

Hellmut Eckert

List of Publications by Year in descending order

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449
papers

15,385
citations

20817

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38395

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459
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459
docs citations

459
times ranked

10342
citing authors

#	ARTICLE	IF	CITATIONS
1	Li ₆ PS ₅ X: A Class of Crystalline Li-Rich Solids With an Unusually High Li ⁺ Mobility. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 755-758.	13.8	675
2	Synthesis and characterization of surface-capped, size-quantized cadmium sulfide clusters. Chemical control of cluster size. <i>Journal of the American Chemical Society</i> , 1990, 112, 1322-1326.	13.7	436
3	Structural characterization of noncrystalline solids and glasses using solid state NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1992, 24, 159-293.	7.5	359
4	Hydrogen environments in calcium phosphates: proton MAS NMR at high spinning speeds. <i>Journal of the American Chemical Society</i> , 1987, 109, 6274-6282.	13.7	274
5	Pseudotetrahedral O ₃ /2VO Centers Immobilized on the Walls of a Mesoporous, Cubic MCM-48 Support: \hat{A} Preparation, Characterization, and Reactivity toward Water As Investigated by ^{51}V NMR and UV-Vis Spectroscopies. <i>Chemistry of Materials</i> , 1996, 8, 486-492.	6.7	261
6	A calcium hydroxyapatite precipitated from an aqueous solution. <i>Journal of Crystal Growth</i> , 1987, 84, 515-532.	1.5	224
7	Dephasing of spin echoes by multiple heteronuclear dipolar interactions in rotational echo double resonance NMR experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 1999, 15, 139-152.	2.3	221
8	Characterization of hydrous species in minerals by high-speed proton MAS-NMR. <i>Journal of the American Chemical Society</i> , 1988, 110, 1367-1375.	13.7	196
9	Dipolar Coupling Information in Multispin Systems: Application of a Compensated REDOR NMR Approach to Inorganic Phosphates. <i>Journal of Magnetic Resonance</i> , 2000, 147, 170-178.	2.1	153
10	Reactions of phosphorus/boron frustrated Lewis pairs with SO ₂ . <i>Chemical Science</i> , 2013, 4, 213-219.	7.4	150
11	Site Connectivities in Amorphous Materials Studied by Double-Resonance NMR of Quadrupolar Nuclei: \hat{A} High-Resolution ^{11}B \hat{A} ^{27}Al Spectroscopy of Aluminoborate Glasses. <i>Journal of the American Chemical Society</i> , 1999, 121, 5238-5248.	13.7	145
12	Biosynthesis of novel thermoplastic polythioesters by engineered <i>Escherichia coli</i> . <i>Nature Materials</i> , 2002, 1, 236-240.	27.5	138
13	Structure/Property Correlations in Ion-Conducting Mixed-Network Former Glasses: \hat{A} Solid-State NMR Studies of the System Na ₂ O \hat{A} B ₂ O ₃ \hat{A} P ₂ O ₅ . <i>Chemistry of Materials</i> , 2007, 19, 3162-3170.	6.7	137
14	New Lithium Chalcogenidotetrelates, LiChT: Synthesis and Characterization of the Li ⁺ -Conducting Tetralithium <i>ortho</i> -Sulfidostannate Li ₄ Sn ₄ . <i>Chemistry of Materials</i> , 2012, 24, 2211-2219.	6.7	137
15	Physical and chemical characterization of surface vanadium oxide supported on titania: influence of the titania phase (anatase, rutile, brookite and B). <i>Applied Catalysis A: General</i> , 1992, 91, 27-42.	4.3	130
16	Short-Range Order and Site Connectivities in Sodium Aluminoborate Glasses: \hat{A} I. Quantification of Local Environments by High-Resolution ^{11}B , ^{23}Na , and ^{27}Al Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4495-4506.	2.6	130
17	Structural transformation of non-oxide chalcogenide glasses. The short-range order of lithium sulfide (Li ₂ S)-phosphorus pentasulfide (P ₂ S ₅) glasses studied by quantitative phosphorus- ^{31}P , lithium- ^{6}Li , and lithium- ^{7}Li high-resolution solid-state NMR. <i>Chemistry of Materials</i> , 1990, 2, 273-279.	6.7	125
18	Phosphorus Nanorods \hat{A} Two Allotropic Modifications of a Long-Known Element. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4228-4231.	13.8	119

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19	Vanadium(V) environments in bismuth vanadates: A structural investigation using Raman spectroscopy and solid state ^{51}V NMR. <i>Journal of Solid State Chemistry</i> , 1991, 90, 194-210.	2.9	116
20	Short and Medium Range Order in Sodium Aluminoborate Glasses. 2. Site Connectivities and Cation Distributions Studied by Rotational Echo Double Resonance NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6541-6553.	2.6	116
21	Synthesis and characterization of group III-V semiconductor clusters: gallium phosphide GaP in zeolite Y. <i>Journal of the American Chemical Society</i> , 1989, 111, 8006-8007.	13.7	105
22	Structures and properties of new zeolite X-type zincophosphate and beryllophosphate molecular sieves. <i>Chemistry of Materials</i> , 1991, 3, 27-29.	6.7	104
23	Reversible switching between p- and n-type conduction in the semiconductor $\text{Ag}_{10}\text{Te}_4\text{Br}_3$. <i>Nature Materials</i> , 2009, 8, 101-108.	27.5	102
24	Vanadium-51 NMR as a probe of vanadium(V) coordination to human apotransferrin. <i>Journal of the American Chemical Society</i> , 1989, 111, 2802-2809.	13.7	94
25	Short- and Medium-Range Order in Sodium Aluminophosphate Glasses: A New Insights from High-Resolution Dipolar Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8946-8958.	2.6	93
26	Mixed Network Former Effect in Ion-Conducting Alkali Borophosphate Glasses: Structure/Property Correlations in the System $[\text{M}_{2/3}\text{O}]_{1/3}[(\text{B}_2\text{O}_3)_x(\text{P}_2\text{O}_5)_{1-x}]_{93}$ ($\text{M} = \text{Li}, \text{K}, \text{Cs}$). <i>Journal of Physical Chemistry C</i> , 2012, 116, 26162-26176.	3.1	93
27	Five-Coordinate Silicon in Zeolites: Probing $\text{SiO}_4/2\text{F}^{\sim}$ Sites in Nonasil and ZSM-5 with ^{29}Si Solid-State NMR Spectroscopy. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2823-2825.	4.4	92
28	Cation Distribution in Mixed-Alkali Silicate Glasses. NMR Studies by $^{23}\text{Na}\{\text{Li}\}$ and $^{23}\text{Na}\{\text{Li}\}$ Spin Echo Double Resonance. <i>The Journal of Physical Chemistry</i> , 1996, 100, 3705-3712.	2.9	91
29	Structural Studies of $\text{NaPO}_3\text{MoO}_3$ Glasses by Solid-State Nuclear Magnetic Resonance and Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10109-10117.	2.6	89
30	Phase evolution in lithium disilicate glass-ceramics based on non-stoichiometric compositions of a multi-component system: structural studies by ^{29}Si single and double resonance solid state NMR. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4540.	2.8	89
31	Noninteracting, Vicinal Frustrated P/B-Lewis Pair at the Norbornane Framework: Synthesis, Characterization, and Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 8882-8895.	13.7	89
32	Structures and Properties of Spherical 90° Vertex Fullerene-Like Nanoballs. <i>Chemistry - A European Journal</i> , 2010, 16, 2092-2107.	3.3	87
33	Site connectivities in silver borophosphate glasses: new results from $^{11}\text{B}\{^{31}\text{P}\}$ and $^{31}\text{P}\{^{11}\text{B}\}$ rotational echo double resonance NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 27, 65-76.	2.3	86
34	Structural studies of NaPO_3WO_3 glasses by solid state NMR and Raman spectroscopy. <i>Journal of Materials Chemistry</i> , 2006, 16, 3277-3284.	6.7	86
35	Site Preferences in the Mixed Cation Zeolite, Li,Na-Chabazite: A Combined Solid-State NMR and Neutron Diffraction Study. <i>Journal of the American Chemical Society</i> , 2000, 122, 1700-1708.	13.7	85
36	Cation clustering in lithium silicate glasses: Quantitative description by solid-state NMR and molecular dynamics simulations. <i>Physical Review B</i> , 2005, 72, .	3.2	82

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37	The mixed network former effect in glasses: solid state NMR and XPS structural studies of the glass system $(\text{Na}_2\text{O})_x(\text{BPO}_4)_{1-x}$. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6552.	2.8	81
38	Remarkable coordination behavior of alkyl isocyanides toward unsaturated vicinal frustrated P/B Lewis pairs. <i>Chemical Science</i> , 2013, 4, 2657.	7.4	81
39	Dipolar Solid State NMR Approaches Towards Medium-Range Structure in Oxide Glasses. <i>Topics in Current Chemistry</i> , 2005, 246, 195-233.	4.0	80
40	New Insights into Frustrated Lewis Pairs: Structural Investigations of Intramolecular Phosphane-Borane Adducts by Using Modern Solid-State NMR Techniques and DFT Calculations. <i>Journal of the American Chemical Society</i> , 2012, 134, 4236-4249.	13.7	78
41	Structural Characterisation of the Li Argyrodites Li_7PS_6 and Li_7PSe_6 and their Solid Solutions: Quantification of Site Preferences by MAS-NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2010, 16, 5138-5147.	3.3	77
42	One-Dimensional Polymers Based on $[\{\text{CpMo}(\text{CO})_2\}_2(\mu_2\text{-P}_2)]$: Solid-State Conformation Analysis by NMR Spectroscopy and DFT Calculations. <i>Chemistry - A European Journal</i> , 2005, 11, 2163-2169.	3.3	75
43	The Mixed-Network Former Effect in Phosphate Glasses: NMR and XPS Studies of the Connectivity Distribution in the Glass System $(\text{NaPO}_3)_x(\text{B}_2\text{O}_3)_{1-x}$. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12530-12539.	3.1	75
44	Thirty-year quest for structure-nucleation relationships in oxide glasses. <i>International Materials Reviews</i> , 2015, 60, 376-391.	19.3	75
45	Solvothermal Synthesis, Crystal Structure, Thermal Stability, and Mössbauer Spectroscopic Investigation of the Mixed-Valent Thioantimonate(III,V) $[\text{Ni}(\text{dien})_2]_2\text{Sb}_4\text{S}_9$. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4487-4489.	13.8	74
46	Spatial distributions and chemical environments of cations in single- and mixed alkali borate glasses: Evidence from solid state NMR. <i>Solid State Ionics</i> , 1998, 105, 25-37.	2.7	73
47	Dipolar NMR Strategies for Multispin Systems Involving Quadrupolar Nuclei: $^31\text{P}\{^{23}\text{Na}\}$ Rotational Echo Double Resonance (REDOR) of Crystalline Sodium Phosphates and Phosphate Glasses. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7061-7073.	2.6	73
48	Vanadia/silica xerogels and nanocomposites. <i>Chemistry of Materials</i> , 1993, 5, 1591-1594.	6.7	69
49	Structural Characterization of Rare-Earth Doped Yttrium Aluminoborate Laser Glasses Using Solid State NMR. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16216-16225.	3.1	66
50	Oxovanadium(V) Alkoxide Derivatives of 1,2-Diols: Synthesis and Solid-State ^{51}V NMR Characterization. <i>Inorganic Chemistry</i> , 1994, 33, 2427-2438.	4.0	65
51	^{23}Na nuclear magnetic resonance spin echo decay spectroscopy of sodium silicate glasses and crystalline model compounds. <i>Solid State Nuclear Magnetic Resonance</i> , 1995, 5, 113-122.	2.3	65
52	Frustrated Lewis Pair Modification by 1,1-Carboboration: Disclosure of a Phosphine Oxide Triggered Nitrogen Monoxide Addition to an Intramolecular P/B Frustrated Lewis Pair. <i>Journal of the American Chemical Society</i> , 2014, 136, 9014-9027.	13.7	65
53	Local cation environments in mixed alkali silicate glasses studied by multinuclear single and double resonance magic-angle spinning NMR. <i>Journal of Non-Crystalline Solids</i> , 1997, 215, 41-50.	3.1	64
54	Structural transformation of thiosilicate glasses: ^{29}Si MAS-NMR evidence for edge-sharing in the system $\text{Li}_2\text{Si}_3\text{S}_2$. <i>Journal of Non-Crystalline Solids</i> , 1989, 113, 287-293.	3.1	63

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55	A ¹⁵¹ Eu Mössbauer Spectroscopic and Magnetic Susceptibility Investigation of the Intermetallic Compounds EuTn (T=Zn, Pd, Pt, Au). Journal of Solid State Chemistry, 1998, 137, 174-180.	2.9	63
56	Sol-gel synthesis of Al ₂ O ₃ -P ₂ O ₅ glasses: mechanistic studies by solution and solid state NMR. Journal of Materials Chemistry, 2004, 14, 1605-1615.	6.7	62
57	Self-Assemblies Based on [Cp ₂ Mo ₂ (CO) ₄ (η^4 , η^2 - η^2)] Solid State Structure and Dynamic Behaviour in Solution. Chemistry - A European Journal, 2008, 14, 282-295.	3.3	61
58	NMR investigations on the lithiation and delithiation of nanosilicon-based anodes for Li-ion batteries. Journal of Solid State Electrochemistry, 2011, 15, 349-356.	2.5	61
59	Coordination Polymers Based on [Cp*Fe(η^5 - η^5)]: Solid State Structure and MAS NMR Studies. Chemistry - A European Journal, 2012, 18, 1168-1179.	3.3	61
60	Medium-Range Order in Sol-Gel Prepared Al ₂ O ₃ -SiO ₂ Glasses: New Results from Solid-State NMR. Journal of Physical Chemistry C, 2014, 118, 4906-4917.	3.1	61
61	Sulfur-33 NMR at natural abundance in solids. Journal of the American Chemical Society, 1986, 108, 2140-2146.	13.7	58
62	The state of water in rhyolitic glasses. Journal of Non-Crystalline Solids, 1987, 93, 93-114.	3.1	58
63	¹¹ B{ ²⁷ Al} and Al{ ¹¹ B} double resonance experiments on a glassy sodium aluminoborate. Solid State Nuclear Magnetic Resonance, 1996, 6, 203-212.	2.3	57
64	Anion Rotation and Cation Diffusion in Low-Temperature Sodium Orthophosphate: Results from Solid-State NMR. Journal of Physical Chemistry A, 2001, 105, 6808-6816.	2.5	57
65	Synthesis of III-V semiconductors by solid-state metathesis. Inorganic Chemistry, 1993, 32, 2745-2752.	4.0	56
66	Silver dynamics in silver iodide/silver phosphate glasses studied by multi-dimensional ¹⁰⁹ Ag NMR. Physical Chemistry Chemical Physics, 2002, 4, 3237-3245.	2.8	56
67	Structural organization and thermal properties of the Sb ₂ O ₃ -SbPO ₄ glass system. Journal of Materials Chemistry, 2004, 14, 3398-3405.	6.7	56
68	The Chemistry of a Non-Interacting Vicinal Frustrated Phosphane/Borane Lewis Pair. Chemistry - A European Journal, 2017, 23, 6056-6068.	3.3	56
69	Structural models for non-oxide chalcogenide glasses. Atomic distribution and local order in the system phosphorus-selenium studied by phosphorus-31 dipolar NMR spectroscopy. Journal of the American Chemical Society, 1989, 111, 3536-3541.	13.7	55
70	V. Physicochemical Methods of Glass Characterization. Connectivities and cation distributions in oxide glasses: New results from solid state NMR. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 1539-1549.	0.9	54
71	A ¹¹⁹ Sn and ¹⁵¹ Eu Mössbauer spectroscopic, magnetic susceptibility, and electrical conductivity investigation of the stannides EuTSn (T = Cu, Pd, Ag, Pt). Journal of Materials Chemistry, 2001, 11, 1133-1140.	6.7	54
72	High-Resolution Double-Quantum ³¹ P NMR: A New Approach to Structural Studies of Thiophosphates. Chemistry - A European Journal, 1998, 4, 1762-1767.	3.3	53

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73	Potassium Cation Effects on Site Preferences in the Mixed Cation Zeolite Li,Na ⁺ Chabazite. <i>Chemistry of Materials</i> , 2001, 13, 385-391.	6.7	52
74	Preparation of Bifunctional Mesoporous Silica Nanoparticles by Orthogonal Click Reactions and Their Application in Cooperative Catalysis. <i>Chemistry - A European Journal</i> , 2012, 18, 16689-16697.	3.3	52
75	Vanadium-51 NMR as a probe of metal-ion binding in metalloproteins. <i>Journal of the American Chemical Society</i> , 1987, 109, 1864-1865.	13.7	51
76	Structural characterization of the lithium silicides Li ₁₅ Si ₄ , Li ₁₃ Si ₄ , and Li ₇ Si ₃ using solid state NMR. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6496.	2.8	51
77	Glass formation in non-oxide chalcogenide systems. Structural elucidation of Li ₂ Si ₂ -LiI solid electrolytes by quantitative ²⁹ Si, ⁶ Li and ⁷ Li high resolution solid state NMR methods. <i>Journal of Non-Crystalline Solids</i> , 1989, 107, 271-282.	3.1	50
78	Ionically conductive sulfide-based lithium glasses. <i>Journal of Non-Crystalline Solids</i> , 1990, 123, 328-338.	3.1	50
79	Cyclic Silanes. Sulfur-Induced Pentacoordination in a Disiloxane. <i>Organometallics</i> , 1994, 13, 1285-1293.	2.3	50
80	Iridium(III)-surfactant complex immobilized in mesoporous silica via templated synthesis: a new route to optical materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 8829.	6.7	50
81	Effect of magnesium ion incorporation on the thermal stability, dissolution behavior and bioactivity in Bioglass-derived glasses. <i>Journal of Non-Crystalline Solids</i> , 2013, 382, 57-65.	3.1	50
82	CO-Reduction Chemistry: Reaction of a CO-Derived Formylhydridoborate with Carbon Monoxide, with Carbon Dioxide, and with Dihydrogen. <i>Journal of the American Chemical Society</i> , 2017, 139, 6474-6483.	13.7	50
83	Quantitative determination of the structural units in phosphorus-selenium glasses by ³¹ P dipolar and magic-angle-spinning NMR spectroscopy. <i>Physical Review B</i> , 1991, 43, 7279-7287.	3.2	49
84	²⁹ Si NMR structural studies of ionically conductive silicon chalcogenide glasses and model compounds. <i>Journal of Non-Crystalline Solids</i> , 1995, 188, 75-86.	3.1	49
85	Electrochemical Lithiation of Silicon Clathrate-II. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1318-A1322.	2.9	49
86	Charge compensation in RE ³⁺ (RE = Eu, Gd) and M ⁺ (M = Li, Na, K) co-doped alkaline earth nanofluorides obtained by microwave reaction with reactive ionic liquids leading to improved optical properties. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9439-9450.	5.5	49
87	Structure-Property Correlations in Lithium Phosphate Glasses: New Insights from ³¹ P and ⁷ Li Double-Resonance NMR. <i>Chemistry of Materials</i> , 2000, 12, 1840-1846.	6.7	48
88	Au ₂ (SeO ₃) ₂ (SeO ₄): Synthesis and Characterization of a New Noncentrosymmetric Selenite-Selenate. <i>Inorganic Chemistry</i> , 2004, 43, 5860-5864.	4.0	48
89	Synthesis and characterization of mixed ZnSe/GaP semiconductor species included in the sodalite structure. <i>Journal of the American Chemical Society</i> , 1993, 115, 10553-10558.	13.7	47
90	Short and Medium Range Order in Ion-Conducting Glasses Studied by Modern Solid State NMR Techniques. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 1591-1654.	2.8	47

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91	Mesoporous AlPO ₄ Glass from a Simple Aqueous Sol-Gel Route. <i>Journal of the American Ceramic Society</i> , 2005, 88, 897-902.	3.8	45
92	Medium-range order in sodium phosphate glasses: A quantitative rotational echo double resonance solid state NMR study. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2276.	2.8	45
93	Solid state ⁵¹ V NMR structural studies of vanadium(V) oxide catalysts supported on TiO ₂ (anatase) and TiO ₂ (rutile). The influence of surface impurities on the vanadium(V) coordination. <i>Colloids and Surfaces</i> , 1990, 45, 347-359.	0.9	44
94	Magnetic and Electrical Properties, ¹⁵¹ Eu Mössbauer Spectroscopy, and Chemical Bonding of REAgMg (RE=La, Ce, Eu, Yb) and EuAuMg. <i>Journal of Solid State Chemistry</i> , 2002, 164, 201-209.	2.9	44
95	Local coordination and spatial distribution of cations in mixed-alkali borate glasses. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3198-3208.	2.8	43
96	Basicity and Porosity of a Calcined Hydrotalcite-Type Material from Nitrogen Porosimetry and Adsorption Microcalorimetry Methods. <i>Chemistry of Materials</i> , 2003, 15, 4231-4238.	6.7	43
97	New Stannide ScAgSn: Determination of the Superstructure via Two-Dimensional ⁴⁵ Sc Solid State NMR. <i>Inorganic Chemistry</i> , 2007, 46, 771-779.	4.0	43
98	Structure-property relations in new fluorophosphate glasses singly- and co-doped with Er ³⁺ and Yb ³⁺ . <i>Materials Chemistry and Physics</i> , 2015, 157, 45-55.	4.0	43
99	Network Structure and Rare-Earth Ion Local Environments in Fluoride Phosphate Photonic Glasses Studied by Solid-State NMR and Electron Paramagnetic Resonance Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24574-24587.	3.1	43
100	(CuI) ₃ P ₄ S ₄ : Preparation, Structural, and NMR Spectroscopic Characterization of a Copper(I) Halide Adduct with -P ₄ S ₄ . <i>Chemistry - A European Journal</i> , 2002, 8, 4228-4233.	3.3	42
101	The self-organized phase of bulk P x Se 1 - x glasses. <i>Europhysics Letters</i> , 2003, 62, 49-55.	2.0	42
102	Cation environments and spatial distribution in Na ₂ O-B ₂ O ₃ glasses: New results from solid state NMR. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2384.	2.8	42
103	Local environment of scandium in aluminophosphate laser glasses: structural studies by solid state NMR spectroscopy. <i>Journal of Materials Chemistry</i> , 2007, 17, 3733.	6.7	42
104	Quantification of Short and Medium Range Order in Mixed Network Former Glasses of the System GeO ₂ -NaPO ₃ : A Combined NMR and X-ray Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12747-12763.	3.1	42
105	NMR and conductivity studies of the mixed glass former effect in lithium borophosphate glasses. <i>Journal of Chemical Physics</i> , 2012, 137, 124507.	3.0	41
106	Profluorescent verdazyl radicals synthesis and characterization. <i>Chemical Science</i> , 2015, 6, 4712-4716.	7.4	41
107	Nonstoichiometric channel chalcogenides Tl _{1-x} V ₅ S ₈ : Topotactic redox reactions and NMR studies. <i>Materials Research Bulletin</i> , 1983, 18, 1283-1289.	5.2	40
108	Double-quantum cross-polarization between half-integer quadrupolar spin systems: ¹¹ B and ²³ Na and ¹¹ B and ²⁷ Al. <i>Chemical Physics Letters</i> , 1998, 292, 154-160.	2.6	40

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109	31P and 23Na Solid-State NMR Studies of Cation Dynamics in HT-Sodium Orthophosphate and the Solid Solutions (Na2SO4)x~(Na3PO4)1-x. Journal of Physical Chemistry A, 1999, 103, 10764-10775.	2.5	40
110	Structural models for yttrium aluminium borate laser glasses: NMR and EPR studies of the system (Y2O3)0.2~(Al2O3)x~(B2O3)0.8~x. Physical Chemistry Chemical Physics, 2011, 13, 16071.	2.8	40
111	C-rotational echo double resonance: Heteronuclear dipolar recoupling with homonuclear dipolar decoupling. Journal of Chemical Physics, 2001, 115, 6095-6105.	3.0	39
112	Lithium-Transition Metal-Tetrelides Structure and Lithium Mobility. Zeitschrift Fur Physikalische Chemie, 2010, 224, 1475-1504.	2.8	39
113	Structural and dynamic characterization of Li12Si7 and Li12Ge7 using solid state NMR. Solid State Nuclear Magnetic Resonance, 2012, 42, 17-25.	2.3	39
114	DQ-DRENAR: A new NMR technique to measure site-resolved magnetic dipole-dipole interactions in multispin-1/2 systems: Theory and validation on crystalline phosphates. Journal of Chemical Physics, 2013, 138, 164201.	3.0	39
115	Formation and crystal growth of needle-like fluoroapatite in functional glass-ceramics. Journal of Materials Chemistry, 2008, 18, 1318.	6.7	38
116	Structure-Property Relations in Mixed-Network Glasses: Multinuclear Solid State NMR Investigations of the System Al₂O₃:(30 ~) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (<i>x</i>P₂C₃ 3322-3331.	3.1	38
117	⁴⁵Sc Solid State NMR Spectroscopy A Complementary Tool to X-ray Crystallography for Structure Determination of Intermetallic Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 2232-2243.	1.2	38
118	Activation of transport and local dynamics in polysiloxane-based salt-in-polymer electrolytes: a multinuclear NMR study. Physical Chemistry Chemical Physics, 2010, 12, 6844.	2.8	38
119	Intermediate Role of Gallium in Oxidic Glasses: Solid State NMR Structural Studies of the Ga₂O₃~NaPO₃ System. Journal of Physical Chemistry C, 2014, 118, 15386-15403.	3.1	38
120	Thermal and luminescent properties of 2~%~1/4m emission in thulium-sensitized holmium-doped silicate-germanate glass. Photonics Research, 2016, 4, 214.	7.0	38
121	Review on the structural analysis of fluoride-phosphate and fluoro-phosphate glasses. Journal of Non-Crystalline Solids: X, 2019, 3, 100026.	1.2	38
122	NMR studies of phosphorus chalcogenide-copper iodide coordination compounds. Physical Chemistry Chemical Physics, 2003, 5, 3768-3776.	2.8	37
123	Diradicaloid or Zwitterionic Character: The Non-Tetrahedral Unsaturated Compound [Si₄{N(SiMe₃)Dipp}₄] with a Butterfly-type Si₄ Substructure. Angewandte Chemie - International Edition, 2017, 56, 13866-13871.	13.8	37
124	The Use of Nuclear Magnetic Resonance, Microcalorimetry, and Atomic Force Microscopy to Study the Aging and Regeneration of Fluid Cracking Catalysts. Journal of Catalysis, 2000, 196, 134-148.	6.2	36
125	Sintering and Phase Transformation of V-Loaded Anatase Materials Containing Bulk and Surface V Species. Journal of Physical Chemistry B, 2000, 104, 8931-8939.	2.6	35
126	Conformational Analysis of One-Dimensional Coordination Polymers Based on [Cp2Cr2(CO)4(1/4,1/2-P2)] by Solid-State Multinuclear NMR Spectroscopy and Density Functional Calculations. European Journal of Inorganic Chemistry, 2007, 2007, 2775-2782.	2.0	35

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127	Solid state frustrated Lewis pair chemistry. <i>Chemical Science</i> , 2018, 9, 4859-4865.	7.4	35
128	Solid-state bromination of poly(1,6-di-N-carbazolyl-2,4-hexadiyne): a cross polarization-magic angle spinning NMR study. <i>Journal of the American Chemical Society</i> , 1987, 109, 761-768.	13.7	34
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