

Katharine L Page

List of Publications by Year in descending order

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times ranked

11206
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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Crystal Structure and the Paraelectric-to-Ferroelectric Phase Transition of Nanoscale BaTiO ₃ . Journal of the American Chemical Society, 2008, 130, 6955-6963. | 13.7 | 509 |
| 2 | Structures, Phase Transitions and Tricritical Behavior of the Hybrid Perovskite Methyl Ammonium Lead Iodide. Scientific Reports, 2016, 6, 35685. | 3.3 | 440 |
| 3 | Resolving the Structure of Ti ₃ C ₂ T _x MXenes through Multilevel Structural Modeling of the Atomic Pair Distribution Function. Chemistry of Materials, 2016, 28, 349-359. | 6.7 | 374 |
| 4 | Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. Joule, 2018, 2, 125-140. | 24.0 | 311 |
| 5 | Monoclinic crystal structure of polycrystalline Na _{0.5} Bi _{0.5} TiO ₃ . Applied Physics Letters, 2011, 98, . | 3.3 | 284 |
| 6 | Local Environments of Dilute Activator Ions in the Solid-State Lighting Phosphor Y ₃ Al ₅ O ₁₂ :Ce. Chemistry of Materials, 2013, 25, 3979-3995. | 6.7 | 208 |
| 7 | Dielectric anomalies and spiral magnetic order in CoCr ₂ O ₄ . Physical Review B, 2006, 74, . | 3.2 | 186 |
| 8 | Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126. | 14.6 | 183 |
| 9 | Average and Local Structure, Debye Temperature, and Structural Rigidity in Some Oxide Compounds Related to Phosphor Hosts. ACS Applied Materials & Interfaces, 2015, 7, 7264-7272. | 8.0 | 159 |
| 10 | The emergent field of high entropy oxides: Design, prospects, challenges, and opportunities for tailoring material properties. APL Materials, 2020, 8, . | 5.1 | 152 |
| 11 | Universal Dynamics of Molecular Reorientation in Hybrid Lead Iodide Perovskites. Journal of the American Chemical Society, 2017, 139, 16875-16884. | 13.7 | 129 |
| 12 | A novel P3-type Na _{2/3} Mg _{1/3} Mn _{2/3} O ₂ as high capacity sodium-ion cathode using reversible oxygen redox. Journal of Materials Chemistry A, 2019, 7, 1491-1498. | 10.3 | 122 |
| 13 | Structural water engaged disordered vanadium oxide nanosheets for high capacity aqueous potassium-ion storage. Nature Communications, 2017, 8, 15520. | 12.8 | 121 |
| 14 | Preparation of magnetic spinel ferrite core/shell nanoparticles: Soft ferrites on hard ferrites and vice versa. Solid State Sciences, 2006, 8, 1015-1022. | 3.2 | 113 |
| 15 | Understanding the Low-Voltage Hysteresis of Anionic Redox in Na ₂ Mn ₃ O ₇ . Chemistry of Materials, 2019, 31, 3756-3765. | 6.7 | 112 |
| 16 | Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. Chemistry of Materials, 2019, 31, 3705-3711. | 6.7 | 112 |
| 17 | Local atomic structure deviation from average structure of Na _{0.5} Bi _{0.5} TiO ₃ . Applied Physics Letters, 2011, 98, . | 3.2 | 111 |
| 18 | Average and Local Structural Origins of the Optical Properties of the Nitride Phosphor La ₃ CeSi ₆ N ₁₁ (0 < i>x</i> % 3). Inorganic Chemistry, 2013, 52, 13730-13741. | 4.0 | 103 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Local structure adaptability through multi cations for oxygen redox accommodation in Li-Rich layered oxides. <i>Energy Storage Materials</i> , 2020, 24, 384-393. | 18.0 | 101 |
| 20 | Local Atomic Ordering in BaTaO ₂ N Studied by Neutron Pair Distribution Function Analysis and Density Functional Theory. <i>Chemistry of Materials</i> , 2007, 19, 4037-4042. | 6.7 | 96 |
| 21 | Probing Local Dipoles and Ligand Structure in BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 4386-4391. | 6.7 | 96 |
| 22 | A suite-level review of the neutron powder diffraction instruments at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i> , 2018, 89, 092701. | 1.3 | 90 |
| 23 | Direct observation of the structure of gold nanoparticles by total scattering powder neutron diffraction. <i>Chemical Physics Letters</i> , 2004, 393, 385-388. | 2.6 | 89 |
| 24 | In situ synchrotron X-ray pair distribution function analysis of the early stages of gel formation in metakaolin-based geopolymers. <i>Applied Clay Science</i> , 2013, 73, 17-25. | 5.2 | 82 |
| 25 | Size and Morphology Controlled Synthesis of Boehmite Nanoplates and Crystal Growth Mechanisms. <i>Crystal Growth and Design</i> , 2018, 18, 3596-3606. | 3.0 | 82 |
| 26 | Local Structural Origins of the Distinct Electronic Properties of Nb-Substituted SrTiO ₃ and BaTiO ₃ . <i>Physical Review Letters</i> , 2008, 101, 205502. | 7.8 | 81 |
| 27 | Boehmite and Gibbsite Nanoplates for the Synthesis of Advanced Alumina Products. <i>ACS Applied Nano Materials</i> , 2018, 1, 7115-7128. | 5.0 | 79 |
| 28 | Structural water and disordered structure promote aqueous sodium-ion energy storage in sodium-birnessite. <i>Nature Communications</i> , 2019, 10, 4975. | 12.8 | 75 |
| 29 | Intrinsic differences in atomic ordering of calcium (alumino)silicate hydrates in conventional and alkali-activated cements. <i>Cement and Concrete Research</i> , 2015, 67, 66-73. | 11.0 | 72 |
| 30 | Building and refining complete nanoparticle structures with total scattering data. <i>Journal of Applied Crystallography</i> , 2011, 44, 327-336. | 4.5 | 70 |
| 31 | Reciprocal-space and real-space neutron investigation of nanostructured Mo ₂ C and WC. <i>Solid State Sciences</i> , 2008, 10, 1499-1510. | 3.2 | 68 |
| 32 | Dependence of the Li-Ion Conductivity and Activation Energies on the Crystal Structure and Ionic Radii in Li ₆ MLa ₂ Ta ₂ O ₁₂ . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10900-10907. | 8.0 | 68 |
| 33 | Quantitative Analysis of the Morphology of {101} and {001} Faceted Anatase TiO ₂ Nanocrystals and Its Implication on Photocatalytic Activity. <i>Chemistry of Materials</i> , 2017, 29, 5591-5604. | 6.7 | 65 |
| 34 | In situ X-ray pair distribution function analysis of geopolymer gel nanostructure formation kinetics. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8573. | 2.8 | 60 |
| 35 | Probing the Local Site Disorder and Distortion in Pyrochlore High-Entropy Oxides. <i>Journal of the American Chemical Society</i> , 2021, 143, 4193-4204. | 13.7 | 60 |
| 36 | Synchrotron x-ray study of polycrystalline wurtzite Zn _{1-x} Mg _x O (0 ≤ x ≤ 0.15): Evolution of crystal structure and polarization. <i>Applied Physics Letters</i> , 2007, 90, 101904. | 3.3 | 59 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Nature of Reactive Hydrogen for Ammonia Synthesis over a Ru/C12A7 Electride Catalyst. Journal of the American Chemical Society, 2020, 142, 7655-7667. | 13.7 | 59 |
| 38 | POWGEN: rebuild of a third-generation powder diffractometer at the Spallation Neutron Source. Journal of Applied Crystallography, 2019, 52, 1189-1201. | 4.5 | 57 |
| 39 | Oxygen-redox reactions in LiCoO ₂ cathode without O-O bonding during charge-discharge. Joule, 2021, 5, 720-736. | 24.0 | 56 |
| 40 | Evolution of local structures in polycrystalline $\text{Zn}_{1-x}\text{Mg}_x\text{O}$ | | |

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|----|---|-----|-----------|
| 55 | Hydrogen adsorption on two catalysts for the ortho- to parahydrogen conversion: Cr-doped silica and ferric oxide gel. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17281-17293. | 2.8 | 34 |
| 56 | Verification of Anderson Superexchange in MnO via Magnetic Pair Distribution Function Analysis and <i>ab</i> Initio Theory. <i>Physical Review Letters</i> , 2016, 116, 197204. | 7.8 | 34 |
| 57 | Precise implications for real-space pair distribution function modeling of effects intrinsic to modern time-of-flight neutron diffractometers. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 293-307. | 0.1 | 31 |
| 58 | Evidence for Topologically Protected Surface States and a Superconducting Phase in $Tl_{1-x}Bi_xTe_2$ | | |

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|----|--|------|-----------|
| 73 | <i>i>DShaper</i> : an approach for handling missing low- <i>Q</i> data in pair distribution function analysis of nanostructured systems. <i>Journal of Applied Crystallography</i> , 2015, 48, 1651-1659. | 4.5 | 23 |
| 74 | Structural Evolution in Hollandite Solid Solutions Across the Site Compositional Range from Ba _{1.33} Ga _{2.66} Ti _{5.34} O ₁₆ to Cs _{1.33} Ga _{1.33} Ti _{6.67} O ₁₆ . <i>Journal of the American Ceramic Society</i> , 2016, 99, 4100-4106. | 3.8 | 23 |
| 75 | Illustrated formalisms for total scattering data: a guide for new practitioners. <i>Journal of Applied Crystallography</i> , 2021, 54, 317-332. | 4.5 | 23 |
| 76 | Average and local structure of the Pb-free ferroelectric perovskites $\text{Sr}_{1-x}\text{Ba}_x\text{TiO}_3$. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 22 |
| 77 | Ubiquitous Short-Range Distortion of Hybrid Perovskites and Hydrogen-Bonding Role: the MAPbCl ₃ Case. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28265-28272. | 3.1 | 21 |
| 78 | Unified View of the Local Cation-Ordered State in Inverse Spinel Oxides. <i>Inorganic Chemistry</i> , 2019, 58, 14389-14402. | 4.0 | 21 |
| 79 | Use of Bayesian Inference in Crystallographic Structure Refinement via Full Diffraction Profile Analysis. <i>Scientific Reports</i> , 2016, 6, 31625. | 3.3 | 20 |
| 80 | Evolution of the pore structure during the early stages of the alkali-activation reaction: an <i>in situ</i> small-angle neutron scattering investigation. <i>Journal of Applied Crystallography</i> , 2017, 50, 61-75. | 4.5 | 20 |
| 81 | Multiple Promotional Effects of Vanadium Oxide on Boron Nitride for Oxidative Dehydrogenation of Propane. <i>Jacs Au</i> , 2022, 2, 1096-1104. | 7.9 | 20 |
| 82 | Insight into the local structure of barium indate oxide-ion conductors: An X-ray total scattering study. <i>Dalton Transactions</i> , 2012, 41, 50-53. | 3.3 | 19 |
| 83 | Counteractions Control Local Specific Bonding Interactions and Nucleation Mechanisms in Concentrated Water-in-Salt Solutions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3318-3325. | 4.6 | 19 |
| 84 | Local atomic structure of Fontainebleau sandstone: Evidence for an amorphous phase?. <i>Geophysical Research Letters</i> , 2004, 31, . | 4.0 | 18 |
| 85 | Magnetic and nuclear structure of goethite ($\bar{1}\pm\text{FeOOH}$): a neutron diffraction study. <i>Journal of Applied Crystallography</i> , 2014, 47, 1983-1991. | 4.5 | 18 |
| 86 | Combinatorial appraisal of transition states for <i>in situ</i> pair distribution function analysis. <i>Journal of Applied Crystallography</i> , 2017, 50, 1744-1753. | 4.5 | 18 |
| 87 | Retarder effect on hydrating oil well cements investigated using <i>in situ</i> neutron/X-ray pair distribution function analysis. <i>Cement and Concrete Research</i> , 2019, 126, 105920. | 11.0 | 18 |
| 88 | Preparation and characterization of Pd ₂ Sn nanoparticles. <i>Materials Research Bulletin</i> , 2007, 42, 1969-1975. | 5.2 | 17 |
| 89 | Thermal desulfurization of pyrite: An <i>in situ</i> high-T neutron diffraction and DTA-TGA study. <i>Journal of Materials Research</i> , 2019, 34, 3243-3253. | 2.6 | 17 |
| 90 | Persistent Structure and Frustrated Magnetism in High Entropy Rare-Earth Zirconates. <i>Small</i> , 2022, 18, e2101323. | 10.0 | 16 |

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|-----|---|-----|-----------|
| 91 | Synthesis and structural study of Ti-rich Mg ^δ Ti hydrides. Journal of Alloys and Compounds, 2014, 593, 132-136. | 5.5 | 15 |
| 92 | Kinetically Controlled Linker Binding in Rare Earth-2,5-Dihydroxyterephthalic Acid Metal-Organic Frameworks and Its Predicted Effects on Acid Gas Adsorption. ACS Applied Materials & Interfaces, 2021, 13, 56337-56347. | 8.0 | 15 |
| 93 | Decoding Oxyanion Aqueous Solvation Structure: A Potassium Nitrate Example at Saturation. Journal of Physical Chemistry B, 2018, 122, 7584-7589. | 2.6 | 14 |
| 94 | Resolving local configurational contributions to X-ray and neutron radial distribution functions within solutions of concentrated electrolytes – a case study of concentrated NaOH. Physical Chemistry Chemical Physics, 2019, 21, 6828-6838. | 2.8 | 14 |
| 95 | Effect of BaCO ₃ Impurities on the Structure of BaTiO ₃ Nanocrystals: Implications for Multilayer Ceramic Capacitors. ACS Applied Nano Materials, 2020, 3, 9715-9723. | 5.0 | 14 |
| 96 | Icosahedra clustering and short range order in Ni-Nb-Zr amorphous membranes. Scientific Reports, 2018, 8, 6084. | 3.3 | 13 |
| 97 | Nanoscale degeneracy lifting in a geometrically frustrated antiferromagnet. Physical Review B, 2020, 101, . | 3.2 | 13 |
| 98 | Sulfur Tolerant Subnanometer Fe/Alumina Catalysts for Propane Dehydrogenation. ACS Applied Nano Materials, 2021, 4, 10055-10067. | 5.0 | 13 |
| 99 | Capturing the Details of N ₂ Adsorption in Zeolite X Using Stroboscopic Isotope Contrast Neutron Total Scattering. Chemistry of Materials, 2018, 30, 296-302. | 6.7 | 12 |
| 100 | Coupled Multimodal Dynamics of Hydrogen-Containing Ion Networks in Water-Deficient, Sodium Hydroxide-Aluminate Solutions. Journal of Physical Chemistry B, 2018, 122, 12097-12106. | 2.6 | 12 |
| 101 | Structure determination and magnetic properties of the Mn-doped MAX phase Cr ₂ GaC. Materials Chemistry Frontiers, 2021, 5, 6082-6091. | 5.9 | 12 |
| 102 | Uncorrelated Bi off-centering and the insulator-to-metal transition in ruthenium A ₂ Ru ₂ O ₇ pyrochlores. Physical Review Materials, 2019, 3, . | 2.4 | 12 |
| 103 | Metal oxide decorated porous carbons from controlled calcination of a metal-organic framework. Nanoscale Advances, 2020, 2, 2758-2767. | 4.6 | 10 |
| 104 | Extracting differential pair distribution functions using MIXSCAT. Journal of Applied Crystallography, 2010, 43, 635-638. | 4.5 | 9 |
| 105 | Structural Investigation of the Substituted Pyrochlore AgSbO ₃ through Total Scattering Techniques. Inorganic Chemistry, 2013, 52, 11530-11537. | 4.0 | 9 |
| 106 | Empirical potential structure refinement of semi-crystalline polymer systems: polytetrafluoroethylene and polychlorotrifluoroethylene. Journal of Physics Condensed Matter, 2013, 25, 454219. | 1.8 | 9 |
| 107 | A high precision gas flow cell for performing in situ neutron studies of local atomic structure in catalytic materials. Review of Scientific Instruments, 2017, 88, 034101. | 1.3 | 9 |
| 108 | Influence of Cation Size on the Local Atomic Structure and Electronic Properties of Ta Perovskite Oxynitrides. Inorganic Chemistry, 2021, 60, 14190-14201. | 4.0 | 9 |

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| 109 | Catalytic activity and water stability of the MgO(111) surface for 2-pentanone condensation. Applied Catalysis B: Environmental, 2021, 294, 120234. | 20.2 | 9 |
| 110 | Synthesis and structural characterization of dense polycrystalline Mg ₉ Sn ₅ , a metastable Mgâ€“Sn phase. Journal of Alloys and Compounds, 2014, 616, 333-339. | 5.5 | 8 |
| 111 | Cation and anion ordering in Sr ₂ Si ₇ Al ₃ ON ₁₃ phosphors. Journal of Materials Chemistry C, 2015, 3, 3135-3140. | 5.5 | 8 |
| 112 | The Role of Structural and Compositional Heterogeneities in the Insulator-to-Metal Transition in Hole-Doped APd ₃ O ₄ (A = Ca, Sr). Inorganic Chemistry, 2017, 56, 5158-5164. | 4.0 | 8 |
| 113 | Learning to Predict Material Structure from Neutron Scattering Data. , 2019, , . | | 8 |
| 114 | Structural, Chemical, Electrical, and Thermal Properties of <i>n</i> -Type NbFeSb. Inorganic Chemistry, 2019, 58, 1826-1833. | 4.0 | 8 |
| 115 | Magnetic hardening and antiferromagnetic/ferromagnetic phase coexistence in $\text{Mn}_{1-x}\text{Sn}_x$ Heusler solid solutions. Physical Review B, 2016, 94, . | 3.2 | 7 |
| 116 | Structure Evolution of Chemically Degraded ZIF-8. Journal of Physical Chemistry C, 2022, 126, 9736-9741. | 3.1 | 7 |
| 117 | Correlation between the local scale structure and the electrochemical properties in lithium orthosilicate cathode materials. Journal of Materials Chemistry A, 2014, 2, 17867-17874. | 10.3 | 6 |
| 118 | Heterogeneous nucleation in Zr-Cu-Al-Ag metallic glasses triggered by quenched-in metastable crystals - A time-resolved neutron diffraction study. Physica B: Condensed Matter, 2018, 551, 60-63. | 2.7 | 6 |
| 119 | Magnetoelastic coupling, negative thermal expansion, and two-dimensional magnetic excitations in FeAs. Physical Review B, 2021, 103, . | 3.2 | 6 |
| 120 | Hydrothermal Preparation, Crystal Chemistry, and Redox Properties of Iron Muscovite Clay. ACS Applied Materials & Interfaces, 2017, 9, 34024-34032. | 8.0 | 5 |
| 121 | A high temperature gas flow environment for neutron total scattering studies of complex materials. Review of Scientific Instruments, 2018, 89, 092906. | 1.3 | 5 |
| 122 | Calorimetric study of the thermodynamic properties of Mn ₅ O ₈ . Journal of the American Ceramic Society, 2019, 102, 1394-1401. | 3.8 | 5 |
| 123 | Temperature Dependent Local Atomic Structure and Vibrational Dynamics of Barium Hydride and Calcium Hydride. Journal of Physical Chemistry C, 2021, 125, 24328-24339. | 3.1 | 5 |
| 124 | Pressure/temperature fluid cell apparatus for the neutron powder diffractometer instrument: Probing atomic structure in situ. Review of Scientific Instruments, 2014, 85, 125116. | 1.3 | 4 |
| 125 | Pair distribution function analysis applied to decahedral gold nanoparticles. Physica Scripta, 2017, 92, 114002. | 2.5 | 4 |
| 126 | Time-of-flight neutron total scattering with applied electric fields: Ex situ and in situ studies of ferroelectric materials. Review of Scientific Instruments, 2018, 89, 092905. | 1.3 | 4 |

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| 127 | A uniaxial load frame for in situ neutron studies of stress-induced changes in cementitious materials and related systems. <i>Review of Scientific Instruments</i> , 2018, 89, 092903. | 1.3 | 4 |
| 128 | Effect of Ligand Polarity on the Internal Dipoles and Ferroelectric Distortion in BaTiO ₃ Nanocubes. <i>Chemistry - A European Journal</i> , 2021, 27, 8365-8371. | 3.3 | 4 |
| 129 | Controlled Demolition and Reconstruction of Imidazolate and Carboxylate Metal-Organic Frameworks by Acid Gas Exposure and Linker Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 15582-15592. | 3.7 | 4 |
| 130 | Temperature dependent local structure coherence of surface-modified BaTiO ₃ nanocubes. <i>Journal of Materials Chemistry C</i> , 0, , . | 5.5 | 4 |
| 131 | X-ray and neutron total scattering analysis of H ₂ Y ₂ ·(Bi _{0.2} Ca _{0.55} Sr _{0.25})(Ag _{0.25} Na _{0.75})Nb ₂ perovskite nanosheet booklets with stacking disorder. <i>Powder Diffraction</i> , 2016, 31, 126-134. | | |
| 132 | Structural and magnetic short-range order in fluorite Yb_2O_3 . <i>Physical Review B</i> , 2017, 96, . | | |
| 133 | Structural features associated with multiferroic behavior in the R_3BO_3 system. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 505704. | 1.8 | 3 |
| 134 | Controlled Metal Oxide and Porous Carbon Templation Using Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2021, 21, 4249-4258. | 3.0 | 3 |
| 135 | Detailed total scattering analysis of disorder in ZIF-8. <i>Journal of Applied Crystallography</i> , 2021, 54, 759-767. | 4.5 | 3 |
| 136 | The high pressure gas capabilities at Oak Ridge National Laboratory's neutron facilities. <i>Review of Scientific Instruments</i> , 2018, 89, 092907. | 1.3 | 2 |
| 137 | Time-dependent Local and Average Structural Evolution of γ -phase ²³⁹ Pu-Ga Alloys. <i>MRS Advances</i> , 2016, 1, 3019-3025. | 0.9 | 1 |
| 138 | Preface: Special Topic on Advances in Modern Neutron Diffraction at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i> , 2018, 89, 092601. | 1.3 | 1 |
| 139 | Simulating and benchmarking neutron total scattering instrumentation from inception of events to reduced and fitted data. <i>Journal of Applied Crystallography</i> , 2021, 54, 1047-1056. | 4.5 | 1 |
| 140 | MgO(111) Nanocatalyst for Biomass Conversion: A Study of Carbon Coating Effects on Catalyst Faceting and Performance. <i>Catalysis Letters</i> , 0, , 1. | 2.6 | 1 |
| 141 | Studies on the decomposition of tungsten hexacarbonyl, W(CO) ₆ . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s201-s202. | 0.3 | 0 |
| 142 | The 8th American Conference on Neutron Scattering. <i>Neutron News</i> , 2016, 27, 4-10. | 0.2 | 0 |
| 143 | Understanding Hollow Metal Oxide Nanomaterial Formation with in situ Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 2066-2067. | 0.4 | 0 |
| 144 | Neutron Scattering Investigations of Hydride Species in Heterogeneous Catalysis. <i>ChemSusChem</i> , 2019, 12, 5-5. | 6.8 | 0 |