

Henk Van As

List of Publications by Year in descending order

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155
papers

5,717
citations

66343

42
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98798

67
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166
all docs

166
docs citations

166
times ranked

5021
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | MRM Microcoil Performance Calibration and Usage Demonstrated on <i>Medicago truncatula</i> Roots at 22 T. <i>Journal of Visualized Experiments</i> , 2021, , . | 0.3 | 1 |
| 2 | Exploring in vitro gastric digestion of whey protein by time-domain nuclear magnetic resonance and magnetic resonance imaging. <i>Food Hydrocolloids</i> , 2020, 99, 105348. | 10.7 | 23 |
| 3 | Impact of water degumming and enzymatic degumming on gum mesostructure formation in crude soybean oil. <i>Food Chemistry</i> , 2020, 311, 126017. | 8.2 | 16 |
| 4 | Characterizing the structure of aerobic granular sludge using ultra-high field magnetic resonance. <i>Water Science and Technology</i> , 2020, 82, 627-639. | 2.5 | 10 |
| 5 | Assessing spatial resolution, acquisition time and signal-to-noise ratio for commercial microimaging systems at 14.1, 17.6 and 22.3T. <i>Journal of Magnetic Resonance</i> , 2020, 316, 106770. | 2.1 | 5 |
| 6 | High Field MicroMRI Velocimetric Measurement of Quantitative Local Flow Curves. <i>Analytical Chemistry</i> , 2020, 92, 4193-4200. | 6.5 | 8 |
| 7 | Morphological and physiological responses of the potato stem transport tissues to dehydration stress. <i>Planta</i> , 2020, 251, 45. | 3.2 | 19 |
| 8 | Magnetic Resonance Microscopy at Cellular Resolution and Localised Spectroscopy of <i>Medicago truncatula</i> at 22.3 Tesla. <i>Scientific Reports</i> , 2020, 10, 971. | 3.3 | 13 |
| 9 | Direct evidence of stress-induced chain proximity in a macromolecular complex. <i>Physical Review Materials</i> , 2020, 4, . | 2.4 | 0 |
| 10 | 3D biofilm visualization and quantification on granular bioanodes with magnetic resonance imaging. <i>Water Research</i> , 2019, 167, 115059. | 11.3 | 17 |
| 11 | Manipulation of Recrystallization and Network Formation of Oil-Dispersed Micronized Fat Crystals. <i>Langmuir</i> , 2019, 35, 2221-2229. | 3.5 | 8 |
| 12 | Magnetic resonance imaging suggests functional role of previous year vessels and fibres in ring-porous sap flow resumption. <i>Tree Physiology</i> , 2019, 39, 1009-1018. | 3.1 | 10 |
| 13 | Selective oil-phase rheo-MRI velocity profiles to monitor heterogeneous flow behavior of oil/water food emulsions. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 766-770. | 1.9 | 11 |
| 14 | Ionic interaction and liquid absorption by wood in lignocellulose inorganic mineral binder composites. <i>Journal of Cleaner Production</i> , 2019, 206, 808-818. | 9.3 | 3 |
| 15 | Networks of micronized fat crystals grown under static conditions. <i>Food and Function</i> , 2018, 9, 2102-2111. | 4.6 | 25 |
| 16 | Heterogeneity of Network Structures and Water Dynamics in $\hat{\text{I}}^{\text{e}}$ -Carrageenan Gels Probed by Nanoparticle Diffusometry. <i>Langmuir</i> , 2018, 34, 11110-11120. | 3.5 | 10 |
| 17 | NMR Imaging of Air Spaces and Metabolites in Fruit and Vegetables. , 2018, , 1765-1779. | | 3 |
| 18 | NMR Imaging of Air Spaces and Metabolites in Fruit and Vegetables. , 2018, , 1-15. | | 0 |

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|----|--|------|-----------|
| 19 | Multi-component quantitative magnetic resonance imaging by phasor representation. Scientific Reports, 2017, 7, 861. | 3.3 | 20 |
| 20 | Lipid polymorphism in chloroplast thylakoid membranes “ as revealed by 31P-NMR and time-resolved merocyanine fluorescence spectroscopy. Scientific Reports, 2017, 7, 13343. | 3.3 | 41 |
| 21 | Unravelling of the water-binding capacity of cold-gelated whey protein microparticles. Food Hydrocolloids, 2017, 63, 533-544. | 10.7 | 10 |
| 22 | Iron, Cobalt, and Gadolinium Transport in Methanogenic Granules Measured by 3D Magnetic Resonance Imaging. Frontiers in Environmental Science, 2016, 4, . | 3.3 | 10 |
| 23 | Rhizophoraceae Mangrove Saplings Use Hypocotyl and Leaf Water Storage Capacity to Cope with Soil Water Salinity Changes. Frontiers in Plant Science, 2016, 7, 895. | 3.6 | 26 |
| 24 | Yielding and flow of cellulose microfibril dispersions in the presence of a charged polymer. Soft Matter, 2016, 12, 4739-4744. | 2.7 | 26 |
| 25 | A combined rheology and time domain NMR approach for determining water distributions in protein blends. Food Hydrocolloids, 2016, 60, 525-532. | 10.7 | 47 |
| 26 | Revealing and tuning the core, structure, properties and function of polymer micelles with lanthanide-coordination complexes. Soft Matter, 2016, 12, 99-105. | 2.7 | 23 |
| 27 | Time domain nuclear magnetic resonance as a method to determine and characterize the water-binding capacity of whey protein microparticles. Food Hydrocolloids, 2016, 54, 170-178. | 10.7 | 28 |
| 28 | The effect of polysaccharides on the ability of whey protein gels to either store or dissipate energy upon mechanical deformation. Food Hydrocolloids, 2016, 52, 707-720. | 10.7 | 33 |
| 29 | Complex Coacervate Core Micelles with Spectroscopic Labels for Diffusometric Probing of Biopolymer Networks. Langmuir, 2015, 31, 12635-12643. | 3.5 | 15 |
| 30 | Phloem flow and sugar transport in <i>Ricinus communis</i> “... is inhibited under anoxic conditions of shoot or roots. Plant, Cell and Environment, 2015, 38, 433-447. | 5.7 | 31 |
| 31 | Scaling Behavior of Dendritic Nanoparticle Mobility in Semidilute Polymer Solutions. Macromolecules, 2015, 48, 7585-7591. | 4.8 | 29 |
| 32 | Nanoparticle diffusometry for quantitative assessment of submicron structure in food biopolymer networks. Trends in Food Science and Technology, 2015, 42, 13-26. | 15.1 | 30 |
| 33 | 19F Labelled Polyion Micelles as Diffusional Nanoprobes. Special Publication - Royal Society of Chemistry, 2015, , 109-119. | 0.0 | 2 |
| 34 | Rehydration kinetics of freeze-dried carrots. Innovative Food Science and Emerging Technologies, 2014, 24, 40-47. | 5.6 | 23 |
| 35 | NMR Nanoparticle Diffusometry in Hydrogels: Enhancing Sensitivity and Selectivity. Analytical Chemistry, 2014, 86, 9229-9235. | 6.5 | 23 |
| 36 | Multiphysics pore-scale model for the rehydration of porous foods. Innovative Food Science and Emerging Technologies, 2014, 24, 69-79. | 5.6 | 20 |

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| 37 | Controlled mixing of lanthanide(III) ions in coacervate core micelles. <i>Chemical Communications</i> , 2013, 49, 3736. | 4.1 | 57 |
| 38 | MRI of plants and foods. <i>Journal of Magnetic Resonance</i> , 2013, 229, 25-34. | 2.1 | 92 |
| 39 | Potential of mechanical cleaning of membranes from a membrane bioreactor. <i>Journal of Membrane Science</i> , 2013, 429, 259-267. | 8.2 | 19 |
| 40 | The Effect of Structure and Imbibition Mode on the Rehydration Kinetics of Freeze-dried Carrots. <i>Special Publication - Royal Society of Chemistry</i> , 2013, , 112-121. | 0.0 | 1 |
| 41 | Ultrasound-assisted MnO ₂ catalyzed homolysis of peracetic acid for phenol degradation: The assessment of process chemistry and kinetics. <i>Chemical Engineering Journal</i> , 2013, 221, 476-486. | 12.7 | 66 |
| 42 | The impact of metal transport processes on bioavailability of free and complex metal ions in methanogenic granular sludge. <i>Water Science and Technology</i> , 2012, 65, 1875-1881. | 2.5 | 12 |
| 43 | The impact of freeze-drying on microstructure and rehydration properties of carrot. <i>Food Research International</i> , 2012, 49, 687-693. | 6.2 | 136 |
| 44 | Anomalies in moisture transport during broccoli drying monitored by MRI?. <i>Faraday Discussions</i> , 2012, 158, 65. | 3.2 | 30 |
| 45 | Combination of Neural Networks and DFT Calculations for the Comprehensive Analysis of FDMPO Radical Adducts from Fast Isotropic Electron Spin Resonance Spectra. <i>Journal of Physical Chemistry A</i> , 2012, 116, 443-451. | 2.5 | 13 |
| 46 | Effect of morphology on water sorption in cellular solid foods. Part II: Sorption in cereal crackers. <i>Journal of Food Engineering</i> , 2012, 109, 311-320. | 5.2 | 21 |
| 47 | Effect of pH on Complex Coacervate Core Micelles from Fe(III)-Based Coordination Polymer. <i>Langmuir</i> , 2011, 27, 14776-14782. | 3.5 | 22 |
| 48 | The Impact of Freeze-Drying on Microstructure and Hydration Properties of Carrot. <i>Special Publication - Royal Society of Chemistry</i> , 2011, , 71-79. | 0.0 | 1 |
| 49 | Sieve Tube Geometry in Relation to Phloem Flow. <i>Plant Cell</i> , 2010, 22, 579-593. | 6.6 | 183 |
| 50 | Membrane chemical stability and seed longevity. <i>European Biophysics Journal</i> , 2010, 39, 657-668. | 2.2 | 12 |
| 51 | Quantitative permeability imaging of plant tissues. <i>European Biophysics Journal</i> , 2010, 39, 699-710. | 2.2 | 23 |
| 52 | The structural and hydration properties of heat-treated rice studied at multiple length scales. <i>Food Chemistry</i> , 2010, 120, 1031-1040. | 8.2 | 37 |
| 53 | ¹ H-NMR Study of the Impact of High Pressure and Thermal Processing on Cell Membrane Integrity of Onions. <i>Journal of Food Science</i> , 2010, 75, E417-25. | 3.1 | 39 |
| 54 | Time-Domain NMR Applied to Food Products. <i>Annual Reports on NMR Spectroscopy</i> , 2010, 69, 145-197. | 1.5 | 112 |

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| 55 | Flow characteristics and exchange in complex biological systems as observed by pulsed-field-gradient magnetic-resonance imaging. <i>Physical Review E</i> , 2010, 82, 026310. | 2.1 | 9 |
| 56 | Redox responsive molecular assemblies based on metallic coordination polymers. <i>Soft Matter</i> , 2010, 6, 3244. | 2.7 | 25 |
| 57 | Free Radical Reaction Pathway, Thermochemistry of Peracetic Acid Homolysis, and Its Application for Phenol Degradation: Spectroscopic Study and Quantum Chemistry Calculations. <i>Environmental Science & Technology</i> , 2010, 44, 6815-6821. | 10.0 | 122 |
| 58 | Proton NMR Relaxometry as a Useful Tool to Evaluate Swelling Processes in Peat Soils~!2009-07-26~!2009-12-04~!2010-06-15~!. <i>The Open Magnetic Resonance Journal</i> , 2010, 3, 27-45. | 0.5 | 39 |
| 59 | Most Water in the Tomato Truss Is Imported through the Xylem, Not the Phloem: A Nuclear Magnetic Resonance Flow Imaging Study Å. <i>Plant Physiology</i> , 2009, 151, 830-842. | 4.8 | 96 |
| 60 | MRI of intact plants. <i>Photosynthesis Research</i> , 2009, 102, 213-222. | 2.9 | 81 |
| 61 | Evaluation of ¹ H NMR relaxometry for the assessment of pore size distribution in soil samples. <i>European Journal of Soil Science</i> , 2009, 60, 1052-1064. | 3.9 | 118 |
| 62 | The effect of rice kernel microstructure on cooking behaviour: A combined ¹ H-CT and MRI study. <i>Food Chemistry</i> , 2009, 115, 1491-1499. | 8.2 | 42 |
| 63 | Magnetic resonance microscopy of iron transport in methanogenic granules. <i>Journal of Magnetic Resonance</i> , 2009, 200, 303-312. | 2.1 | 13 |
| 64 | ESR ST study of hydroxyl radical generation in wet peroxide system catalyzed by heterogeneous ruthenium. <i>Chemosphere</i> , 2009, 77, 148-150. | 8.2 | 16 |
| 65 | Real-time mapping of moisture migration in cereal based food systems with Aw contrast by means of MRI. <i>Food Chemistry</i> , 2008, 106, 1366-1374. | 8.2 | 20 |
| 66 | Phase behavior of phosphatidylglycerol in spinach thylakoid membranes as revealed by ³¹ P-NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 997-1003. | 2.6 | 42 |
| 67 | Magnetic Resonance Imaging of Plants: Water Balance and Water Transport in Relation to Photosynthetic Activity. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 55-75. | 1.0 | 5 |
| 68 | Monitoring of xylem sap flow in trees by a non-intrusive, laser-based heat tracing technique and comparison with MRI flow imaging. , 2007, , . | | 0 |
| 69 | Intact Plant Magnetic Resonance Imaging to Study Dynamics in Long-Distance Sap Flow and Flow-Conducting Surface Area. <i>Plant Physiology</i> , 2007, 144, 1157-1165. | 4.8 | 96 |
| 70 | Correlated displacement-T2 MRI by means of a Pulsed Field Gradient-Multi Spin Echo method. <i>Journal of Magnetic Resonance</i> , 2007, 185, 230-239. | 2.1 | 22 |
| 71 | Combined analysis of diffusion and relaxation behavior of water in apple parenchyma cells. <i>Biophysics (Russian Federation)</i> , 2007, 52, 196-203. | 0.7 | 17 |
| 72 | Comparison of xylem flow velocities determined by MRI and a non-invasive heat pulse technique in Golden Alder and Silver Birch. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, S65-S66. | 1.8 | 2 |

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| 73 | 0.7 and 3 T MRI and Sap Flow in Intact Trees: Xylem and Phloem in Action. <i>Applied Magnetic Resonance</i> , 2007, 32, 157-170. | 1.2 | 36 |
| 74 | Effects of cold-girdling on flows in the transport phloem in <i>Ricinus communis</i> : is mass flow inhibited?. <i>Plant, Cell and Environment</i> , 2006, 29, 15-25. | 5.7 | 70 |
| 75 | MRI of long-distance water transport: a comparison of the phloem and xylem flow characteristics and dynamics in poplar, castor bean, tomato and tobacco. <i>Plant, Cell and Environment</i> , 2006, 29, 1715-1729. | 5.7 | 269 |
| 76 | Translational dynamics of water in the cytoplasm of parenchymal cells of <i>Malus domestica</i> fruit: A pulsed NMR approach. <i>Doklady Biological Sciences</i> , 2006, 411, 488-490. | 0.6 | 1 |
| 77 | Intact plant MRI for the study of cell water relations, membrane permeability, cell-to-cell and long distance water transport. <i>Journal of Experimental Botany</i> , 2006, 58, 743-756. | 4.8 | 167 |
| 78 | Solid-state ²⁷ Al MRI and NMR thermometry for catalytic applications with conventional (liquids) MRI instrumentation and techniques. <i>Journal of Magnetic Resonance</i> , 2005, 175, 21-29. | 2.1 | 24 |
| 79 | Aquaporins of the PIP2 Class Are Required for Efficient Anther Dehiscence in Tobacco. <i>Plant Physiology</i> , 2005, 137, 1049-1056. | 4.8 | 85 |
| 80 | Magnetic resonance imaging of single rice kernels during cooking. <i>Journal of Magnetic Resonance</i> , 2004, 171, 157-162. | 2.1 | 46 |
| 81 | Gas and liquid distribution in the monolith film flow reactor. <i>AIChE Journal</i> , 2003, 49, 3007-3017. | 3.6 | 51 |
| 82 | Water status and carbohydrate pools in tulip bulbs during dormancy release. <i>New Phytologist</i> , 2003, 158, 109-118. | 7.3 | 47 |
| 83 | Diffusional Properties of Methanogenic Granular Sludge: ¹ H NMR Characterization. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6644-6649. | 3.1 | 24 |
| 84 | Influence of Stagnant Zones on Transient and Asymptotic Dispersion in Macroscopically Homogeneous Porous Media. <i>Physical Review Letters</i> , 2002, 88, 234501. | 7.8 | 119 |
| 85 | Numerical simulation and measurement of liquid hold-up in biporous media containing discrete stagnant zones. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2002, 360, 521-534. | 3.4 | 24 |
| 86 | Electroosmotic Flow Phenomena in Packed Capillaries: From the Interstitial Velocities to Intraparticle and Boundary Layer Mass Transfer. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12709-12721. | 2.6 | 28 |
| 87 | Functional Imaging of Plants: A Nuclear Magnetic Resonance Study of a Cucumber Plant. <i>Biophysical Journal</i> , 2002, 82, 481-492. | 0.5 | 53 |
| 88 | Water and glucose gradients in the substrate measured with NMR imaging during solid-state fermentation with <i>Aspergillus oryzae</i> . <i>Biotechnology and Bioengineering</i> , 2002, 79, 653-663. | 3.3 | 26 |
| 89 | Modelling of Self-diffusion and Relaxation Time NMR in Multicompartment Systems with Cylindrical Geometry. <i>Journal of Magnetic Resonance</i> , 2002, 156, 213-221. | 2.1 | 46 |
| 90 | Water-conducting properties of lipids during pollen hydration. <i>Plant, Cell and Environment</i> , 2002, 25, 513-519. | 5.7 | 43 |

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| 91 | Nuclear magnetic resonance imaging of membrane permeability changes in plants during osmotic stress. <i>Plant, Cell and Environment</i> , 2002, 25, 1539-1549. | 5.7 | 64 |
| 92 | Quantitative NMR microscopy of osmotic stress responses in maize and pearl millet. <i>Journal of Experimental Botany</i> , 2001, 52, 2333-2343. | 4.8 | 76 |
| 93 | Macroscopic Heterogeneities in Electroosmotic and Pressure-Driven Flow through Fixed Beds at Low Column-to-Particle Diameter Ratio. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8591-8599. | 2.6 | 34 |
| 94 | Fine-scale measurement of diffusivity in a microbial mat with nuclear magnetic resonance imaging. <i>Limnology and Oceanography</i> , 2001, 46, 248-259. | 3.1 | 50 |
| 95 | PROCESSES AND XYLEM ANATOMICAL PROPERTIES INVOLVED IN REHYDRATION DYNAMICS OF CUT FLOWERS. <i>Acta Horticulturae</i> , 2001, , 199-205. | 0.2 | 9 |
| 96 | Using NMR displacement imaging to characterize electroosmotic flow in porous media. <i>Magnetic Resonance Imaging</i> , 2001, 19, 453-456. | 1.8 | 11 |
| 97 | Magnetization transfer and double-quantum filtered imaging as probes for motional restricted water in tulip bulbs. <i>Magnetic Resonance Imaging</i> , 2001, 19, 857-865. | 1.8 | 10 |
| 98 | Microscopic Imaging of Slow Flow and Diffusion: A Pulsed Field Gradient Stimulated Echo Sequence Combined with Turbo Spin Echo Imaging. <i>Journal of Magnetic Resonance</i> , 2001, 151, 94-100. | 2.1 | 44 |
| 99 | Electrokinetics in Fixed Beds: Experimental Demonstration of Electroosmotic Perfusion. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1684-1687. | 13.8 | 24 |
| 100 | Gas and liquid phase distribution and their effect on reactor performance in the monolith film flow reactor. <i>Chemical Engineering Science</i> , 2001, 56, 5935-5944. | 3.8 | 55 |
| 101 | Influence of wheat type and pretreatment on fungal growth in solid-state fermentation. <i>Biotechnology Letters</i> , 2001, 23, 1183-1187. | 2.2 | 13 |
| 102 | Use of ¹ H NMR to study transport processes in porous biosystems. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2001, 26, 43-52. | 3.0 | 53 |
| 103 | Cluster Structure of Anaerobic Aggregates of an Expanded Granular Sludge Bed Reactor. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3683-3692. | 3.1 | 112 |
| 104 | Use of (¹ H) NMR to study transport processes in porous biosystems. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2001, 26, 43-52. | 3.0 | 6 |
| 105 | Microscopic Displacement Imaging with Pulsed Field Gradient Turbo Spin-Echo NMR. <i>Journal of Magnetic Resonance</i> , 2000, 142, 207-215. | 2.1 | 56 |
| 106 | Evaluation of algorithms for analysis of NMR relaxation decay curves. <i>Magnetic Resonance Imaging</i> , 2000, 18, 1151-1158. | 1.8 | 37 |
| 107 | Developmental changes and water status in tulip bulbs during storage: visualization by NMR imaging. <i>Journal of Experimental Botany</i> , 2000, 51, 1277-1287. | 4.8 | 5 |
| 108 | Developmental changes and water status in tulip bulbs during storage: visualization by NMR imaging. <i>Journal of Experimental Botany</i> , 2000, 51, 1277-1287. | 4.8 | 42 |

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| 109 | Quantification of water transport in plants with NMR imaging. <i>Journal of Experimental Botany</i> , 2000, 51, 1751-1759. | 4.8 | 76 |
| 110 | Electroosmotic and Pressure-Driven Flow in Open and Packed Capillaries: Velocity Distributions and Fluid Dispersion. <i>Analytical Chemistry</i> , 2000, 72, 2292-2301. | 6.5 | 118 |
| 111 | H nmr characterisation of the diffusional properties of methanogenic granular sludge. <i>Water Science and Technology</i> , 1999, 39, 187. | 2.5 | 15 |
| 112 | Cell water balance of white button mushrooms (<i>Agaricus bisporus</i>) during its post-harvest lifetime studied by quantitative magnetic resonance imaging. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999, 1427, 287-297. | 2.4 | 29 |
| 113 | Stagnant Mobile Phase Mass Transfer in Chromatographic Media: Intraparticle Diffusion and Exchange Kinetics. <i>Journal of Physical Chemistry B</i> , 1999, 103, 7654-7664. | 2.6 | 86 |
| 114 | ¹ H NMR characterisation of the diffusional properties of methanogenic granular sludge. <i>Water Science and Technology</i> , 1999, 39, 187-194. | 2.5 | 15 |
| 115 | Mobility of Lipids in Low Moisture Bread as Studied by NMR. <i>Journal of Cereal Science</i> , 1998, 28, 147-155. | 3.7 | 27 |
| 116 | Modeling of Self-Diffusion and Relaxation Time NMR in Multi-Compartment Systems. <i>Journal of Magnetic Resonance</i> , 1998, 135, 522-528. | 2.1 | 25 |
| 117 | Dynamic NMR microscopy of chromatographic columns. <i>AIChE Journal</i> , 1998, 44, 1962-1975. | 3.6 | 47 |
| 118 | Characterization of the diffusive properties of biofilms using pulsed field gradient-nuclear magnetic resonance. <i>Biotechnology and Bioengineering</i> , 1998, 60, 283-291. | 3.3 | 62 |
| 119 | Direct Observation of Fluid Mass Transfer Resistance in Porous Media by NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1882-1885. | 13.8 | 28 |
| 120 | Quantitative T2 Imaging of Plant Tissues By Means Of Multi-Echo MRI Microscopy. <i>Magnetic Resonance Imaging</i> , 1998, 16, 185-196. | 1.8 | 98 |
| 121 | Spatially resolved transport properties in radially compressed bead packings studied by PFG NMR. <i>Magnetic Resonance Imaging</i> , 1998, 16, 703-706. | 1.8 | 11 |
| 122 | Mass transfer in chromatographic columns studied by PFG NMR. <i>Magnetic Resonance Imaging</i> , 1998, 16, 699-702. | 1.8 | 13 |
| 123 | Flow and transport studies in (non)consolidated porous (bio)systems consisting of solid or porous beads by PFG NMR. <i>Magnetic Resonance Imaging</i> , 1998, 16, 569-573. | 1.8 | 17 |
| 124 | Study of Transport Phenomena in Chromatographic Columns by Pulsed Field Gradient NMR. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3486-3497. | 2.6 | 73 |
| 125 | NMR methods for imaging of transport processes in micro-porous systems. <i>Geoderma</i> , 1997, 80, 389-403. | 5.1 | 58 |
| 126 | Displacement imaging in porous media using the line scan NMR technique. <i>Geoderma</i> , 1997, 80, 405-416. | 5.1 | 14 |

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| 127 | Use of ¹ H NMR to study transport processes in sulfidogenic granular sludge. <i>Water Science and Technology</i> , 1997, 36, 157-163. | 2.5 | 21 |
| 128 | Use of ¹ H NMR to study transport processes in sulfidogenic granular sludge. <i>Water Science and Technology</i> , 1997, 36, 157. | 2.5 | 8 |
| 129 | Quantitative ¹ H-NMR imaging of water in white button mushrooms (<i>Agaricus bisporus</i>). <i>Magnetic Resonance Imaging</i> , 1997, 15, 113-121. | 1.8 | 52 |
| 130 | Unraveling diffusion constants in biological tissue by combining Carr-Purcell-Meiboom-Gill imaging and pulsed field gradient NMR. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 907-913. | 3.0 | 80 |
| 131 | NMR imaging of white button mushroom (<i>Agaricus bisporus</i>) at various magnetic fields. <i>Magnetic Resonance Imaging</i> , 1996, 14, 1205-1215. | 1.8 | 44 |
| 132 | Flexible PFG NMR Desensitized for Susceptibility Artifacts, Using the PFG Multiple-Spin-Echo Sequence. <i>Journal of Magnetic Resonance Series A</i> , 1995, 112, 237-240. | 1.6 | 25 |
| 133 | Extracting Diffusion Constants from Echo-Time-Dependent PFG NMR Data Using Relaxation-Time Information. <i>Journal of Magnetic Resonance Series A</i> , 1995, 116, 22-28. | 1.6 | 68 |
| 134 | Visualising the Water Flow in a Breathing Carp Using NMRi. <i>Animal Biology</i> , 1994, 45, 338-346. | 0.4 | 4 |
| 135 | In situ plant water balance studies using a portable NMR spectrometer. <i>Journal of Experimental Botany</i> , 1994, 45, 61-67. | 4.8 | 43 |
| 136 | NMR Self-Diffusion Measurements in a Bounded System with Loss of Magnetization at the Walls. <i>Journal of Magnetic Resonance Series A</i> , 1993, 102, 318-326. | 1.6 | 37 |
| 137 | Probing water compartments and membrane permeability in plant cells by ¹ H NMR relaxation measurements. <i>Biophysical Journal</i> , 1992, 63, 1654-1658. | 0.5 | 150 |
| 138 | NMR IN HORTICULTURE: IN SITU PLANT WATER BALANCE STUDIES WITH NMR. <i>Acta Horticulturae</i> , 1992, , 103-112. | 0.2 | 19 |
| 139 | Quantitative measurement and imaging of transport processes in plants and porous media by ¹ H NMR. <i>Magnetic Resonance Imaging</i> , 1992, 10, 827-836. | 1.8 | 36 |
| 140 | A method for the simultaneous measurement of NMR spin-lattice and spin-spin relaxation times in compartmentalized systems. <i>Journal of Magnetic Resonance</i> , 1992, 99, 139-148. | 0.5 | 11 |
| 141 | STEM SAP FLOW, MEASURED USING PROTON NUCLEAR MAGNETIC RESONANCE, IN COMPARISON WITH TRANSPIRATION AND WATER UPTAKE OF CUCUMBER IN A GREENHOUSE CLIMATE. <i>Acta Horticulturae</i> , 1992, , 237-244. | 0.2 | 2 |
| 142 | Discrimination of different types of motion by modified stimulated-echo NMR. <i>Journal of Magnetic Resonance</i> , 1990, 87, 132-140. | 0.5 | 2 |
| 143 | Pulse NMR of Casein Dispersions. <i>Journal of Food Science</i> , 1989, 54, 704-708. | 3.1 | 25 |
| 144 | Water Balance in Cucumis Plants, Measured by Nuclear Magnetic Resonance, I. <i>Journal of Experimental Botany</i> , 1988, 39, 1199-1210. | 4.8 | 24 |

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| 145 | Water Balance in Cucumis Plants, Measured by Nuclear Magnetic Resonance, II. Journal of Experimental Botany, 1988, 39, 1211-1220. | 4.8 | 19 |
| 146 | Measurement of flow by the NMR repetitive pulse method. Journal of Magnetic Resonance, 1987, 74, 526-534. | 0.5 | 4 |
| 147 | A novel NMR method for spatially resolved flow measurements. Journal of Magnetic Resonance, 1985, 62, 511-517. | 0.5 | 3 |
| 148 | Localized real time blood flow measurements. Archives Internationales De Physiologie Et De Biochimie, 1985, 93, 87-95. | 0.2 | 4 |
| 149 | Noninvasive measurement of plant water flow by nuclear magnetic resonance. Biophysical Journal, 1984, 45, 469-472. | 0.5 | 48 |
| 150 | [¹ H]Spin-echo nuclear magnetic resonance in plant tissue. I. The effect of Mn(II) and water content in wheat leaves. Biophysical Journal, 1980, 32, 1043-1049. | 0.5 | 20 |
| 151 | Plant Growth Studies Using Low Field NMR. , 0, , 473-479. | | 1 |
| 152 | Fast Spatially Resolved Displacement Imaging in (Bio) Systems. , 0, , 481-486. | | 3 |
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