

Ago Samoson

List of Publications by Year in descending order

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97
papers

6,328
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57719

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docs citations

102
times ranked

3521
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | NMR Assignment of Methyl Groups in Immobilized Proteins Using Multiple-Bond ¹³ C Homonuclear Transfers, Proton Detection, and Very Fast MAS. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 828785. | 1.6 | 5 |
| 2 | Faster magic angle spinning reveals cellulose conformations in woods. <i>Chemical Communications</i> , 2021, 57, 4110-4113. | 2.2 | 15 |
| 3 | Screening of Nutraceuticals and Plant Extracts for Inhibition of Amyloid- β^2 Fibrillation. <i>Journal of Alzheimer's Disease</i> , 2020, 73, 1003-1012. | 1.2 | 5 |
| 4 | Kemenyâ€“Snell Distance in Nuclear Magnetic Resonance Metabolomics. <i>Applied Magnetic Resonance</i> , 2020, 51, 1637-1645. | 0.6 | 0 |
| 5 | Phase Transformations in Porous Materials Studied by In Situ Solid-State NMR Spectroscopy and In Situ X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19136-19145. | 1.5 | 8 |
| 6 | Selectively Enhanced ¹ Hâ€“ ¹ H Correlations in Proton-Detected Solid-State NMR under Ultrafast MAS Conditions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8077-8083. | 2.1 | 33 |
| 7 | Protein NMR Spectroscopy at 150â€“kHz Magicâ€“Angle Spinning Continues To Improve Resolution and Mass Sensitivity. <i>ChemBioChem</i> , 2020, 21, 2540-2548. | 1.3 | 72 |
| 8 | Quantifying proton NMR coherent linewidth in proteins under fast MAS conditions: a second moment approach. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18850-18865. | 1.3 | 33 |
| 9 | H-MAS. <i>Journal of Magnetic Resonance</i> , 2019, 306, 167-172. | 1.2 | 54 |
| 10 | Spinning faster: protein NMR at MAS frequencies up to 126â€“kHz. <i>Journal of Biomolecular NMR</i> , 2019, 73, 19-29. | 1.6 | 101 |
| 11 | The Metabolic Profile of Stable Ischemic Heart Disease by Serum ¹ H NMR. <i>Applied Magnetic Resonance</i> , 2019, 50, 527-539. | 0.6 | 1 |
| 12 | ¹ H line width dependence on MAS speed in solid state NMR â€“ Comparison of experiment and simulation. <i>Journal of Magnetic Resonance</i> , 2018, 291, 32-39. | 1.2 | 80 |
| 13 | Medical Plants and Nutraceuticals for Amyloid- β^2 Fibrillation Inhibition. <i>Journal of Alzheimer's Disease Reports</i> , 2018, 2, 239-252. | 1.2 | 9 |
| 14 | Preparation of fibril nuclei of beta-amyloid peptides in reverse micelles. <i>Chemical Communications</i> , 2018, 54, 10459-10462. | 2.2 | 30 |
| 15 | Characterization of Proteinâ€“Protein Interfaces in Large Complexes by Solid-State NMR Solvent Paramagnetic Relaxation Enhancements. <i>Journal of the American Chemical Society</i> , 2017, 139, 12165-12174. | 6.6 | 35 |
| 16 | High Fraction of Pentaâ€“Coordinated Aluminum and Gallium in Lanthanumâ€“Aluminumâ€“Gallium Borates. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2795-2800. | 1.9 | 11 |
| 17 | ¹ Hâ€“ ¹ H Double Quantum NMR Investigation of Proton Dynamics in Solid Acids. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19961-19969. | 1.5 | 8 |
| 18 | Theoretical description of RESPIRATION-CP. <i>Chemical Physics Letters</i> , 2016, 645, 150-156. | 1.2 | 9 |

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|----|---|-----|-----------|
| 19 | Dehydration of $\text{AlPO}_4\text{-34}$ studied by variable-temperature NMR, XRD and first-principles calculations. <i>New Journal of Chemistry</i> , 2016, 40, 4178-4186. | 1.4 | 24 |
| 20 | Protein resonance assignment at MAS frequencies approaching 100 kHz: a quantitative comparison of J-coupling and dipolar-coupling-based transfer methods. <i>Journal of Biomolecular NMR</i> , 2015, 63, 165-186. | 1.6 | 91 |
| 21 | Solid-State NMR of a Protein in a Precipitated Complex with a Full-Length Antibody. <i>Journal of the American Chemical Society</i> , 2014, 136, 16800-16806. | 6.6 | 73 |
| 22 | Correlations between lithium local structure and electrochemistry of layered $\text{LiCo}_{1-x}\text{Ni}_x\text{Mn}_x\text{O}_2$ oxides: ^7Li MAS NMR and EPR studies. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2499-2507. | 1.3 | 21 |
| 23 | Characterising local environments in high energy density Li-ion battery cathodes: a combined NMR and first principles study of $\text{LiFe}_x\text{Co}_{1-x}\text{PO}_4$. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11948-11957. | 5.2 | 50 |
| 24 | De Novo 3D Structure Determination from Sub-milligram Protein Samples by Solid-State 100 kHz MAS NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12253-12256. | 7.2 | 294 |
| 25 | Amplitude-modulated low-power decoupling sequences for fast magic-angle spinning NMR. <i>Chemical Physics Letters</i> , 2013, 583, 1-7. | 1.2 | 39 |
| 26 | Boron environments in Pyrex® glass: a high resolution, Double-Rotation NMR and thermodynamic modelling study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11919. | 1.3 | 29 |
| 27 | Longer-range distances by spinning-angle-encoding solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4514. | 1.3 | 17 |
| 28 | Ultra-high resolution ^{17}O solid-state NMR spectroscopy of biomolecules: A comprehensive spectral analysis of monosodium L-glutamate monohydrate. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12213. | 1.3 | 30 |
| 29 | Spin Diffusion Driven by R-Symmetry Sequences: Applications to Homonuclear Correlation Spectroscopy in MAS NMR of Biological and Organic Solids. <i>Journal of the American Chemical Society</i> , 2011, 133, 3943-3953. | 6.6 | 58 |
| 30 | Insight into the Local Magnetic Environments and Deuteron Mobility in Jarosite ($\text{AFe}_3(\text{SO}_4)_2(\text{OH})_6$, A = K, Na), <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> | 3.2 | 23 |
| 31 | $((\text{D}_3\text{O})\text{Al}_3(\text{SO}_4)_2(\text{OH})_6)$, from Variable-Temperature ^2H MAS NMR Spectroscopy. <i>Chemistry of Materials</i> , 2011, 23, 3176-3187. | | |
| 31 | ^{17}O DOR and other solid-state NMR studies concerning the basic properties of zeolites LSX. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 35, 87-92. | 1.5 | 17 |
| 32 | Nanomole-scale protein solid-state NMR by breaking intrinsic ^1H T_1 boundaries. <i>Nature Methods</i> , 2009, 6, 215-218. | 9.0 | 190 |
| 33 | Separation of isotropic chemical and second-order quadrupolar shifts by multiple-quantum double rotation NMR. <i>Journal of Magnetic Resonance</i> , 2009, 197, 229-236. | 1.2 | 21 |
| 34 | Determination of the bond-angle distribution in vitreous B_2O_3 by ^{11}B double rotation (DOR) NMR spectroscopy. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2402-2408. | 1.4 | 41 |
| 35 | High-resolution ^{17}O double-rotation NMR characterization of ring and non-ring oxygen in vitreous B_2O_3 . <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7061. | 1.3 | 16 |
| 36 | Simultaneous adiabatic spin-locking cross polarization in solid-state NMR of paramagnetic complexes. <i>Chemical Physics Letters</i> , 2008, 460, 531-535. | 1.2 | 17 |

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|----|---|-----|-----------|
| 37 | Quantifying Weak Hydrogen Bonding in Uracil and 4-Cyano-4-ethynylbiphenyl: A Combined Computational and Experimental Investigation of NMR Chemical Shifts in the Solid State. <i>Journal of the American Chemical Society</i> , 2008, 130, 945-954. | 6.6 | 112 |
| 38 | Investigation of Biomasses and Chars Obtained from Pyrolysis of Different Biomasses with Solid-State ^{13}C and ^{23}Na Nuclear Magnetic Resonance Spectroscopy. <i>Energy & Fuels</i> , 2008, 22, 3523-3530. | 2.5 | 26 |
| 39 | Symmetry-based recoupling in double-rotation NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 129, 174507. | 1.2 | 27 |
| 40 | Solid-state NMR of endohedral hydrogen fullerene complexes. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4879. | 1.3 | 69 |
| 41 | The determination of ^{17}O NMR parameters of hydroxyl oxygen: A combined deuteration and DOR approach. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S68-S72. | 1.1 | 15 |
| 42 | Low-load rotor-synchronised Hahn-echo pulse train (RS-HEPT) ^1H decoupling in solid-state NMR: factors affecting MAS spin-echo dephasing times. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, S198-S208. | 1.1 | 18 |
| 43 | Sensitivity enhancement in ^{13}C solid-state NMR of protein microcrystals by use of paramagnetic metal ions for optimizing ^1H T_1 relaxation. <i>Journal of Magnetic Resonance</i> , 2007, 184, 350-356. | 1.2 | 118 |
| 44 | Unraveling the Complex Hydrogen Bonding of a Dual-Functionality Proton Conductor Using Ultrafast Magic Angle Spinning NMR. <i>Chemistry of Materials</i> , 2006, 18, 4747-4754. | 3.2 | 35 |
| 45 | Cryogenic NMR spectroscopy of endohedral hydrogen fullerene complexes. <i>Journal of Chemical Physics</i> , 2006, 124, 104507. | 1.2 | 51 |
| 46 | Experimental and Theoretical ^{17}O NMR Study of the Influence of Hydrogen-Bonding on CO and O-H Oxygens in Carboxylic Solids. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1824-1835. | 1.1 | 82 |
| 47 | New Limits for Solid-State ^{17}O NMR Spectroscopy: A Complete Resolution of Multiple Oxygen Sites in a Simple Biomolecule. <i>Journal of the American Chemical Society</i> , 2006, 128, 7744-7745. | 6.6 | 31 |
| 48 | Enhancing resolution and sensitivity of ^{17}O solid-state NMR through combining double rotation, ^1H decoupling and satellite modulation for biomolecular applications. <i>Chemical Physics Letters</i> , 2006, 421, 42-46. | 1.2 | 27 |
| 49 | ^{27}Al double rotation two-dimensional spin diffusion NMR: Complete unambiguous assignment of aluminium sites in $9\text{Al}_2\text{O}_3 \cdot 2\text{B}_2\text{O}_3$. <i>Chemical Physics Letters</i> , 2006, 432, 152-156. | 1.2 | 26 |
| 50 | New opportunities for double rotation NMR of half-integer quadrupolar nuclei. <i>Journal of Magnetic Resonance</i> , 2006, 178, 212-219. | 1.2 | 45 |
| 51 | New Horizons for Magic-Angle Spinning NMR. <i>Topics in Current Chemistry</i> , 2005, 246, 15-31. | 4.0 | 114 |
| 52 | ^6Li NMR Studies of Cation Disorder and Transition Metal Ordering in $\text{Li}[\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}]\text{O}_2$ Using Ultrafast Magic Angle Spinning. <i>Chemistry of Materials</i> , 2005, 17, 6560-6566. | 3.2 | 95 |
| 53 | Decoupling and recoupling using continuous-wave irradiation in magic-angle-spinning solid-state NMR: A unified description using bimodal Floquet theory. <i>Journal of Chemical Physics</i> , 2005, 123, 064102. | 1.2 | 69 |
| 54 | Comparison of the ^{17}O NMR spectra of zeolites LTA and LSX. <i>Solid State Nuclear Magnetic Resonance</i> , 2004, 26, 153-159. | 1.5 | 26 |

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|----|---|-----|-----------|
| 55 | Physico-chemical and catalytic properties of Zr- and Cu ²⁺ -Zr ion-exchanged H-MCM-41. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4062-4069. | 1.3 | 12 |
| 56 | Low-Power High-Resolution Solid-State NMR of Peptides and Proteins. <i>Journal of the American Chemical Society</i> , 2004, 126, 4764-4765. | 6.6 | 90 |
| 57 | Solid-State ¹⁷ O NMR of Amino Acids. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9256-9263. | 1.2 | 81 |
| 58 | Solid-State NMR Spectroscopy of Molecular Hydrogen Trapped Inside an Open-Cage Fullerene. <i>Journal of the American Chemical Society</i> , 2004, 126, 4092-4093. | 6.6 | 64 |
| 59 | ¹ H MAS and ¹ H / ³¹ P CP/MAS NMR Study of Human Bone Mineral. <i>Calcified Tissue International</i> , 2003, 73, 476-486. | 1.5 | 110 |
| 60 | New insights into the bonding arrangements of l- and d-glutamates from solid state ¹⁷ O NMR. <i>Chemical Physics Letters</i> , 2003, 371, 91-97. | 1.2 | 41 |
| 61 | Low-power XiX decoupling in MAS NMR experiments. <i>Journal of Magnetic Resonance</i> , 2003, 163, 332-339. | 1.2 | 111 |
| 62 | Seeking Higher Resolution and Sensitivity for NMR of Quadrupolar Nuclei at Ultrahigh Magnetic Fields. <i>Journal of the American Chemical Society</i> , 2002, 124, 5634-5635. | 6.6 | 108 |
| 63 | Rotation sweep NMR. <i>Chemical Physics Letters</i> , 2002, 365, 292-299. | 1.2 | 19 |
| 64 | Structural aspects of mullite-type NaAl ₉ O ₁₄ studied by ²⁷ Al and ²³ Na solid-state MAS and DOR NMR techniques. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2137-2142. | 1.3 | 16 |
| 65 | High-Field High-Speed MAS Resolution Enhancement in ¹ H NMR Spectroscopy of Solids. <i>Solid State Nuclear Magnetic Resonance</i> , 2001, 20, 130-136. | 1.5 | 159 |
| 66 | Low-power decoupling in fast magic-angle spinning NMR. <i>Chemical Physics Letters</i> , 2001, 348, 293-302. | 1.2 | 113 |
| 67 | Synchronized double rotation 2D NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2000, 15, 217-225. | 1.5 | 15 |
| 68 | ¹⁹ F/ ²³ Na Double Resonance MAS NMR Study of Oxygen/Fluorine Ordering in the Oxyfluoride Na ₅ W ₃ O ₉ F ₅ . <i>Chemistry of Materials</i> , 2000, 12, 3611-3616. | 3.2 | 52 |
| 69 | A High-Resolution ¹⁷ O and ²⁹ Si NMR Study of Zeolite Siliceous Ferrierite and ab Initio Calculations of NMR Parameters. <i>Journal of the American Chemical Society</i> , 2000, 122, 4948-4958. | 6.6 | 129 |
| 70 | Strategies for extracting NMR parameters from MAS, DOR and MQMAS spectra. A case study for Na ₄ P ₂ O ₇ . <i>Solid State Nuclear Magnetic Resonance</i> , 1999, 15, 171-180. | 1.5 | 58 |
| 71 | ULM-18, a Fluorinated Gallium Phosphate with Perforated Layers: XRD and NMR, Structure Determination, and HF Localization in a D ₄ R. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8588-8598. | 1.2 | 52 |
| 72 | Multiquantum NMR of quadrupole nuclei with strong pulses. <i>Chemical Physics Letters</i> , 1995, 247, 203-206. | 1.2 | 10 |

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|----|---|-----|-----------|
| 73 | Optimizing magic-angle spinning sideband suppression. Solid State Nuclear Magnetic Resonance, 1995, 4, 53-58. | 1.5 | 1 |
| 74 | Suppression of DOR Sidebands. Journal of Magnetic Resonance Series A, 1994, 110, 238-244. | 1.6 | 22 |
| 75 | Introduction to DOR NMR. , 1994, , 525-546. | | 1 |
| 76 | Approximate approach to DOR sideband suppression. Chemical Physics Letters, 1993, 214, 456-458. | 1.2 | 14 |
| 77 | Chemical shift anisotropy of ^{27}Al in $\text{AlPO}_4\text{-21}$. Applied Magnetic Resonance, 1993, 4, 171-178. | 0.6 | 16 |
| 78 | Double rotation and variable field ^{27}Al n.m.r. study of dealuminated Y zeolites. Zeolites, 1993, 13, 410-413. | 0.9 | 76 |
| 79 | ^{27}Al and ^{23}Na double-rotation NMR of sodalites. Solid State Nuclear Magnetic Resonance, 1992, 1, 127-135. | 1.5 | 42 |
| 80 | Sidebands in dynamic angle spinning (DAS) and double rotation (DOR) NMR. Solid State Nuclear Magnetic Resonance, 1992, 1, 267-295. | 1.5 | 46 |
| 81 | Double rotor for solid-state NMR. Review of Scientific Instruments, 1989, 60, 3239-3241. | 0.6 | 71 |
| 82 | Synchronized double-rotation NMR spectroscopy. Journal of Magnetic Resonance, 1989, 84, 410-416. | 0.5 | 28 |
| 83 | Dehydration of the surface of pyrogenic silica by ^1H nuclear magnetic resonance. Theoretical and Experimental Chemistry, 1988, 24, 231-234. | 0.2 | 2 |
| 84 | High resolution solid-state N.M.R.. Molecular Physics, 1988, 65, 1013-1018. | 0.8 | 541 |
| 85 | 500 MHz ^1H -MAS n.m.r. studies of dealuminated HZSM-5 zeolites. Zeolites, 1987, 7, 289-292. | 0.9 | 50 |
| 86 | Quantitative high-resolution ^{27}Al NMR: tetrahedral non-framework aluminium in hydrothermally treated zeolites. Chemical Physics Letters, 1987, 134, 589-592. | 1.2 | 217 |
| 87 | Solid-state aluminium-27 nuclear magnetic resonance chemical shift and quadrupole coupling data for condensed AlO_4 tetrahedra. Journal of the Chemical Society Dalton Transactions, 1986, , 1277-1281. | 1.1 | 86 |
| 88 | Solid-state ^{27}Al NMR studies on polycrystalline aluminates of the system $\text{CaO-Al}_2\text{O}_3$. Polyhedron, 1986, 5, 779-785. | 1.0 | 76 |
| 89 | Satellite transition high-resolution NMR of quadrupolar nuclei in powders. Chemical Physics Letters, 1985, 119, 29-32. | 1.2 | 270 |
| 90 | Bestimmung der mittleren Si-O-Si -Bindungswinkel in dealuminiertem ZSM-5- $^{\text{Zeolith}}$ (Silicalit) aus den hochaufgelösten ^{29}Si -MAS-NMR-Spektren. Zeitschrift für Chemie, 1985, 25, 252-253. | 0.0 | 10 |

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| 91 | Central transition NMR excitation spectra of half-integer quadrupole nuclei. Chemical Physics Letters, 1983, 100, 205-208. | 1.2 | 151 |
| 92 | Excitation phenomena and line intensities in high-resolution NMR powder spectra of half-integer quadrupolar nuclei. Physical Review B, 1983, 28, 6567-6570. | 1.1 | 269 |
| 93 | High resolution ²⁹ Si NMR study of the structure and devitrification of lead-silicate glasses. Journal of Non-Crystalline Solids, 1982, 50, 215-218. | 1.5 | 32 |
| 94 | High resolution ²⁹ Si n.m.r. of dealuminated and ultrastable Y-zeolites. Zeolites, 1982, 2, 59-62. | 0.9 | 166 |
| 95 | High-resolution NMR of quadrupolar nuclei in rotating solids. Chemical Physics Letters, 1981, 83, 229-232. | 1.2 | 207 |
| 96 | Structure investigations of solid organosilicon polymers by high resolution solid state ²⁹ Si NMR. Journal of Organometallic Chemistry, 1981, 210, 295-301. | 0.8 | 87 |
| 97 | Solid state heteronuclear multiple quantum spectroscopy under a magic angle spinning frequency of 150 kHz. Journal of the Chinese Chemical Society, 0, , . | 0.8 | 1 |