Victor V Terskikh

List of Publications by Year in descending order

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106 papers	2,869 citations	147566 31 h-index	214527 47 g-index
117 all docs	117 docs citations	117 times ranked	3225 citing authors

#	Article	IF	Citations
1	A General Correlation for the129Xe NMR Chemical Shiftâ^'Pore Size Relationship in Porous Silica-Based Materials. Langmuir, 2002, 18, 5653-5656.	1.6	119
2	129Xe nuclear magnetic resonance studies of the porous structure of silica gels. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 4239.	1.7	107
3	Methylammonium Cation Dynamics in Methylammonium Lead Halide Perovskites: A Solid-State NMR Perspective. Journal of Physical Chemistry A, 2018, 122, 1560-1573.	1.1	103
4	The Structure of Two Anhydrous Polymorphs of Caffeine from Single-Crystal Diffraction and Ultrahigh-Field Solid-State ¹³C NMR Spectroscopy. Crystal Growth and Design, 2007, 7, 1406-1410.	1.4	91
5	Mechanochemical Synthesis of Methylammonium Lead Mixedâ€"Halide Perovskites: Unraveling the Solid-Solution Behavior Using Solid-State NMR. Chemistry of Materials, 2018, 30, 2309-2321.	3.2	85
6	Wobbling and Hopping: Studying Dynamics of CO₂ Adsorbed in Metalâ€"Organic Frameworks via ¹⁷O Solid-State NMR. Journal of Physical Chemistry Letters, 2014, 5, 3360-3365.	2.1	78
7	Composition-Tunable Formamidinium Lead Mixed Halide Perovskites via Solvent-Free Mechanochemical Synthesis: Decoding the Pb Environments Using Solid-State NMR Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 2671-2677.	2.1	74
8	A129Xe NMR Study of Functionalized Ordered Mesoporous Silica. Journal of Physical Chemistry B, 2002, 106, 5938-5946.	1.2	70
9	Characterization of Znâ€Containing Metalâ€"Organic Frameworks by Solidâ€State ⁶⁷Zn NMR Spectroscopy and Computational Modeling. Chemistry - A European Journal, 2012, 18, 12251-12259.	1.7	66
10	Site Occupation of Ga and Al in Stabilized Cubic Li_{7â€"3(x+y)}Ga_xAl_yLa₃Zr₂O₁₂ Garnets As Deduced from ²⁷Al and ⁷¹Ga MAS NMR at Ultrahigh Magnetic Fields. Chemistry of Materials, 2015, 27, 3135-3142.	3.2	65
11	Application of Solid-State ²⁰⁹Bi NMR to the Structural Characterization of Bismuth-Containing Materials. Journal of the American Chemical Society, 2009, 131, 8271-8279.	6.6	63
12	Water uptake and oil distribution during imbibition of seeds of western white pine (Pinus monticola) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.6	60
13	Identification of Nonequivalent Framework Oxygen Species in Metalâ€"Organic Frameworks by ¹⁷O Solid-State NMR. Journal of Physical Chemistry C, 2013, 117, 16953-16960.	1.5	59
14	Solid-State ¹⁷O NMR of Pharmaceutical Compounds: Salicylic Acid and Aspirin. Journal of Physical Chemistry B, 2013, 117, 9643-9654.	1.2	56
15	Spies Within Metal-Organic Frameworks: Investigating Metal Centers Using Solid-State NMR. Journal of Physical Chemistry C, 2014, 118, 23728-23744.	1.5	56
16	Variable-Temperature ¹⁷O NMR Studies Allow Quantitative Evaluation of Molecular Dynamics in Organic Solids. Journal of the American Chemical Society, 2012, 134, 14609-14617.	6.6	55
17	Cleaving Carboxyls: Understanding Thermally Triggered Hierarchical Pores in the Metalâ€"Organic Framework MIL-121. Journal of the American Chemical Society, 2019, 141, 14257-14271.	6.6	53
18	Theoretical and experimental insights into applicability of solid-state 93Nb NMR in catalysis. Physical Chemistry Chemical Physics, 2013, 15, 5115.	1.3	48

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19	Mapping Out Chemically Similar, Crystallographically Nonequivalent Hydrogen Sites in Metalâ€“Organic Frameworks by ¹H Solid-State NMR Spectroscopy. Chemistry of Materials, 2015, 27, 3306-3316.	3.2	46
20	Resolving Multiple Nonâ€equivalent Metal Sites in Magnesiumâ€Containing Metalâ€“Organic Frameworks by Natural Abundance ²⁵Mg Solidâ€State NMR Spectroscopy. Chemistry - A European Journal, 2013, 19, 4432-4436.	1.7	45
21	²⁵Mg Solid-State NMR: A Sensitive Probe of Adsorbing Guest Molecules on a Metal Center in Metalâ€“Organic Framework CPO-27-Mg. Journal of Physical Chemistry Letters, 2013, 4, 7-11.	2.1	44
22	Solidâ€State ¹⁷O NMR Spectroscopy of Paramagnetic Coordination Compounds. Angewandte Chemie - International Edition, 2015, 54, 4753-4757.	7.2	44
23	Solidâ€State ¹⁷Oâ€…NMR Spectroscopy of Large Proteinâ€“Ligand Complexes. Angewandte Chemie - International Edition, 2010, 49, 8399-8402.	7.2	43
24	Câ€“Sâ€“H/polyaniline nanocomposites prepared by in situ polymerization. Journal of Materials Science, 2011, 46, 460-467.	1.7	42
25	Proton Probability Distribution in the OÂ·Â·Â·HÂ·Â·Â·O Low-Barrier Hydrogen Bond: A Combined Solid-State NMR and Quantum Chemical Computational Study of Dibenzoylmethane and Curcumin. Journal of Physical Chemistry B, 2016, 120, 11692-11704.	1.2	41
26	Solid-state 115In NMR study of indium coordination complexes. Chemical Communications, 2008, , 5933.	2.2	40
27	Solid-State ¹⁷O NMR and Computational Studies of C-Nitrosoarene Compounds. Journal of the American Chemical Society, 2010, 132, 5143-5155.	6.6	39
28	In vivo 13C NMR metabolite profiling: potential for understanding and assessing conifer seed quality. Journal of Experimental Botany, 2005, 56, 2253-2265.	2.4	37
29	Monitoring and Understanding the Paraelectricâ€“Ferroelectric Phase Transition in the Metalâ€“Organic Framework [NH₄][M(HCOO)₃] by Solidâ€State NMR Spectroscopy. Chemistry - A European Journal, 2015, 21, 14348-14361.	1.7	36
30	Deterioration of western redcedar (Thuja plicata 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
31	Structure of NaYF₄ Upconverting Nanoparticles: A Multinuclear Solid-State NMR and DFT Computational Study. Journal of Physical Chemistry C, 2013, 117, 25733-25741.	1.5	32
32	A Multinuclear Solid-State NMR Study of Alkali Metal Ions in Tetraphenylborate Salts, M[BPh₄] (M = Na, K, Rb and Cs): What Is the NMR Signature of Cationâ^Ï€ Interactions?. Journal of Physical Chemistry A, 2008, 112, 10359-10364.	1.1	31
33	A natural abundance³³S solid-state NMR study of layered transition metaldisulfides at ultrahigh magnetic field. Chemical Communications, 2009, , 186-188.	2.2	31
34	Welcoming Gallium- and Indium-Fumarate MOFs to the Family: Synthesis, Comprehensive Characterization, Observation of Porous Hydrophobicity, and CO₂ Dynamics. ACS Applied Materials & Interfaces, 2018, 10, 28582-28596.	4.0	30
35	Experimental and Computational Characterization of the ¹⁷O Quadrupole Coupling and Magnetic Shielding Tensors for p-Nitrobenzaldehyde and Formaldehyde. Journal of Physical Chemistry A, 2008, 112, 1024-1032.	1.1	29
36	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H₂ by Calcium Trimesate. Angewandte Chemie - International Edition, 2020, 59, 16188-16194.	7.2	28

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37	Ultrahigh-Field Solid-State59Co NMR Studies of Co(C2B9H11)2-and Co(C5H5)2+Salts. Journal of the American Chemical Society, 2007, 129, 6704-6705.	6.6	27
38	Germanium-73 NMR of amorphous and crystalline GeO2. Chemical Communications, 2009, , 4660.	2.2	27
39	Capturing Elusive Polymorphs of Curcumin: A Structural Characterization and Computational Study. Crystal Growth and Design, 2018, 18, 5556-5563.	1.4	27
40	New Insights into the Short-Range Structures of Microporous Titanosilicates As Revealed by ^{47/49}Ti, ²³Na, ³⁹K, and ²⁹Si Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 27353-27365.	1.5	25
41	Feasibility of arsenic and antimony NMR spectroscopy in solids: An investigation of some group 15 compounds. Solid State Nuclear Magnetic Resonance, 2014, 61-62, 54-61.	1.5	25
42	The129Xe Chemical Shift Tensor in a Silicalite Single Crystal from Hyperpolarized129Xe NMR Spectroscopy. Journal of the American Chemical Society, 2001, 123, 10399-10400.	6.6	23
43	Ultrahigh-Field NMR Spectroscopy of Quadrupolar Transition Metals:Â55Mn NMR of Several Solid Manganese Carbonyls. Inorganic Chemistry, 2006, 45, 8492-8499.	1.9	23
44	Obtaining accurate chemical shifts for all magnetic nuclei (¹H, ¹³C,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 solid-state NMR case study. Canadian Journal of Chemistry, 2011, 89, 1087-1094.	0.6	23
45	Alkali Metal Loaded Zeolite LiA:Â Evidence for Highly Symmetrical Rb-and K-. Journal of the American Chemical Society, 2001, 123, 2891-2892.	6.6	22
46	Solid State Complex Chemistry: Formation, Structure, and Properties of Homoleptic Tetracyanamidogermanates RbRE[Ge(CN₂)₄] (RE = La, Pr, Nd, Gd). Inorganic Chemistry, 2013, 52, 12372-12382.	1.9	22
47	A¹¹⁵In solid-state NMR study of low oxidation-state indium complexes. Chemical Science, 2014, 5, 982-995.	3.7	22
48	Oxygen-17 NMR spectroscopy of water molecules in solid hydrates. Canadian Journal of Chemistry, 2016, 94, 189-197.	0.6	21
49	¹³C CP MAS NMR of halogenated (Cl, Br, I) pharmaceuticals at ultrahigh magnetic fields. Magnetic Resonance in Chemistry, 2009, 47, 398-406.	1.1	20
50	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.	0.6	20
51	Structural analysis of lanthanum-containing battery materials using ¹³⁹La solid-state NMR. Canadian Journal of Chemistry, 2011, 89, 1105-1117.	0.6	20
52	Loading across the Periodic Table: Introducing 14 Different Metal Ions To Enhance Metalâ€“Organic Framework Performance. ACS Applied Materials & Interfaces, 2018, 10, 30296-30305.	4.0	20
53	Exploring the limits of 73Ge solid-state NMR spectroscopy at ultrahigh magnetic field. Chemical Communications, 2010, 46, 2817.	2.2	19
54	A solid-state¹⁷O NMR study of platinum-carboxylate complexes: carboplatin and oxaliplatin. Canadian Journal of Chemistry, 2015, 93, 945-953.	0.6	19

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55	Solid-State 17O NMR of Unstable Acyl-Enzyme Intermediates: A Direct Probe of Hydrogen Bonding Interactions in the Oxyanion Hole of Serine Proteases. Journal of Physical Chemistry B, 2016, 120, 11142-11150.	1.2	19
56	Distinguishing Surface versus Buried Cation Sites in Aluminosilicate Mesoporous Materials. Journal of the American Chemical Society, 2002, 124, 4216-4217.	6.6	18
57	Tracking the evolution and differences between guest-induced phases of Ga-MIL-53 via ultra-wideline 69/71Ga solid-state NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2017, 84, 118-131.	1.5	18
58	Sodium-modified V2O5â€“TiO2 catalysts: 23Na and 51V solid-state NMR study. Physical Chemistry Chemical Physics, 2000, 2, 2441-2448.	1.3	17
59	Solid-State ⁶³Cu, ⁶⁵Cu, and ³¹P NMR Spectroscopy of Photoluminescent Copper(I) Triazole Phosphine Complexes. Journal of Physical Chemistry A, 2015, 119, 8279-8293.	1.1	16
60	Observation of the Second-Order Quadrupolar Interaction as a Dominating NMR Relaxation Mechanism in Liquids: The Ultraslow Regime of Motion. Journal of Physical Chemistry Letters, 2016, 7, 3412-3418.	2.1	16
61	CO₂ Behavior in a Highly Selective Ultramicroporous Framework: Insights from Single-Crystal X-ray Diffraction and Solid-State Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 17798-17807.	1.5	16
62	Experimental Verification of the Theory of Nuclear Quadrupole Relaxation in Liquids over the Entire Range of Molecular Tumbling Motion. Journal of Physical Chemistry Letters, 2011, 2, 1020-1023.	2.1	15
63	¹¹B MAS NMR and First-Principles Study of the [OBO₃] Pyramids in Borates. Inorganic Chemistry, 2016, 55, 1970-1977.	1.9	15
64	Probing Calciumâ€Based Metalâ€Organic Frameworks via Natural Abundance ⁴³Ca Solidâ€State NMR Spectroscopy. Chemistry - A European Journal, 2018, 24, 8732-8736.	1.7	15
65	Solidâ€State ⁷³Geâ€...NMR Spectroscopy of Simple Organogermanes. Chemistry - A European Journal, 2012, 18, 13770-13779.	1.7	13
66	Solid-State 87Sr NMR Spectroscopy at Natural Abundance and High Magnetic Field Strength. Journal of Physical Chemistry A, 2015, 119, 11847-11861.	1.1	13
67	Solid-State 17O NMR of Oxygenâ€“Nitrogen Singly Bonded Compounds: Hydroxylammonium Chloride and Sodium Trioxodinitrate (Angeliâ€™s Salt). Journal of Physical Chemistry A, 2015, 119, 8133-8138.	1.1	13
68	Solid-state ¹⁷O NMR study of Î±-<scp>d</scp>-glucose: exploring new frontiers in isotopic labeling, sensitivity enhancement, and NMR crystallography. Chemical Science, 2022, 13, 2591-2603.	3.7	13
69	Aluminum environments in synthetic Ca-Tschermak clinopyroxene (CaAlAlSiO6) from Rietveld refinement,27Al NMR, and first-principles calculations. American Mineralogist, 2015, 100, 2219-2230.	0.9	12
70	Solid-State ¹H and ²⁷Al NMR Studies of DMSO-Kaolinite Intercalates. Clays and Clay Minerals, 2017, 65, 206-219.	0.6	12
71	A Quadrupole-Central-Transition ¹⁷O NMR Study of Nicotinamide: Experimental Evidence of Cross-Correlation between Second-Order Quadrupolar Interaction and Magnetic Shielding Anisotropy. Journal of Physical Chemistry B, 2018, 122, 4813-4820.	1.2	12
72	Chlorine-35 Solid-State NMR Spectroscopy as an Indirect Probe of Germanium Oxidation State and Coordination Environment in Germanium Chlorides. Inorganic Chemistry, 2014, 53, 7377-7388.	1.9	11

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73	Ultrahigh-Field 25Mg NMR and DFT Study of Magnesium Borate Minerals. ACS Earth and Space Chemistry, 2017, 1, 299-309.	1.2	11
74	Solid-State ¹⁷O NMR Study of Carboxylic Acid Dimers: Simultaneously Accessing Spectral Properties of Low- and High-Energy Tautomers. Journal of Physical Chemistry A, 2019, 123, 8243-8253.	1.1	11
75	Chlorine-35 Solid-State Nuclear Magnetic Resonance Spectroscopy as an Indirect Probe of the Oxidation Number of Tin in Tin Chlorides. Inorganic Chemistry, 2020, 59, 13651-13670.	1.9	11
76	Probing the Location and Distribution of Paramagnetic Centers in Alkali Metal-Loaded Zeolites through7Li MAS NMR. Journal of the American Chemical Society, 2004, 126, 11350-11359.	6.6	10
77	Solid-State ⁶⁹Ga and ⁷¹Ga NMR Study of the Nanoscale Inorganic Cluster [Ga₁₃(Î¼₃-OH)₆(Î¼₂-OH)₁₈(H₂O)₂₄](Chemistry of Materials, 2014, 26, 4978-4983.	8.2	10
78	Are the amide bonds in N-acyl imidazoles twisted? A combined solid-state 17O NMR, crystallographic, and computational study. Canadian Journal of Chemistry, 2015, 93, 451-458.	0.6	10
79	Effect of Impregnation on the Structure of Niobium Oxide/Alumina Catalysts Studied by Multinuclear Solid-State NMR, FTIR, and Quantum Chemical Calculations. Journal of Physical Chemistry C, 2015, 119, 10400-10411.	1.5	10
80	Metal Halide Perovskite and Perovskite-like Materials through the Lens of Ultra-wideline ^{35/37}Cl NMR Spectroscopy. , 2022, 4, 1255-1263.		10
81	¹³³Cs NMR and ESR Studies of Cesium-Loaded LiX and LiA Zeolites. Journal of Physical Chemistry C, 2008, 112, 17796-17803.	1.5	9
82	Experimental Characterization of the Hydride ¹H Shielding Tensors for HIrX₂(PR₃)₂ and HRhCl₂(PR₃)₂: Extremely Shielded Hydride Protons with Unusually Large Magnetic Shielding Anisotropies. Journal of Physical Chemistry A, 2014, 118, 1203-1212.	1.1	9
83	Exploring Structural Nuances in Germanium Halide Perovskites Using Solid-State ⁷³Ge and ¹³³Cs NMR Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 1687-1696.	2.1	9
84	Assessing distortion of the AF 6 â¯ (A=As, Sb) octahedra in solid hexafluorometallates(V) via NMR spectroscopy. Canadian Journal of Chemistry, 2015, 93, 938-944.	0.6	8
85	Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H 2 by Calcium Trimesate. Angewandte Chemie, 2020, 132, 16322-16328.	1.6	8
86	Pyrolysis of the Cellulose Fraction of Biomass in the Presence of Solid Acid Catalysts: An Operando Spectroscopy and Theoretical Investigation. ChemSusChem, 2018, 11, 4044-4059.	3.6	7
87	A Quadrupoleâ€Centralâ€Transition ⁵⁹Co NMR Study of Cobalamins in Solution. ChemPhysChem, 2019, 20, 268-275.	1.0	7
88	Solid-State 1H, 13C, and 17O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. Crystal Growth and Design, 2020, 20, 7484-7491.	1.4	7
89	In Vivo 1H-NMR Microimaging During Seed Imbibition, Germination, and Early Growth. Methods in Molecular Biology, 2011, 773, 319-327.	0.4	7
90	High field solid state 13C NMR spectroscopy of cucurbituril materials. CrystEngComm, 2014, 16, 3788.	1.3	6

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91	Spinâ€“Spin Coupling between Quadrupolar Nuclei in Solids: ¹¹Bâ€“⁷⁵As Spin Pairs in Lewis Acidâ€“Base Adducts. Journal of Physical Chemistry A, 2015, 119, 6949-6960.	1.1	6
92	¹³C chemical shift tensors in MOF Î±â€Mg₃(HCOO)₆: Which component is more sensitive to hostâ€guest interaction?. Magnetic Resonance in Chemistry, 2020, 58, 1082-1090.	1.1	6
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	Characterisation of Germanium Monohalides by Solid-State NMR Spectroscopy and First Principles Quantum Chemical Calculations. Australian Journal of Chemistry, 2013, 66, 1202.	0.5	5
95	A 11B and 31P MAS NMR study of the impact of Ca2+ and Sr2+ network modifying cations on the structure of borate and borophosphate glasses. Journal of Commonwealth Law and Legal Education, 2018, 59, 174-180.	0.2	5
96	In Vivo Nuclear Magnetic Resonance Metabolite Profiling in Plant Seeds. Methods in Molecular Biology, 2011, 773, 307-318.	0.4	4
97	Expanding the NMR toolkit for biological solids: oxygen-17 enriched Fmoc-amino acids. New Journal of Chemistry, 2021, 45, 12384-12398.	1.4	3
98	A combined solid-state 17O NMR, crystallographic, and computational study of oxiranes. Canadian Journal of Chemistry, 2020, 98, 434-440.	0.6	3
99	Multinuclear solid-state NMR: Unveiling the local structure of defective MOF MIL-120. Solid State Nuclear Magnetic Resonance, 2022, 119, 101793.	1.5	3
100	Random Distribution of EFG Parameters in 27Al MAS NMR Spectra of AlO x /SiO2 Catalysts and Related Systems. Applied Magnetic Resonance, 2016, 47, 1193-1205.	0.6	2
101	Solid-State NMR of Oxide-Based Materials. , 2018, , 1125-1160.		2
102	Perspectives of fast magicâ€angle spinning ⁸⁷Rb NMR of organic solids at high magnetic fields. Magnetic Resonance in Chemistry, 2021, 59, 162-171.	1.1	1
103	Frontispiece: Monitoring and Understanding the Paraelectric-Ferroelectric Phase Transition in the Metal-Organic Framework [NH4][M(HCOO)3] by Solid-State NMR Spectroscopy. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	0
104	Solid-State NMR of Oxide-Based Materials. , 2016, , 1-37.		0
105	Innentitelbild: Ultramicropore Engineering by Dehydration to Enable Molecular Sieving of H₂ by Calcium Trimesate (Angew. Chem. 37/2020). Angewandte Chemie, 2020, 132, 15898-15898.	1.6	0
106	Correction to Solid-State 1H, 13C, and 17O NMR Characterization of the Two Uncommon Polymorphs of Curcumin. Crystal Growth and Design, 2021, 21, 5472-5472.	1.4	0