Henk Van As

List of Publications by Year
in descending order

155	5,717	66343	98798
papers	citations	42 h-index	67 g-index

166	166	166	5021
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MRI of long-distance water transport: a comparison of the phloem and xylem flow characteristics and dynamics in poplar, castor bean, tomato and tobacco. Plant, Cell and Environment, 2006, 29, 1715-1729.	5.7	269
2	Sieve Tube Geometry in Relation to Phloem Flow. Plant Cell, 2010, 22, 579-593.	6.6	183
3	Intact plant MRI for the study of cell water relations, membrane permeability, cell-to-cell and long distance water transport. Journal of Experimental Botany, 2006, 58, 743-756.	4.8	167
4	Probing water compartments and membrane permeability in plant cells by 1H NMR relaxation measurements. Biophysical Journal, 1992, 63, 1654-1658.	0.5	150
5	The impact of freeze-drying on microstructure and rehydration properties of carrot. Food Research International, 2012, 49, 687-693.	6.2	136
6	Free Radical Reaction Pathway, Thermochemistry of Peracetic Acid Homolysis, and Its Application for Phenol Degradation: Spectroscopic Study and Quantum Chemistry Calculations. Environmental Science & Technology, 2010, 44, 6815-6821.	10.0	122
7	Influence of Stagnant Zones on Transient and Asymptotic Dispersion in Macroscopically Homogeneous Porous Media. Physical Review Letters, 2002, 88, 234501.	7.8	119
8	Electroosmotic and Pressure-Driven Flow in Open and Packed Capillaries:â€‰ Velocity Distributions and Fluid Dispersion. Analytical Chemistry, 2000, 72, 2292-2301.	6.5	118
9	Evaluation of ¹H NMR relaxometry for the assessment of poreâ€size distribution in soil samples. European Journal of Soil Science, 2009, 60, 1052-1064.	3.9	118
10	Cluster Structure of Anaerobic Aggregates of an Expanded Granular Sludge Bed Reactor. Applied and Environmental Microbiology, 2001, 67, 3683-3692.	3.1	112
11	Time-Domain NMR Applied to Food Products. Annual Reports on NMR Spectroscopy, 2010, 69, 145-197.	1.5	112
12	Quantitative T2 Imaging of Plant Tissues By Means Of Multi-Echo MRI Microscopy. Magnetic Resonance Imaging, 1998, 16, 185-196.	1.8	98
13	Intact Plant Magnetic Resonance Imaging to Study Dynamics in Long-Distance Sap Flow and Flow-Conducting Surface Area. Plant Physiology, 2007, 144, 1157-1165.	4.8	96
14	Most Water in the Tomato Truss Is Imported through the Xylem, Not the Phloem: A Nuclear Magnetic Resonance Flow Imaging Study Â. Plant Physiology, 2009, 151, 830-842.	4.8	96
15	MRI of plants and foods. Journal of Magnetic Resonance, 2013, 229, 25-34.	2.1	92
16	Stagnant Mobile Phase Mass Transfer in Chromatographic Media:â€‰ Intraparticle Diffusion and Exchange Kinetics. Journal of Physical Chemistry B, 1999, 103, 7654-7664.	2.6	86
17	Aquaporins of the PIP2 Class Are Required for Efficient Anther Dehiscence in Tobacco. Plant Physiology, 2005, 137, 1049-1056.	4.8	85
18	MRI of intact plants. Photosynthesis Research, 2009, 102, 213-222.	2.9	81

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19	Unraveling diffusion constants in biological tissue by combining Carr-Purcell-Meiboom-Gill imaging and pulsed field gradient NMR. Magnetic Resonance in Medicine, 1996, 36, 907-913.	3.0	80
20	Quantification of water transport in plants with NMR imaging. Journal of Experimental Botany, 2000, 51, 1751-1759.	4.8	76
21	Quantitative NMR microscopy of osmotic stress responses in maize and pearl millet. Journal of Experimental Botany, 2001, 52, 2333-2343.	4.8	76
22	Study of Transport Phenomena in Chromatographic Columns by Pulsed Field Gradient NMR. Journal of Physical Chemistry B, 1998, 102, 3486-3497.	2.6	73
23	Effects of cold-girdling on flows in the transport phloem in Ricinus communis: is mass flow inhibited?. Plant, Cell and Environment, 2006, 29, 15-25.	5.7	70
24	Extracting Diffusion Constants from Echo-Time-Dependent PFG NMR Data Using Relaxation-Time Information. Journal of Magnetic Resonance Series A, 1995, 116, 22-28.	1.6	68
25	Ultrasound-assisted MnO2 catalyzed homolysis of peracetic acid for phenol degradation: The assessment of process chemistry and kinetics. Chemical Engineering Journal, 2013, 221, 476-486.	12.7	66
26	Nuclear magnetic resonanceimaging of membrane permeability changes in plants during osmoticstress. Plant, Cell and Environment, 2002, 25, 1539-1549.	5.7	64
27	Characterization of the diffusive properties of biofilms using pulsed field gradient-nuclear magnetic resonance. Biotechnology and Bioengineering, 1998, 60, 283-291.	3.3	62
28	NMR methods for imaging of transport processes in micro-porous systems. Geoderma, 1997, 80, 389-403.	5.1	58
29	Controlled mixing of lanthanide(iii) ions in coacervate core micelles. Chemical Communications, 2013, 49, 3736.	4.1	57
30	Microscopic Displacement Imaging with Pulsed Field Gradient Turbo Spinâ€“Echo NMR. Journal of Magnetic Resonance, 2000, 142, 207-215.	2.1	56
31	Gas and liquid phase distribution and their effect on reactor performance in the monolith film flow reactor. Chemical Engineering Science, 2001, 56, 5935-5944.	3.8	55
32	Use of 1 H NMR to study transport processes in porous biosystems. Journal of Industrial Microbiology and Biotechnology, 2001, 26, 43-52.	3.0	53
33	Functional Imaging of Plants: A Nuclear Magnetic Resonance Study of a Cucumber Plant. Biophysical Journal, 2002, 82, 481-492.	0.5	53
34	Quantitative 1H-NMR imaging of water in white button mushrooms (Agaricus bisporus). Magnetic Resonance Imaging, 1997, 15, 113-121.	1.8	52
35	Gas and liquid distribution in the monolith film flow reactor. AICHE Journal, 2003, 49, 3007-3017.	3.6	51
36	Fineâ€scale measurement of diffusivity in a microbial mat with nuclear magnetic resonance imaging. Limnology and Oceanography, 2001, 46, 248-259.	3.1	50

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37	Noninvasive measurement of plant water flow by nuclear magnetic resonance. Biophysical Journal, 1984, 45, 469-472.	0.5	48
38	Dynamic NMR microscopy of chromatographic columns. AICHE Journal, 1998, 44, 1962-1975.	3.6	47
39	Water status and carbohydrate pools in tulip bulbs during dormancy release. New Phytologist, 2003, 158, 109-118.	7.3	47
40	A combined rheology and time domain NMR approach for determining water distributions in protein blends. Food Hydrocolloids, 2016, 60, 525-532.	10.7	47
41	Modelling of Self-diffusion and Relaxation Time NMR in Multicompartment Systems with Cylindrical Geometry. Journal of Magnetic Resonance, 2002, 156, 213-221.	2.1	46
42	Magnetic resonance imaging of single rice kernels during cooking. Journal of Magnetic Resonance, 2004, 171, 157-162.	2.1	46
43	NMR imaging of white button mushroom (Agaricus bisporis) at various magnetic fields. Magnetic Resonance Imaging, 1996, 14, 1205-1215.	1.8	44
44	Microscopic Imaging of Slow Flow and Diffusion: A Pulsed Field Gradient Stimulated Echo Sequence Combined with Turbo Spin Echo Imaging. Journal of Magnetic Resonance, 2001, 151, 94-100.	2.1	44
45	In situplant water balance studies using a portable NMR spectrometer. Journal of Experimental Botany, 1994, 45, 61-67.	4.8	43
46	Water-conducting properties of lipids during pollen hydration. Plant, Cell and Environment, 2002, 25, 513-519.	5.7	43
47	Developmental changes and water status in tulip bulbs during storage: visualization by NMR imaging. Journal of Experimental Botany, 2000, 51, 1277-1287.	4.8	42
48	Phase behavior of phosphatidylglycerol in spinach thylakoid membranes as revealed by 31P-NMR. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 997-1003.	2.6	42
49	The effect of rice kernel microstructure on cooking behaviour: A combined Î¼-CT and MRI study. Food Chemistry, 2009, 115, 1491-1499.	8.2	42
50	Lipid polymorphism in chloroplast thylakoid membranes â€“ as revealed by 31P-NMR and time-resolved merocyanine fluorescence spectroscopy. Scientific Reports, 2017, 7, 13343.	3.3	41
51	‹sup›1‹/sup›Hâ€NMR Study of the Impact of High Pressure and Thermal Processing on Cell Membrane Integrity of Onions. Journal of Food Science, 2010, 75, E417-25.	3.1	39
52	Proton NMR Relaxometry as a Useful Tool to Evaluate Swelling Processes in Peat Soils~!2009-07-26~!2009-12-04~!2010-06-15~!. The Open Magnetic Resonance Journal, 2010, 3, 27-45.	0.5	39
53	NMR Self-Diffusion Measurements in a Bounded System with Loss of Magnetization at the Walls. Journal of Magnetic Resonance Series A, 1993, 102, 318-326.	1.6	37
54	Evaluation of algorithms for analysis of NMR relaxation decay curves. Magnetic Resonance Imaging, 2000, 18, 1151-1158.	1.8	37

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55	The structural and hydration properties of heat-treated rice studied at multiple length scales. Food Chemistry, 2010, 120, 1031-1040.	8.2	37
56	Quantitative measurement and imaging of transport processes in plants and porous media by 1H NMR. Magnetic Resonance Imaging, 1992, 10, 827-836.	1.8	36
57	0.7 and 3 T MRI and Sap Flow in Intact Trees: Xylem and Phloem in Action. Applied Magnetic Resonance, 2007, 32, 157-170.	1.2	36
58	Macroscopic Heterogeneities in Electroosmotic and Pressure-Driven Flow through Fixed Beds at Low Column-to-Particle Diameter Ratio. Journal of Physical Chemistry B, 2001, 105, 8591-8599.	2.6	34
59	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
60	Phloem flow and sugar transport in <scp>R</scp>icinus communisâ€¦<scp>L</scp>. is inhibited under anoxic conditions of shoot or roots. Plant, Cell and Environment, 2015, 38, 433-447.	5.7	31
61	Anomalies in moisture transport during broccoli drying monitored by MRI?. Faraday Discussions, 2012, 158, 65.	3.2	30
62	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
63	Cell water balance of white button mushrooms (Agaricus bisporus) during its post-harvest lifetime studied by quantitative magnetic resonance imaging. Biochimica Et Biophysica Acta - General Subjects, 1999, 1427, 287-297.	2.4	29
64	Scaling Behavior of Dendritic Nanoparticle Mobility in Semidilute Polymer Solutions. Macromolecules, 2015, 48, 7585-7591.	4.8	29
65	Direct Observation of Fluid Mass Transfer Resistance in Porous Media by NMR Spectroscopy. Angewandte Chemie - International Edition, 1998, 37, 1882-1885.	13.8	28
66	Electroosmotic Flow Phenomena in Packed Capillaries:â€‰ From the Interstitial Velocities to Intraparticle and Boundary Layer Mass Transfer. Journal of Physical Chemistry B, 2002, 106, 12709-12721.	2.6	28
67	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
68	Mobility of Lipids in Low Moisture Bread as Studied by NMR. Journal of Cereal Science, 1998, 28, 147-155.	3.7	27
69	Water and glucose gradients in the substrate measured with NMR imaging during solid-state fermentation withAspergillus oryzae. Biotechnology and Bioengineering, 2002, 79, 653-663.	3.3	26
70	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
71	Yielding and flow of cellulose microfibril dispersions in the presence of a charged polymer. Soft Matter, 2016, 12, 4739-4744.	2.7	26
72	Pulse NMR of Casein Dispersions. Journal of Food Science, 1989, 54, 704-708.	3.1	25

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73	Flexible PFG NMR Desensitized for Susceptibility Artifacts, Using the PFG Multiple-Spin-Echo Sequence. Journal of Magnetic Resonance Series A, 1995, 112, 237-240.	1.6	25
74	Modeling of Self-Diffusion and Relaxation Time NMR in Multi-Compartment Systems. Journal of Magnetic Resonance, 1998, 135, 522-528.	2.1	25
75	Redox responsive molecular assemblies based on metallic coordination polymers. Soft Matter, 2010, 6, 3244.	2.7	25
76	Networks of micronized fat crystals grown under static conditions. Food and Function, 2018, 9, 2102-2111.	4.6	25
77	Water Balance inCucumisPlants, Measured by Nuclear Magnetic Resonance, I. Journal of Experimental Botany, 1988, 39, 1199-1210.	4.8	24
78	Electrokinetics in Fixed Beds: Experimental Demonstration of Electroosmotic Perfusion. Angewandte Chemie - International Edition, 2001, 40, 1684-1687.	13.8	24
79	Numerical simulation and measurement of liquid hold-up in biporous media containing discrete stagnant zones. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 521-534.	3.4	24
80	Diffusional Properties of Methanogenic Granular Sludge: 1 H NMR Characterization. Applied and Environmental Microbiology, 2003, 69, 6644-6649.	3.1	24
81	Solid-state 27Al MRI and NMR thermometry for catalytic applications with conventional (liquids) MRI instrumentation and techniques. Journal of Magnetic Resonance, 2005, 175, 21-29.	2.1	24
82	Quantitative permeability imaging of plant tissues. European Biophysics Journal, 2010, 39, 699-710.	2.2	23
83	Rehydration kinetics of freeze-dried carrots. Innovative Food Science and Emerging Technologies, 2014, 24, 40-47.	5.6	23
84	NMR Nanoparticle Diffusometry in Hydrogels: Enhancing Sensitivity and Selectivity. Analytical Chemistry, 2014, 86, 9229-9235.	6.5	23
85	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
86	Exploring in vitro gastric digestion of whey protein by time-domain nuclear magnetic resonance and magnetic resonance imaging. Food Hydrocolloids, 2020, 99, 105348.	10.7	23
87	Correlated displacementâ€“T2 MRI by means of a Pulsed Field Gradient-Multi Spin Echo method. Journal of Magnetic Resonance, 2007, 185, 230-239.	2.1	22
88	Effect of pH on Complex Coacervate Core Micelles from Fe(III)-Based Coordination Polymer. Langmuir, 2011, 27, 14776-14782.	3.5	22
89	Use of 1H NMR to study transport processes in sulfidogenic granular sludge. Water Science and Technology, 1997, 36, 157-163.	2.5	21
90	Effect of morphology on water sorption in cellular solid foods. Part II: Sorption in cereal crackers. Journal of Food Engineering, 2012, 109, 311-320.	5.2	21

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91	[1H]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
92	Real-time mapping of moisture migration in cereal based food systems with Aw contrast by means of MRI. Food Chemistry, 2008, 106, 1366-1374.	8.2	20
93	Multiphysics pore-scale model for the rehydration of porous foods. Innovative Food Science and Emerging Technologies, 2014, 24, 69-79.	5.6	20
94	Multi-component quantitative magnetic resonance imaging by phasor representation. Scientific Reports, 2017, 7, 861.	3.3	20
95	Water Balance inCucumisPlants, Measured by Nuclear Magnetic Resonance, II. Journal of Experimental Botany, 1988, 39, 1211-1220.	4.8	19
96	NMR IN HORTICULTURE: IN SITU PLANT WATER BALANCE STUDIES WITH NMR. Acta Horticulturae, 1992, , 103-112.	0.2	19
97	Potential of mechanical cleaning of membranes from a membrane bioreactor. Journal of Membrane Science, 2013, 429, 259-267.	8.2	19
98	Morphological and physiological responses of the potato stem transport tissues to dehydration stress. Planta, 2020, 251, 45.	3.2	19
99	Flow and transport studies in (non)consolidated porous (bio)systems consisting of solid or porous beads by PFG NMR. Magnetic Resonance Imaging, 1998, 16, 569-573.	1.8	17
100	Combined analysis of diffusion and relaxation behavior of water in apple parenchyma cells. Biophysics (Russian Federation), 2007, 52, 196-203.	0.7	17
101	3D biofilm visualization and quantification on granular bioanodes with magnetic resonance imaging. Water Research, 2019, 167, 115059.	11.3	17
102	ESR ST study of hydroxyl radical generation in wet peroxide system catalyzed by heterogeneous ruthenium. Chemosphere, 2009, 77, 148-150.	8.2	16
103	Impact of water degumming and enzymatic degumming on gum mesostructure formation in crude soybean oil. Food Chemistry, 2020, 311, 126017.	8.2	16
104	H nmr characterisation of the diffusional properties of methanogenic granular sludge. Water Science and Technology, 1999, 39, 187.	2.5	15
105	Complex Coacervate Core Micelles with Spectroscopic Labels for Diffusometric Probing of Biopolymer Networks. Langmuir, 2015, 31, 12635-12643.	3.5	15
106	1H NMR characterisation of the diffusional properties of methanogenic granular sludge. Water Science and Technology, 1999, 39, 187-194.	2.5	15
107	Displacement imaging in porous media using the line scan NMR technique. Geoderma, 1997, 80, 405-416.	5.1	14
108	Mass transfer in chromatographic columns studied by PFG NMR. Magnetic Resonance Imaging, 1998, 16, 699-702.	1.8	13

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109	Influence of wheat type and pretreatment on fungal growth in solid-state fermentation. Biotechnology Letters, 2001, 23, 1183-1187.	2.2	13
110	Magnetic resonance microscopy of iron transport in methanogenic granules. Journal of Magnetic Resonance, 2009, 200, 303-312.	2.1	13
111	Combination of Neural Networks and DFT Calculations for the Comprehensive Analysis of FDMPO Radical Adducts from Fast Isotropic Electron Spin Resonance Spectra. Journal of Physical Chemistry A, 2012, 116, 443-451.	2.5	13
112	Magnetic Resonance Microscopy at Cellular Resolution and Localised Spectroscopy of Medicago truncatula at 22.3 Tesla. Scientific Reports, 2020, 10, 971.	3.3	13
113	Membrane chemical stability and seed longevity. European Biophysics Journal, 2010, 39, 657-668.	2.2	12
114	The impact of metal transport processes on bioavailability of free and complex metal ions in methanogenic granular sludge. Water Science and Technology, 2012, 65, 1875-1881.	2.5	12
115	A method for the simultaneous measurement of NMR spin-lattice and spin-spin relaxation times in compartmentalized systems. Journal of Magnetic Resonance, 1992, 99, 139-148.	0.5	11
116	Spatially resolved transport properties in radially compressed bead packings studied by PFG NMR. Magnetic Resonance Imaging, 1998, 16, 703-706.	1.8	11
117	Using NMR displacement imaging to characterize electroosmotic flow in porous media. Magnetic Resonance Imaging, 2001, 19, 453-456.	1.8	11
118	Selective oilâ€phase rheoâ€MRI velocity profiles to monitor heterogeneous flow behavior of oil/water food emulsions. Magnetic Resonance in Chemistry, 2019, 57, 766-770.	1.9	11
119	Magnetization transfer and double-quantum filtered imaging as probes for motional restricted water in tulip bulbs. Magnetic Resonance Imaging, 2001, 19, 857-865.	1.8	10
120	Iron, Cobalt, and Gadolinium Transport in Methanogenic Granules Measured by 3D Magnetic Resonance Imaging. Frontiers in Environmental Science, 2016, 4, .	3.3	10
121	Unravelling of the water-binding capacity of cold-gelated whey protein microparticles. Food Hydrocolloids, 2017, 63, 533-544.	10.7	10
122	Heterogeneity of Network Structures and Water Dynamics in Î¹-Carrageenan Gels Probed by Nanoparticle Diffusometry. Langmuir, 2018, 34, 11110-11120.	3.5	10
123	Magnetic resonance imaging suggests functional role of previous year vessels and fibres in ring-porous sap flow resumption. Tree Physiology, 2019, 39, 1009-1018.	3.1	10
124	Characterizing the structure of aerobic granular sludge using ultra-high field magnetic resonance. Water Science and Technology, 2020, 82, 627-639.	2.5	10
125	PROCESSES AND XYLEM ANATOMICAL PROPERTIES INVOLVED IN REHYDRATION DYNAMICS OF CUT FLOWERS. Acta Horticulturae, 2001, , 199-205.	0.2	9
126	Flow characteristics and exchange in complex biological systems as observed by pulsed-field-gradient magnetic-resonance imaging. Physical Review E, 2010, 82, 026310.	2.1	9

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127	Visualization of the stem water content of two genera with secondary phloem produced by successive cambia through Magnetic Resonance Imaging (MRI). The Journal of Plant Hydraulics, 0, 1, e006.	1.0	9
128	Use of h nmr to study transport processes in sulfidogenic granular sludge. Water Science and Technology, 1997, 36, 157.	2.5	8
129	Manipulation of Recrystallization and Network Formation of Oil-Dispersed Micronized Fat Crystals. Langmuir, 2019, 35, 2221-2229.	3.5	8
130	High Field MicroMRI Velocimetric Measurement of Quantitative Local Flow Curves. Analytical Chemistry, 2020, 92, 4193-4200.	6.5	8
131	Use of (1)H NMR to study transport processes in porous biosystems. Journal of Industrial Microbiology and Biotechnology, 2001, 26, 43-52.	3.0	6
132	Developmental changes and water status in tulip bulbs during storage: visualization by NMR imaging. Journal of Experimental Botany, 2000, 51, 1277-1287.	4.8	5
133	Assessing spatial resolution, acquisition time and signal-to-noise ratio for commercial microimaging systems at 14.1, 17.6 and 22.3ÂT. Journal of Magnetic Resonance, 2020, 316, 106770.	2.1	5
134	Magnetic Resonance Imaging of Plants: Water Balance and Water Transport in Relation to Photosynthetic Activity. Advances in Photosynthesis and Respiration, 2008, , 55-75.	1.0	5
135	Localized real time blood flow measurements. Archives Internationales De Physiologie Et De Biochimie, 1985, 93, 87-95.	0.2	4
136	Measurement of flow by the NMR repetitive pulse method. Journal of Magnetic Resonance, 1987, 74, 526-534.	0.5	4
137	Visualising the Water Flow in a Breathing Carp Using NMRi. Animal Biology, 1994, 45, 338-346.	0.4	4
138	A novel NMR method for spatially resolved flow measurements. Journal of Magnetic Resonance, 1985, 62, 511-517.	0.5	3
139	Fast Spatially Resolved Displacement Imaging in (Bio) Systems. , 0, , 481-486.		3
140	Ionic interaction and liquid absorption by wood in lignocellulose inorganic mineral binder composites. Journal of Cleaner Production, 2019, 206, 808-818.	9.3	3
141	NMR Imaging of Air Spaces and Metabolites in Fruit and Vegetables. , 2018, , 1765-1779.		3
142	Discrimination of different types of motion by modified stimulated-echo NMR. Journal of Magnetic Resonance, 1990, 87, 132-140.	0.5	2
143	Comparison of xylem flow velocities determined by MRI and a non-invasive heat pulse technique in Golden Alder and Silver Birch. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, S65-S66.	1.8	2
144	MRI of Water Transport in the Soilâ€“Plantâ€“Atmosphere Continuum. , 0, , 315-330.		2

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145	19F Labelled Polyion Micelles as Diffusional Nanoprobes. Special Publication - Royal Society of Chemistry, 2015, , 109-119.	0.0	2
146	STEM SAP FLOW, MEASURED USING PROTON NUCLEAR MAGNETIC RESONANCE, IN COMPARISON WITH TRANSPIRATION AND WATER UPTAKE OF CUCUMBER IN A GREENHOUSE CLIMATE. Acta Horticulturae, 1992, , 237-244.	0.2	2
147	Plant Growth Studies Using Low Field NMR. , 0, , 473-479.		1
148	Translational dynamics of water in the cytoplasm of parenchymal cells of Malus domestica fruit: A pulsed NMR approach. Doklady Biological Sciences, 2006, 411, 488-490.	0.6	1
149	Noninvasive Assessment of Moisture Migration in Food Products by MRI. , 0, , 331-351.		1
150	The Effect of Structure and Imbibition Mode on the Rehydration Kinetics of Freeze-dried Carrots. Special Publication - Royal Society of Chemistry, 2013, , 112-121.	0.0	1
151	MRM Microcoil Performance Calibration and Usage Demonstrated on Medicago truncatula Roots at 22 T. Journal of Visualized Experiments, 2021, , .	0.3	1
152	The Impact of Freeze-Drying on Microstructure and Hydration Properties of Carrot. Special Publication - Royal Society of Chemistry, 2011, , 71-79.	0.0	1
153	Monitoring of xylem sap flow in trees by a non-intrusive, laser-based heat tracing technique and comparison with MRI flow imaging. , 2007, , .		0
154	NMR Imaging of Air Spaces and Metabolites in Fruit and Vegetables. , 2018, , 1-15.		0
155	Direct evidence of stress-induced chain proximity in a macromolecular complex. Physical Review Materials, 2020, 4, .	2.4	0