Wagner relaxation in Bi0.5K0.5TiO3BiFeO3 ceramics. *Journal of Applied Physics*, **2014**, 115, 044104 | 2.5 | 33 |
| 219 | Van der Waals density functional study of the energetics of alkali metal intercalation in graphite. *RSC Advances*, **2014**, 4, 3973-3983 | 3.7 | 89 |
| 218 | Direct observation of ferroelectric field effect and vacancy-controlled screening at the BiFeO3/LaxSr1-xMnO3 interface. *Nature Materials*, **2014**, 13, 1019-25 | 27 | 195 |
| 217 | Solid-State Synthesis and Properties of Relaxor (1)BKTBNZ Ceramics. *Journal of the American Ceramic Society*, **2014**, 97, 2928-2935 | 3.8 | 17 |
| 216 | Control of conductivity and electric field induced strain in bulk Bi0.5K0.5TiO3BiFeO3 ceramics. *Applied Physics Letters*, **2014**, 104, 122905 | 3.4 | 24 |
| 215 | Solid solubility of rare earth elements (Nd, Eu, Tb) in In2-xSnxO3 - effect on electrical conductivity and optical properties. *Dalton Transactions*, **2014**, 43, 9620-32 | 4.3 | 14 |
| 214 | Revisiting the crystal structure of rhombohedral lead metaniobate. *Inorganic Chemistry*, **2014**, 53, 9715-21 | 5.1 | 9 |
| 213 | Thermal and mechanical properties of crack-designed thick lanthanum zirconate coatings. *Journal of the European Ceramic Society*, **2014**, 34, 975-984 | 6 | 16 |
| 212 | Anelastic properties of La0.6Sr0.4Co1 FeyO3- at high temperatures. *Solid State Ionics*, **2014**, 262, 337-339 | 3.3 | 3 |
| 211 | Chemical Expansion Due to Hydration of Proton-Conducting Perovskite Oxide Ceramics. *Journal of the American Ceramic Society*, **2014**, 97, 2654-2661 | 3.8 | 67 |
| 210 | Effect of crystallographic orientation in textured Ba0.92Ca0.08TiO3 piezoelectric ceramics. *Journal of Applied Physics*, **2014**, 116, 134102 | 2.5 | 17 |
| 209 | Piezoelectric K0.5Na0.5NbO3 Ceramics Textured Using Needlelike K0.5Na0.5NbO3 Templates. *Journal of the American Ceramic Society*, **2014**, 97, 3818-3825 | 3.8 | 26 |
| 208 | Solid Solutions of Lead MetaniobateStabilization of the Ferroelectric Polymorph and the Effect on the Lattice Parameters, Dielectric, Ferroelectric, and Piezoelectric Properties. *Journal of the American Ceramic Society*, **2014**, 97, 220-227 | 3.8 | 14 |
| 207 | Interaction of Sodium Vapor and Graphite Studied by Thermogravimetric Analysis **2014**, 1239-1244 | | |
| 206 | Interaction of Sodium Vapor and Graphite Studied by Thermogravimetric Analysis **2014**, 1239-1244 | | 1 |
| 205 | Anisotropic and Nonlinear Thermal and Chemical Expansion of La1SrxFeO3(x = 0.3, 0.4, 0.5) Perovskite Materials. *Chemistry of Materials*, **2013**, 25, 3296-3306 | 9.6 | 31 |
| 204 | Strain-controlled oxygen vacancy formation and ordering in CaMnO3. *Physical Review B*, **2013**, 88, | 3.3 | 250 |
| 203 | Influence of the precursor solution chemistry on the deposition of thick coatings by spray pyrolysis. *Surface and Coatings Technology*, **2013**, 221, 53-58 | 4.4 | 10 |

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| 202 | Solution based synthesis of simple fcc Si nano-crystals under ambient conditions. *Dalton Transactions*, **2013**, 42, 2700-3 | 4.3 | 7 |
| 201 | Lanthanum zirconate thermal barrier coatings deposited by spray pyrolysis. *Surface and Coatings Technology*, **2013**, 227, 10-14 | 4.4 | 21 |
| 200 | Crystal structure, electrical conductivity and thermal expansion of Ni and Nb co-doped LaCoO3. *Dalton Transactions*, **2013**, 42, 2704-15 | 4.3 | 19 |
| 199 | Anisotropic Chemical Expansion of La1⊠SrxCoO3⊡*Chemistry of Materials*, **2013**, 25, 927-934 | 9.6 | 33 |
| 198 | Electrochemical Wear of Carbon Cathodes in Electrowinning of Aluminum. *Jom*, **2013**, 65, 1403-1410 | 2.1 | 11 |
| 197 | Solid state mechanism leading to enhanced attrition resistance of alumina based catalyst supports for Fischer⊡ropsch synthesis. *Journal of the European Ceramic Society*, **2013**, 33, 1-6 | 6 | 11 |
| 196 | Solid state sintering of nano-crystalline indium tin oxide. *Journal of the European Ceramic Society*, **2013**, 33, 565-574 | 6 | 33 |
| 195 | The Effect of Ferroelasticity of La1-XSrxCo1-YFeyO3-´on the Mechanical Stability of Solid Oxide Fuel Cells. *ECS Transactions*, **2013**, 57, 635-642 | 1 | 7 |
| 194 | Crack Engineering in Thick Coatings Prepared by Spray Pyrolysis Deposition. *Journal of the American Ceramic Society*, **2013**, 96, 420-428 | 3.8 | 5 |
| 193 | Non-linear thermal evolution of the crystal structure and phase transitions of LaFeO3 investigated by high temperature X-ray diffraction. *Journal of Solid State Chemistry*, **2012**, 196, 249-254 | 3.3 | 61 |
| 192 | Crystal structure, chemical expansion and phase stability of HoMnO3 at high temperature. *Journal of Solid State Chemistry*, **2012**, 196, 528-535 | 3.3 | 19 |
| 191 | Anisotropic Thermal and Chemical Expansion in Sr-Substituted LaMnO3+⊡Implications for Chemical Strain Relaxation. *Chemistry of Materials*, **2012**, 24, 338-345 | 9.6 | 61 |
| 190 | Structural coherence and ferroelectric order in nanosized multiferroic YMnO3. *Physical Review B*, **2012**, 86, | 3.3 | 8 |
| 189 | Structure, thermal expansion and electrical conductivity of Nb-substituted LaCoO3. *Journal of Solid State Chemistry*, **2012**, 192, 246-254 | 3.3 | 26 |
| 188 | Hydrogen permeation, transport properties and microstructure of Ca-doped LaNbO4 and LaNb3O9 composites. *Journal of Membrane Science*, **2012**, 415-416, 878-885 | 9.6 | 32 |
| 187 | Effect of B-site substitution on the stability of La0.2Sr0.8Fe0.8B0.2O3 ⊡B = Al, Ga, Cr, Ti, Ta, Nb. *Solid State Ionics*, **2012**, 225, 186-189 | 3.3 | 19 |
| 186 | Lead-Free Relaxor-Like 0.75Bi0.5K0.5TiO3 ⊡0.25BiFeO3 Ceramics with Large Electric Field-Induced Strain. *Ferroelectrics*, **2012**, 439, 88-94 | 0.6 | 25 |
| 185 | Transparent and conducting ITO thin films by spin coating of an aqueous precursor solution. *Journal of Materials Chemistry*, **2012**, 22, 15740 | | 90 |

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| 184 | Polarization and strain response in Bi0.5K0.5TiO3-BiFeO3 ceramics. *Applied Physics Letters*, **2012**, 101, 252904 | 3.4 | 44 |
| 183 | Synthesis of Monodisperse Silicon Quantum Dots Through a K-Naphthalide Reduction Route. *Journal of Cluster Science*, **2012**, 23, 421-435 | 3 | 8 |
| 182 | Chemical Degradation of Cathode Linings in Hall-Héroult Cells—An Autopsy Study of Three Spent Pot Linings. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2012**, 43, 290-301 | 2.5 | 26 |
| 181 | Thermal Conductivity of Porous Si3N4-Bonded SiC Sidewall Materials in Aluminum Electrolysis Cells. *Journal of the American Ceramic Society*, **2012**, 95, 730-738 | 3.8 | 6 |
| 180 | Spark Plasma Sintering and Hot Pressing of Hetero-Doped LaNbO4. *Journal of the American Ceramic Society*, **2012**, 95, 1563-1571 | 3.8 | 9 |
| 179 | The effect of cation non-stoichiometry in LaNbO4 materials. *International Journal of Hydrogen Energy*, **2012**, 37, 8017-8026 | 6.7 | 28 |
| 178 | Investigation of the Cathode Wear Mechanism in a Laboratory Test Cell **2012**, 1349-1354 | | 7 |
| 177 | Fundamentals of Aluminium Carbide Formation **2012**, 1343-1348 | | 5 |
| 176 | Investigation of the Cathode Wear Mechanism in a Laboratory Test Cell **2012**, 1349-1354 | | 1 |
| 175 | Synthesis, structure and magnetic properties of nanocrystalline YMnO3. *Dalton Transactions*, **2011**, 40, 7583-9 | 4.3 | 42 |
| 174 | Molten salt synthesis of K4Nb6O17, K2Nb4O11 and KNb3O8 crystals with needle- or plate-like morphology. *CrystEngComm*, **2011**, 13, 1304-1313 | 3.3 | 41 |
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| 172 | Cation inter-diffusion between LaMnO3 and LaCoO3 materials. *Solid State Ionics*, **2011**, 202, 6-13 | 3.3 | 28 |
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