

Hellmut Eckert

List of Publications by Year in descending order

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449
papers

15,385
citations

20817

60
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38395

95
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all docs

459
docs citations

459
times ranked

10342
citing authors

#	ARTICLE	IF	CITATIONS
1	Silica incorporation into sodium aluminum phosphate glasses: Structural characterization by Raman spectroscopy and multinuclear solid-state NMR. <i>Journal of Non-Crystalline Solids</i> , 2022, 579, 121366.	3.1	8
2	Correlating Sulfur Solubility with Short-to-Intermediate Range Ordering in the Structure of Borosilicate Glasses. <i>Journal of Physical Chemistry C</i> , 2022, 126, 655-674.	3.1	6
3	A critical evaluation of barium silicate glass network polymerization. <i>Journal of Non-Crystalline Solids</i> , 2022, 583, 121477.	3.1	12
4	Modern magnetic resonance approaches for characterizing rare-earth containing glasses and glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2021, 552, 120438.	3.1	3
5	Electronic effects in profluorescent benzotriazinyl radicals: a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2999-3007.	2.8	3
6	Structure-property relations in crack-resistant alkaline-earth aluminoborosilicate glasses studied by solid state NMR. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2250-2267.	3.8	20
7	Mixed Cs-Li-Sr Metaphosphate Glasses. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4764-4776.	3.1	0
8	Fundamental studies of magneto-optical borogermanate glasses and derived optical fibers containing Tb ³⁺ . <i>Journal of Materials Research and Technology</i> , 2021, 11, 312-327.	5.8	25
9	Photoinduced Paramagnetic Centers in Nanocomposites Formed by Titanium Dioxide and Myristic Acid. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6773-6786.	3.1	1
10	Carbon-mediated visible-light clay-Fe ₂ O ₃ -graphene oxide catalytic nanocomposites for the removal of steroid estrogens from water. <i>Journal of Water Process Engineering</i> , 2021, 40, 101865.	5.6	20
11	Autobiography of Hellmut Eckert. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8921-8926.	3.1	0
12	Composition-Structure-Solubility Relationships in Borosilicate Glasses: Toward a Rational Design of Bioactive Glasses with Controlled Dissolution Behavior. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31495-31513.	8.0	15
13	Structural, Physical, Theoretical and Spectroscopic Investigations of Mixed-Valent Eu ₂ Ni ₈ Si ₃ and Its Structural Anti-Type Sr ₂ Pt ₃ Al ₈ . <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3832.	2.0	3
14	Solid-State Nuclear Magnetic Resonance Techniques for the Structural Characterization of Geminal Alane-Phosphane Frustrated Lewis Pairs and Secondary Adducts. <i>Chemistry - A European Journal</i> , 2021, 27, 13249-13257.	3.3	4
15	Network former mixing (NFM) effects in alkali germanotellurite glasses. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159835.	5.5	5
16	Structure of crystalline and amorphous materials in the NASICON system Na _{1+x} Al _x Ge _{2-x} (PO ₄) ₃ . <i>Journal of Chemical Physics</i> , 2021, 155, 074501.	3.0	7
17	The Bis(1,6-benzene)lithium Cation: A Fundamental Main-Group Organometallic Species. <i>Angewandte Chemie</i> , 2021, 133, 23061.	2.0	1
18	The Bis(1,6-benzene)lithium Cation: A Fundamental Main-Group Organometallic Species. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22879-22884.	13.8	3

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19	Speciation and polymerization in a barium silicate glass: Evidence from ²⁹ Si NMR and Raman spectroscopies. <i>Chemical Geology</i> , 2021, 586, 120611.	3.3	8
20	Structural and spectroscopic properties of phosphate-tungsten glasses doped with Nd ³⁺ and Tb ³⁺ . <i>Journal of Non-Crystalline Solids</i> , 2020, 529, 119752.	3.1	5
21	Cycloaddition Reactions of an Active Cyclic Phosphane/Borane Pair with Alkenes, Alkynes, and Carbon Dioxide. <i>Chemistry - A European Journal</i> , 2020, 26, 1269-1273.	3.3	17
22	Reactions of Al ^{III} -Based Active Lewis Pairs with Ketones and 1,2-Diketones: Insertion into Al ^{III} -O Bonds, C=O and C-N Bond Formation and a Tricyclic Saturated Tetraaza Compound. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 3760-3770.	2.0	7
23	Combined Experimental and Computational Approach toward the Structural Design of Borosilicate-Based Bioactive Glasses. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17655-17674.	3.1	18
24	Preparation and Structural Characterization of New Photopolymerizable Transparent Aluminum-Phosphate Hybrid Materials as Resins for 3D Printing. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25621-25631.	3.1	3
25	Structural Study of the Germanium-Aluminum-Borate Glasses by Solid State NMR and Raman Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24460-24469.	3.1	9
26	Physical properties of new ordered bimetallic phases M _{0.25} Cd _{0.75} PS ₃ (M = ZnII, NiII, CoII, MnII). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8315-8324.	2.8	4
27	Solid-State NMR Techniques for the Structural Characterization of Cyclic Aggregates Based on Borane-Phosphane Frustrated Lewis Pairs. <i>Molecules</i> , 2020, 25, 1400.	3.8	10
28	Structural aspects of the glass-to-crystal transition in sodium-calcium silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2020, 535, 119844.	3.1	10
29	Effect of boron incorporation on the bioactivity, structure, and mechanical properties of ordered mesoporous bioactive glasses. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1456-1465.	5.8	32
30	Structure and lithium-ion mobility in Li _{1.5} M _{0.5} Ge _{1.5} (PO ₄) ₃ (M = Ga, Sc, Y) NASICON glass-ceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4002-4012.	3.8	11
31	Prolificacy and visibility versus reputation in the hard sciences. <i>Scientometrics</i> , 2020, 123, 207-221.	3.0	3
32	Isothermal evolution of phase composition, structural parameters, and ionic conductivity in Na ₁ +Al Ge ₂ -(PO ₄) ₃ glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2020, 533, 119725.	3.1	5
33	Extending the knowledge on the quaternary rare earth nickel aluminum germanides of the RENiAl ₄ Ge ₂ series (RE=Y, Sm, Gd-Tm, Lu) - structural, magnetic and NMR-spectroscopic investigations. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2020, 75, 149-162.	0.7	2
34	BiF ₃ Incorporation in Na/Ba Mixed Network Modifier Fluoride-Phosphate Glasses: Structural Studies by Solid-State NMR and Raman Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25578-25587.	3.1	4
35	Aggregation Behavior of a Six-Membered Cyclic Frustrated Phosphane/Borane Lewis Pair: Formation of a Supramolecular Cyclooctameric Macrocyclic Ring System. <i>Angewandte Chemie</i> , 2019, 131, 892-896.	2.0	12
36	Composition-Structure-Property Correlations in Rare-Earth-Doped Heavy Metal Oxyfluoride Glasses. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22478-22490.	3.1	15

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37	Structural properties of alumina-doped lithium borovanadate glasses and glass-ceramics. Journal of Non-Crystalline Solids, 2019, 521, 119551.	3.1	9
38	¹¹ B and ⁸⁹ Y solid state MAS NMR spectroscopic investigations of the layered borides YTB ₄ (T = Mo, W, Re). Dalton Transactions, 2019, 48, 1118-1128.	3.3	8
39	Dihydrogen Splitting by Intramolecular Borane-Phosphane Frustrated Lewis Pairs: A Comprehensive Characterization Strategy Using Solid State NMR and DFT Calculations. ChemPhysChem, 2019, 20, 1837-1849.	2.1	5
40	Review on the structural analysis of fluoride-phosphate and fluoro-phosphate glasses. Journal of Non-Crystalline Solids: X, 2019, 3, 100026.	1.2	38
41	From 3D to 2D: Structural, Spectroscopic and Theoretical Investigations of the Dimensionality Reduction in the [PtAl ₂] ⁺ Polyanions of the Isotypic ^M PtAl ₂ Series (^M =Ca, Ba, Eu). Chemistry - A European Journal, 2019, 25, 10735-10747.	3.3	24
42	Structural Origins of Crack Resistance on Magnesium Aluminoborosilicate Glasses Studied by Solid-State NMR. Journal of Physical Chemistry C, 2019, 123, 14941-14954.	3.1	21
43	Correlations of Crystal and Electronic Structure via NMR and X-ray Photoelectron Spectroscopies in the RETMAl ₂ (RE = Sc, Y, La, Nd, Sm, Gd, Tm, Lu; TM = Ni, Pd, Pt) Series. Inorganic Chemistry, 2019, 58, 7010-7025.	4.0	16
44	Rare-earth solid-state NMR spectroscopy of intermetallic compounds: The case of the ¹⁷⁵ Lu isotope. Solid State Nuclear Magnetic Resonance, 2019, 101, 63-67.	2.3	4
45	Short- and Medium-Range Order in Photothermal Refractive Glass Revealed by Solid-State NMR Techniques. Journal of Physical Chemistry C, 2019, 123, 12411-12422.	3.1	6
46	Red-emitting K ₃ HF ₂ WO ₂ F ₄ :Mn ⁴⁺ for application in warm-white phosphor-converted LEDs – optical properties and magnetic resonance characterization. Dalton Transactions, 2019, 48, 5361-5371.	3.3	30
47	Photophysical Properties of Ir(III) Complexes Immobilized in MCM-41 via Templated Synthesis. Inorganic Chemistry, 2019, 58, 4962-4971.	4.0	11
48	Compositional Optimization of Emission Properties for Rare-Earth Doped Fluoride Phosphate Glasses: Structural Investigations via NMR, EPR, and Optical Spectroscopies. Journal of Physical Chemistry C, 2019, 123, 31219-31231.	3.1	13
49	Structural characterization of boron-containing glassy and semi-crystalline Biosilicate® by multinuclear NMR. Journal of Non-Crystalline Solids, 2019, 505, 390-399.	3.1	5
50	Aggregation Behavior of a Six-Membered Cyclic Frustrated Phosphane/Borane Lewis Pair: Formation of a Supramolecular Cyclooctameric Macrocylic Ring System. Angewandte Chemie - International Edition, 2019, 58, 882-886.	13.8	29
51	A new parameter for (normalized) evaluation of H-index: countries as a case study. Scientometrics, 2019, 118, 1065-1078.	3.0	13
52	Glasses in the NaPO ₃ -WO ₃ -NaF ternary system: preparation, physical properties and structural studies. Journal of Non-Crystalline Solids, 2019, 505, 379-389.	3.1	17
53	Towards reliable references for electron paramagnetic resonance parameters based on quantum chemistry: the case of verdazyl radicals. Physical Chemistry Chemical Physics, 2018, 20, 7661-7675.	2.8	8
54	Formation and reactions of active five-membered phosphane/borane frustrated Lewis pair ring systems. Dalton Transactions, 2018, 47, 4449-4454.	3.3	22

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55	Solid state frustrated Lewis pair chemistry. <i>Chemical Science</i> , 2018, 9, 4859-4865.	7.4	35
56	Na ₃ GaF ₆ – A crystal chemical and solid state NMR spectroscopic study. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018, 233, 479-487.	0.8	2
57	Spying with spins on messy materials: 60 Years of glass structure elucidation by ²⁹ Si NMR spectroscopy. <i>International Journal of Applied Glass Science</i> , 2018, 9, 167-187.	2.0	32
58	Ultraviolet Upconversion Luminescence in a Highly Transparent Triply-Doped Gd ³⁺ /Tm ³⁺ /Yb ³⁺ Fluoride-Phosphate Glasses. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2275-2284.	3.1	33
59	Network former mixing effects in ion-conducting lithium borotellurite glasses: Structure/property correlations in the system (Li ₂ O) [2(TeO ₂) (B ₂ O ₃) _{1-x}] _{1-x} . <i>Journal of Non-Crystalline Solids</i> , 2018, 482, 14-22.	3.1	11
60	Formation of macrocyclic ring systems by carbonylation of trifunctional P/B/B frustrated Lewis pairs. <i>Chemical Science</i> , 2018, 9, 1544-1550.	7.4	32
61	Glass-to-crystal transition in the NASICON glass-ceramic system Na _{1+x} Al _x M _{2-x} (PO ₄) ₃ (M=Ge, Ti). <i>Journal of Non-Crystalline Solids</i> , 2018, 489, 91-101.	3.1	9
62	Antiferromagnetic ordering based on intermolecular London dispersion interactions in amphiphilic TEMPO ammonium salts. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28979-28983.	2.8	5
63	Superstructural Units Involving Six-Coordinated Silicon in Sodium Phosphosilicate Glasses Detected by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27620-27630.	3.1	25
64	Structural characterization of bioactive glasses by solid state NMR. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 88, 263-295.	2.4	33
65	Network Former Mixing Effects in Heavy Metal Oxide Glasses: Structural Characterization of Lead Zinc Phosphotellurite Glasses Using NMR and EPR Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23698-23711.	3.1	5
66	A detailed aging analysis of MPO ₄ :X (M = Y ³⁺ , La ³⁺ , Lu ³⁺ ; X = Bi ³⁺ , Pr ³⁺ , Gd ³⁺) due to the Xe excimer discharge. <i>Journal of Luminescence</i> , 2018, 202, 450-460.	3.1	3
67	Sc ₅ Pd ₄ Si ₆ – crystal structure and ²⁹ Si/ ⁴⁵ Sc solid state MAS NMR spectroscopic investigations. <i>Dalton Transactions</i> , 2018, 47, 13025-13031.	3.3	4
68	The special role of B(C ₆ F ₅) ₃ in the single electron reduction of quinones by radicals. <i>Chemical Science</i> , 2018, 9, 8011-8018.	7.4	25
69	Structure of P ₂ O ₅ – SiO ₂ Pure Network Former Glasses Studied by Solid State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19807-19815.	3.1	19
70	Structural Studies of NaPO ₃ – AlF ₃ Glasses by High-Resolution Double-Resonance Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21579-21588.	3.1	29
71	Ferro- or antiferromagnetism? Heisenberg chains in the crystal structures of verdazyl radicals. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22902-22908.	2.8	7
72	Refinement of the crystal structure of Li ₄ P ₂ S ₆ using NMR crystallography. <i>Dalton Transactions</i> , 2018, 47, 11691-11695.	3.3	26

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73	Synthesis of Non-siliceous Glasses and Their Structural Characterization by Solid-State NMR. , 2018, , 1323-1373.		2
74	Structure-Property Relations in Fluorophosphate Glasses: An Integrated Spectroscopic Strategy. Journal of Physical Chemistry C, 2017, 121, 2968-2986.	3.1	32
75	Network Formation by Condensed Tetrahedral [Au ₃ Al] Units in Na ₂ Au ₃ Al: Crystal and Electronic Structure, Spectroscopic Investigations, and Physical Properties of an Ordered Ternary Auride. Inorganic Chemistry, 2017, 56, 1919-1931.	4.0	10
76	Synthesis and Physical Properties of Strained Doubly Phosphorus-Bridged Biaryls and Viologens. Chemistry - A European Journal, 2017, 23, 6029-6033.	3.3	21
77	Recoupling dipolar interactions with multiple I=1 quadrupolar nuclei: A ¹¹ B{ ⁶ Li} and ³¹ P{ ⁶ Li} rotational echo double resonance study of lithium borophosphate glasses. Solid State Nuclear Magnetic Resonance, 2017, 84, 143-150.	2.3	7
78	Equiatomic AEuX (AE=Ca~Ba, X=Al~In) Intermetallics: A Systematic Study of their Electronic Structure and Spectroscopic Properties. Chemistry - A European Journal, 2017, 23, 4187-4196.	3.3	12
79	CO-Reduction Chemistry: Reaction of a CO-Derived Formylhydridoborate with Carbon Monoxide, with Carbon Dioxide, and with Dihydrogen. Journal of the American Chemical Society, 2017, 139, 6474-6483.	13.7	50
80	Structural Characterization of Intermetallic Compounds by ²⁷ Al Solid State NMR Spectroscopy. Accounts of Chemical Research, 2017, 50, 1459-1467.	15.6	20
81	Strong intermolecular antiferromagnetic verdazyl- verdazyl coupling in the solid state. Physical Chemistry Chemical Physics, 2017, 19, 15681-15685.	2.8	9
82	Ion-conducting glass-ceramics for energy-storage applications. MRS Bulletin, 2017, 42, 206-212.	3.5	29
83	Cooperative Magnetism in Crystalline Aryl-Substituted Verdazyl Radicals: First-Principles Predictions and Experimental Results. Chemistry - A European Journal, 2017, 23, 6069-6082.	3.3	12
84	The Chemistry of a Non-Interacting Vicinal Frustrated Phosphane/Borane Lewis Pair. Chemistry - A European Journal, 2017, 23, 6056-6068.	3.3	56
85	Advanced Magnetic Resonance Techniques for the Structural Characterization of Aminoxyl Radicals and Their Inorganic-Organic Nanocomposite Systems. Chemistry - A European Journal, 2017, 23, 5893-5914.	3.3	8
86	Ternary rare-earth aluminium intermetallics RE ₁₀ TAl ₃ (RE = Y, Ho, Tm, Lu; T = Fe,) Transactions, 2017, 46, 1083-1092.	3.3	19
87	The Structure of Borophosphosilicate Pure Network Former Glasses Studied by Multinuclear NMR Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 1838-1850.	3.1	13
88	Crystal Structure, Magnetism, ⁸⁹ Y Solid State NMR, and ¹²¹ Sb Mössbauer Spectroscopic Investigations of YrSb. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 294-298.	1.2	3
89	A ²⁵ Mg, ⁸⁹ Y and ¹¹⁵ In solid state MAS NMR study of YT ₂ X and Y(T _{0.5} T _{0.5}) ₂ X (T/T ² = Pd, Ag, Au; X = Mg, In) Heusler phases. Dalton Transactions, 2017, 46, 250-259.	3.3	9
90	Structural Studies of Fluoroborate Laser Glasses by Solid State NMR and EPR Spectroscopies. Journal of Physical Chemistry C, 2017, 121, 741-752.	3.1	21

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91	Diradicaloid or Zwitterionic Character: The Non-Tetrahedral Unsaturated Compound $[\text{Si}_4\{\text{N}(\text{SiMe}_3)\text{Dipp}\}_4]$ with a Butterfly-type Si_4 Substructure. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13866-13871.	13.8	37
92	Rare-earth doped fluoride phosphate glasses: structural foundations of their luminescence properties. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21612-21624.	2.8	34
93	Reduction of Dioxygen by Radical/B $\text{C}_6\text{F}_4\text{X}_3$ Pairs to Give Solable Bis(borane)superoxide Compounds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16641-16644.	13.8	25
94	Reduction of Dioxygen by Radical/B $\text{C}_6\text{F}_4\text{X}_3$ Pairs to Give Solable Bis(borane)superoxide Compounds. <i>Angewandte Chemie</i> , 2017, 129, 16868-16871.	2.0	3
95	Structural Characterization of Ag PO_3 -Ag 2WO_4 Superionic Conducting Glasses by Advanced Solid-State NMR Techniques. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13823-13832.	3.1	6
96	Mesoporous aluminosilicate glasses: Potential materials for dye removal from wastewater effluents. <i>Journal of Solid State Chemistry</i> , 2017, 253, 406-413.	2.9	18
97	Palladium Nanoparticle Loaded Bifunctional Silica Hybrid Material: Preparation and Applications as Catalyst in Hydrogenation Reactions. <i>Chemistry - A European Journal</i> , 2017, 23, 6019-6028.	3.3	10
98	Bibliometrics in glass and other sciences: A Plea for reason. <i>International Journal of Applied Glass Science</i> , 2017, 8, 352-359.	2.0	5
99	Preparation, Structural Characterization, and Electrical Conductivity of Highly Ion-Conducting Glasses and Glass Ceramics in the System $\text{Li}_{1-x}\text{Al}_x\text{Sn}_y\text{Ge}_{2-(x+y)}(\text{PO}_4)_3$. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14556-14567.	3.1	27
100	On new ternary equiatomic scandium transition metal aluminum compounds ScTAl with T = Cr, Ru, Ag, Re, Pt, and Au. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2016, 71, 553-566.	0.7	12
101	^{29}Si , ^{47}Ti , ^{49}Ti and ^{195}Pt solid state MAS NMR spectroscopic investigations of ternary silicides TPtSi, germanides TPtGe (T = Ti, Zr, Hf) and stannides TiPtSn. <i>Dalton Transactions</i> , 2016, 45, 8215-8223.	3.3	9
102	Effect of Aluminum Ion Incorporation on the Bioactivity and Structure in Mesoporous Bioactive Glasses. <i>Chemistry of Materials</i> , 2016, 28, 3254-3264.	6.7	29
103	Electron Paramagnetic Resonance (EPR) studies on the photo-thermo ionization process of photo-thermo-refractive glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 452, 320-324.	3.1	15
104	Thermal and luminescent properties of $2\mu\text{m}$ emission in thulium-sensitized holmium-doped silicate-germanate glass. <i>Photonics Research</i> , 2016, 4, 214.	7.0	38
105	Unsaturated Vicinal Frustrated Lewis Pair Formation by Electrocyclic Ring Closure and Their Reaction with Nitric Oxide. <i>Organometallics</i> , 2016, 35, 3667-3680.	2.3	15
106	Superstructure formation in $\text{SrBa}_8[\text{BN}_2]_6$ and $\text{EuBa}_8[\text{BN}_2]_6$. <i>Dalton Transactions</i> , 2016, 45, 12078-12086.	3.3	12
107	Effect of the C(3)-Substituent in Verdazyl Radicals on their Profluorescent Behavior. <i>Chimia</i> , 2016, 70, 172.	0.6	14
108	Magnesium and cadmium containing Heusler phases RE Pd 2 Mg, RE Pd 2 Cd, RE Ag 2 Mg, RE Au 2 Mg and RE Au 2 Cd. <i>Solid State Sciences</i> , 2016, 52, 57-64.	3.2	12

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109	La ₃ Cu ₄ P ₄ O ₂ and La ₅ Cu ₄ P ₄ O ₄ Cl ₂ : synthesis, structure and ³¹ P solid state NMR spectroscopy. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 149-155.	0.7	11
110	Synthesis and characterization of amorphous mesoporous silica using TEMPO-functionalized amphiphilic templates. Journal of Solid State Chemistry, 2016, 237, 93-98.	2.9	7
111	2D ³¹ P solid state NMR spectroscopy, electronic structure and thermochemistry of PbP7. Journal of Solid State Chemistry, 2016, 235, 139-144.	2.9	4
112	Charge Compensation in Sodium Borophosphate Glasses Studied by ¹¹ B{ ²³ Na} and ³¹ P{ ²³ Na} Rotational Echo Double Resonance Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 3196-3205.	3.1	23
113	Network Former Mixing (NFM) Effects in Ion-Conducting Glasses - Structure/Property Correlations Studied by Modern Solid-State NMR Techniques. , 2016, 6, 144-193.		9
114	High Surface Area Mesoporous GaPO ₄ •SiO ₂ Sol-Gel Glasses: Structural Investigation by Advanced Solid-State NMR. Journal of Physical Chemistry C, 2016, 120, 1758-1769.	3.1	6
115	Efficient luminescent materials based on the incorporation of a Eu(III)tris-(bipyridine-carboxylate) complex in mesoporous hybrid silicate hosts. Journal of Luminescence, 2016, 170, 619-626.	3.1	8
116	Aminoxyl Radicals of B/P Frustrated Lewis Pairs: Refinement of the Spin-Hamiltonian Parameters by Field- and Temperature-Dependent Pulsed EPR Spectroscopy. PLoS ONE, 2016, 11, e0157944.	2.5	2
117	A 1,1-Carboboration Route to Bora-Nazarov Systems. Chemistry - an Asian Journal, 2015, 10, 2497-2502.	3.3	12
118	Controlled Light-Mediated Preparation of Gold Nanoparticles by a Norrish Type...I Reaction of Photoactive Polymers. Angewandte Chemie - International Edition, 2015, 54, 12612-12617.	13.8	32
119	Crystallization in Lead Tungsten Fluorophosphate Glasses. Materials Research, 2015, 18, 228-232.	1.3	5
120	Profluorescent verdazyl radicals synthesis and characterization. Chemical Science, 2015, 6, 4712-4716.	7.4	41
121	New transition metal-rich rare-earth palladium/platinum aluminides with RET ₅ Al ₂ composition: structure, magnetism and ²⁷ Al NMR spectroscopy. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2015, 70, 101-110.	0.7	20
122	DQ-DRENAR with back-to-back (BABA) excitation: Measuring homonuclear dipole-dipole interactions in multiple spin-1/2 systems. Solid State Nuclear Magnetic Resonance, 2015, 71, 11-18.	2.3	7
123	Applications of DQ-DRENAR for the structural analysis of phosphate glasses. Solid State Nuclear Magnetic Resonance, 2015, 72, 140-147.	2.3	11
124	Thirty-year quest for structure-nucleation relationships in oxide glasses. International Materials Reviews, 2015, 60, 376-391.	19.3	75
125	40yrs CPMAS & 25yrs REDOR. Solid State Nuclear Magnetic Resonance, 2015, 72, 1-3.	2.3	3
126	Structural Characterization of Frustrated Lewis Pairs and Their Reaction Products Using Modern Solid-State NMR Spectroscopy Techniques. Israel Journal of Chemistry, 2015, 55, 150-178.	2.3	17

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127	Mixed network former effects in tellurite glass systems: Structure/property correlations in the system $(\text{Na}_2\text{O})_{1/3}[(2\text{TeO}_2)_x(\text{B}_2\text{O}_3)_{1-x}]_{2/3}$. Journal of Non-Crystalline Solids, 2015, 426, 150-158.	3.1	10
128	Solid-state EPR strategies for the structural characterization of paramagnetic NO adducts of frustrated Lewis pairs (FLPs). Journal of Chemical Physics, 2015, 142, 124201.	3.0	11
129	One-Dimensional Oxygen Diffusion Mechanism in $\text{Sr}_2\text{ScGaO}_5$ Electrolyte Explored by Neutron and Synchrotron Diffraction, ^{17}O NMR, and Density Functional Theory Calculations. Journal of Physical Chemistry C, 2015, 119, 11447-11458.	3.1	12
130	^{27}Al and ^{45}Sc NMR Spectroscopy on Sc_2Al and $\text{Sc}_{0.5}\text{Ta}^2_{0.5}\text{Al}$ ($T = \text{Ni, Pd, Pt, Cu}$). Journal of Physical Chemistry C, 2015, 119, 11447-11458.	1.2	24
131	$\text{Sc}(\text{Pd}_{0.5}\text{Au}_{0.5})_2\text{Al}$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 168-175.	4.1	31
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