# Simon Billinge

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 232 papers | 18,827 citations | 16791 66 h-index | 14779 131 g-index |
| 241 all docs | 241 docs citations | 241 times ranked | 22391 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Location and characterization of heterogeneous phases within Mary Rose wood. Matter, 2022, 5, 150-161. | 5.0 | 4 |
| 2 | Structural Analysis of Molecular Materials Using the Pair Distribution Function. Chemical Reviews, 2022, 122, 1208-1272. | 23.0 | 105 |
| 3 | Size Dependent Optical Properties and Structure of ZnS Nanocrystals Prepared from a Library of Thioureas. Chemistry of Materials, 2022, 34, 706-717. | 3.2 | 14 |
| 4 | Controlling desolvation through polymer-assisted grinding. CrystEngComm, 2022, 24, 2305-2313. | 1.3 | 3 |
| 5 | Mechanistic Insight into the Precursor Chemistry of ZrO<sub>2</sub>and HfO<sub>2</sub>Nanocrystals; towards Size-Tunable Syntheses. Jacs Au, 2022, 2, 827-838. | 3.6 | 6 |
| 6 | Recent advances and applications of deep learning methods in materials science. Npj Computational Materials, 2022, 8, . | 3.5 | 207 |
| 7 | nmfMapping: a cloud-based web application for non-negative matrix factorization of powder diffraction and pair distribution function datasets. Acta Crystallographica Section A: Foundations and Advances, 2022, 78, 242-248. | 0.0 | 6 |
| 8 | Hidden Local Symmetry Breaking in Silver Diamondoid Compounds is Root Cause of Ultralow Thermal Conductivity. Advanced Materials, 2022, 34, e2202255. | 11.1 | 20 |
| 9 | Reaction Selectivity in Cometathesis: Yttrium Manganese Oxides. Chemistry of Materials, 2022, 34, 4694-4702. | 3.2 | 4 |
| 10 | Robustness test of the spacegroupMining model for determining space groups from atomic pair distribution function data. Journal of Applied Crystallography, 2022, 55, 626-630. | 1.9 | 3 |
| 11 | Liquid and Glass Phases of an Alkylguanidinium Sulfonate Hydrogen-Bonded Organic Framework. Journal of the American Chemical Society, 2022, 144, 11064-11068. | 6.6 | 21 |
| 12 | Intrinsic local symmetry breaking in nominally cubic paraelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 105, . | 1.1 | 10 |
| 13 | Superconducting HfO<sub>2</sub>-added solution-derived YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> nanocomposite films: the effect of colloidal nanocrystal shape and crystallinity on pinning mechanism. Superconductor Science and Technology, 2022, 35, 084008. | 1.8 | 3 |
| 14 | Real-space texture and pole-figure analysis using the 3D pair distribution function on a platinum thin film. IUCrJ, 2022, 9, 594-603. | 1.0 | 2 |
| 15 | A cloud platform for atomic pair distribution function analysis: PDFitc. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 2-6. | 0.0 | 23 |
| 16 | Ferroelectric state and polarization switching behaviour of ultrafine BaTiO<sub>3</sub> nanoparticles with large-scale size uniformity. Journal of Materials Chemistry C, 2021, 9, 5267-5276. | 2.7 | 9 |
| 17 | Local and long-range atomic/magnetic structure of non-stoichiometric spinel iron oxide nanocrystallites. IUCrJ, 2021, 8, 33-45. | 1.0 | 18 |
| 18 | A high throughput optical method for studying compositional effects in electrocatalysts for CO2 reduction. Nature Communications, 2021, 12, 1114. | 5.8 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Network-Forming Liquids from Metalâ€“Bis(acetamide) Frameworks with Low Melting Temperatures. Journal of the American Chemical Society, 2021, 143, 2801-2811. | 6.6 | 60 |
| 20 | Toward In Situ Synchrotron Mapping of Crystal Selection Processes during Crystal Growth. Chemistry of Materials, 2021, 33, 3359-3367. | 3.2 | 2 |
| 21 | Superatomic solid solutions. Nature Chemistry, 2021, 13, 607-613. | 6.6 | 15 |
| 22 | Validation of non-negative matrix factorization for rapid assessment of large sets of atomic pair distribution function data. Journal of Applied Crystallography, 2021, 54, 768-775. | 1.9 | 20 |
| 23 | Dual Orbital Degeneracy Lifting in a Strongly Correlated Electron System. Physical Review Letters, 2021, 126, 186402. | 2.9 | 11 |
| 24 | Lowering Ternary Oxide Synthesis Temperatures by Solid-State Cometathesis Reactions. Chemistry of Materials, 2021, 33, 3692-3701. | 3.2 | 14 |
| 25 | Autonomous experimentation systems for materials development: A community perspective. Matter, 2021, 4, 2702-2726. | 5.0 | 143 |
| 26 | Modern crystallography and its foundations. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 1-1. | 0.0 | 1 |
| 27 | Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces. Journal of Materials Chemistry A, 2021, 9, 8425-8434. | 5.2 | 2 |
| 28 | Powder diffraction. Nature Reviews Methods Primers, 2021, 1, . | 11.8 | 17 |
| 29 | Rapid desolvation-triggered domino lattice rearrangement in a metalâ€“organic framework. Nature Chemistry, 2020, 12, 90-97. | 6.6 | 93 |
| 30 | Active Reaction Control of Cu Redox State Based on Real-Time Feedback from In Situ Synchrotron Measurements. Journal of the American Chemical Society, 2020, 142, 18758-18762. | 6.6 | 9 |
| 31 | Defect-Accommodating Intermediates Yield Selective Low-Temperature Synthesis of YMnO<sub>3</sub> Polymorphs. Inorganic Chemistry, 2020, 59, 13639-13650. | 1.9 | 22 |
| 32 | Complete Strain Mapping of Nanosheets of Tantalum Disulfide. ACS Applied Materials & Interfaces, 2020, 12, 43173-43179. | 4.0 | 6 |
| 33 | Two-orbital degeneracy lifted local precursor to a metal-insulator transition in MgTi2O4. Physical Review B, 2020, 102, . | 1.1 | 13 |
| 34 | Understanding electronic peculiarities in tetragonal FeSe as local structural symmetry breaking. Physical Review B, 2020, 102, . | 1.1 | 26 |
| 35 | <scp>SAS</scp>PDF: pair distribution function analysis of nanoparticle assemblies from small-angle scattering data. Journal of Applied Crystallography, 2020, 53, 699-709. | 1.9 | 10 |
| 36 | Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. Science Advances, 2020, 6, eaax2445. | 4.7 | 21 |

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|---|---|---|---|
| 37 | Local Structural Effects Due to Micronization and Amorphization on an HIV Treatment Active Pharmaceutical Ingredient. Molecular Pharmaceutics, 2020, 17, 2370-2389. | 2.3 | 14 |
| 38 | A thermal-gradient approach to variable-temperature measurements resolved in space. Journal of Applied Crystallography, 2020, 53, 662-670. | 1.9 | 19 |
| 39 | Cluster-mining: an approach for determining core structures of metallic nanoparticles from atomic pair distribution function data. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 24-31. | 0.0 | 34 |
| 40 | Structure-mining: screening structure models by automated fitting to the atomic pair distribution function over large numbers of models. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 395-409. | 0.0 | 21 |
| 41 | Protonâ€“Electron Conductivity in Thin Films of a Cobaltâ€“Oxygen Evolving Catalyst. ACS Applied Energy Materials, 2019, 2, 3-12. | 2.5 | 39 |
| 42 | Room temperature local nematicity in FeSe superconductor. Physical Review B, 2019, 100, . | 1.1 | 25 |
| 43 | Using a machine learning approach to determine the space group of a structure from the atomic pair distribution function. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 633-643. | 0.0 | 47 |
| 44 | Zirconium Phosphate: The Pathway from Turbostratic Disorder to Crystallinity. Inorganic Chemistry, 2019, 58, 14260-14274. | 1.9 | 20 |
| 45 | Algorithm for distance list extraction from pair distribution functions. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 658-668. | 0.0 | 9 |
| 46 | Local orbital degeneracy lifting as a precursor to an orbital-selective Peierls transition. Nature Communications, 2019, 10, 3638. | 5.8 | 42 |
| 47 | Quantitative Structural Characterization of Catalytically Active TiO2 Nanoparticles. ACS Applied Nano Materials, 2019, 2, 6268-6276. | 2.4 | 10 |
| 48 | Twoâ€Đimensional Arrays of Transition Metal Nitride Nanocrystals. Advanced Materials, 2019, 31, e1902393. | 11.1 | 93 |
| 49 | Photoinduced dynamics of nematic order parameter in FeSe. Physical Review B, 2019, 99, . | 1.1 | 14 |
| 50 | Stabilization of reactive Co <sub>4</sub> O <sub>4</sub> cubane oxygen-evolution catalysts within porous frameworks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11630-11639. | 3.3 | 41 |
| 51 | The rise of the X-ray atomic pair distribution function method: a series of fortunate events. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180413. | 1.6 | 110 |
| 52 | Microporous Battery Electrodes from Molecular Cluster Precursors. ACS Applied Materials & Interfaces, 2019, 11, 11292-11297. | 4.0 | 8 |
| 53 | Scalable Synthesis of Ultrathin Mn<sub>3</sub>N<sub>2</sub> Exhibiting Roomâ€Temperature Antiferromagnetism. Advanced Functional Materials, 2019, 29, 1809001. | 7.8 | 67 |
| 54 | Size-Dependent Lattice Dynamics of Atomically Precise Cadmium Selenide Quantum Dots. Physical Review Letters, 2019, 122, 026101. | 2.9 | 12 |

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|---|---|---|---|
| 55 | Stoichiometric Control over Ferroic Behavior in Ba(Ti<sub>1â€“x</sub>Fe<sub>x</sub>)O<sub>3</sub> Nanocrystals. Chemistry of Materials, 2019, 31, 1318-1335. | 3.2 | 25 |
| 56 | Synthesis and Properties of Plasmonic Boronâ€Hyperdoped Silicon Nanoparticles. Advanced Functional Materials, 2019, 29, 1807788. | 7.8 | 23 |
| 57 | Anthracene as a Launchpad for a Phosphinidene Sulfide and for Generation of a Phosphorusâ€“Sulfur Material Having the Composition P<sub>2</sub>S, a Vulcanized Red Phosphorus That Is Yellow. Journal of the American Chemical Society, 2019, 141, 431-440. | 6.6 | 26 |
| 58 | Early stage structural development of prototypical zeolitic imidazolate framework (ZIF) in solution. Nanoscale, 2018, 10, 4291-4300. | 2.8 | 56 |
| 59 | Synthesis, characterization, and growth mechanism of motifs of ultrathin cobalt-substituted NaFeSi<sub>2</sub>O<sub>6</sub> nanowires. CrystEngComm, 2018, 20, 223-236. | 1.3 | 4 |
| 60 | Structureâ€“property insights into nanostructured electrodes for Li-ion batteries from local structural and diffusional probes. Journal of Materials Chemistry A, 2018, 6, 127-137. | 5.2 | 22 |
| 61 | Magnetism in semiconducting molybdenum dichalcogenides. Science Advances, 2018, 4, eaat3672. | 4.7 | 92 |
| 62 | Improved Models for Metallic Nanoparticle Cores from Atomic Pair Distribution Function (PDF) Analysis. Journal of Physical Chemistry C, 2018, 122, 29498-29506. | 1.5 | 41 |
| 63 | Emphanitic anharmonicity in PbSe at high temperature and anomalous electronic properties in the PbQ(Q=S,Se,Te) system. Physical Review B, 2018, 98, . | 1.1 | 23 |
| 64 | Recent results on assigned and unassigned distance geometry with applications to protein molecules and nanostructures. Annals of Operations Research, 2018, 271, 161-203. | 2.6 | 21 |
| 65 | Barium titanate nanoparticles: Short-range lattice distortions with long-range cubic order. Physical Review B, 2018, 98, . | 1.1 | 17 |
| 66 | Pair Distribution Function Analysis of ZrO2 Nanocrystals and Insights in the Formation of ZrO2-YBa2Cu3O7 Nanocomposites. Materials, 2018, 11, 1066. | 1.3 | 20 |
| 67 | Hollow organic capsules assemble into cellular semiconductors. Nature Communications, 2018, 9, 1957. | 5.8 | 34 |
| 68 | PDFgetN3: atomic pair distribution functions from neutron powder diffraction data using adÂhoc corrections. Journal of Applied Crystallography, 2018, 51, 1492-1497. | 1.9 | 29 |
| 69 | Correlated local dipoles in PbTe. Physical Review Materials, 2018, 2, . | 0.9 | 43 |
| 70 | Coherent Nanotwins and Dynamic Disorder in Cesium Lead Halide Perovskite Nanocrystals. ACS Nano, 2017, 11, 3819-3831. | 7.3 | 246 |
| 71 | Modelling and validation of particle size distributions of supported nanoparticles using the pair distribution function technique. Journal of Applied Crystallography, 2017, 50, 741-748. | 1.9 | 24 |
| 72 | Superconducting order from disorder in 2H-TaSe 2â˜’ x S x. Npj Quantum Materials, 2017, 2, . | 1.8 | 73 |

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|---|---|---|---|
| 73 | Signatures of the topological s +â^' superconducting order parameter in the type-II Weyl semimetal T d-MoTe2. Nature Communications, 2017, 8, 1082. | 5.8 | 101 |
| 74 | Unlocking the structure of mixed amorphous-crystalline ceramic oxide films synthesized under low temperature electromagnetic excitation. Journal of Materials Chemistry A, 2017, 5, 18434-18441. | 5.2 | 20 |
| 75 | Cation Exchange Induced Transformation of InP Magic-Sized Clusters. Chemistry of Materials, 2017, 29, 7984-7992. | 3.2 | 67 |
| 76 | Pressure tuning of structure, superconductivity, and novel magnetic order in the Ce-underdoped electron-doped cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mi mathvariant="normal">T</mml:mi></mml:mrow><mml:msup><mml:mrow /><mml:mo>â€²</mml:mo></mml:msup></mml:msup><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi>Pr</mml:mi><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Ce</mml:mi><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>CuO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, . | 1.1 | 6 |
| 77 | 2D molybdenum and vanadium nitrides synthesized by ammoniation of 2D transition metal carbides (MXenes). Nanoscale, 2017, 9, 17722-17730. | 2.8 | 327 |
| 78 | Local Environment of Terbium(III) Ions in Layered Nanocrystalline Zirconium(IV) Phosphonateâ€“Phosphate Ion Exchange Materials. Inorganic Chemistry, 2017, 56, 8837-8846. | 1.9 | 30 |
| 79 | Robust Nanostructure from High Throughput Powder Diffraction Data. Microscopy and Microanalysis, 2017, 23, 172-173. | 0.2 | 0 |
| 80 | Real-space investigation of short-range magnetic correlations in fluoride pyrochlores <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NaCaCo</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NaSrCo</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2017, 1, . | 0.9 | 15 |
| 81 | Celebrating 100 years of the Debye scattering equation. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 589-590. | 0.0 | 25 |
| 82 | Cooperative coupling of static magnetism and bulk superconductivity in the stripe phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow /></mml:msub><mml:msub><mml:mi>CuO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>: Pressure- and doping-dependent studies. Physical Review B, 2016, 94, . | 1.1 | 10 |
| 83 | Volume-wise destruction of the antiferromagnetic Mott insulating state through quantum tuning. Nature Communications, 2016, 7, 12519. | 5.8 | 36 |
| 84 | Assigned and unassigned distance geometry: applications to biological molecules and nanostructures. 4or, 2016, 14, 337-376. | 1.0 | 45 |
| 85 | Local atomic and magnetic structure of dilute magnetic semiconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mi>Ba</mml:mi> Physical Review B, 2016, 94, . | 1.1 | 30 |
| 86 | Structures of Hard Phases in Thermoplastic Polyurethanes. Macromolecules, 2016, 49, 7350-7358. | 2.2 | 36 |
| 87 | Atomic electron tomography: 3D structures without crystals. Science, 2016, 353, . | 6.0 | 181 |
| 88 | Direct Observation of Dynamic Symmetry Breaking above Room Temperature in Methylammonium Lead Iodide Perovskite. ACS Energy Letters, 2016, 1, 880-887. | 8.8 | 221 |
| 89 | Investigating short-range magnetic correlations in real space with the magnetic pair distribution function (mPDF). Neutron News, 2016, 27, 14-16. | 0.1 | 1 |
| 90 | Novel trends in pair distribution function approaches on bulk systems with nanoscale heterogeneities. Neutron News, 2016, 27, 27-31. | 0.1 | 1 |

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|---|---|---|---|
| 91 | Verification of Anderson Superexchange in MnO via Magnetic Pair Distribution Function Analysis andabÂinitioTheory. Physical Review Letters, 2016, 116, 197204. | 2.9 | 34 |
| 92 | Towards atomistic understanding of polymorphism in the solvothermal synthesis of ZrO<sub>2</sub>nanoparticles. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 645-650. | 0.0 | 41 |
| 93 | Polymorphism in magic-sized Au144(SR)60 clusters. Nature Communications, 2016, 7, 11859. | 5.8 | 167 |
| 94 | Towards solution and refinement of organic crystal structures by fitting to the atomic pair distribution function. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, 62-72. | 0.0 | 23 |
| 95 | Control of electronic properties of 2D carbides (MXenes) by manipulating their transition metal layers. Nanoscale Horizons, 2016, 1, 227-234. | 4.1 | 394 |
| 96 | Perovskites at the nanoscale: from fundamentals to applications. Nanoscale, 2016, 8, 6206-6208. | 2.8 | 21 |
| 97 | Recrystallization, Phase Composition, and Local Structure of Amorphous Lactose from the Total Scattering Pair Distribution Function. Crystal Growth and Design, 2016, 16, 210-220. | 1.4 | 28 |
| 98 | Total-Scattering Pair-Distribution Function of Organic Material from Powder Electron Diffraction Data. Microscopy and Microanalysis, 2015, 21, 459-471. | 0.2 | 24 |
| 99 | Demonstration of thin film pair distribution functionÂanalysis (tfPDF) for the study of local structure in amorphous and crystalline thin films. IUCrJ, 2015, 2, 481-489. | 1.0 | 50 |
| 100 | Reconciliation of local and long-range tilt correlations in underdopedLa2â^'xBaxCuO4(0â‰¤xâ‰¤0.155). Physical Review B, 2015, 91, . | 1.1 | 28 |
| 101 | Magnetic structure determination from the magnetic pair distribution function (mPDF): ground state of MnO. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 325-334. | 0.0 | 42 |
| 102 | Imaging Dirac-mass disorder from magnetic dopant atoms in the ferromagnetic topological insulator Cr <sub>x</sub> (Bi <sub>0.1</sub> Sb <sub>0.9</sub> ) <sub>2-x</sub> Te <sub>3</sub>. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1316-1321. | 3.3 | 206 |
| 103 | Two-Step Nucleation and Growth of InP Quantum Dots via Magic-Sized Cluster Intermediates. Chemistry of Materials, 2015, 27, 1432-1441. | 3.2 | 240 |
| 104 | Detection and characterization of nanoparticles in suspension at low concentrations using the X-ray total scattering pair distribution function technique. Nanoscale, 2015, 7, 5480-5487. | 2.8 | 35 |
| 105 | Modelling pair distribution functions (PDFs) of organic compounds: describing both intra- and intermolecular correlation functions in calculated PDFs. Journal of Applied Crystallography, 2015, 48, 171-178. | 1.9 | 47 |
| 106 | Enhanced thermoelectric power and electronic correlations in RuSe2. APL Materials, 2015, 3, . | 2.2 | 11 |
| 107 | Calibration and data collection protocols for reliable lattice parameter values in electron pair distribution function studies. Journal of Applied Crystallography, 2015, 48, 244-251. | 1.9 | 20 |
| 108 | Algorithm for systematic peak extraction from atomic pair distribution functions. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 392-409. | 0.0 | 13 |

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|---|---|---|---|
| 109 | Structural Evolution of Iron Antimonides from Amorphous Precursors to Crystalline Products Studied by Total Scattering Techniques. Journal of the American Chemical Society, 2015, 137, 9652-9658. | 6.6 | 18 |
| 110 | Correlating Size and Composition-Dependent Effects with Magnetic, MÃ¶ssbauer, and Pair Distribution Function Measurements in a Family of Catalytically Active Ferrite Nanoparticles. Chemistry of Materials, 2015, 27, 3572-3592. | 3.2 | 77 |
| 111 | X-Ray Diffraction Computed Tomography for Structural Analysis of Electrode Materials in Batteries. Journal of the Electrochemical Society, 2015, 162, A1310-A1314. | 1.3 | 50 |
| 112 | Celebrating the past, looking to the future. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 1-2. | 0.0 | 5 |
| 113 | Complex modeling: a strategy and software program for combining multiple information sources to solve ill posed structure and nanostructure inverse problems. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, 562-568. | 0.0 | 223 |
| 114 | Nature of Activated Manganese Oxide for Oxygen Evolution. Journal of the American Chemical Society, 2015, 137, 14887-14904. | 6.6 | 359 |
| 115 | Atomic pair distribution function: a revolution in the characterization of nanostructured pharmaceuticals. Nanomedicine, 2015, 10, 2473-2475. | 1.7 | 10 |
| 116 | Resonant spin tunneling in randomly oriented nanospheres ofMn12acetate. Physical Review B, 2015, 91, . | 1.1 | 3 |
| 117 | On the estimation of statistical uncertainties on powder diffraction and small-angle scattering data from two-dimensional X-ray detectors. Journal of Applied Crystallography, 2014, 47, 1273-1283. | 1.9 | 17 |
| 118 | Structure of Nanocrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ti</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Using Atomic Pair Distribution Function. Physical Review Letters, 2014, 112, 125501. | 2.9 | 161 |
| 119 | Nanoscale coherent intergrowthlike defects in a crystal ofLa1.9Ca1.1Cu2O6+Î´made superconducting by high-pressure oxygen annealing. Physical Review B, 2014, 90, . | 1.1 | 3 |
| 120 | Intra-unit-cell nematic charge order in the titanium-oxypnictide family of superconductors. Nature Communications, 2014, 5, 5761. | 5.8 | 25 |
| 121 | Evolution of atomic structure during nanoparticle formation. IUCrJ, 2014, 1, 165-171. | 1.0 | 46 |
| 122 | Magnetic pair distribution function analysis of local magnetic correlations. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, 3-11. | 0.0 | 52 |
| 123 | Structure of Sulfate Adsorption Complexes on Ferrihydrite. Environmental Science and Technology Letters, 2014, 1, 97-101. | 3.9 | 79 |
| 124 | Structure of Methylammonium Lead Iodide Within Mesoporous Titanium Dioxide: Active Material in High-Performance Perovskite Solar Cells. Nano Letters, 2014, 14, 127-133. | 4.5 | 282 |
| 125 | Local off-centering symmetry breaking in the high-temperature regime of SnTe. Physical Review B, 2014, 89, . | 1.1 | 72 |
| 126 | Atomic Structures and Gram Scale Synthesis of Three Tetrahedral Quantum Dots. Journal of the American Chemical Society, 2014, 136, 10645-10653. | 6.6 | 182 |

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|---|---|---|---|
| 127 | Bulk Metallic Glass-like Scattering Signal in Small Metallic Nanoparticles. ACS Nano, 2014, 8, 6163-6170. | 7.3 | 26 |
| 128 | Mechanisms for Iron Oxide Formation under Hydrothermal Conditions: An in Situ Total Scattering Study. ACS Nano, 2014, 8, 10704-10714. | 7.3 | 75 |
| 129 | Synthesis and characterization of two-dimensional Nb<sub>4</sub>C<sub>3</sub> (MXene). Chemical Communications, 2014, 50, 9517-9520. | 2.2 | 481 |
| 130 | Local Vibrations and Negative Thermal Expansion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ZrW</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2014, 112, 045505. | 7.9 | 92 |
| 131 | Robust structure and morphology parameters for CdS nanoparticles by combining small-angle X-ray scattering and atomic pair distribution function data in a complex modeling framework. Journal of Applied Crystallography, 2014, 47, 561-565. | 1.9 | 21 |
| 132 | Quantitative Structural Analysis of Nanoparticles Using Electron Pair Distribution Function (ePDF). Microscopy and Microanalysis, 2014, 20, 630-631. | 0.2 | 1 |
| 133 | Cu(Ir1 â^' xCrx)2S4: a model system for studying nanoscale phase coexistence at the metal-insulator transition. Scientific Reports, 2014, 4, 4081. | 1.6 | 15 |
| 134 | Hollandites as a new class of multiferroics. Scientific Reports, 2014, 4, 6203. | 1.6 | 35 |
| 135 | Pair distribution function computed tomography. Nature Communications, 2013, 4, 2536. | 5.8 | 96 |
| 136 | Toward Phase Quantification at the Nanoscale Using the Total Scattering Pair Distribution Function (TSPDF) Method: Recrystallization of Cryomilled Sulfamerazine. Crystal Growth and Design, 2013, 13, 4239-4244. | 1.4 | 30 |
| 137 | Evidence for Anomalous Bond Softening and Disorder Below 2 nm Diameter in Carbon-Supported Platinum Nanoparticles from the Temperature-Dependent Peak Width of the Atomic Pair Distribution Function. Journal of Physical Chemistry C, 2013, 117, 7226-7230. | 1.5 | 21 |
| 138 | Confirmation of disordered structure of ultrasmall CdSe nanoparticles from X-ray atomic pair distribution function analysis. Physical Chemistry Chemical Physics, 2013, 15, 8480. | 1.3 | 71 |
| 139 | Intermediate-Range Structure of Self-Assembled Cobalt-Based Oxygen-Evolving Catalyst. Journal of the American Chemical Society, 2013, 135, 6403-6406. | 6.6 | 151 |
| 140 | Towards a robust ad hoc data correction approach that yields reliable atomic pair distribution functions from powder diffraction data. Journal of Physics Condensed Matter, 2013, 25, 454202. | 0.7 | 21 |
| 141 | Local structural evidence for strong electronic correlations in spinel LiRh<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow | 1.1 | 19 |
| 142 | Evidence for Short-Range-Ordered Charge Stripes Far above the Charge-Ordering Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>1.67</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mi>. Physical Review Letters, 2013, 111, 096404. | 7.9 | 30 |
| 143 | A new vision for Acta Crystallographica Section A. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 533-534. | 0.3 | 0 |
| 144 | In-Situ Monitoring of Particle Growth at PEMFC Cathode under Accelerated Cycling Conditions. Electrochemical and Solid-State Letters, 2012, 15, B72. | 2.2 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Lattice dynamics reveals a local symmetry breaking in the emergent dipole phase of PbTe. Physical Review B, 2012, 86, . | 1.1 | 55 |
| 146 | Quantitative nanostructure characterization using atomic pair distribution functions obtained from laboratory electron microscopes. Zeitschrift FÃ¼r Kristallographie, 2012, 227, 248-256. | 1.1 | 41 |
| 147 | Local structure of ReO3at ambient pressure from neutron total-scattering study. Physical Review B, 2012, 86, . | 1.1 | 13 |
| 148 | Understanding the Formation and Evolution of Ceria Nanoparticles Under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2012, 51, 9030-9033. | 7.2 | 88 |
| 149 | Revealing the Mechanisms behind SnO<sub>2</sub> Nanoparticle Formation and Growth during Hydrothermal Synthesis: An In Situ Total Scattering Study. Journal of the American Chemical Society, 2012, 134, 6785-6792. | 6.6 | 180 |
| 150 | Diverse Structural and Magnetic Properties of Differently Prepared MnAs Nanoparticles. ACS Nano, 2011, 5, 2970-2978. | 7.3 | 17 |
| 151 | Tuning the Surface Structure and Optical Properties of CdSe Clusters Using Coordination Chemistry. Journal of Physical Chemistry Letters, 2011, 2, 3075-3080. | 2.1 | 62 |
| 152 | Synthesis, crystal structure, and magnetism of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.00</mml:mn><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo>)</mml:mo></mml:mrow></mml:ms | 1.1 | 61 |
| 153 | <mml:<br>Data Requirements for the Reliable Use of Atomic Pair Distribution Functions in Amorphous Pharmaceutical Fingerprinting. Pharmaceutical Research, 2011, 28, 1041-1048. | 1.7 | 72 |
| 154 | Nyquist-Shannon sampling theorem applied to refinements of the atomic pair distribution function. Physical Review B, 2011, 84, . | 1.1 | 62 |
| 155 | Detailed Mapping of the Local<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ir</mml:mi><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms through the Metal-Insulator Transitions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CuIr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> Thiospinel by X-Ray A | 2.9 | 24 |
| 156 | Local structural investigation of SmFeAsO<sub>1 â’x</sub>F<sub>x</sub>high temperature superconductors. Journal of Physics Condensed Matter, 2011, 23, 272201. | 0.7 | 7 |
| 157 | Crystal structure solution from experimentally determined atomic pair distribution functions. Journal of Applied Crystallography, 2010, 43, 623-629. | 1.9 | 25 |
| 158 | Quantitative nanoparticle structures from electron crystallography data. Physical Review B, 2010, 81, . | 1.1 | 5 |
| 159 | Magnetic phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>V</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mtext> Physical Review B, 2010, 82, . | 1.1 | 22 |
| 160 | Nanoscale disorder and local electronic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaCu</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:m An integrated study of electron, neutron, and x-ray diffraction, x-ray absorption fine structu. Physical Review B, 2010, 81, . | 3.1 | 58 |
| 161 | Advances in Scattering Probes for Materials. MRS Bulletin, 2010, 35, 495-503. | 1.7 | 5 |
| 162 | Tiopronin Gold Nanoparticle Precursor Forms Aurophilic Ring Tetramer. Inorganic Chemistry, 2010, 49, 10858-10866. | 1.9 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Entropically Stabilized Local Dipole Formation in Lead Chalcogenides. Science, 2010, 330, 1660-1663. | 6.0 | 308 |
| 164 | Characterisation of amorphous and nanocrystalline molecular materials by total scattering. CrystEngComm, 2010, 12, 1366-1368. | 1.3 | 78 |
| 165 | Relationship between the atomic pair distribution function and small-angle scattering: implications for modeling of nanoparticles. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, 232-239. | 0.3 | 168 |
| 166 | How do your crystals grow?. Nature Physics, 2009, 5, 13-14. | 6.5 | 17 |
| 167 | Local and average structures of the spin-glass pyrochlore<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>Y</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mro neutron diffraction and neutron pair distribution function analysis. Physical Review B, 2009, 79, . | 1.1 | 44 |
| 168 | The Liga algorithm forab initiodetermination of nanostructure. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, 631-640. | 0.3 | 17 |
| 169 | Study of Local Structure in Selected Organicâ€“Inorganic Perovskites in the Pm3Ì…m Phase. Chemistry of Materials, 2008, 20, 1272-1277. | 3.2 | 70 |
| 170 | Search for a structural response to the intermediate phase inGexSe1â^'xglasses. Physical Review B, 2008, 77, . | 1.1 | 61 |
| 171 | Chapter 16. Local Structure from Total Scattering and Atomic Pair Distribution Function (PDF) Analysis. , 2008, , 464-493. | | 12 |
| 172 | NanoscaleÎ±-structural domains in the phonon-glass thermoelectric materialÎ²â^'Zn4Sb3. Physical Review B, 2007, 75, . | 1.1 | 30 |
| 173 | The Problem with Determining Atomic Structure at the Nanoscale. Science, 2007, 316, 561-565. | 6.0 | 614 |
| 174 | Structures of Alkali Metals in Silica Gel Nanopores:Â New Materials for Chemical Reductions and Hydrogen Production. Journal of the American Chemical Society, 2007, 129, 1386-1392. | 6.6 | 46 |
| 175 | PDFfit2 and PDFgui: computer programs for studying nanostructure in crystals. Journal of Physics Condensed Matter, 2007, 19, 335219. | 0.7 | 1,225 |
| 176 | Quantitative size-dependent structure and strain determination of CdSe nanoparticles using atomic pair distribution function analysis. Physical Review B, 2007, 76, . | 1.1 | 204 |
| 177 | Local Lattice Dynamics in the Mg0.5Al0.5B2 Superconductor. Journal of Superconductivity and Novel Magnetism, 2007, 20, 505-510. | 0.8 | 4 |
| 178 | Fine-Scale Nanostructure in Î³-Al2O3. Chemistry of Materials, 2006, 18, 3242-3248. | 3.2 | 102 |
| 179 | Accurate Structure Determination of Mo6Sylz Nanowires from Atomic Pair Distribution Function (PDF) Analysis. Chemistry of Materials, 2006, 18, 100-106. | 3.2 | 23 |
| 180 | Ab initio determination of solid-state nanostructure. Nature, 2006, 440, 655-658. | 13.7 | 169 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | PDF from X-ray powder diffraction for nanometer-scale atomic structure analysis of quasicrystalline alloys. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 962-967. | 0.4 | 18 |
| 182 | Orbital Correlations in the PseudocubicOand RhombohedralRPhases ofLaMnO3. Physical Review Letters, 2005, 94, 177203. | 2.9 | 159 |
| 183 | The real structure of Na3BiO4 by electron microscopy, HR-XRD and PDF analysis. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 231-244. | 0.4 | 9 |
| 184 | Mercury Binding Sites in Thiol-Functionalized Mesostructured Silica. Journal of the American Chemical Society, 2005, 127, 8492-8498. | 6.6 | 130 |
| 185 | Determination of standard uncertainties in fits to pair distribution functions. Acta Crystallographica Section A: Foundations and Advances, 2004, 60, 315-317. | 0.3 | 19 |
| 186 | Reciprocal-space instrumental effects on the real-space neutron atomic pair distribution function. Journal of Applied Crystallography, 2004, 37, 110-116. | 1.9 | 90 |
| 187 | PDFgetX2: a GUI-driven program to obtain the pair distribution function from X-ray powder diffraction data. Journal of Applied Crystallography, 2004, 37, 678-678. | 1.9 | 890 |
| 188 | Beyond crystallography: the study of disorder, nanocrystallinity and crystallographically challenged materials with pair distribution functions. Chemical Communications, 2004, , 749. | 2.2 | 430 |
| 189 | Planar Nets of Ti Atoms Comprising Squares and Rhombs in the New Binary Antimonide Ti2Sb. Journal of the American Chemical Society, 2004, 126, 8295-8302. | 6.6 | 18 |
| 190 | Probing Local and Long-Range Structure Simultaneously:â€‰ An In Situ Study of the High-Temperature Phase Transition of Î±-AlF3. Journal of the American Chemical Society, 2004, 126, 4756-4757. | 6.6 | 59 |
| 191 | The atomic pair distribution function: past and present. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, . | 0.4 | 67 |
| 192 | Improved measures of quality for the atomic pair distribution function. Journal of Applied Crystallography, 2003, 36, 53-64. | 1.9 | 96 |
| 193 | Rapid-acquisition pair distribution function (RA-PDF) analysis. Journal of Applied Crystallography, 2003, 36, 1342-1347. | 1.9 | 501 |
| 194 | Structural analysis of complex materials using the atomic pair distribution function â€” a practical guide. Zeitschrift Fur Kristallographie - Crystalline Materials, 2003, 218, 132-143. | 0.4 | 249 |
| 195 | Lattice dynamics and correlated atomic motion from the atomic pair distribution function. Physical Review B, 2003, 67, . | 1.1 | 145 |
| 196 | Structural Response to Local Charge Order in Underdoped but Superconducting La2-x(Sr,Ba)xCuO4. International Journal of Modern Physics B, 2003, 17, 3640-3647. | 1.0 | 7 |
| 197 | STRAIN, NANO-PHASE SEPARATION, MULTI-SCALE STRUCTURES AND FUNCTION OF ADVANCED MATERIALS. , 2003, , . | | 0 |
| 198 | Structural compliance, misfit strain, and stripe nanostructures in cuprate superconductors. Physical Review B, 2002, 66, . | 1.1 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Structure of Intercalated Cs in Zeolite ITQ-4: An Array of Metal Ions and Correlated Electrons Confined in a Pseudo-1D Nanoporous Host. Physical Review Letters, 2002, 89, 075502. | 2.9 | 67 |
| 200 | Structure of nanocrystalline materials using atomic pair distribution function analysis: Study ofLiMoS2. Physical Review B, 2002, 65, . | 1.1 | 170 |
| 201 | Structure of V2O5Â·nH2O Xerogel Solved by the Atomic Pair Distribution Function Technique. Journal of the American Chemical Society, 2002, 124, 10157-10162. | 6.6 | 406 |
| 202 | Role of Framework Sodium versus Local Framework Structure in Determining the Hydrothermal Stability of MCM-41 Mesostructures. Journal of the American Chemical Society, 2002, 124, 97-103. | 6.6 | 95 |
| 203 | From Crystals to Nanocrystals: Semiconductors and Beyond. Fundamental Materials Research, 2002, , 153-168. | 0.1 | 1 |
| 204 | CuxUTe3:Â Stabilization of UTe3in the ZrSe3Structure Type via Copper Insertion. The Artifact of Teâˆ’Te Chains and Evidence for Distortions Due to Long Range Modulations. Journal of the American Chemical Society, 2001, 123, 4755-4762. | 6.6 | 29 |
| 205 | Structure of crystallographically challenged materials by profile analysis of atomic pair distribution functions: study of LiMoS2 and mesostructured MnGe4S10.. Materials Research Society Symposia Proceedings, 2001, 678, 151. | 0.1 | 1 |
| 206 | Teaching diffraction using computer simulations over the Internet. Journal of Applied Crystallography, 2001, 34, 767-770. | 1.9 | 24 |
| 207 | Mesostructured Non-Oxidic Solids with Adjustable Worm-hole Shaped Pores: M-Ge-Q (Q = S, Se) Frameworks Based on Tetrahedral [Ge4Q10]4- Clusters. Advanced Materials, 2000, 12, 85-91. | 11.1 | 43 |
| 208 | PDFgetN: a user-friendly program to extract the total scattering structure factor and the pair distribution function from neutron powder diffraction data. Journal of Applied Crystallography, 2000, 33, 1192-1192. | 1.9 | 262 |
| 209 | Microscopic Charge Inhomogeneities in Underdoped La2âˆ’xSrxCuO4: Local Structural Evidence. Journal of Superconductivity and Novel Magnetism, 2000, 13, 713-722. | 0.5 | 12 |
| 210 | Application of Atomic Pair Distribution Function Analysis to Materials with Intrinsic Disorder. Three-Dimensional Structure of Exfoliated-Restacked WS2:â€‰ Not Just a Random Turbostratic Assembly of Layers. Journal of the American Chemical Society, 2000, 122, 11571-11576. | 6.6 | 93 |
| 211 | Polyhedral Units and Network Connectivity in Calcium Aluminosilicate Glasses from High-Energy X-Ray Diffraction. Physical Review Letters, 2000, 85, 3436-3439. | 2.9 | 157 |
| 212 | Neutron Diffraction Evidence of Microscopic Charge Inhomogeneities in theCuO2Plane of SuperconductingLa2âˆ’xSrxCuO4(0â‰¤xâ‰¤0.30). Physical Review Letters, 2000, 84, 5856-5859. | 2.9 | 149 |
| 213 | Mesostructured Non-Oxidic Solids with Adjustable Worm-hole Shaped Pores: M-Ge-Q (Q=S, Se) Frameworks Based on Tetrahedral [Ge4Q10]4â€“ Clusters. , 2000, 12, 85. | | 1 |
| 214 | Local structure of nanoporous carbons. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1519-1530. | 0.6 | 112 |
| 215 | Simulation of nanoporous carbons: A chemically constrained structure. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1499-1518. | 0.6 | 81 |
| 216 | PDFFIT, a program for full profile structural refinement of the atomic pair distribution function. Journal of Applied Crystallography, 1999, 32, 572-575. | 1.9 | 448 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Textural Mesoporosity and the Catalytic Activity of Mesoporous Molecular Sieves with Wormhole Framework Structures. Journal of the American Chemical Society, 1999, 121, 8835-8842. | 6.6 | 340 |
| 218 | Measuring Correlated Atomic Motion Using X-ray Diffraction. Journal of Physical Chemistry A, 1999, 103, 921-924. | 1.1 | 131 |
| 219 | High Real-Space Resolution Measurement of the Local Structure ofGa1â^'xInxAsUsing X-Ray Diffraction. Physical Review Letters, 1999, 83, 4089-4092. | 2.9 | 127 |
| 220 | High real-space resolution structure of materials by high-energy x-ray diffraction. Materials Research Society Symposia Proceedings, 1999, 590, 151. | 0.1 | 1 |
| 221 | Charge Inhomogeneities in the Colossal Magnetoresistant Manganites From the Local Atomic Structure. Materials Research Society Symposia Proceedings, 1999, 602, 177. | 0.1 | 0 |
| 222 | Charge Density Wave Caused by Reducing ThSe3 by One Electron. Superstructure and Short-Range Order in ATh2Se6 (A = K, Rb) Studied by X-ray Diffraction, Electron Diffraction, and Diffuse Scattering. Journal of the American Chemical Society, 1998, 120, 10706-10714. | 6.6 | 44 |
| 223 | Neutron Scattering Studies of Compositional Heterogeneity in Solâ^'Gel Processed Lead Zirconate Titanates. Chemistry of Materials, 1998, 10, 3611-3619. | 3.2 | 39 |
| 224 | Lattice Effects in Perovskite and Pyrochlore CMR Materials. Materials Research Society Symposia Proceedings, 1997, 475, 533. | 0.1 | 1 |
| 225 | Symmetry Breaking in Nanostructure Development of Carbogenic Molecular Sieves:Â Effects of Morphological Pattern Formation on Oxygen and Nitrogen Transport. Chemistry of Materials, 1996, 8, 2159-2171. | 3.2 | 32 |
| 226 | Direct Observation of Lattice Polaron Formation in the Local Structure ofLa1â^'xCaxMnO3. Physical Review Letters, 1996, 77, 715-718. | 2.9 | 409 |
| 227 | LATTICE EFFECTS IN HIGH-<font>T</font><sub><font>C</font></sub> SUPERCONDUCTORS. , 1996, , 265-373. | | 46 |
| 228 | Determination of The Local Atomic Structure of LA2-x(SR,BA)xCUO4 Materials From Neutron Powder Diffraction Data. Materials Research Society Symposia Proceedings, 1994, 376, 523. | 0.1 | 1 |
| 229 | Structures of the ferroelectric phases of barium titanate. The Journal of Physical Chemistry, 1993, 97, 2368-2377. | 2.9 | 620 |
| 230 | The nanostructure problem. Physics Magazine, 0, 3, . | 0.1 | 39 |
| 231 | Nanometre-scale structure from powder diffraction: total scattering and atomic pair distribution function analysis. , 0, , 649-672. | | 10 |
| 232 | Ligand-induced symmetry breaking, size and morphology in colloidal lead sulfide QDs: from classic to thiourea precursors. , 0, 2, 1. | | 8 |