

Victor V Terskikh

List of Publications by Year in descending order

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106
papers

2,869
citations

147566
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117
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117
docs citations

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3225
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-state ¹⁷ O NMR study of β -D-glucose: exploring new frontiers in isotopic labeling, sensitivity enhancement, and NMR crystallography. <i>Chemical Science</i> , 2022, 13, 2591-2603.	3.7	13
2	Exploring Structural Nuances in Germanium Halide Perovskites Using Solid-State ⁷³ Ge and ¹³³ Cs NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1687-1696.	2.1	9
3	Multinuclear solid-state NMR: Unveiling the local structure of defective MOF MIL-120. <i>Solid State Nuclear Magnetic Resonance</i> , 2022, 119, 101793.	1.5	3
4	Metal Halide Perovskite and Perovskite-like Materials through the Lens of Ultra-wideline ^{35/37} Cl NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1255-1263.		10
5	Expanding the NMR toolkit for biological solids: oxygen-17 enriched Fmoc-amino acids. <i>New Journal of Chemistry</i> , 2021, 45, 12384-12398.	1.4	3
6	Correction to Solid-State ¹ H, ¹³ C, and ¹⁷ O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. <i>Crystal Growth and Design</i> , 2021, 21, 5472-5472.	1.4	0
7	Perspectives of fast magic-angle spinning ⁸⁷ Rb NMR of organic solids at high magnetic fields. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 162-171.	1.1	1
8	¹³ C chemical shift tensors in MOF $\text{Mg}_3(\text{HCOO})_6$: Which component is more sensitive to host-guest interaction?. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1082-1090.	1.1	6
9	Solid-State ¹ H, ¹³ C, and ¹⁷ O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. <i>Crystal Growth and Design</i> , 2020, 20, 7484-7491.	1.4	7
10	Chlorine-35 Solid-State Nuclear Magnetic Resonance Spectroscopy as an Indirect Probe of the Oxidation Number of Tin in Tin Chlorides. <i>Inorganic Chemistry</i> , 2020, 59, 13651-13670.	1.9	11
11	Innentitelbild: Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H_2 by Calcium Trimesate (Angew. Chem. 37/2020). <i>Angewandte Chemie</i> , 2020, 132, 15898-15898.	1.6	0
12	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H_2 by Calcium Trimesate. <i>Angewandte Chemie</i> , 2020, 132, 16322-16328.	1.6	8
13	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H_2 by Calcium Trimesate. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16188-16194.	7.2	28
14	A combined solid-state ¹⁷ O NMR, crystallographic, and computational study of oxiranes. <i>Canadian Journal of Chemistry</i> , 2020, 98, 434-440.	0.6	3
15	A Quadrupole-Central-Transition ⁵⁹ Co NMR Study of Cobalamins in Solution. <i>ChemPhysChem</i> , 2019, 20, 268-275.	1.0	7
16	Cleaving Carboxyls: Understanding Thermally Triggered Hierarchical Pores in the Metal-Organic Framework MIL-121. <i>Journal of the American Chemical Society</i> , 2019, 141, 14257-14271.	6.6	53
17	CO_2 Behavior in a Highly Selective Ultramicroporous Framework: Insights from Single-Crystal X-ray Diffraction and Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17798-17807.	1.5	16
18	Solid-State ¹⁷ O NMR Study of Carboxylic Acid Dimers: Simultaneously Accessing Spectral Properties of Low- and High-Energy Tautomers. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8243-8253.	1.1	11

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19	Mechanochemical Synthesis of Methylammonium Lead Mixed Halide Perovskites: Unraveling the Solid-Solution Behavior Using Solid-State NMR. <i>Chemistry of Materials</i> , 2018, 30, 2309-2321.	3.2	85
20	A Quadrupole-Central-Transition ¹⁷ O NMR Study of Nicotinamide: Experimental Evidence of Cross-Correlation between Second-Order Quadrupolar Interaction and Magnetic Shielding Anisotropy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4813-4820.	1.2	12
21	Methylammonium Cation Dynamics in Methylammonium Lead Halide Perovskites: A Solid-State NMR Perspective. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1560-1573.	1.1	103
22	Composition-Tunable Formamidinium Lead Mixed Halide Perovskites via Solvent-Free Mechanochemical Synthesis: Decoding the Pb Environments Using Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2671-2677.	2.1	74
23	A ¹¹ B and ³¹ P MAS NMR study of the impact of Ca ²⁺ and Sr ²⁺ network modifying cations on the structure of borate and borophosphate glasses. <i>Journal of Commonwealth Law and Legal Education</i> , 2018, 59, 174-180.	0.2	5
24	Pyrolysis of the Cellulose Fraction of Biomass in the Presence of Solid Acid Catalysts: An Operando Spectroscopy and Theoretical Investigation. <i>ChemSusChem</i> , 2018, 11, 4044-4059.	3.6	7
25	Probing Calcium-Based Metal-Organic Frameworks via Natural Abundance ⁴³ Ca Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 8732-8736.	1.7	15
26	Welcoming Gallium- and Indium-Fumarate MOFs to the Family: Synthesis, Comprehensive Characterization, Observation of Porous Hydrophobicity, and CO ₂ Dynamics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28582-28596.	4.0	30
27	Capturing Elusive Polymorphs of Curcumin: A Structural Characterization and Computational Study. <i>Crystal Growth and Design</i> , 2018, 18, 5556-5563.	1.4	27
28	Loading across the Periodic Table: Introducing 14 Different Metal Ions To Enhance Metal-Organic Framework Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30296-30305.	4.0	20
29	Solid-State NMR of Oxide-Based Materials. , 2018, , 1125-1160.		2
30	Tracking the evolution and differences between guest-induced phases of Ga-MIL-53 via ultra-wideline ^{69/71} Ga solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 118-131.	1.5	18
31	Ultrahigh-Field ²⁵ Mg NMR and DFT Study of Magnesium Borate Minerals. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 299-309.	1.2	11
32	Solid-State ¹ H and ²⁷ Al NMR Studies of DMSO-Kaolinite Intercalates. <i>Clays and Clay Minerals</i> , 2017, 65, 206-219.	0.6	12
33	Solid-State NMR of Oxide-Based Materials. , 2016, , 1-37.		0
34	Observation of the Second-Order Quadrupolar Interaction as a Dominating NMR Relaxation Mechanism in Liquids: The Ultraslow Regime of Motion. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3412-3418.	2.1	16
35	Random Distribution of EFG Parameters in ²⁷ Al MAS NMR Spectra of AlO _x /SiO ₂ Catalysts and Related Systems. <i>Applied Magnetic Resonance</i> , 2016, 47, 1193-1205.	0.6	2
36	Solid-State ¹⁷ O NMR of Unstable Acyl-Enzyme Intermediates: A Direct Probe of Hydrogen Bonding Interactions in the Oxyanion Hole of Serine Proteases. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11142-11150.	1.2	19

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37	Proton Probability Distribution in the O ¹⁷ -H ¹ -O Low-Barrier Hydrogen Bond: A Combined Solid-State NMR and Quantum Chemical Computational Study of Dibenzoylmethane and Curcumin. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11692-11704.	1.2	41
38	Oxygen-17 NMR spectroscopy of water molecules in solid hydrates. <i>Canadian Journal of Chemistry</i> , 2016, 94, 189-197.	0.6	21
39	¹¹ B MAS NMR and First-Principles Study of the [OBO ₃] Pyramids in Borates. <i>Inorganic Chemistry</i> , 2016, 55, 1970-1977.	1.9	15
40	Solid-State ⁸⁷ Sr NMR Spectroscopy at Natural Abundance and High Magnetic Field Strength. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11847-11861.	1.1	13
41	Monitoring and Understanding the Paraelectric-Ferroelectric Phase Transition in the Metal-Organic Framework [NH ₄][M(HCOO) ₃] by Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2015, 21, 14348-14361.	1.7	36
42	Frontispiece: Monitoring and Understanding the Paraelectric-Ferroelectric Phase Transition in the Metal-Organic Framework [NH ₄][M(HCOO) ₃] by Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	1.7	0
43	A solid-state ¹⁷ O NMR study of platinum-carboxylate complexes: carboplatin and oxaliplatin. <i>Canadian Journal of Chemistry</i> , 2015, 93, 945-953.	0.6	19
44	Assessing distortion of the AF 6 \hat{a}^{\sim} (A=As, Sb) octahedra in solid hexafluorometallates(V) via NMR spectroscopy. <i>Canadian Journal of Chemistry</i> , 2015, 93, 938-944.	0.6	8
45	Are the amide bonds in N-acyl imidazoles twisted? A combined solid-state ¹⁷ O NMR, crystallographic, and computational study. <i>Canadian Journal of Chemistry</i> , 2015, 93, 451-458.	0.6	10
46	Solid-State ¹⁷ O NMR Spectroscopy of Paramagnetic Coordination Compounds. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4753-4757.	7.2	44
47	Spin-Spin Coupling between Quadrupolar Nuclei in Solids: ¹¹ B- ⁷⁵ As Spin Pairs in Lewis Acid-Base Adducts. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6949-6960.	1.1	6
48	Solid-State ⁶³ Cu, ⁶⁵ Cu, and ³¹ P NMR Spectroscopy of Photoluminescent Copper(I) Triazole Phosphine Complexes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8279-8293.	1.1	16
49	Solid-State ¹⁷ O NMR of Oxygen-Nitrogen Singly Bonded Compounds: Hydroxylammonium Chloride and Sodium Trioxodinitrate (Angeli TM s Salt). <i>Journal of Physical Chemistry A</i> , 2015, 119, 8133-8138.	1.1	13
50	Effect of Impregnation on the Structure of Niobium Oxide/Alumina Catalysts Studied by Multinuclear Solid-State NMR, FTIR, and Quantum Chemical Calculations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10400-10411.	1.5	10
51	Mapping Out Chemically Similar, Crystallographically Nonequivalent Hydrogen Sites in Metal-Organic Frameworks by ¹ H Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2015, 27, 3306-3316.	3.2	46
52	Site Occupation of Ga and Al in Stabilized Cubic Li ₃ Al ₃ La ₃ Zr ₂ O ₁₂ Garnets As Deduced from ²⁷ Al and ⁷¹ Ga MAS NMR at Ultrahigh Magnetic Fields. <i>Chemistry of Materials</i> , 2015, 27, 3135-3142.	3.2	65
53	Aluminum environments in synthetic Ca-Tschermak clinopyroxene (CaAlAlSiO ₆) from Rietveld refinement, ²⁷ Al NMR, and first-principles calculations. <i>American Mineralogist</i> , 2015, 100, 2219-2230.	0.9	12
54	New Insights into the Short-Range Structures of Microporous Titanosilicates As Revealed by ^{47/49} Ti, ²³ Na, ³⁹ K, and ²⁹ Si Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27353-27365.	1.5	25

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55	A ¹¹⁵ In solid-state NMR study of low oxidation-state indium complexes. <i>Chemical Science</i> , 2014, 5, 982-995.	3.7	22
56	High field solid state ¹³ C NMR spectroscopy of cucurbituril materials. <i>CrystEngComm</i> , 2014, 16, 3788.	1.3	6
57	Wobbling and Hopping: Studying Dynamics of CO ₂ Adsorbed in Metal-Organic Frameworks via ¹⁷ O Solid-State NMR. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3360-3365.	2.1	78
58	Spies Within Metal-Organic Frameworks: Investigating Metal Centers Using Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23728-23744.	1.5	56
59	Experimental Characterization of the Hydride ¹ H Shielding Tensors for H ₂ (PR) ₃ and HRhCl ₂ (PR) ₃ : Extremely Shielded Hydride Protons with Unusually Large Magnetic Shielding Anisotropies. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1203-1212.	1.1	9
60	Chlorine-35 Solid-State NMR Spectroscopy as an Indirect Probe of Germanium Oxidation State and Coordination Environment in Germanium Chlorides. <i>Inorganic Chemistry</i> , 2014, 53, 7377-7388.	1.9	11
61	Solid-State ⁶⁹ Ga and ⁷¹ Ga NMR Study of the Nanoscale Inorganic Cluster [Ga ₁₃ (¹ / ₄ -OH) ₆ (¹ / ₄ -OH) ₁₈ (H ₂ O) ₂₄](NO ₃) ₂₄ . <i>Chemistry of Materials</i> , 2014, 26, 4978-4983.		
62	Feasibility of arsenic and antimony NMR spectroscopy in solids: An investigation of some group 15 compounds. <i>Solid State Nuclear Magnetic Resonance</i> , 2014, 61-62, 54-61.	1.5	25
63	Solid-State ¹⁷ O NMR of Pharmaceutical Compounds: Salicylic Acid and Aspirin. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9643-9654.	1.2	56
64	Solid State Complex Chemistry: Formation, Structure, and Properties of Homoleptic Tetracyanamidogermanates RE[Ge(CN) ₂] ₄ (RE = La, Pr, Nd, Gd). <i>Inorganic Chemistry</i> , 2013, 52, 12372-12382.	1.9	22
65	Characterisation of Germanium Monohalides by Solid-State NMR Spectroscopy and First Principles Quantum Chemical Calculations. <i>Australian Journal of Chemistry</i> , 2013, 66, 1202.	0.5	5
66	Theoretical and experimental insights into applicability of solid-state ⁹³ Nb NMR in catalysis. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5115.	1.3	48
67	²⁵ Mg Solid-State NMR: A Sensitive Probe of Adsorbing Guest Molecules on a Metal Center in Metal-Organic Framework CPO-27-Mg. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 7-11.	2.1	44
68	Structure of NaYF ₄ Upconverting Nanoparticles: A Multinuclear Solid-State NMR and DFT Computational Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25733-25741.	1.5	32
69	Identification of Nonequivalent Framework Oxygen Species in Metal-Organic Frameworks by ¹⁷ O Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16953-16960.	1.5	59
70	Resolving Multiple Non-equivalent Metal Sites in Magnesium-Containing Metal-Organic Frameworks by Natural Abundance ²⁵ Mg Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2013, 19, 4432-4436.	1.7	45
71	Solid-State ⁷³ Ge NMR Spectroscopy of Simple Organogermanes. <i>Chemistry - A European Journal</i> , 2012, 18, 13770-13779.	1.7	13
72	Variable-Temperature ¹⁷ O NMR Studies Allow Quantitative Evaluation of Molecular Dynamics in Organic Solids. <i>Journal of the American Chemical Society</i> , 2012, 134, 14609-14617.	6.6	55

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73	Characterization of Zn-Containing Metal-Organic Frameworks by Solid-State ⁶⁷ Zn NMR Spectroscopy and Computational Modeling. <i>Chemistry - A European Journal</i> , 2012, 18, 12251-12259.	1.7	66
74	Obtaining accurate chemical shifts for all magnetic nuclei (¹ H, ¹³ C,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 solid-state NMR case study. <i>Canadian Journal of Chemistry</i> , 2011, 89, 1087-1094.	0.6	23
75	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.	0.6	20
76	Experimental Verification of the Theory of Nuclear Quadrupole Relaxation in Liquids over the Entire Range of Molecular Tumbling Motion. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1020-1023.	2.1	15
77	Structural analysis of lanthanum-containing battery materials using ¹³⁹ La solid-state NMR. <i>Canadian Journal of Chemistry</i> , 2011, 89, 1105-1117.	0.6	20
78	Câ€“Sâ€“H/polyaniline nanocomposites prepared by in situ polymerization. <i>Journal of Materials Science</i> , 2011, 46, 460-467.	1.7	42
79	In Vivo Nuclear Magnetic Resonance Metabolite Profiling in Plant Seeds. <i>Methods in Molecular Biology</i> , 2011, 773, 307-318.	0.4	4
80	In Vivo ¹ H-NMR Microimaging During Seed Imbibition, Germination, and Early Growth. <i>Methods in Molecular Biology</i> , 2011, 773, 319-327.	0.4	7
81	Solid-State ¹⁷ Oâ€“NMR Spectroscopy of Large Proteinâ€“Ligand Complexes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8399-8402.	7.2	43
82	Solid-State ¹⁷ O NMR and Computational Studies of <i>C</i> -Nitrosoarene Compounds. <i>Journal of the American Chemical Society</i> , 2010, 132, 5143-5155.	6.6	39
83	Exploring the limits of ⁷³ Ge solid-state NMR spectroscopy at ultrahigh magnetic field. <i>Chemical Communications</i> , 2010, 46, 2817.	2.2	19
84	¹³ C CP MAS NMR of halogenated (Cl, Br, I) pharmaceuticals at ultrahigh magnetic fields. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 398-406.	1.1	20
85	Application of Solid-State ²⁰⁹ Pb NMR to the Structural Characterization of Bismuth-Containing Materials. <i>Journal of the American Chemical Society</i> , 2009, 131, 8271-8279.	6.6	63
86	A natural abundance ³³ S solid-state NMR study of layered transition metaldisulfides at ultrahigh magnetic field. <i>Chemical Communications</i> , 2009, , 186-188.	2.2	31
87	Germanium-73 NMR of amorphous and crystalline GeO ₂ . <i>Chemical Communications</i> , 2009, , 4660.	2.2	27
88	¹³³ Cs NMR and ESR Studies of Cesium-Loaded LiX and LiA Zeolites. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17796-17803.	1.5	9
89	Solid-state ¹¹⁵ In NMR study of indium coordination complexes. <i>Chemical Communications</i> , 2008, , 5933.	2.2	40
90	Experimental and Computational Characterization of the ¹⁷ O Quadrupole Coupling and Magnetic Shielding Tensors for <i>p</i> -Nitrobenzaldehyde and Formaldehyde. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1024-1032.	1.1	29

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91	A Multinuclear Solid-State NMR Study of Alkali Metal Ions in Tetraphenylborate Salts, $M[BPh_4]$ (M = Na, K, Rb and Cs): What Is the NMR Signature of Cation- π Interactions?. Journal of Physical Chemistry A, 2008, 112, 10359-10364.	1.1	31
92	Deterioration of western redcedar (<i>Thuja plicata</i> Donn ex D. Don) seeds: protein oxidation and in vivo NMR monitoring of storage oils. Journal of Experimental Botany, 2008, 59, 765-777.	2.4	34
93	SpectroGrid: Providing Simple Secure Remote Access to Scientific Instruments. 2008 22nd International Symposium on High Performance Computing Systems and Applications, 2008, , .	0.0	5
94	Ultrahigh-Field Solid-State ^{59}Co NMR Studies of $\text{Co}(\text{C}_2\text{B}_9\text{H}_{11})_2$ - and $\text{Co}(\text{C}_5\text{H}_5)_2$ -Salts. Journal of the American Chemical Society, 2007, 129, 6704-6705.	6.6	27
95	The Structure of Two Anhydrous Polymorphs of Caffeine from Single-Crystal Diffraction and Ultrahigh-Field Solid-State ^{13}C NMR Spectroscopy. Crystal Growth and Design, 2007, 7, 1406-1410.	1.4	91
96	Ultrahigh-Field NMR Spectroscopy of Quadrupolar Transition Metals: ^{55}Mn NMR of Several Solid Manganese Carbonyls. Inorganic Chemistry, 2006, 45, 8492-8499.	1.9	23
97	Water uptake and oil distribution during imbibition of seeds of western white pine (<i>Pinus monticola</i>) Tj ETQq1 1 0.784314 rgBT /Over	1.6	60
98	In vivo ^{13}C NMR metabolite profiling: potential for understanding and assessing conifer seed quality. Journal of Experimental Botany, 2005, 56, 2253-2265.	2.4	37
99	Probing the Location and Distribution of Paramagnetic Centers in Alkali Metal-Loaded Zeolites through ^7Li MAS NMR. Journal of the American Chemical Society, 2004, 126, 11350-11359.	6.6	10
100	$A^{129}\text{Xe}$ NMR Study of Functionalized Ordered Mesoporous Silica. Journal of Physical Chemistry B, 2002, 106, 5938-5946.	1.2	70
101	Distinguishing Surface versus Buried Cation Sites in Aluminosilicate Mesoporous Materials. Journal of the American Chemical Society, 2002, 124, 4216-4217.	6.6	18
102	A General Correlation for the ^{129}Xe NMR Chemical Shift-Pore Size Relationship in Porous Silica-Based Materials. Langmuir, 2002, 18, 5653-5656.	1.6	119
103	The ^{129}Xe Chemical Shift Tensor in a Silicalite Single Crystal from Hyperpolarized ^{129}Xe NMR Spectroscopy. Journal of the American Chemical Society, 2001, 123, 10399-10400.	6.6	23
104	Alkali Metal Loaded Zeolite LiA: Evidence for Highly Symmetrical Rb- and K-. Journal of the American Chemical Society, 2001, 123, 2891-2892.	6.6	22
105	Sodium-modified $\text{V}_2\text{O}_5/\text{TiO}_2$ catalysts: ^{23}Na and ^{51}V solid-state NMR study. Physical Chemistry Chemical Physics, 2000, 2, 2441-2448.	1.3	17
106	^{129}Xe nuclear magnetic resonance studies of the porous structure of silica gels. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 4239.	1.7	107