

Scott Kroeker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8131904/publications.pdf>

Version: 2024-02-01

45
papers

1,547
citations

331670

21
h-index

302126

39
g-index

50
all docs

50
docs citations

50
times ranked

1756
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Improving Molybdenum and Sulfur Vitrification in Borosilicate Nuclear Waste Glasses Using Phosphorus: Structural Insights from NMR. <i>Inorganic Chemistry</i> , 2022, 61, 73-85. | 4.0 | 7 |
| 2 | Network Formation in Borosilicate Glasses with Aluminum or Gallium: Implications for Nepheline Crystallization. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8815-8824. | 3.1 | 11 |
| 3 | Network Structure and Dissolution Properties of Phosphate-Doped Borosilicate Glasses. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21184-21196. | 3.1 | 14 |
| 4 | Phase Evolution in Methylammonium Tin Halide Perovskites with Variable Temperature Solid-State ¹¹⁹ Sn NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15015-15027. | 3.1 | 24 |
| 5 | Probing Jahn-Teller distortions in Mn(acac) ₃ through paramagnetic interactions in solid-state MAS NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 101-109. | 2.3 | 7 |
| 6 | Structure and Properties of Gallium-Rich Sodium Germano-Gallate Glasses. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1370-1378. | 3.1 | 28 |
| 7 | Lithium and Sodium Ion Distributions in A ₂ [W ₆ I ₁₄] Structures. <i>Inorganic Chemistry</i> , 2018, 57, 2570-2576. | 4.0 | 10 |
| 8 | Ultrahigh-Resolution ⁷ Li Magic-Angle Spinning Nuclear Magnetic Resonance Spectroscopy by Isotopic Dilution. <i>Chemistry of Materials</i> , 2018, 30, 5521-5526. | 6.7 | 18 |
| 9 | Correlating Structural Features and ²⁰⁷ Pb NMR Parameters with the Stereochemical Activity of Pb ^{II} Lone Pairs in Birefringent Pb ₂ ·bis(benzimidazolyl)pyridine Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 88-98. | 2.0 | 20 |
| 10 | Ultrahigh-Field ²⁵ Mg NMR and DFT Study of Magnesium Borate Minerals. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 299-309. | 2.7 | 11 |
| 11 | Mixture experimental design applied to gallium-rich GaO _{3/2} -GeO ₂ -NaO _{1/2} glasses. <i>Journal of Non-Crystalline Solids</i> , 2017, 455, 83-89. | 3.1 | 16 |
| 12 | ¹³³ Cs and ²³ Na MAS NMR Spectroscopy of Molybdate Crystallization in Model Nuclear Glasses. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1557-1564. | 3.8 | 17 |
| 13 | Frustrated fcc antiferromagnet Structural characterization, magnetic properties, and neutron scattering studies. <i>Physical Review B</i> , 2015, 91, ... | 3.2 | 73 |
| 14 | Structural Insights into Bound Water in Crystalline Amino Acids: Experimental and Theoretical ¹⁷ O NMR. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8024-8036. | 2.6 | 35 |
| 15 | Multinuclear Magnetic Resonance Investigation of Crystalline Alkali Molybdates. <i>Inorganic Chemistry</i> , 2015, 54, 9853-9861. | 4.0 | 10 |
| 16 | Density functional theory study of the magnetic shielding mechanism for ¹¹ B in pentaborate minerals: ulexite and probertite. <i>CrystEngComm</i> , 2014, 16, 10418-10427. | 2.6 | 7 |
| 17 | Properties and structural investigation of gallophosphate glasses by ⁷¹ Ga and ³¹ P nuclear magnetic resonance and vibrational spectroscopies. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7906-7917. | 5.5 | 20 |
| 18 | ¹¹ B and ²³ Na solid-state NMR and density functional theory studies of electric field gradients at boron sites in ulexite. <i>CrystEngComm</i> , 2013, 15, 8739. | 2.6 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Synthesis and Characterization of the First Tetracyanamidogallate. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 6091-6096. | 2.0 | 12 |
| 20 | Exchangeable Calcium/Magnesium Ratio Affects Phosphorus Behavior in Calcareous Soils. <i>Soil Science Society of America Journal</i> , 2013, 77, 2004-2013. | 2.2 | 23 |
| 21 | Crystal structure refinements of borate dimorphs inderite and kurnakovite using ¹¹ B and ²⁵ Mg nuclear magnetic resonance and DFT calculations. <i>American Mineralogist</i> , 2012, 97, 1858-1865. | 1.9 | 17 |
| 22 | Determining Electron Spin-Transfer Mechanisms in Paramagnetic Ba ₂ YMO ₆ (M) Tj ETQq0 0 0 rgBT /Overlock Journal of Physical Chemistry C, 2012, 116, 23646-23652. | 3.1 | 12 |
| 23 | Characterisation of heterogeneous molybdate and chromate phase assemblages in model nuclear waste glasses by multinuclear magnetic resonance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7375. | 2.8 | 31 |
| 24 | Reconnaissance of diverse structural and electronic environments in germanium halides by solid-state ⁷³ Ge NMR and quantum chemical calculations. <i>Canadian Journal of Chemistry</i> , 2011, 89, 1118-1129. | 1.1 | 20 |
| 25 | Precipitation of Mixed-Alkali Molybdates During HLW Vitrification. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1265, 1. | 0.1 | 10 |
| 26 | Magnetic properties of the geometrically frustrated $S_n= ¹$ antiferromagnets. <i>Physical Review B</i> , 2010, 81, 040403. | 3.2 | 106 |
| 27 | Magnetic properties of the geometrically frustrated double perovskites $S_n= ¹$ and $S_n= ²$. <i>Physical Review B</i> , 2010, 81, 040403. | 3.2 | 64 |
| 28 | Liquid-Liquid Phase Separation in Model Nuclear Waste Glasses: A Solid-State Double-Resonance NMR Study. <i>Chemistry of Materials</i> , 2010, 22, 4896-4903. | 6.7 | 45 |
| 29 | ⁷³ Ge Solid-State NMR of Germanium Oxide Materials: Experimental and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21736-21744. | 3.1 | 52 |
| 30 | Magnetic properties of the geometrically frustrated double perovskites $S_n= ²$ and $S_n= ³$. <i>Physical Review B</i> , 2010, 81, 040403. | 3.2 | 82 |
| 31 | The occurrence of tetrahedrally coordinated Al and B in tourmaline: An ¹¹ B and ²⁷ Al MAS NMR study. <i>American Mineralogist</i> , 2009, 94, 785-792. | 1.9 | 47 |
| 32 | Insights into Oxygen Exchange Between Gaseous O ₂ and Supported Vanadium Oxide Catalysts via ¹⁷ O NMR. <i>Chemistry of Materials</i> , 2009, 21, 4127-4134. | 6.7 | 15 |
| 33 | Benzo[<i>f</i>] and Benzo[<i>h</i>] Coumarin-Containing Poly(methyl methacrylate)s and Poly(methyl Methacrylate) Copolymers. <i>Journal of Polymer Science Part A: Polymer Chemistry</i> , 2008, 46, 84-103. | 2.2 | 23 |
| 34 | Mushroom elbaite from the Kat Chay mine, Momeik, near Mogok, Myanmar: II. Zoning and crystal growth. <i>Mineralogical Magazine</i> , 2008, 72, 999-1010. | 1.4 | 17 |
| 35 | ⁹⁵ Mo NMR Study of Crystallization in Model Nuclear Waste Glasses. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1124, 1. | 0.1 | 3 |
| 36 | Mushroom elbaite from the Kat Chay mine, Momeik, near Mogok, Myanmar: I. Crystal chemistry by SREF, EMPA, MAS NMR and Mössbauer spectroscopy. <i>Mineralogical Magazine</i> , 2008, 72, 747-761. | 1.4 | 45 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Boron speciation and non-bridging oxygens in high-alkali borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1834-1839. | 3.1 | 41 |
| 38 | Probing alkali coordination environments in alkali borate glasses by multinuclear magnetic resonance. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2582-2590. | 3.1 | 96 |
| 39 | Synthesis and Polymerization of a Four-Arm Star with Pendent Cyclopentadienyliron Moieties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2007, 17, 275-282. | 3.7 | 8 |
| 40 | Hyperbranched Polymers Containing Cyclopentadienyliron Complexes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2005, 15, 349-359. | 3.7 | 19 |
| 41 | Highly Cross-Linked, Self-Doped Polyaniline Exhibiting Unprecedented Hardness. <i>Chemistry of Materials</i> , 2005, 17, 3803-3805. | 6.7 | 31 |
| 42 | Order/disorder in natrolite group zeolites: A ²⁹ Si and ²⁷ Al MAS NMR study. <i>American Mineralogist</i> , 2002, 87, 1307-1320. | 1.9 | 33 |
| 43 | Disordering during melting: An ¹⁷ O NMR Study of crystalline and glassy CaTiSiO ₅ (titanite). <i>American Mineralogist</i> , 2002, 87, 572-579. | 1.9 | 23 |
| 44 | Three-Coordinated Boron-11 Chemical Shifts in Borates. <i>Inorganic Chemistry</i> , 2001, 40, 6239-6246. | 4.0 | 222 |
| 45 | Magnesium coordination environments in glasses and minerals: New insight from high-field magnesium-25 MAS NMR. <i>American Mineralogist</i> , 2000, 85, 1459-1464. | 1.9 | 104 |