

Jukka Jokisaari

List of Publications by Year in descending order

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55
papers

1,310
citations

394421

19
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361022

35
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59
all docs

59
docs citations

59
times ranked

976
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Spin-spin coupling tensors as determined by experiment and computational chemistry. Progress in Nuclear Magnetic Resonance Spectroscopy, 2002, 41, 233-304. | 7.5 | 169 |
| 2 | NMR of noble gases dissolved in isotropic and anisotropic liquids. Progress in Nuclear Magnetic Resonance Spectroscopy, 1994, 26, 1-26. | 7.5 | 111 |
| 3 | Quadratic response calculations of the electronic spin-orbit contribution to nuclear shielding tensors. Journal of Chemical Physics, 1998, 109, 1212-1222. | 3.0 | 97 |
| 4 | Moisture in softwoods: fiber saturation point, hydroxyl site content, and the amount of micropores as determined from NMR relaxation time distributions. Holzforschung, 2013, 67, 291-300. | 1.9 | 91 |
| 5 | Effects of Thermal Convection on NMR and Their Elimination by Sample Rotation. Journal of Magnetic Resonance Series A, 1996, 118, 50-54. | 1.6 | 65 |
| 6 | Solute molecular structure determination by N.M.R.. Molecular Physics, 1983, 50, 1013-1023. | 1.7 | 57 |
| 7 | Carbon and proton shielding tensors in methyl halides. Physical Chemistry Chemical Physics, 2010, 12, 2679. | 2.8 | 52 |
| 8 | The r [∞] -structure of thiophene in various liquid crystals with ¹³ C-methane as an internal reference. Molecular Physics, 1984, 51, 779-791. | 1.7 | 40 |
| 9 | Dipole-Dipole Coupling Constant for a Directly Bonded CH Pair-A Carbon-13 Relaxation Study. Journal of Magnetic Resonance, 2002, 157, 171-177. | 2.1 | 35 |
| 10 | Temperature dependence of nuclear shielding and quadrupolar coupling of noble gases in liquid crystals. Journal of Chemical Physics, 1992, 97, 8977-8985. | 3.0 | 33 |
| 11 | Determination of Pore Sizes and Volumes of Porous Materials by ¹²⁹ Xe NMR of Xenon Gas Dissolved in a Medium. Journal of Physical Chemistry B, 2005, 109, 24343-24351. | 2.6 | 33 |
| 12 | Proton, carbon-13 and mercury-199 N.M.R. studies on dimethyl mercury in isotropic and anisotropic phases. Molecular Physics, 1978, 36, 113-123. | 1.7 | 32 |
| 13 | Behavior of Acetonitrile Confined to Mesoporous Silica Gels As Studied by ¹²⁹ Xe NMR: A Novel Method for Determining the Pore Sizes. Journal of Physical Chemistry B, 2005, 109, 757-763. | 2.6 | 30 |
| 14 | Nuclear magnetic shielding of noble gases in liquid crystals. Journal of Chemical Physics, 1999, 110, 6381-6388. | 3.0 | 28 |
| 15 | Spin-Spin Coupling Tensors in Fluoromethanes. Chemistry - A European Journal, 2000, 6, 1395-1406. | 3.3 | 25 |
| 16 | Xe ¹²⁹ adsorbed in AlPO ₄ -11 molecular sieve: Molecular dynamics simulation of adsorbate dynamics and NMR chemical shift. Journal of Chemical Physics, 1997, 107, 6470-6478. | 3.0 | 23 |
| 17 | Fringe field NMR diffusometry of anomalous self-diffusion in molecular sieves. Physical Review E, 1998, 57, 6844-6850. | 2.1 | 23 |
| 18 | Xenon porometry at room temperature. Journal of Chemical Physics, 2006, 124, 034711. | 3.0 | 22 |

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|----|--|-----|-----------|
| 19 | ^{13}C spin-spin coupling constants and ^{13}C isotope effects on ^{13}C chemical shifts in some 4-membered rings. <i>Magnetic Resonance in Chemistry</i> , 1978, 11, 157-159. | 0.7 | 21 |
| 20 | Quantification of metabolites from single-voxel in vivo ^1H NMR data of normal human brain by means of time-domain data analysis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1995, 3, 129-136. | 2.0 | 20 |
| 21 | Clathrate Structure Determination by Combining Crystal Structure Prediction with Computational and Experimental ^{129}Xe NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2017, 23, 5258-5269. | 3.3 | 18 |
| 22 | ^{13}C NMR spectroscopy of methane adsorbed in SAPO-11 molecular sieve. <i>Chemical Physics Letters</i> , 1996, 261, 425-430. | 2.6 | 17 |
| 23 | ^{129}Xe diffusion in a ferroelectric liquid crystal. <i>Molecular Physics</i> , 2001, 99, 711-719. | 1.7 | 17 |
| 24 | Effect of Thermal Modification on Wood Cell Structures Observed by Pulsed-Field-Gradient Stimulated-Echo NMR. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18693-18697. | 3.1 | 17 |
| 25 | A special method for analyzing anisotropic nuclear magnetic resonance parameters: Acetonitrile in liquid crystals. <i>Journal of Chemical Physics</i> , 1990, 93, 8514-8523. | 3.0 | 16 |
| 26 | ^{13}C - ^{77}Se and ^{77}Se - ^{77}Se spin-spin coupling tensors in carbon diselenide: NMR experiments and ZORA DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4551-4555. | 2.8 | 16 |
| 27 | Correlation of ^{129}Xe NMR shielding data with the pore structures of various aluminophosphate molecular sieves. <i>Microporous and Mesoporous Materials</i> , 2004, 67, 113-122. | 4.4 | 16 |
| 28 | 2D ^{129}Xe EXSY of xenon atoms in a thermotropic liquid crystal confined to a controlled-pore glass. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4902. | 2.8 | 14 |
| 29 | Nuclear spin-spin coupling in a van der Waals-bonded system: Xenon dimer. <i>Journal of Chemical Physics</i> , 2013, 138, 104313. | 3.0 | 13 |
| 30 | Experimental and Theoretical Study of the Spin-Spin Coupling Tensors in Methylsilane. <i>Journal of Physical Chemistry A</i> , 1999, 103, 9669-9677. | 2.5 | 11 |
| 31 | Influence of diffusion on pore size distributions determined by xenon porometry. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2072. | 2.8 | 11 |
| 32 | Microporous channel and crystallite surface effects on xenon atoms as studied by NMR: shielding and exchange of xenon in SAPO-11 and AlPO ₄ -11 molecular sieves. <i>Microporous and Mesoporous Materials</i> , 2001, 46, 99-110. | 4.4 | 10 |
| 33 | Determination of sample temperature and temperature stability with ^{129}Xe NMR. <i>Journal of Magnetic Resonance</i> , 2006, 180, 58-62. | 2.1 | 10 |
| 34 | Xenon porometry: a novel method for the derivation of pore size distributions. <i>Magnetic Resonance Imaging</i> , 2007, 25, 457-460. | 1.8 | 10 |
| 35 | Solute molecular structure determination by NMR: Furan in liquid crystal mixtures. <i>Magnetic Resonance in Chemistry</i> , 1985, 23, 725-727. | 1.9 | 8 |
| 36 | NMR of Noble Gases Dissolved in Liquid Crystals. , 2003, , 109-135. | | 7 |

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|----|--|-----|-----------|
| 37 | An alternative NMR method to determine nuclear shielding anisotropies for molecules in liquid-crystalline solutions with ^{13}C shielding anisotropy of methyl iodide as an example. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1681. | 2.8 | 7 |
| 38 | INDO- and CNDO-Approximated Molecular Orbital Calculations on the Spin-Spin Coupling Constants in Some 2-Substituted Oxetanes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1974, 29, 1907-1913. | 1.5 | 6 |
| 39 | Nuclear spin-spin coupling anisotropy in the van der Waals-bonded ^{129}Xe dimer. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11427. | 2.8 | 6 |
| 40 | The ^1H NMR spectrum of pyrazole in a nematic phase. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 637-640. | 1.9 | 6 |
| 41 | Studies on the PMR Spectra of Oxetanes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1970, 25, 1655-1658. | 1.5 | 5 |
| 42 | Studies on the PMR Spectra of Oxetanes. III. 2-Methyloxetane. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1971, 26, 136-140. | 1.5 | 5 |
| 43 | Xenon NMR of phase biaxiality in liquid crystals. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 556-559. | 1.9 | 5 |
| 44 | ^{13}C NMR Spectra of Trimethylene Oxide and Sulphide. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1978, 33, 7-10. | 1.5 | 5 |
| 45 | Conformational analysis. XIII. A 300 MHz ^1H NMR study of 2-methyl-, 2-phenyl-, 2-(2-chlorophenyl)- and 2-(4-chlorophenyl)-oxetanes. <i>Magnetic Resonance in Chemistry</i> , 1975, 7, 286-290. | 0.7 | 4 |
| 46 | Direct magnetic-field dependence of NMR chemical shift. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8485-8490. | 2.8 | 4 |
| 47 | Temperature and Solvent Dependence of ^{13}C - ^1H Spin-Spin Coupling Constant J_{CH} in Ethyl Formate. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1968, 23, 2094-2097. | 1.5 | 3 |
| 48 | Studies on the PMR Spectra of Oxetanes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1971, 26, 973-978. | 1.5 | 3 |
| 49 | Studies on the PMR Spectra of Oxetanes. VI 2-(3-Chlorophenyl)oxetane and 2-(2-Chlorophenyl)oxetane at 60 and 100 MHz. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1974, 29, 1902-1906. | 1.5 | 2 |
| 50 | Carbon-13 NOESY and equivalent protons: Methyl iodide dynamics. <i>Journal of Magnetic Resonance</i> , 2010, 204, 239-247. | 2.1 | 2 |
| 51 | ^{21}Ne and ^{131}Xe NMR study of electric field gradients and multinuclear NMR study of the composition of a ferroelectric liquid crystal. <i>Journal of Chemical Physics</i> , 2018, 149, 234901. | 3.0 | 2 |
| 52 | A special method of deformational correction in N.M.R. of molecules dissolved in liquid crystals. <i>Liquid Crystals</i> , 1988, 3, 731-736. | 2.2 | 1 |
| 53 | NMR of quadrupole noble gases in liquid crystals. <i>Liquid Crystals</i> , 2020, 47, 1955-1964. | 2.2 | 1 |
| 54 | Noble Gas Probes in NMR Studies of Liquid Crystals. , 2009, , 79-116. | | 1 |

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|----|--|-----|-----------|
| 55 | Studies on the PMR Spectra of Oxetanes . V. 2-(3,4-Dichlorophenyl)oxetane and 2-(2,4-Dichlorophenyl)oxetane. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1973, 28, 30-34. | 1.5 | 1 |