Scott Kroeker

List of Publications by Year
in descending order

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	Three-Coordinated Boron-11 Chemical Shifts in Borates. Inorganic Chemistry, 2001, 40, 6239-6246.	4.0	222
2	Magnetic properties of the geometrically frustrated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>antiferromagne	3.2	106
3	Magnesium coordination environments in glasses and minerals: New insight from high-field magnesium-25 MAS NMR. American Mineralogist, 2000, 85, 1459-1464.	1.9	104
4	Probing alkali coordination environments in alkali borate glasses by multinuclear magnetic resonance. Journal of Non-Crystalline Solids, 2007, 353, 2582-2590.	3.1	96
5	Magnetic properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>3</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>geometrically frustrated double perovskites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	3.2	82
6	Frustrated fcc antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub> Structural characterization, magnetic properties, and neutron scattering studies. Physical Review B, 2015, 91, .	3.2	73
7	and magnetic properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>geometrically frustrated double perovskites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2010, 81, .	3.2	64
8	⁷³Ge Solid-State NMR of Germanium Oxide Materials: Experimental and Theoretical Studies. Journal of Physical Chemistry C, 2010, 114, 21736-21744.	3.1	52
9	The occurrence of tetrahedrally coordinated Al and B in tourmaline: An 11B and 27Al MAS NMR study. American Mineralogist, 2009, 94, 785-792.	1.9	47
10	Mushroom elbaite from the Kat Chay mine, Momeik, near Mogok, Myanmar: I. Crystal chemistry by SREF, EMPA, MAS NMR and MÃ¶ssbauer spectroscopy. Mineralogical Magazine, 2008, 72, 747-761.	1.4	45
11	Liquidâ^'Liquid Phase Separation in Model Nuclear Waste Glasses: A Solid-State Double-Resonance NMR Study. Chemistry of Materials, 2010, 22, 4896-4903.	6.7	45
12	Boron speciation and non-bridging oxygens in high-alkali borate glasses. Journal of Non-Crystalline Solids, 2007, 353, 1834-1839.	3.1	41
13	Structural Insights into Bound Water in Crystalline Amino Acids: Experimental and Theoretical ¹⁷O NMR. Journal of Physical Chemistry B, 2015, 119, 8024-8036.	2.6	35
14	Order/disorder in natrolite group zeolites: A29Si and27Al MAS NMR study. American Mineralogist, 2002, 87, 1307-1320.	1.9	33
15	Highly Cross-Linked, Self-Doped Polyaniline Exhibiting Unprecedented Hardness. Chemistry of Materials, 2005, 17, 3803-3805.	6.7	31
16	Characterisation of heterogeneous molybdate and chromate phase assemblages in model nuclear waste glasses by multinuclear magnetic resonance spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 7375.	2.8	31
17	Structure and Properties of Gallium-Rich Sodium Germano-Gallate Glasses. Journal of Physical Chemistry C, 2019, 123, 1370-1378.	3.1	28
18	Phase Evolution in Methylammonium Tin Halide Perovskites with Variable Temperature Solid-State 119Sn NMR Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 15015-15027.	3.1	24

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19	Disordering during melting: An¹⁷O NMR Study of crystalline and glassy CaTiSiO₅(titanite). American Mineralogist, 2002, 87, 572-579.	1.9	23
20	Benzo[f]â€•and Benzo[h]Coumarinâ€Containing Poly(methyl methacrylate)s and Poly(methyl) Tj ETQq0 0 0 rgBT /Overloc 2008, 209, 84-103.	2.2	23
21	Exchangeable Calcium/Magnesium Ratio Affects Phosphorus Behavior in Calcareous Soils. Soil Science Society of America Journal, 2013, 77, 2004-2013.	2.2	23
22	Reconnaissance of diverse structural and electronic environments in germanium halides by solid-state 73Ge NMR and quantum chemical calculations. Canadian Journal of Chemistry, 2011, 89, 1118-1129.	1.1	20
23	Properties and structural investigation of gallophosphate glasses by ⁷¹Ga and ³¹P nuclear magnetic resonance and vibrational spectroscopies. Journal of Materials Chemistry C, 2014, 2, 7906-7917.	5.5	20
24	Correlating Structural Features and ²⁰⁷Pb NMR Parameters with the Stereochemical Activity of Pb^{II} Lone Pairs in Birefringent Pb[2,6â€bis(benzimidazolâ€2â€yl)pyridine] Complexes. European Journal of Inorganic Chemistry, 2017, 2017, 88-98.	2.0	20
25	Hyperbranched Polymers Containing Cyclopentadienyliron Complexes. Journal of Inorganic and Organometallic Polymers and Materials, 2005, 15, 349-359.	3.7	19
26	Ultrahigh-Resolution ⁷Li Magic-Angle Spinning Nuclear Magnetic Resonance Spectroscopy by Isotopic Dilution. Chemistry of Materials, 2018, 30, 5521-5526.	6.7	18
27	Mushroom elbaite from the Kat Chay mine, Momeik, near Mogok, Myanmar: II. Zoning and crystal growth. Mineralogical Magazine, 2008, 72, 999-1010.	1.4	17
28	Crystal structure refinements of borate dimorphs inderite and kurnakovite using 11B and 25Mg nuclear magnetic resonance and DFT calculations. American Mineralogist, 2012, 97, 1858-1865.	1.9	17
29	¹³³<scp>Cs</scp> and ²³<scp>Na</scp> MAS NMR Spectroscopy of Molybdate Crystallization in Model Nuclear Glasses. Journal of the American Ceramic Society, 2016, 99, 1557-1564.	3.8	17
30	Mixture experimental design applied to gallium-rich GaO3/2-GeO2-NaO1/2 glasses. Journal of Non-Crystalline Solids, 2017, 455, 83-89.	3.1	16
31	Insights into Oxygen Exchange Between Gaseous O₂and Supported Vanadium Oxide Catalysts via¹⁷O NMR. Chemistry of Materials, 2009, 21, 4127-4134.	6.7	15
32	Network Structure and Dissolution Properties of Phosphate-Doped Borosilicate Glasses. Journal of Physical Chemistry C, 2020, 124, 21184-21196.	3.1	14
33	Determining Electron Spin-Transfer Mechanisms in Paramagnetic Ba₂YMO₆ (M) Tj ETQq1 1 0.784314 rgBT Journal of Physical Chemistry C, 2012, 116, 23646-23652.	3.1	12
34	Synthesis and Characterization of the First Tetracyanamidogallate. European Journal of Inorganic Chemistry, 2013, 2013, 6091-6096.	2.0	12
35	Ultrahigh-Field 25Mg NMR and DFT Study of Magnesium Borate Minerals. ACS Earth and Space Chemistry, 2017, 1, 299-309.	2.7	11
36	Network Formation in Borosilicate Glasses with Aluminum or Gallium: Implications for Nepheline Crystallization. Journal of Physical Chemistry C, 2021, 125, 8815-8824.	3.1	11

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37	Precipitation of Mixed-Alkali Molybdates During HLW Vitrification. Materials Research Society Symposia Proceedings, 2010, 1265, 1.	0.1	10
38	11B and 23Na solid-state NMR and density functional theory studies of electric field gradients at boron sites in ulexite. CrystEngComm, 2013, 15, 8739.	2.6	10
39	Multinuclear Magnetic Resonance Investigation of Crystalline Alkali Molybdates. Inorganic Chemistry, 2015, 54, 9853-9861.	4.0	10
40	Lithium and Sodium Ion Distributions in A_{2â€“x}[W₆I₁₄] Structures. Inorganic Chemistry, 2018, 57, 2570-2576.	4.0	10
41	Synthesis and Polymerization of a Four-Arm Star with Pendent Cyclopentadienyliron Moieties. Journal of Inorganic and Organometallic Polymers and Materials, 2007, 17, 275-282.	3.7	8
42	Density functional theory study of the magnetic shielding mechanism for¹¹B in pentaborate minerals: ulexite and probertite. CrystEngComm, 2014, 16, 10418-10427.	2.6	7
43	Probing Jahn-Teller distortions in Mn(acac)3 through paramagnetic interactions in solid-state MAS NMR. Solid State Nuclear Magnetic Resonance, 2019, 101, 101-109.	2.3	7
44	Improving Molybdenum and Sulfur Vitrification in Borosilicate Nuclear Waste Glasses Using Phosphorus: Structural Insights from NMR. Inorganic Chemistry, 2022, 61, 73-85.	4.0	7
45	⁹⁵Mo NMR Study of Crystallization in Model Nuclear Waste Glasses. Materials Research Society Symposia Proceedings, 2008, 1124, 1.	0.1	3