

# Daniel Topgaard

## List of Publications by Year in descending order

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142  
papers

6,040  
citations

57758

44  
h-index

91884

69  
g-index

145  
all docs

145  
docs citations

145  
times ranked

5124  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Q-space trajectory imaging for multidimensional diffusion MRI of the human brain. <i>NeuroImage</i> , 2016, 135, 345-362.  | 4.2 | 256       |
| 2  | Quantification of microscopic diffusion anisotropy disentangles effects of orientation dispersion from microstructure: Applications in healthy volunteers and in brain tumors. <i>NeuroImage</i> , 2015, 104, 241-252. | 4.2 | 216       |
| 3  | Multidimensional diffusion MRI. <i>Journal of Magnetic Resonance</i> , 2017, 275, 98-113.  | 2.1 | 173       |
| 4  | Cholesterol and POPC segmental order parameters in lipid membranes: solid state $^{13}\text{C}$ NMR and MD simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1976-1989.                       | 2.8 | 167       |
| 5  | Microanisotropy imaging: quantification of microscopic diffusion anisotropy and orientational order parameter by diffusion MRI with magic-angle spinning of the q-vector. <i>Frontiers in Physics</i> , 2014, 2, .     | 2.1 | 163       |
| 6  | Conventions and nomenclature for double diffusion encoding NMR and MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 82-87.   | 3.0 | 154       |
| 7  | Chemical penetration enhancers in stratum corneum – Relation between molecular effects and barrier function. <i>Journal of Controlled Release</i> , 2016, 232, 175-187.  | 9.9 | 144       |
| 8  | Noninvasive mapping of water diffusional exchange in the human brain using filter-exchange imaging. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1572-1580.   | 3.0 | 142       |
| 9  | Diffusion of Water Absorbed in Cellulose Fibers Studied with $^1\text{H}$ -NMR. <i>Langmuir</i> , 2001, 17, 2694-2702.   | 3.5 | 132       |
| 10 | Isotropic diffusion weighting in PGSE NMR by magic-angle spinning of the q-vector. <i>Journal of Magnetic Resonance</i> , 2013, 226, 13-18.  | 2.1 | 128       |
| 11 | Resolution limit of cylinder diameter estimation by diffusion MRI: The impact of gradient waveform and orientation dispersion. <i>NMR in Biomedicine</i> , 2017, 30, e3711.  | 2.8 | 116       |
| 12 | Membrane Lipid Co-Aggregation with $\beta$ -Synuclein Fibrils. <i>PLoS ONE</i> , 2013, 8, e77235.  | 2.5 | 113       |
| 13 | Constrained optimization of gradient waveforms for generalized diffusion encoding. <i>Journal of Magnetic Resonance</i> , 2015, 261, 157-168.  | 2.1 | 106       |
| 14 | Apparent exchange rate mapping with diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 356-365.  | 3.0 | 102       |
| 15 | Stratum corneum hydration: Phase transformations and mobility in stratum corneum, extracted lipids and isolated corneocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2647-2659.              | 2.6 | 100       |
| 16 | Filter-exchange PGSE NMR determination of cell membrane permeability. <i>Journal of Magnetic Resonance</i> , 2009, 200, 291-295.   | 2.1 | 93        |
| 17 | Skin hydration: interplay between molecular dynamics, structure and water uptake in the stratum corneum. <i>Scientific Reports</i> , 2017, 7, 15712.   | 3.3 | 88        |
| 18 | Polarization Transfer Solid-State NMR for Studying Surfactant Phase Behavior. <i>Langmuir</i> , 2010, 26, 16848-16856.   | 3.5 | 85        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Modulating the Porosity of Cryogels by Influencing the Nonfrozen Liquid Phase through the Addition of Inert Solutes. <i>Langmuir</i> , 2010, 26, 16129-16133.  | 3.5 | 82        |
| 20 | NMR diffusion and relaxation correlation methods: New insights in heterogeneous materials. <i>Current Opinion in Colloid and Interface Science</i> , 2013, 18, 166-172.  | 7.4 | 78        |
| 21 | Signal intensities in $^1\text{H}$ - $^{13}\text{C}$ CP and INEPT MAS NMR of liquid crystals. <i>Journal of Magnetic Resonance</i> , 2013, 230, 165-175.   | 2.1 | 78        |
| 22 | Self-diffusion in polymer systems studied by magnetic field-gradient spin-echo NMR methods. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2010, 56, 406-425.  | 7.5 | 76        |
| 23 | The gamma distribution model for pulsed-field gradient NMR studies of molecular-weight distributions of polymers. <i>Journal of Magnetic Resonance</i> , 2012, 222, 105-111.   | 2.1 | 72        |
| 24 | Quantification of microcirculatory parameters by joint analysis of flow-compensated and non-flow-compensated intravoxel incoherent motion (IVIM) data. <i>NMR in Biomedicine</i> , 2016, 29, 640-649.                                      | 2.8 | 72        |
| 25 | Surfactant/Nonionic Polymer Interaction. A NMR Diffusometry and NMR Electrophoretic Investigation. <i>Langmuir</i> , 2004, 20, 1138-1143.  | 3.5 | 70        |
| 26 | NMR diffusion-encoding with axial symmetry and variable anisotropy: Distinguishing between prolate and oblate microscopic diffusion tensors with unknown orientation distribution. <i>Journal of Chemical Physics</i> , 2015, 142, 104201. | 3.0 | 70        |
| 27 | Skin Membrane Electrical Impedance Properties under the Influence of a Varying Water Gradient. <i>Biophysical Journal</i> , 2013, 104, 2639-2650.  | 0.5 | 68        |
| 28 | Extraordinarily Efficient Conduction in a Redox-Active Ionic Liquid. <i>ChemPhysChem</i> , 2011, 12, 145-149.  | 2.1 | 65        |
| 29 | Small polar molecules like glycerol and urea can preserve the fluidity of lipid bilayers under dry conditions. <i>Soft Matter</i> , 2012, 8, 1482-1491.  | 2.7 | 64        |
| 30 | Characterization of Stratum Corneum Molecular Dynamics by Natural-Abundance $^{13}\text{C}$ Solid-State NMR. <i>PLoS ONE</i> , 2013, 8, e61889.  | 2.5 | 64        |
| 31 | Dissolution state of cellulose in aqueous systems. 1. Alkaline solvents. <i>Cellulose</i> , 2016, 23, 247-258.   | 4.9 | 64        |
| 32 | Title is missing!. <i>Cellulose</i> , 2002, 9, 139-147.  | 4.9 | 63        |
| 33 | "Shim pulses" for NMR spectroscopy and imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17576-17581.   | 7.1 | 61        |
| 34 | Two-Dimensional Correlation of Isotropic and Directional Diffusion Using NMR. <i>Physical Review Letters</i> , 2016, 116, 087601.  | 7.8 | 60        |
| 35 | Spontaneous Vesicle Formation in a Block Copolymer System. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9710-9719.  | 2.6 | 59        |
| 36 | Multidimensional diffusion MRI with spectrally modulated gradients reveals unprecedented microstructural detail. <i>Scientific Reports</i> , 2019, 9, 9026.  | 3.3 | 58        |

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|----|---|------|-----------|
| 37 | Mechanism of Cryopolymerization: Diffusion-Controlled Polymerization in a Nonfrozen Microphase. An NMR Study. <i>Macromolecules</i> , 2009, 42, 5208-5214.  | 4.8  | 57        |
| 38 | Disentangling white-matter damage from physiological fibre orientation dispersion in multiple sclerosis. <i>Brain Communications</i> , 2020, 2, fcaa077.  | 3.3  | 55        |
| 39 | Measurement Tensors in Diffusion MRI: Generalizing the Concept of Diffusion Encoding. <i>Lecture Notes in Computer Science</i> , 2014, 17, 209-216.   | 1.3  | 55        |
| 40 | Restricted Self-Diffusion of Water in a Highly Concentrated W/O Emulsion Studied Using Modulated Gradient Spin-Echo NMR. <i>Journal of Magnetic Resonance</i> , 2002, 156, 195-201.                           | 2.1  | 53        |
| 41 | Multidimensional correlation of nuclear relaxation rates and diffusion tensors for model-free investigations of heterogeneous anisotropic porous materials. <i>Scientific Reports</i> , 2018, 8, 2488.        | 3.3  | 53        |
| 42 | Stratum corneum molecular mobility in the presence of natural moisturizers. <i>Soft Matter</i> , 2014, 10, 4535-4546.   | 2.7  | 49        |
| 43 | Determination of the self-diffusion coefficient of intracellular water using PGSE NMR with variable gradient pulse length. <i>Journal of Magnetic Resonance</i> , 2009, 201, 250-254.                         | 2.1  | 48        |
| 44 | Self-Diffusion in Two- and Three-Dimensional Powders of Anisotropic Domains: An NMR Study of the Diffusion of Water in Cellulose and Starch. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11887-11892. | 2.6  | 46        |
| 45 | <sup>1</sup> H NMR Diffusometry Study of Water in Casein Dispersions and Gels. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 4295-4302.   | 5.2  | 46        |
| 46 | Experimental determination of pore shape and size using q-space NMR microscopy in the long diffusion-time limit. <i>Magnetic Resonance Imaging</i> , 2003, 21, 69-76.   | 1.8  | 46        |
| 47 | Aggregation in a Protein-Surfactant System. The Interplay between Hydrophobic and Electrostatic Interactions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7987-7992.                                  | 2.6  | 46        |
| 48 | Dynamic and structural aspects of PEGylated liposomes monitored by NMR. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 485-493.   | 9.4  | 46        |
| 49 | Influence of Polydispersity on the Micellization of Triblock Copolymers Investigated by Pulsed Field Gradient Nuclear Magnetic Resonance. <i>Macromolecules</i> , 2007, 40, 8250-8258.                        | 4.8  | 44        |
| 50 | Changes in pore morphology and fluid transport in compressed articular cartilage and the implications for joint lubrication. <i>Biomaterials</i> , 2008, 29, 4455-4462.                                       | 11.4 | 44        |
| 51 | Dissolution state of cellulose in aqueous systems. 2. Acidic solvents. <i>Carbohydrate Polymers</i> , 2016, 151, 707-715.   | 10.2 | 43        |
| 52 | Lipid Dynamics and Phase Transition within $\beta$ -Synuclein Amyloid Fibrils. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7872-7877.  | 4.6  | 43        |
| 53 | Self-Diffusion of Nonfreezing Water in Porous Carbohydrate Polymer Systems Studied with Nuclear Magnetic Resonance. <i>Biophysical Journal</i> , 2002, 83, 3596-3606.   | 0.5  | 41        |
| 54 | Anisotropic dynamic changes in the pore network structure, fluid diffusion and fluid flow in articular cartilage under compression. <i>Biomaterials</i> , 2010, 31, 3117-3128.                                | 11.4 | 40        |

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|----|---|------|-----------|
| 55 | Nanostructured Lipid-Based Films for Substrate-Mediated Applications in Biotechnology. <i>Advanced Functional Materials</i> , 2018, 28, 1704356.  | 14.9 | 40        |
| 56 | Accuracy of $q$ -Space Related Parameters in MRI: Simulations and Phantom Measurements. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1437-1447.  | 8.9  | 39        |
| 57 | Gelled Polymerizable Microemulsions. 2. Microstructure. <i>Langmuir</i> , 2008, 24, 8473-8482.  | 3.5  | 38        |
| 58 | Tracking solvents in the skin through atomically resolved measurements of molecular mobility in intact stratum corneum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E112-E121.          | 7.1  | 37        |
| 59 | NMR quantification of diffusional exchange in cell suspensions with relaxation rate differences between intra and extracellular compartments. <i>PLoS ONE</i> , 2017, 12, e0177273.   | 2.5  | 37        |
| 60 | Apparent exchange rate for breast cancer characterization. <i>NMR in Biomedicine</i> , 2016, 29, 631-639.   | 2.8  | 36        |
| 61 | Diffusion tensor distribution imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4066.   | 2.8  | 35        |
| 62 | Computing and visualising intra-voxel orientation-specific relaxation-diffusion features in the human brain. <i>Human Brain Mapping</i> , 2021, 42, 310-328.  | 3.6  | 35        |
| 63 | Molecular Self-Diffusion in Micellar and Discrete Cubic Phases of an Ionic Surfactant with Mixed Monovalent/Polymeric Counterions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13241-13250.   | 2.6  | 34        |
| 64 | NMR diffusometry and the short gradient pulse limit approximation. <i>Journal of Magnetic Resonance</i> , 2004, 169, 85-91.   | 2.1  | 34        |
| 65 | Local and translational dynamics in DNA-lipid assemblies monitored by solid-state and diffusion NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 214-228.   | 2.6  | 33        |
| 66 | In situ $^1\text{H}$ NMR studies of free radical cryopolymerization. <i>Polymer</i> , 2008, 49, 3855-3858.  | 3.8  | 32        |
| 67 | New Insights on the Role of Urea on the Dissolution and Thermally-Induced Gelation of Cellulose in Aqueous Alkali. <i>Gels</i> , 2018, 4, 87.   | 4.5  | 29        |
| 68 | Is the Wall of a Cellulose Fiber Saturated with Liquid Whether or Not Permeable with $\text{CO}_2$ Dissolved Molecules? Application to Bubble Nucleation in Champagne Wines. <i>Langmuir</i> , 2004, 20, 4132-4138.                             | 3.5  | 28        |
| 69 | Mapping the intracellular fraction of water by varying the gradient pulse length in $q$ -space diffusion MRI. <i>Journal of Magnetic Resonance</i> , 2006, 180, 280-285.  | 2.1  | 28        |
| 70 | Isotropic diffusion weighting in PGSE NMR: Numerical optimization of the $q$ -MAS PGSE sequence. <i>Microporous and Mesoporous Materials</i> , 2013, 178, 60-63.  | 4.4  | 28        |
| 71 | Segmental order parameters in a nonionic surfactant lamellar phase studied with $^1\text{H}$ - $^{13}\text{C}$ solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6033.  | 2.8  | 27        |
| 72 | Model-free estimation of the effective correlation time for $\text{C-H}$ bond reorientation in amphiphilic bilayers: $^1\text{H}$ - $^{13}\text{C}$ solid-state NMR and MD simulations. <i>Journal of Chemical Physics</i> , 2015, 142, 044905. | 3.0  | 27        |

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|----|--|-----|-----------|
| 73 | Diffusion NMR for Determining the Homogeneous Length-Scale in Lamellar Phases. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2782-2794.  | 2.6 | 26        |
| 74 | Cyclic and Linear Monoterpenes in Phospholipid Membranes: Phase Behavior, Bilayer Structure, and Molecular Dynamics. <i>Langmuir</i> , 2015, 31, 11067-11077.  | 3.5 | 26        |
| 75 | Accuracy and precision of statistical descriptors obtained from multidimensional diffusion signal inversion algorithms. <i>NMR in Biomedicine</i> , 2020, 33, e4267.                                   | 2.8 | 25        |
| 76 | Bran Particle Size Influence on Pasta Microstructure, Water Distribution, and Sensory Properties. <i>Cereal Chemistry</i> , 2015, 92, 617-623.   | 2.2 | 24        |
| 77 | Director orientations in lyotropic liquid crystals: diffusion MRI mapping of the Saupe order tensor. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8545-8553.                                 | 2.8 | 23        |
| 78 | Multi-scale characterization of pasta during cooking using microscopy and real-time magnetic resonance imaging. <i>Food Research International</i> , 2014, 66, 132-139.                                | 6.2 | 22        |
| 79 | Acyl Chain Disorder and Azelaoyl Orientation in Lipid Membranes Containing Oxidized Lipids. <i>Langmuir</i> , 2016, 32, 6524-6533.   | 3.5 | 22        |
| 80 | Toward nonparametric diffusion $\epsilon$ -characterization of crossing fibers in the human brain. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2815-2827.  | 3.0 | 22        |
| 81 | Extraction of natural moisturizing factor from the stratum corneum and its implication on skin molecular mobility. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 480-491.               | 9.4 | 22        |
| 82 | Transferring principles of solid-state and Laplace NMR to the field of in vivo brain MRI. <i>Magnetic Resonance</i> , 2020, 1, 27-43.  | 1.9 | 22        |
| 83 | Diffusion in an inhomogeneous system: NMR studies of diffusion in highly concentrated emulsions. <i>Journal of Colloid and Interface Science</i> , 2003, 263, 270-276.                                 | 9.4 | 21        |
| 84 | NMR Studies of Nonionic Surfactants. <i>Annual Reports on NMR Spectroscopy</i> , 2013, 79, 73-127.   | 1.5 | 21        |
| 85 | Multidimensional Diffusion Magnetic Resonance Imaging for Characterization of Tissue Microstructure in Breast Cancer Patients: A Prospective Pilot Study. <i>Cancers</i> , 2021, 13, 1606.             | 3.7 | 20        |
| 86 | NMR Studies of Molecular Mobility in a DNA $\hat{\wedge}$ Amphiphile Complex. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15392-15397.   | 2.6 | 19        |
| 87 | Molecular Conformation and Bilayer Pores in a Nonionic Surfactant Lamellar Phase Studied with $^{13}\text{C}$ Solid-State NMR and Molecular Dynamics Simulations. <i>Langmuir</i> , 2014, 30, 461-469. | 3.5 | 19        |
| 88 | Polarization transfer solid-state NMR: a new method for studying cellulose dissolution. <i>RSC Advances</i> , 2014, 4, 31836-31839.  | 3.6 | 19        |
| 89 | Diffusion tensor distribution imaging of an in vivo mouse brain at ultrahigh magnetic field by spatiotemporal encoding. <i>NMR in Biomedicine</i> , 2020, 33, e4355.                                   | 2.8 | 19        |
| 90 | Microstructure and water distribution of commercial pasta studied by microscopy and 3D magnetic resonance imaging. <i>Food Research International</i> , 2014, 62, 644-652.                             | 6.2 | 18        |

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|-----|---|------|-----------|
| 91  | Liquid crystal phantom for validation of microscopic diffusion anisotropy measurements on clinical MRI systems. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1817-1828.  | 3.0  | 18        |
| 92  | The KÄrger vs bi-exponential model: Theoretical insights and experimental validations. <i>Journal of Magnetic Resonance</i> , 2018, 296, 72-78.   | 2.1  | 18        |
| 93  | Solid and fluid segments within the same molecule of stratum corneum ceramide lipid. <i>Quarterly Reviews of Biophysics</i> , 2018, 51, e7.   | 5.7  | 18        |
| 94  | Mucoadhesion: mucin-polymer molecular interactions. <i>International Journal of Pharmaceutics</i> , 2021, 610, 121245.  | 5.2  | 18        |
| 95  | NMR spectroscopy in inhomogeneous B0 and B1 fields with non-linear correlation. <i>Journal of Magnetic Resonance</i> , 2005, 175, 1-10.   | 2.1  | 17        |
| 96  | Spectral characterization of diffusion with chemical shift resolution: Highly concentrated water-in-oil emulsion. <i>Journal of Magnetic Resonance</i> , 2009, 199, 166-172.  | 2.1  | 17        |
| 97  | Conduction Through Viscoelastic Phase in a Redox-Active Ionic Liquid at Reduced Temperatures. <i>Advanced Materials</i> , 2012, 24, 781-784.  | 21.0 | 17        |
| 98  | Using NMR Chemical Shift Imaging To Monitor Swelling and Molecular Transport in Drug-Loaded Tablets of Hydrophobically Modified Poly(acrylic acid): Methodology and Effects of Polymer (In)solubility. <i>Langmuir</i> , 2013, 29, 13898-13908. | 3.5  | 17        |
| 99  | Quantification of the Intracellular Life Time of Water Molecules to Measure Transport Rates of Human Aquaglyceroporins. <i>Journal of Membrane Biology</i> , 2017, 250, 629-639.  | 2.1  | 17        |
| 100 | Amphiphilic Polymer Gel Electrolytes. 4. Ion Transport and Dynamics As Studied by Multinuclear Pulsed Field Gradient Spin-Echo NMR. <i>Macromolecules</i> , 2002, 35, 5097-5104.  | 4.8  | 16        |
| 101 | Chemical shift imaging of molecular transport in colloidal systems: Visualization and quantification of diffusion processes. <i>Journal of Colloid and Interface Science</i> , 2007, 308, 542-550.  | 9.4  | 16        |
| 102 | NMR Study of the Sorption Behavior of Benzyl Alcohol Derivatives into Sonicated and Extruded Dioctadecyldimethylammonium Chloride (DODAC) Dispersions: The Relevance of Membrane Fluidity. <i>Langmuir</i> , 2008, 24, 3082-3089.               | 3.5  | 16        |
| 103 | NMR diffusometry applied to liquids. <i>Journal of Molecular Liquids</i> , 2010, 156, 38-44.  | 4.9  | 14        |
| 104 | Hyaluronic acid-collagen network interactions during the dynamic compression and recovery of cartilage. <i>Soft Matter</i> , 2012, 8, 9906.   | 2.7  | 14        |
| 105 | Isotropic diffusion weighting using a triple-stimulated echo pulse sequence with bipolar gradient pulse pairs. <i>Microporous and Mesoporous Materials</i> , 2015, 205, 48-51.  | 4.4  | 14        |
| 106 | Nonparametric D-R1-R2 distribution MRI of the living human brain. <i>NeuroImage</i> , 2021, 245, 118753.  | 4.2  | 14        |
| 107 | Lamellar phase separation in a centrifugal field. A method for measuring interbilayer forces. <i>Soft Matter</i> , 2010, 6, 4520.   | 2.7  | 13        |
| 108 | Homogeneous length scale of shear-induced multilamellar vesicles studied by diffusion NMR. <i>Journal of Magnetic Resonance</i> , 2011, 209, 291-299.   | 2.1  | 13        |

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|-----|---|------|-----------|
| 109 | Biophysical study of resin acid effects on phospholipid membrane structure and properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2827-2838.                                     | 2.6  | 13        |
| 110 | Glioma grading, molecular feature classification, and microstructural characterization using MR diffusional variance decomposition (DIVIDE) imaging. <i>European Radiology</i> , 2021, 31, 8197-8207.       | 4.5  | 12        |
| 111 | Structure of Lung-Mimetic Multilamellar Bodies with Lipid Compositions Relevant in Pneumonia. <i>Langmuir</i> , 2018, 34, 7561-7574.  | 3.5  | 11        |
| 112 | Quantification of the amount of mobile components in intact stratum corneum with natural-abundance <sup>13</sup> C solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6572-6583.       | 2.8  | 11        |
| 113 | Multi-Scale Characterization of Lyotropic Liquid Crystals Using <sup>2</sup> H and Diffusion MRI with Spatial Resolution in Three Dimensions. <i>PLoS ONE</i> , 2014, 9, e98752.                            | 2.5  | 11        |
| 114 | Probing biological tissue microstructure with magnetic resonance diffusion techniques. <i>Current Opinion in Colloid and Interface Science</i> , 2006, 11, 7-12.  | 7.4  | 10        |
| 115 | Effects of imaging gradients in sequences with varying longitudinal storage time – Case of diffusion exchange imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2228-2235.                         | 3.0  | 10        |
| 116 | Multiple dimensions for random walks. <i>Journal of Magnetic Resonance</i> , 2019, 306, 150-154.  | 2.1  | 10        |
| 117 | Revisiting the dissolution of cellulose in H <sub>3</sub> PO <sub>4</sub> (aq) through cryo-TEM, PTsNMR and DWS. <i>Carbohydrate Polymers</i> , 2021, 252, 117122.  | 10.2 | 10        |
| 118 | Self-diffusion measurements with chemical shift resolution in inhomogeneous magnetic fields. <i>Journal of Magnetic Resonance</i> , 2004, 168, 31-35.   | 2.1  | 9         |
| 119 | Microemulsions of Record Low Amphiphile Concentrations Are Affected by the Ambient Gravitational Field. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6074-6079.                                      | 2.6  | 9         |
| 120 | A NMR self-diffusion study of the porous structure of starch granules. , 2002, , 47-51.   |      | 9         |
| 121 | Chapter 7. NMR Methods for Studying Microscopic Diffusion Anisotropy. <i>New Developments in NMR</i> , 2016, , 226-259.   | 0.1  | 9         |
| 122 | Effects of Added Surfactant on Swelling and Molecular Transport in Drug-Loaded Tablets Based on Hydrophobically Modified Poly(acrylic acid). <i>Journal of Physical Chemistry B</i> , 2014, 118, 9757-9767. | 2.6  | 7         |
| 123 | Kinetic Influence of Siliceous Reactions on Structure Formation of Mesoporous Silica Formed via the Co-Structure Directing Agent Route. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3814-3821.      | 3.1  | 7         |
| 124 | Liquid crystalline properties and extractability of monoolein/water systems by supercritical carbon dioxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 213, 69-78.    | 4.7  | 6         |
| 125 | In Situ X-ray Polymerization: From Swollen Lamellae to Polymer-Surfactant Complexes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1159-1167.   | 2.6  | 6         |
| 126 | Massively Multidimensional Diffusion-Relaxation Correlation MRI. <i>Frontiers in Physics</i> , 2022, 9, .   | 2.1  | 6         |



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|-----|--|-----|-----------|
| 127 | In situ <sup>13</sup> C solid-state polarization transfer NMR to follow starch transformations in food. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 671-677.  | 1.9 | 6         |
| 128 | Investigations of vesicle gels by pulsed and modulated gradient NMR diffusion techniques. <i>Soft Matter</i> , 2011, 7, 3947.  | 2.7 | 5         |
| 129 | Skin hydration as a tool to control the distribution and molecular effects of intermediate polarity compounds in intact stratum corneum. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 874-885. | 9.4 | 5         |
| 130 | Phase behavior of the system lecithin-water. <i>Journal of Supercritical Fluids</i> , 2004, 31, 255-262.   | 3.2 | 4         |
| 131 | Electrostatic interactions are important for the distribution of Gd(DTPA) <sup>2+</sup> in articular cartilage. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 500-509.                                     | 3.0 | 4         |
| 132 | Stray-field NMR diffusion q-space diffraction imaging of monodisperse coarsening foams. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 20-28.  | 9.4 | 4         |
| 133 | Spherical Micelles with Nonspherical Cores: Effect of Chain Packing on the Micellar Shape. <i>Macromolecules</i> , 2020, 53, 10686-10698.  | 4.8 | 4         |
| 134 | Molecular Assembly in Block Copolymer-Surfactant Nanoparticle Dispersions: Information on Molecular Exchange and Apparent Solubility from High-Resolution and PFG NMR. <i>Polymers</i> , 2021, 13, 3265.       | 4.5 | 4         |
| 135 | Kinetics of the grating formation in holographic polymer-dispersed liquid crystals: NMR measurement of diffusion coefficients. <i>Colloid and Polymer Science</i> , 2012, 290, 751-755.                        | 2.1 | 3         |
| 136 | Diffusion damping during adiabatic z-rotation pulses for NMR spectroscopy in inhomogeneous magnetic fields. <i>Journal of Chemical Physics</i> , 2006, 125, 044503.  | 3.0 | 2         |
| 137 | Phase behavior of the monoolein-water system. <i>Journal of Supercritical Fluids</i> , 2004, 31, 263-271.  | 3.2 | 1         |
| 138 | Molecular Exchange between Intra- and Extracellular Compartments in a Cell Suspension. , 2008, , .   |     | 1         |
| 139 | Intermolecular interactions play a role in the distribution and transport of charged contrast agents in a cartilage model. <i>PLoS ONE</i> , 2019, 14, e0215047.   | 2.5 | 0         |
| 140 | Porous Structure of Cellulose Fiber Walls Studied with NMR Diffusometry. , 2002, , 631-635.  |     | 0         |
| 141 | CHAPTER 14. Diffusion MRI and Poroelastic Biomechanics of Articular Cartilage. <i>New Developments in NMR</i> , 0, , 373-394.  | 0.1 | 0         |
| 142 | Nonparametric 5D D-R2 distribution imaging with single-shot EPI at 21.1T: Initial results for in vivo rat brain. <i>Journal of Magnetic Resonance</i> , 2022, 341, 107256.                                     | 2.1 | 0         |