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Journal articles and other publications

80. **Carpy-Galy phases $A_nB_nO_{3n+2} = ABO_x$: Overview, properties, special and hypothetical systems, and melt-grown synthesis of A- and O-deficient $n = 5$ types such as $Sr_{19}Nb_{19}WO_{66}$ and $Sr_{17}Ca_2Nb_{19}WO_{64}$ and $n = 6$ type $Ln_6Ti_4Fe_2O_{20}$ and $Ca_6Nb_5FeO_{20}$**
Frank Lichtenberg
Published in July 2020 by the library of the ETH Zurich / ETH Research Collection
via doi 10.3929/ethz-b-000424221 , 477 pages or slides
<https://doi.org/10.3929/ethz-b-000424221>
79. **Synthesis of melt-grown hexagonal $YMnO_3$, $YMn_{0.95}O_{2.93}$, $YMnO_{3+y}$, and $DyMnO_{3-\delta}$ and study of their properties by powder x-ray diffraction, piezoresponse force microscopy, a SQUID magnetometer, and thermogravimetry**
Frank Lichtenberg, Martin Lilienblum, Bertram Batlogg, Nicola Spaldin, Manfred Fiebig
Published in 2019 by the library of the ETH Zurich / ETH Research Collection
via doi 10.3929/ethz-b-000357996 , 68 pages or slides
<https://doi.org/10.3929/ethz-b-000357996>
78. **Synthesis of melt-grown crystalline $Mn_4Nb_2O_9$ (Mn^{2+} / Nb^{5+}) and $Fe_4Nb_2O_9$ (Fe^{2+} / Nb^{5+}) and study of their properties by thermogravimetry, powder x-ray diffraction, and a SQUID magnetometer**
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Published in 2017 by the library of the ETH Zurich / ETH Research Collection
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77. **Atomic-Scale Origin of the Quasi-One-Dimensional Metallic Conductivity in Strontium Niobates with Perovskite-Related Layered Structures**
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76. **Global Formation of Topological Defects in the Multiferroic Hexagonal Manganites**
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75. **Presentation about a laboratory for the synthesis and study of (melt-grown) oxides and related topics**
Frank Lichtenberg
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74. **Patterning Oxide Nanopillars at the Atomic Scale by Phase Transformation**
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73. **Atomic and electronic structure of the SrNbO₃ / SrNbO_{3.4} interface**
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71. **Two-dimensional magnetic clusters in La_n(Ti_{1-x}Fe_x)_nO_{3n+2} (n = 5 with x = 0.2 and n = 6 with x = 0.33)**
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69. **Resistive memory switching in layered oxides: A_nB_nO_{3n+2} perovskite derivatives and Bi₂Sr₂CaCu₂O_{8+δ} high-T_c superconductor**
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