

Philippe Boullay

List of Publications by Year in descending order

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304602

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Composite Spin Chain Structures Built up of Dimeric and Trimeric Polyhedral Units: The Oxides $A_{1-x}[(Mn_{1-x}Co_x)_{1-z}Al_z]$ ($A = Ca, Sr; x = 3/8$). Chemistry of Materials, 2022, 34, 2361-2375. | | |
| 2 | Passivated Surface of High Aluminum Containing ZSM-5 by Silicalite-1: Synthesis and Application in Dehydration Reaction. ACS Sustainable Chemistry and Engineering, 2022, 10, 4839-4848. | 3.2 | 8 |
| 3 | Engineering RHO Nanozeolite: Controlling the Particle Morphology, Al and Cation Content, Stability, and Flexibility. ACS Applied Energy Materials, 2022, 5, 6032-6042. | 2.5 | 11 |
| 4 | Transformation of Discrete Amorphous Aluminosilicate Nanoparticles into Nanosized Zeolites. Advanced Materials Interfaces, 2021, 8, 2000634. | 1.9 | 6 |
| 5 | Room-Temperature Synthesis of BPH Zeolite Nanosheets Free of Organic Template with Enhanced Stability for Gas Separations. ACS Applied Nano Materials, 2021, 4, 24-28. | 2.4 | 9 |
| 6 | Ordered sphalerite derivative $Cu_5Sn_2S_7$: a degenerate semiconductor with high carrier mobility in the $Cu-Sn-S$ diagram. Journal of Materials Chemistry A, 2021, 9, 10812-10826. | 5.2 | 23 |
| 7 | Strong Magnetic Anisotropy of Epitaxial $PrVO_3$ Thin Films on $SrTiO_3$ Substrates with Different Orientations. ACS Applied Materials & Interfaces, 2020, 12, 35606-35613. | 4.0 | 7 |
| 8 | Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO_2 Capture. Angewandte Chemie, 2020, 132, 23697-23701. | 1.6 | 10 |
| 9 | Synthesis of Discrete CHA Zeolite Nanocrystals without Organic Templates for Selective CO_2 Capture. Angewandte Chemie - International Edition, 2020, 59, 23491-23495. | 7.2 | 61 |
| 10 | Oxygen over stoichiometry in the 2H-perovskite related structure: the route to a large family of cation deficient Ising chain oxides $Sr_{1+y}[(Mn_{1-x}Co_x)_{1-z}Al_z]O_3$. Journal of Materials Chemistry C, 2020, 8, 14559-14569. | 2.7 | 2 |
| 11 | Flexible Template-Free RHO Nanosized Zeolite for Selective CO_2 Adsorption. Chemistry of Materials, 2020, 32, 5985-5993. | 3.2 | 31 |
| 12 | Simultaneous monitoring of acidity and intercalation for layered transition metal oxides in liquid media. Journal of Colloid and Interface Science, 2020, 570, 41-51. | 5.0 | 4 |
| 13 | Defect-engineered zeolite porosity and accessibility. Journal of Materials Chemistry A, 2020, 8, 3621-3631. | 5.2 | 52 |
| 14 | Layered Quaternary Compounds in the $Cu_2Sn_2S_3Ga_2S_3$ system. Inorganic Chemistry, 2020, 59, 4546-4553. | 1.9 | 8 |
| 15 | 3D Electron Diffraction: The Nanocrystallography Revolution. ACS Central Science, 2019, 5, 1315-1329. | 5.3 | 286 |
| 16 | Crossover from Germanite to Renierite-Type Structures in $Cu_{22}Zn_xFe_8Ge_4S_{32}$ Thermoelectric Sulfides. ACS Applied Energy Materials, 2019, 2, 7679-7689. | 2.5 | 17 |
| 17 | Zeolite Nanocrystals Protect the Performance of Organic Additives and Adsorb Acid Compounds during Lubricants Oxidation. Materials, 2019, 12, 2830. | 1.3 | 5 |
| 18 | Precession electron diffraction tomography on twinned crystals: application to $CaTiO_3$ thin films. Journal of Applied Crystallography, 2019, 52, 626-636. | 1.9 | 8 |

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|----|---|------|-----------|
| 19 | Full-profile searchâ€œmatch by the Rietveld method. <i>Journal of Applied Crystallography</i> , 2019, 52, 587-598. | 1.9 | 42 |
| 20 | Characterization of aperiodic Bi-based layered oxide thin films by TEM multiscale approaches. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e342-e342. | 0.0 | 0 |
| 21 | Stairlike Aurivillius Phases in the Pseudobinary $\text{Bi}_{5-x}\text{Nb}_3\text{O}_{15-x}\text{ABi}_2\text{Nb}_2\text{O}_9$ (A =) $\text{Tj}_{1.9}\text{ETiO}_4$ 1.0784314 2018, 57, 3107-3115. | 1.9 | 4 |
| 22 | Deciphering local complex order by HAADF in a disordered mixed polyanion iron oxide: $\text{Sr}_4\text{Fe}_2[\text{Fe}_{0.5}(\text{SO}_4)_{0.25}(\text{CO}_3)_{0.25}]\text{O}_{7.25}$. <i>Dalton Transactions</i> , 2018, 47, 13088-13093. | 1.6 | 2 |
| 23 | Hydrogen positions in single nanocrystals revealed by electron diffraction. <i>Science</i> , 2017, 355, 166-169. | 6.0 | 203 |
| 24 | Chemical Strain Engineering of Magnetism in Oxide Thin Films. <i>Advanced Materials</i> , 2017, 29, 1604112. | 11.1 | 27 |
| 25 | Novel Layered Supercell Structure from $\text{Bi}_2\text{AlMnO}_6$ for Multifunctionalities. <i>Nano Letters</i> , 2017, 17, 6575-6582. | 4.5 | 25 |
| 26 | Synthesis of new cobalt aluminophosphate framework by opening a cobalt methylphosphonate layered material. <i>CrystEngComm</i> , 2017, 19, 5100-5105. | 1.3 | 6 |
| 27 | One-pot synthesis of silanol-free nanosized MFI Zeolite. <i>Nature Materials</i> , 2017, 16, 1010-1015. | 13.3 | 135 |
| 28 | Mn_2TeO_6 : a Distorted Inverse Trirutile Structure. <i>Inorganic Chemistry</i> , 2017, 56, 9742-9753. | 1.9 | 11 |
| 29 | Combining Multiscale Approaches for the Structure Determination of an Iron Layered Oxysulfate: $\text{Sr}_4\text{Fe}_{2.5}\text{O}_{7.25}(\text{SO}_4)_{0.5}$. <i>Inorganic Chemistry</i> , 2017, 56, 15241-15250. | 1.9 | 8 |
| 30 | When precession electron diffraction tomography goes dynamical. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s104-s105. | 0.0 | 0 |
| 31 | A Rutile Chevron Modulation in Delafossite-Like $\text{Ga}_3\text{In}_3\text{Ti}_x\text{O}_{9+x/2}$. <i>Inorganic Chemistry</i> , 2016, 55, 4403-4409. | 1.9 | 10 |
| 32 | Unusual Relaxor Ferroelectric Behavior in Stairlike Aurivillius Phases. <i>Inorganic Chemistry</i> , 2016, 55, 8881-8891. | 1.9 | 16 |
| 33 | The Mosaic Structure of Zeolite Crystals. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15049-15052. | 7.2 | 88 |
| 34 | Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16845-16851. | 4.0 | 26 |
| 35 | Accurate structure refinement of thin films using 3D electron diffraction data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s405-s405. | 0.0 | 0 |
| 36 | Crystallography using electrons: a focus on thin film materials. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s89-s89. | 0.0 | 0 |

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|----|---|------|-----------|
| 37 | Accurate structure refinement from electron diffraction tomography data. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s53-s53. | 0.0 | 0 |
| 38 | Combined analysis in 2015: XRD (texture, residual stresses, microstructure) complemented by fluorescence (XRF and GiXRF) and electron diffraction. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s517-s517. | 0.0 | 0 |
| 39 | Structure refinement using precession electron diffraction tomography and dynamical diffraction: tests on experimental data. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 740-751. | 0.5 | 115 |
| 40 | Template-free nanosized faujasite-type zeolites. Nature Materials, 2015, 14, 447-451. | 13.3 | 360 |
| 41 | Investigation of the surfactant type effect on characteristics and bioactivity of new mesoporous bioactive glass in the ternary system SiO ₂ -CaO-P ₂ O ₅ : Structural, textural and reactivity studies. Microporous and Mesoporous Materials, 2014, 195, 102-111. | 2.2 | 38 |
| 42 | Precession Electron Diffraction Tomography for Solving Complex Modulated Structures: the Case of Bi ₅ Nb ₃ O ₁₅ . Inorganic Chemistry, 2013, 52, 6127-6135. | 1.9 | 52 |
| 43 | Mapping electronic reconstruction at the metal-insulator interface in LaVO ₃ /SrVO ₃ heterostructures. Physical Review B, 2013, 88, 080401. | 1.1 | 16 |
| 44 | Aperiodic structures related to Aurivillius phases solved by precession electron diffraction. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s103-s104. | 0.3 | 0 |
| 45 | Phase transition sequence in ferroelectric Aurivillius compounds investigated by single crystal X-ray diffraction. Solid State Sciences, 2012, 14, 1367-1371. | 1.5 | 16 |
| 46 | Phase Selection Enabled Formation of Abrupt Axial Heterojunctions in Branched Oxide Nanowires. Nano Letters, 2012, 12, 275-280. | 4.5 | 27 |
| 47 | Contrasted role of disorder for magnetic properties in an original mixed-valency iron phosphate. Physical Review B, 2010, 82, . | 1.1 | 5 |
| 48 | High-temperature Transmission Electron Microscopy and X-ray Powder Diffraction Studies of Polymorphic Phase Transitions in Ba ₄ Nb ₂ O ₉ . Journal of the American Ceramic Society, 2009, 92, 1806-1812. | 1.9 | 7 |
| 49 | Hexagonal Perovskite-type Phases in the BaO-rich Part of the BaO-WO ₃ -Nb ₂ O ₅ System. Journal of the American Ceramic Society, 2009, 92, 3022-3032. | 1.9 | 2 |
| 50 | Remarkable thermal stability of Eu(4-phosphonobenzoate): structure investigations and luminescence properties. Dalton Transactions, 2009, , 10614. | 1.6 | 40 |
| 51 | Structural evolution in three and four-layer Aurivillius solid solutions: A comparative study versus relaxor properties. Solid State Sciences, 2008, 10, 177-185. | 1.5 | 17 |
| 52 | Cationic Ordering and Microstructural Effects in the Ferromagnetic Perovskite La _{0.5} Ba _{0.5} Co ₃ : Impact upon Magnetotransport Properties. Chemistry of Materials, 2008, 20, 2742-2750. | 3.2 | 88 |
| 53 | Crystal structure of the Aurivillius phases in the system Bi ₄ Ti ₃ O ₁₂ -PbTiO ₃ . Zeitschrift für Kristallographie, 2007, 222, 234-243. | 1.1 | 13 |
| 54 | Fabrication of (Ba-Sr)Bi ₄ Ti ₄ O ₁₅ powders and thin films by metal organic solution routes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 131, 235-241. | 1.7 | 4 |

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|----|--|-----|-----------|
| 55 | Structural Behaviour of the Mixed-Layer Aurivillius-Phase Bi ₇ Ti ₄ NbO ₂₁ . <i>Integrated Ferroelectrics</i> , 2004, 62, 149-154. | 0.3 | 12 |
| 56 | The Crystal Structure of the Intergrowth Compound Ba ₁₁ TiNb ₈ O ₃₃ .. <i>ChemInform</i> , 2003, 34, no. | 0.1 | 0 |
| 57 | Structural Study of the Cation Ordering in the Ternary Oxide Ba ₈ Ti ₃ Nb ₄ O ₂₄ .. <i>ChemInform</i> , 2003, 34, no. | 0.1 | 0 |
| 58 | An XRPD ab-initio structural determination of La ₂ RuO ₅ . <i>Journal of Solid State Chemistry</i> , 2003, 170, 294-302. | 1.4 | 24 |
| 59 | The crystal structure of the intergrowth compound Ba ₁₁ TiNb ₈ O ₃₃ . <i>Solid State Sciences</i> , 2002, 4, 1119-1128. | 1.5 | 8 |
| 60 | Structural study of the cation ordering in the ternary oxide Ba ₈ Ti ₃ Nb ₄ O ₂₄ . <i>Solid State Sciences</i> , 2002, 4, 1129-1136. | 1.5 | 12 |
| 61 | Microstructures and interfaces in Ni-Al martensite: comparing HRTEM observations with continuum theories. <i>International Journal of Solids and Structures</i> , 2002, 39, 3543-3554. | 1.3 | 24 |
| 62 | Evidence for the First Misfit Layer Oxide Tl _{0.41} (Sr _{0.90}) _{1.12} CoO ₂ . <i>Chemistry of Materials</i> , 1996, 8, 1482-1489. | 3.2 | 66 |
| 63 | Accessibility in Liquid Media: Cyclodehydration of Hexane-2,5-diol for the Evaluation of Layered Catalysts. <i>Advanced Materials Interfaces</i> , 0, , 2101692. | 1.9 | 0 |