

# Ville-Veikko Telkki

## List of Publications by Year in descending order

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80  
papers

2,055  
citations

257450

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302126

39  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1743  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperpolarised NMR to aid molecular profiling of electronic cigarette aerosols. RSC Advances, 2022, 12, 1479-1485.	3.6	3
2	Parahydrogen-Induced Polarization in Hydrogenation Reactions Mediated by a Metal-Free Catalyst. Chemistry - A European Journal, 2022, 28, .	3.3	13
3	Diffusion measurements of hydrocarbons in H-MCM-41 extrudates with pulsed-field gradient nuclear magnetic resonance spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 8269-8278.	2.8	3
4	Hyper-CEST NMR of metal organic polyhedral cages reveals hidden diastereomers with diverse guest exchange kinetics. Nature Communications, 2022, 13, 1708.	12.8	20
5	Local structures of rare earth phosphate minerals by NMR. Journal of Solid State Chemistry, 2022, 311, 123097.	2.9	2
6	<sup>129</sup> Xe NMR analysis reveals efficient gas transport between inborn micro-, meso- and macropores in geopolymers. Cement and Concrete Research, 2022, 155, 106779.	11.0	2
7	Sensitive, Efficient and Portable Analysis of Molecular Exchange Processes by Hyperpolarized Ultrafast NMR. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
8	High-purity lignin fractions and nanospheres rich in phenolic hydroxyl and carboxyl groups isolated with alkaline deep eutectic solvent from wheat straw. Bioresource Technology, 2022, 360, 127570.	9.6	15
9	Identification of extracellular nanoparticle subsets by nuclear magnetic resonance. Chemical Science, 2021, 12, 8311-8319.	7.4	8
10	Curing process and pore structure of metakaolin-based geopolymers: Liquid-state <sup>1</sup> H NMR investigation. Cement and Concrete Research, 2021, 143, 106394.	11.0	31
11	High-Resolution Reconstruction for Multidimensional Laplace NMR. Journal of Physical Chemistry Letters, 2021, 12, 5085-5090.	4.6	15
12	Testing 1D and 2D single-sided NMR on Roman age waterlogged woods. Journal of Cultural Heritage, 2021, 50, 95-105.	3.3	12
13	Seaweed-Derived Alginate-Cellulose Nanofiber Aerogel for Insulation Applications. ACS Applied Materials & Interfaces, 2021, 13, 34899-34909.	8.0	37
14	Ultrafast methods for relaxation and diffusion. Progress in Nuclear Magnetic Resonance Spectroscopy, 2021, 126-127, 101-120.	7.5	23
15	Evidence of formation of an amorphous magnesium silicate (AMS) phase during alkali activation of (Na-Mg) aluminosilicate glasses. Cement and Concrete Research, 2021, 145, 106464.	11.0	15
16	High strength one-part alkali-activated slag blends designed by particle packing optimization. Construction and Building Materials, 2021, 299, 124004.	7.2	37
17	Ultrafast Laplace NMR to study metal-ligand interactions in reversible polarisation transfer from parahydrogen. Physical Chemistry Chemical Physics, 2021, 23, 16542-16550.	2.8	8
18	Effect of Process Variables on the Solvolysis Depolymerization of Pine Kraft Lignin. Waste and Biomass Valorization, 2020, 11, 3195-3206.	3.4	9

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19	Influence of sodium silicate powder silica modulus for mechanical and chemical properties of dry-mix alkali-activated slag mortar. <i>Construction and Building Materials</i> , 2020, 233, 117354.	7.2	73
20	Comparison of Lignin Fractions Isolated from Wheat Straw Using Alkaline and Acidic Deep Eutectic Solvents. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 15074-15084.	5.2	36
21	Accelerating Restricted Diffusion NMR Studies with Time-Resolved and Ultrafast Methods. <i>Analytical Chemistry</i> , 2020, 92, 9948-9955.	6.5	10
22	Effect of natural weathering on water absorption and pore size distribution in thermally modified wood determined by nuclear magnetic resonance. <i>Cellulose</i> , 2020, 27, 4235-4247.	4.9	27
23	Ultrafast diffusion exchange nuclear magnetic resonance. <i>Nature Communications</i> , 2020, 11, 3251.	12.8	27
24	Recycling mica and carbonate-rich mine tailings in alkali-activated composites: A synergy with metakaolin. <i>Minerals Engineering</i> , 2020, 157, 106535.	4.3	26
25	Characterization of the decay process of Scots pine caused by <i>Coniophora puteana</i> using NMR and MRI. <i>Holzforschung</i> , 2020, 74, 1021-1032.	1.9	19
26	Ettringite-based binder from ladle slag and gypsum – The effect of citric acid on fresh and hardened state properties. <i>Cement and Concrete Research</i> , 2019, 123, 105800.	11.0	38
27	Nonlinear sampling in ultrafast Laplace NMR. <i>Journal of Magnetic Resonance</i> , 2019, 307, 106571.	2.1	11
28	Ultrafast NMR diffusion and relaxation studies. <i>Annual Reports on NMR Spectroscopy</i> , 2019, , 83-119.	1.5	13
29	High-throughput continuous-flow system for SABRE hyperpolarization. <i>Journal of Magnetic Resonance</i> , 2019, 300, 8-17.	2.1	25
30	Determination of pore structures and dynamics of fluids in hydrated cements and natural shales by various $^1\text{H}$ and $^{129}\text{Xe}$ NMR methods. <i>Microporous and Mesoporous Materials</i> , 2019, 281, 66-74.	4.4	24
31	Comprehensive NMR Analysis of Pore Structures in Superabsorbing Cellulose Nanofiber Aerogels. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30986-30995.	3.1	19
32	NMR relaxation and modelling study of the dynamics of SF <sub>6</sub> and Xe in porous organic cages. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24373-24382.	2.8	12
33	Hyperpolarized $^1\text{L}$ NMR. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 619-632.	1.9	25
34	Spontaneous $^{15}\text{N}$ Nuclear Spin Hyperpolarization in Metal-Free Activation of Parahydrogen by Molecular Tweezers. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 903-907.	4.6	14
35	Ultrafast Laplace NMR with hyperpolarized xenon gas. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 75-78.	4.4	16
36	Quantifying the adsorption of flowing gas mixtures in porous materials by remote detection NMR. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 148-151.	4.4	3

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37	Ladle slag cement " Characterization of hydration and conversion. Construction and Building Materials, 2018, 193, 128-134.	7.2	36
38	Probing molecular dynamics with hyperpolarized ultrafast Laplace NMR using a low-field, single-sided magnet. Chemical Science, 2018, 9, 6143-6149.	7.4	19
39	Identification of Intracellular and Extracellular Metabolites in Cancer Cells Using <sup>13</sup> C Hyperpolarized Ultrafast Laplace NMR. Analytical Chemistry, 2018, 90, 11131-11137.	6.5	28
40	NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, 724-724.	3.3	1
41	Frontispiece: NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, .	3.3	2
42	Characterization of pore structures of hydrated cements and natural shales by 129 Xe NMR spectroscopy. Microporous and Mesoporous Materials, 2017, 253, 49-54.	4.4	15
43	Inside information on xenon adsorption in porous organic cages by NMR. Chemical Science, 2017, 8, 5721-5727.	7.4	37
44	Structure and dynamics elucidation of ionic liquids using multidimensional Laplace NMR. Chemical Communications, 2017, 53, 11056-11059.	4.1	19
45	Efficient Catalytic Microreactors with Atomic Layer Deposited Platinum Nanoparticles on Oxide Support. Chemistry - A European Journal, 2017, 23, 16835-16842.	3.3	8
46	Ultrafast NMR diffusion measurements exploiting chirp spin echoes. Magnetic Resonance in Chemistry, 2017, 55, 341-347.	1.9	17
47	NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, 725-751.	3.3	140
48	Structure Elucidation of an Yttrium Diethyldithiocarbamate-Phenanthroline Complex by X-ray Crystallography, Solid-State NMR, and ab-initio Quantum Chemical Calculations. European Journal of Inorganic Chemistry, 2016, 2016, 3278-3291.	2.0	7
49	Ultrafast Multidimensional Laplace NMR Using a Single-Sided Magnet. Angewandte Chemie - International Edition, 2016, 55, 5040-5043.	13.8	32
50	Ultrafast Multidimensional Laplace NMR Using a Single-Sided Magnet. Angewandte Chemie, 2016, 128, 5124-5127.	2.0	9
51	DFT calculations in the assignment of solid-state NMR and crystal structure elucidation of a lanthanum( <sup>iii</sup> ) complex with dithiocarbamate and phenanthroline. Dalton Transactions, 2016, 45, 19473-19484.	3.3	15
52	Nuclear spin hyperpolarization with ansa-aminoboranes: a metal-free perspective for parahydrogen-induced polarization. Physical Chemistry Chemical Physics, 2016, 18, 27784-27795.	2.8	34
53	Cholesterol under oxidative stress" How lipid membranes sense oxidation as cholesterol is being replaced by oxysterols. Free Radical Biology and Medicine, 2015, 84, 30-41.	2.9	57
54	Encapsulation of Xenon by a Self-Assembled Fe <sub>4</sub> L <sub>6</sub> Metallosupramolecular Cage. Journal of the American Chemical Society, 2015, 137, 2464-2467.	13.7	89

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55	Magnetic resonance imaging study of water absorption in thermally modified pine wood. <i>Holzforschung</i> , 2015, 69, 899-907.	1.9	36
56	Ultrafast multidimensional Laplace NMR for a rapid and sensitive chemical analysis. <i>Nature Communications</i> , 2015, 6, 8363.	12.8	87
57	Tweezers for Parahydrogen: A Metal-Free Probe of Nonequilibrium Nuclear Spin States of $H_{2}$ Molecules. <i>Journal of the American Chemical Society</i> , 2014, 136, 598-601.	13.7	36
58	Absorption of Water in Thermally Modified Pine Wood As Studied by Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2146-2153.	3.1	59
59	Ultrafast Two-Dimensional NMR Relaxometry for Investigating Molecular Processes in Real Time. <i>ChemPhysChem</i> , 2014, 15, 1687-1692.	2.1	39
60	Lab-on-a-Chip Reactor Imaging with Unprecedented Chemical Resolution by Hadamard-Encoded Remote Detection NMR. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11289-11293.	13.8	15
61	Constant-pressure simulations of Gay-Berne liquid-crystalline phases in cylindrical nanocavities. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14047.	2.8	14
62	Remote detection NMR imaging of gas phase hydrogenation in microfluidic chips. <i>Lab on A Chip</i> , 2013, 13, 1554.	6.0	20
63	Moisture in softwoods: fiber saturation point, hydroxyl site content, and the amount of micropores as determined from NMR relaxation time distributions. <i>Holzforschung</i> , 2013, 67, 291-300.	1.9	91
64	Velocity distributions in a micromixer measured by NMR imaging. <i>Lab on A Chip</i> , 2012, 12, 1823.	6.0	8
65	Characterization of Microfluidic Gas Reactors Using Remote-Detection MRI and Parahydrogen-Induced Polarization. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8054-8058.	13.8	51
66	Analysis of remote detection travel time curves measured from microfluidic channels. <i>Journal of Magnetic Resonance</i> , 2011, 210, 238-245.	2.1	14
67	Microfluidic Gas-Flow Imaging Utilizing Parahydrogen-Induced Polarization and Remote-Detection NMR. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8363-8366.	13.8	60
68	Time-of-flight remote detection MRI of thermally modified wood. <i>Journal of Magnetic Resonance</i> , 2010, 202, 78-84.	2.1	16
69	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
70	Determining the Highly Anisotropic Cell Structures of <i>Pinus sylvestris</i> in Three Orthogonal Directions by PGSTE NMR of Absorbed Water and Methane. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1080-1084.	2.6	18
71	Determination of the structure of wood from the self-diffusion probability densities of a fluid observed by position-exchange NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1167.	2.8	6
72	Quantifying the Diffusion of a Fluid through Membranes by Double Phase Encoded Remote Detection Magnetic Resonance Imaging. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13929-13936.	2.6	24

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73	Xenon porometry: a novel method for the derivation of pore size distributions. Magnetic Resonance Imaging, 2007, 25, 457-460.	1.8	10
74	Influence of diffusion on pore size distributions determined by xenon porometry. Physical Chemistry Chemical Physics, 2006, 8, 2072.	2.8	11
75	Behavior of a Thermotropic Nematic Liquid Crystal Confined to Controlled Pore Glasses as Studied by $^{129}\text{Xe}$ NMR Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 21603-21612.	2.6	14
76	Xenon porometry at room temperature. Journal of Chemical Physics, 2006, 124, 034711.	3.0	22
77	Behavior of Acetonitrile Confined to Mesoporous Silica Gels As Studied by $^{129}\text{Xe}$ NMR: A Novel Method for Determining the Pore Sizes. Journal of Physical Chemistry B, 2005, 109, 757-763.	2.6	30
78	Determination of Pore Sizes and Volumes of Porous Materials by $^{129}\text{Xe}$ NMR of Xenon Gas Dissolved in a Medium. Journal of Physical Chemistry B, 2005, 109, 24343-24351.	2.6	33
79	Relativistic Spin-Orbit Coupling Effects on Secondary Isotope Shifts of $^{13}\text{C}$ Nuclear Shielding in $\text{CX}_2(\text{X})$ Tj ETQq1 1 0,784314 rgBT /Ov 13.7 25	13.7	25
80	Sensitive, Efficient and Portable Analysis of Molecular Exchange Processes by Hyperpolarized Ultrafast NMR. Angewandte Chemie, 0, , .	2.0	1