

Michael W Lufaso

List of Publications by Year in descending order

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236925

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docs citations

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times ranked

3125

citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Prediction of the crystal structures of perovskites using the software program SPuDS. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 725-738. | 1.8 | 603 |
| 2 | Jahn-Teller distortions, cation ordering and octahedral tilting in perovskites. <i>Acta Crystallographica Section B: Structural Science</i> , 2004, 60, 10-20. | 1.8 | 267 |
| 3 | Crystal Structures, Modeling, and Dielectric Property Relationships of 2:1 Ordered Ba ₃ MM'Nb ₂ O ₉ (M = Tj, ETQq1, 1.0784314, rgBT, Ove _{6.7}) | 6.7 | 189 |
| 4 | Structure prediction of ordered and disordered multiple octahedral cation perovskites using SPuDS. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 397-410. | 1.8 | 166 |
| 5 | Phase formation, crystal chemistry, and properties in the system Bi ₂ O ₃ -Fe ₂ O ₃ -Nb ₂ O ₅ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 3900-3910. | 2.9 | 123 |
| 6 | Structure determination of A ₂ M ₃ +TaO ₆ and A ₂ M ₃ +NbO ₆ ordered perovskites: octahedral tilting and pseudosymmetry. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 384-396. | 1.8 | 116 |
| 7 | An Unexpected Crystal-Chemical Principle for the Pyrochlore Structure. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2895-2901. | 2.0 | 113 |
| 8 | Absorption Properties of a Porous Organic Crystalline Apohost Formed by a Self-Assembled Bis-Urea Macrocycle. <i>Chemistry of Materials</i> , 2006, 18, 4855-4864. | 6.7 | 96 |
| 9 | Light-Induced Changes in Magnetism in a Coordination Polymer Heterostructure, Rb _{0.24} Co[Fe(CN) ₆] _{0.74} @K _{0.10} Co[Cr(CN) ₆] _{0.70} and the Role of the Shell Thickness on the Properties of Both Core and Shell. <i>Journal of the American Chemical Society</i> , 2014, 136, 15660-15669. | 13.7 | 86 |
| 10 | Subsolidus phase equilibria and properties in the system Bi ₂ O ₃ :Mn ₂ O ₃ ±x:Nb ₂ O ₅ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 3467-3477. | 2.9 | 83 |
| 11 | Phase Formation and Properties in the System Bi ₂ O ₃ :2CoO _{1+x} :Nb ₂ O ₅ . <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4908-4914. | 2.0 | 70 |
| 12 | Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. <i>Progress in Solid State Chemistry</i> , 2008, 36, 1-133. | 7.2 | 58 |
| 13 | The effects of small metal additions (Co,Cu,Ga,Mn,Al,Bi,Sn) on the magnetocaloric properties of the Gd ₅ Ge ₂ Si ₂ alloy. <i>Journal of Applied Physics</i> , 2006, 99, 08K908. | 2.5 | 56 |
| 14 | High-Pressure Synthesis and Characterization of Perovskites with Simultaneous Ordering of Both the A- and B-Site Cations, CaCu ₃ Ga ₂ M ₂ O ₁₂ (M = Sb, Ta). <i>Chemistry of Materials</i> , 2003, 15, 3798-3804. | 6.7 | 52 |
| 15 | Crystal structures of disordered A ₂ Mn ₃ +M ₅ +O ₆ (A=Sr, Ca; M=Sb, Nb, Ru) perovskites. <i>Journal of Solid State Chemistry</i> , 2004, 177, 1651-1659. | 2.9 | 49 |
| 16 | Local Structures and Raman Spectra in the Ca(Zr,Ti)O ₃ Perovskite Solid Solutions. <i>Chemistry of Materials</i> , 2006, 18, 854-860. | 6.7 | 42 |
| 17 | Crystal Chemistry and Microwave Dielectric Properties of Ba ₃ MNb _{2-x} SbxO ₉ (M = Mg, Ni, Zn). <i>Chemistry of Materials</i> , 2005, 17, 4250-4255. | 6.7 | 41 |
| 18 | Structural studies of Sr ₂ GaSbO ₆ , Sr ₂ NiMoO ₆ , and Sr ₂ FeNbO ₆ using pressure and temperature. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8761-8780. | 1.8 | 40 |

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|----|--|-----|-----------|
| 19 | Ba-doping effects on structural, magnetic and vibrational properties of disordered La ₂ NiMnO ₆ . Journal of Alloys and Compounds, 2016, 663, 899-905. | 5.5 | 33 |
| 20 | Temperature-dependent Raman spectra of Ba ₂ BiSbO ₆ ceramics. Journal of Raman Spectroscopy, 2009, 40, 1205-1210. | 2.5 | 31 |
| 21 | Multiply Charged Redox-Active Oligomers in the Gas Phase: Electrolytic Electrospray Ionization Mass Spectrometry of Metallocenes. Journal of Physical Chemistry B, 1998, 102, 10078-10086. | 2.6 | 28 |
| 22 | Synthesis, structure, magnetic properties and structural distortion under high pressure of a new osmate, Sr ₂ CuOsO ₆ . Journal of Solid State Chemistry, 2008, 181, 623-627. | 2.9 | 27 |
| 23 | Spin-phonon coupling in Gd(Co _{1/2} Mn _{1/2})O ₃ perovskite. Journal of Applied Physics, 2013, 114, . | 2.5 | 27 |
| 24 | Crystal Structures and Magnetic Properties of Mixed Iridium-Ruthenium Triple Perovskites. 1. Ba ₃ MRuIrO ₉ (M = Lanthanide, Y). Inorganic Chemistry, 2005, 44, 9143-9153. | 4.0 | 26 |
| 25 | Relaxations in Ba ₂ BiSbO ₆ double complex perovskite ceramics. Journal of Applied Physics, 2008, 104, . | 2.5 | 26 |
| 26 | Pressure induced octahedral tilting distortion in Ba ₂ YTaO ₆ . Chemical Communications, 2006, , 168-170. | 4.1 | 24 |
| 27 | Temperature-dependent Raman spectra of Bi ₂ Sn ₂ O ₇ ceramics. Vibrational Spectroscopy, 2013, 64, 172-177. | 2.2 | 24 |
| 28 | Nitration of cyclopentenecarboxaldehyde: Studies toward 1-amino-2-nitrocyclopentanecarboxylic acid. Tetrahedron Letters, 1998, 39, 6617-6620. | 1.4 | 21 |
| 29 | Crystal Structures and Magnetic Properties of Mixed Iridium-Ruthenium Triple Perovskites. 2. Ba ₃ MRuIrO ₉ (M = Li, Na, Mg, Ni, Zn, Bi, In). Inorganic Chemistry, 2005, 44, 9154-9161. | 4.0 | 21 |
| 30 | Pressure-induced phase transition and octahedral tilt system change of Ba ₂ BiSbO ₆ . Journal of Solid State Chemistry, 2006, 179, 917-922. | 2.9 | 20 |
| 31 | Mixed crystal formation and structural studies in the mullite-type system Bi ₂ Fe ₄ O ₉ -Bi ₂ Mn ₄ O ₁₀ . Journal of Solid State Chemistry, 2012, 185, 62-71. | 2.9 | 20 |
| 32 | Compression mechanisms of symmetric and Jahn-Teller distorted octahedra in double perovskites: A ₂ CuWO ₆ (A=Sr, Ba), Sr ₂ CoMoO ₆ , and La ₂ LiRuO ₆ . Journal of Solid State Chemistry, 2006, 179, 3556-3561. | 2.9 | 19 |
| 33 | Order-Disorder Transition Involving the A-Site Cations in $\text{Ln}^{3+}\text{Mn}^{3+}\text{V}^{4+}\text{O}^{12-}$ Perovskites. Inorganic Chemistry, 2014, 53, 594-599. | 4.0 | 18 |
| 34 | Reactions of oxygen atoms with van der Waals complexes: The effect of complex formation on the internal energy distribution in the products. Journal of Chemical Physics, 1998, 108, 9651-9657. | 3.0 | 15 |
| 35 | Pressure- and temperature-dependent X-ray diffraction studies of NdCrO ₃ . Journal of Alloys and Compounds, 2007, 433, 91-96. Raman spectroscopy evidence of inhomogeneous disorder in the bismuth-oxygen framework of Bi<math xmlns:mml="http://www.w3.org/1998/Math/MathML">InO_{12}</math> Perovskites. Inorganic Chemistry, 2014, 53, 594-599. | 5.5 | 15 |
| 36 | InO_{12} and other sillenites. Physical Review B, 2012, 86, . | 3.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Using Bond Valences to Model the Structures of Ternary and Quaternary Oxides. Structure and Bonding, 2013, , 59-90. | 1.0 | 12 |
| 38 | Room-temperature vibrational properties of the BiMn ₂ O ₅ mullite. Vibrational Spectroscopy, 2013, 66, 43-49. | 2.2 | 11 |
| 39 | Electron diffraction study of the sillenites Bi ₁₂ SiO ₂₀ , Bi ₂₅ FeO ₃₉ and Bi ₂₅ InO ₃₉ : Evidence of short-range ordering of oxygen-vacancies in the trivalent sillenites. AIP Advances, 2014, 4, 087125. | 1.3 | 11 |
| 40 | Ba ₄ KFe ₃ O ₉ : A Novel Ferrite Containing Discrete 6-Membered Rings of Corner-Sharing FeO ₄ Tetrahedra. Inorganic Chemistry, 2011, 50, 10310-10318. | 4.0 | 10 |
| 41 | Negative and positive thermal expansion-like volume changes due to intermetallic charge transfer based on an ionic crystal model of transition-metal oxides. APL Materials, 2018, 6, . | 5.1 | 9 |
| 42 | Crystal structure, magnetic, and dielectric properties of Aurivillius-type Bi ₃ Fe _{0.5} Nb _{1.5} O ₉ . Journal of Solid State Chemistry, 2007, 180, 2655-2660. | 2.9 | 7 |
| 43 | Ionic conductivity in Bi ₂ Sn ₂ O ₇ ceramics. Ceramics International, 2012, 38, 1275-1279. | 4.8 | 7 |
| 44 | Relaxations in Ba ₂ BiTaO ₆ ceramics investigated by impedance and electric modulus spectroscopies. Materials Research Bulletin, 2012, 47, 878-882. | 5.2 | 6 |
| 45 | Ionic conductivity of directionally solidified zirconia-mullite eutectics. Solid State Ionics, 2014, 256, 45-51. | 2.7 | 5 |
| 46 | Optical phonon features in ferroelectric Bi ₃ Fe _{1/2} Nb _{3/2} O ₉ . Vibrational Spectroscopy, 2012, 63, 409-417. | 2.2 | 4 |
| 47 | Effects of complex formation on reactions of oxygen with HCl and Ar-HCl. Chemical Physics, 1998, 239, 187-197. | 1.9 | 3 |
| 48 | The synthesis, spectroscopic, electrochemical and X-ray diffraction characterization of novel bridged ferrocene precursors for use in self-assembled monolayers. Journal of Organometallic Chemistry, 2006, 691, 680-686. | 1.8 | 3 |
| 49 | Continuous phase transition in Ba ₃ BiRuIrO ₉ . Solid State Sciences, 2006, 8, 1051-1055. | 3.2 | 3 |
| 50 | 1,12-Diferrocenyldodecane at 100...K. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m1070-m1072. | 0.2 | 1 |
| 51 | New pressure induced phase transitions in mullite-type Bi ₂ (Fe ₄ O ₉) ₂ oxides. International Journal of Materials Research, 2012, 103, 464-468. | 0.3 | 1 |
| 52 | High-Pressure Synthesis and Characterization of Perovskites with Simultaneous Ordering of Both the A- and B-Site Cations, CaCu ₃ Ga ₂ M ₂ O ₁₂ (M: Sb, Ta).. ChemInform, 2003, 34, no. | 0.0 | 0 |
| 53 | Crystal Structures, Modeling, and Dielectric Property Relationships of 2:1 Ordered Ba ₃ MM ²⁺ O ₉ (M: Mg, Ni, Zn).. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 54 | Crystal Chemistry and Microwave Dielectric Properties of Ba ₃ MNb _{2-x} SbxO ₉ (M: Mg, Ni, Zn).. ChemInform, 2005, 36, no. | 0.0 | 0 |