Ville-Veikko Telkki

List of Publications by Year
in descending order

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80 papers	2,055 citations	257450 24 h-index	302126 39 g-index
86 all docs	86 docs citations	86 times ranked	1743 citing authors

#	Article	IF	Citations
1	NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, 725-751.	3.3	140
2	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
3	Encapsulation of Xenon by a Self-Assembled Fe₄L₆ Metallosupramolecular Cage. Journal of the American Chemical Society, 2015, 137, 2464-2467.	13.7	89
4	Ultrafast multidimensional Laplace NMR for a rapid and sensitive chemical analysis. Nature Communications, 2015, 6, 8363.	12.8	87
5	Influence of sodium silicate powder silica modulus for mechanical and chemical properties of dry-mix alkali-activated slag mortar. Construction and Building Materials, 2020, 233, 117354.	7.2	73
6	Microfluidic Gasâ€Flow Imaging Utilizing Parahydrogenâ€Induced Polarization and Remoteâ€Detection NMR. Angewandte Chemie - International Edition, 2010, 49, 8363-8366.	13.8	60
7	Absorption of Water in Thermally Modified Pine Wood As Studied by Nuclear Magnetic Resonance. Journal of Physical Chemistry C, 2014, 118, 2146-2153.	3.1	59
8	Cholesterol under oxidative stressâ€”How lipid membranes sense oxidation as cholesterol is being replaced by oxysterols. Free Radical Biology and Medicine, 2015, 84, 30-41.	2.9	57
9	Characterization of Microfluidic Gas Reactors Using Remoteâ€Detection MRI and Parahydrogenâ€Induced Polarization. Angewandte Chemie - International Edition, 2012, 51, 8054-8058.	13.8	51
10	Ultrafast Twoâ€Dimensional NMR Relaxometry for Investigating Molecular Processes in Real Time. ChemPhysChem, 2014, 15, 1687-1692.	2.1	39
11	Ettringite-based binder from ladle slag and gypsum â€“ The effect of citric acid on fresh and hardened state properties. Cement and Concrete Research, 2019, 123, 105800.	11.0	38
12	Inside information on xenon adsorption in porous organic cages by NMR. Chemical Science, 2017, 8, 5721-5727.	7.4	37
13	Seaweed-Derived Alginateâ€“Cellulose Nanofiber Aerogel for Insulation Applications. ACS Applied Materials & Interfaces, 2021, 13, 34899-34909.	8.0	37
14	High strength one-part alkali-activated slag blends designed by particle packing optimization. Construction and Building Materials, 2021, 299, 124004.	7.2	37
15	Tweezers for Parahydrogen: A Metal-Free Probe of Nonequilibrium Nuclear Spin States of H₂ Molecules. Journal of the American Chemical Society, 2014, 136, 598-601.	13.7	36
16	Magnetic resonance imaging study of water absorption in thermally modified pine wood. Holzforschung, 2015, 69, 899-907.	1.9	36
17	Ladle slag cement â€“ Characterization of hydration and conversion. Construction and Building Materials, 2018, 193, 128-134.	7.2	36
18	Comparison of Lignin Fractions Isolated from Wheat Straw Using Alkaline and Acidic Deep Eutectic Solvents. Journal of Agricultural and Food Chemistry, 2020, 68, 15074-15084.	5.2	36

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19	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
20	Determination of Pore Sizes and Volumes of Porous Materials by129Xe NMR of Xenon Gas Dissolved in a Medium. Journal of Physical Chemistry B, 2005, 109, 24343-24351.	2.6	33
21	Ultrafast Multidimensional Laplace NMR Using a Singleâ€Sided Magnet. Angewandte Chemie - International Edition, 2016, 55, 5040-5043.	13.8	32
22	Curing process and pore structure of metakaolin-based geopolymers: Liquid-state 1H NMR investigation. Cement and Concrete Research, 2021, 143, 106394.	11.0	31
23	Behavior of Acetonitrile Confined to Mesoporous Silica Gels As Studied by129Xe NMR:Â A Novel Method for Determining the Pore Sizes. Journal of Physical Chemistry B, 2005, 109, 757-763.	2.6	30
24	Identification of Intracellular and Extracellular Metabolites in Cancer Cells Using ¹³C Hyperpolarized Ultrafast Laplace NMR. Analytical Chemistry, 2018, 90, 11131-11137.	6.5	28
25	Effect of natural weathering on water absorption and pore size distribution in thermally modified wood determined by nuclear magnetic resonance. Cellulose, 2020, 27, 4235-4247.	4.9	27
26	Ultrafast diffusion exchange nuclear magnetic resonance. Nature Communications, 2020, 11, 3251.	12.8	27
27	Recycling mica and carbonate-rich mine tailings in alkali-activated composites: A synergy with metakaolin. Minerals Engineering, 2020, 157, 106535.	4.3	26
28	Relativistic Spinâ”Orbit Coupling Effects on Secondary Isotope Shifts of13C Nuclear Shielding in CX2(X) Tj ETQq0 0 0 rgBT /Overlock 10	13.7	25
29	Hyperpolarized <scp>L</scp>aplace <scp>NMR</scp>. Magnetic Resonance in Chemistry, 2018, 56, 619-632.	1.9	25
30	High-throughput continuous-flow system for SABRE hyperpolarization. Journal of Magnetic Resonance, 2019, 300, 8-17.	2.1	25
31	Quantifying the Diffusion of a Fluid through Membranes by Double Phase Encoded Remote Detection Magnetic Resonance Imaging. Journal of Physical Chemistry B, 2007, 111, 13929-13936.	2.6	24
32	Determination of pore structures and dynamics of fluids in hydrated cements and natural shales by various 1H and 129Xe NMR methods. Microporous and Mesoporous Materials, 2019, 281, 66-74.	4.4	24
33	Ultrafast methods for relaxation and diffusion. Progress in Nuclear Magnetic Resonance Spectroscopy, 2021, 126-127, 101-120.	7.5	23
34	Xenon porometry at room temperature. Journal of Chemical Physics, 2006, 124, 034711.	3.0	22
35	Remote detection NMR imaging of gas phase hydrogenation in microfluidic chips. Lab on A Chip, 2013, 13, 1554.	6.0	20
36	Hyper-CEST NMR of metal organic polyhedral cages reveals hidden diastereomers with diverse guest exchange kinetics. Nature Communications, 2022, 13, 1708.	12.8	20

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37	Structure and dynamics elucidation of ionic liquids using multidimensional Laplace NMR. Chemical Communications, 2017, 53, 11056-11059.	4.1	19
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	Comprehensive NMR Analysis of Pore Structures in Superabsorbing Cellulose Nanofiber Aerogels. Journal of Physical Chemistry C, 2019, 123, 30986-30995.	3.1	19
40	Characterization of the decay process of Scots pine caused by Coniophora puteana using NMR and MRI. Holzforschung, 2020, 74, 1021-1032.	1.9	19
41	Determining the Highly Anisotropic Cell Structures of Pinus sylvestris in Three Orthogonal Directions by PGSTE NMR of Absorbed Water and Methane. Journal of Physical Chemistry B, 2009, 113, 1080-1084.	2.6	18
42	Effect of Thermal Modification on Wood Cell Structures Observed by Pulsed-Field-Gradient Stimulated-Echo NMR. Journal of Physical Chemistry C, 2010, 114, 18693-18697.	3.1	17
43	Ultrafast NMR diffusion measurements exploiting chirp spin echoes. Magnetic Resonance in Chemistry, 2017, 55, 341-347.	1.9	17
44	Time-of-flight remote detection MRI of thermally modified wood. Journal of Magnetic Resonance, 2010, 202, 78-84.	2.1	16
45	Ultrafast Laplace NMR with hyperpolarized xenon gas. Microporous and Mesoporous Materials, 2018, 269, 75-78.	4.4	16
46	Labâ€onâ€aâ€Chip Reactor Imaging with Unprecedented Chemical Resolution by Hadamardâ€Encoded Remote Detection NMR. Angewandte Chemie - International Edition, 2014, 53, 11289-11293.	13.8	15
47	DFT calculations in the assignment of solid-state NMR and crystal structure elucidation of a lanthanum(<scp>iii</scp>) complex with dithiocarbamate and phenanthroline. Dalton Transactions, 2016, 45, 19473-19484.	3.3	15
48	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
49	High-Resolution Reconstruction for Multidimensional Laplace NMR. Journal of Physical Chemistry Letters, 2021, 12, 5085-5090.	4.6	15
50	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
51	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
52	Behavior of a Thermotropic Nematic Liquid Crystal Confined to Controlled Pore Glasses as Studied by129Xe NMR Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 21603-21612.	2.6	14
53	Analysis of remote detection travel time curves measured from microfluidic channels. Journal of Magnetic Resonance, 2011, 210, 238-245.	2.1	14
54	Constant-pressure simulations of Gayâ€“Berne liquid-crystalline phases in cylindrical nanocavities. Physical Chemistry Chemical Physics, 2013, 15, 14047.	2.8	14

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55	Spontaneous ¹⁵N Nuclear Spin Hyperpolarization in Metal-Free Activation of Parahydrogen by Molecular Tweezers. Journal of Physical Chemistry Letters, 2018, 9, 903-907.	4.6	14
56	Ultrafast NMR diffusion and relaxation studies. Annual Reports on NMR Spectroscopy, 2019, , 83-119.	1.5	13
57	Parahydrogenâ€Induced Polarization in Hydrogenation Reactions Mediated by a Metalâ€Free Catalyst. Chemistry - A European Journal, 2022, 28, .	3.3	13
58	NMR relaxation and modelling study of the dynamics of SF6 and Xe in porous organic cages. Physical Chemistry Chemical Physics, 2019, 21, 24373-24382.	2.8	12
59	Testing 1D and 2D single-sided NMR on Roman age waterlogged woods. Journal of Cultural Heritage, 2021, 50, 95-105.	3.3	12
60	Influence of diffusion on pore size distributions determined by xenon porometry. Physical Chemistry Chemical Physics, 2006, 8, 2072.	2.8	11
61	Nonlinear sampling in ultrafast Laplace NMR. Journal of Magnetic Resonance, 2019, 307, 106571.	2.1	11
62	Sensitive, Efficient and Portable Analysis of Molecular Exchange Processes by Hyperpolarized Ultrafast NMR. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
63	Xenon porometry: a novel method for the derivation of pore size distributions. Magnetic Resonance Imaging, 2007, 25, 457-460.	1.8	10
64	Accelerating Restricted Diffusion NMR Studies with Time-Resolved and Ultrafast Methods. Analytical Chemistry, 2020, 92, 9948-9955.	6.5	10
65	Ultrafast Multidimensional Laplace NMR Using a Singleâ€Sided Magnet. Angewandte Chemie, 2016, 128, 5124-5127.	2.0	9
66	Effect of Process Variables on the Solvolysis Depolymerization of Pine Kraft Lignin. Waste and Biomass Valorization, 2020, 11, 3195-3206.	3.4	9
67	Velocity distributions in a micromixer measured by NMR imaging. Lab on A Chip, 2012, 12, 1823.	6.0	8
68	Efficient Catalytic Microreactors with Atomicâ€Layerâ€Deposited Platinum Nanoparticles on Oxide Support. Chemistry - A European Journal, 2017, 23, 16835-16842.	3.3	8
69	Identification of extracellular nanoparticle subsets by nuclear magnetic resonance. Chemical Science, 2021, 12, 8311-8319.	7.4	8
70	Ultrafast Laplace NMR to study metalâ€“ligand interactions in reversible polarisation transfer from parahydrogen. Physical Chemistry Chemical Physics, 2021, 23, 16542-16550.	2.8	8
71	Structure Elucidation of an Yttrium Diethyldithiocarbamato-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
72	Determination of the structure of wood from the self-diffusion probability densities of a fluid observed by position-exchange NMR spectroscopy. Physical Chemistry Chemical Physics, 2009, 11, 1167.	2.8	6

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73	Quantifying the adsorption of flowing gas mixtures in porous materials by remote detection NMR. Microporous and Mesoporous Materials, 2018, 269, 148-151.	4.4	3
74	Hyperpolarised NMR to aid molecular profiling of electronic cigarette aerosols. RSC Advances, 2022, 12, 1479-1485.	3.6	3
75	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
76	Frontispiece: NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, .	3.3	2
77	Local structures of rare earth phosphate minerals by NMR. Journal of Solid State Chemistry, 2022, 311, 123097.	2.9	2
78	129Xe NMR analysis reveals efficient gas transport between inborn micro-, meso- and macropores in geopolymers. Cement and Concrete Research, 2022, 155, 106779.	11.0	2
79	NMR Hyperpolarization Techniques of Gases. Chemistry - A European Journal, 2017, 23, 724-724.	3.3	1
80	Sensitive, Efficient and Portable Analysis of Molecular Exchange Processes by Hyperpolarized Ultrafast NMR. Angewandte Chemie, 0, , .	2.0	1