# Huub Jm De Groot

## List of Publications by Citations



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|---|---|---|---|
| 226 papers | 7,726 citations | 45 h-index | 76 g-index |
| 231 ext. papers | 8,202 ext. citations | 5.6 avg, IF | 5.68 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 226 | Backbone and side-chain 13C and 15N signal assignments of the alpha-spectrin SH3 domain by magic angle spinning solid-state NMR at 17.6 Tesla. *ChemBioChem*, **2001**, 2, 272-81 | 3.8 | 279 |
| 225 | Alternating syn-anti bacteriochlorophylls form concentric helical nanotubes in chlorosomes. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 8525-30 | 11.5 | 253 |
| 224 | Artificial photosynthesis as a frontier technology for energy sustainability. *Energy and Environmental Science*, **2013**, 6, 1074 | 35.4 | 251 |
| 223 | 13C NMR Study of the Grafting of Maleic Anhydride onto Polyethene, Polypropene, and EthenePropene Copolymers. *Macromolecules*, **1996**, 29, 1151-1157 | 5.5 | 186 |
| 222 | Nuclear magnetic resonance study of the Schiff base in bacteriorhodopsin: counterion effects on the 15N shift anisotropy. *Biochemistry*, **1989**, 28, 3346-53 | 3.2 | 174 |
| 221 | 13C magic-angle spinning NMR studies of bathorhodopsin, the primary photoproduct of rhodopsin. *Biochemistry*, **1991**, 30, 7409-15 | 3.2 | 173 |
| 220 | Sample optimization and identification of signal patterns of amino acid side chains in 2D RFDR spectra of the alpha-spectrin SH3 domain. *Journal of Magnetic Resonance*, **2000**, 143, 411-6 | 3 | 152 |
| 219 | A refined model of the chlorosomal antennae of the green bacterium Chlorobium tepidum from proton chemical shift constraints obtained with high-field 2-D and 3-D MAS NMR dipolar correlation spectroscopy. *Biochemistry*, **2001**, 40, 1587-95 | 3.2 | 139 |
| 218 | CP-MAS 13C-NMR dipolar correlation spectroscopy of 13C-enriched chlorosomes and isolated bacteriochlorophyll c aggregates of Chlorobium tepidum: the self-organization of pigments is the main structural feature of chlorosomes. *Biochemistry*, **1995**, 34, 15259-66 | 3.2 | 136 |
| 217 | Secondary chemical shifts in immobilized peptides and proteins: a qualitative basis for structure refinement under magic angle spinning. *Journal of Biomolecular NMR*, **2001**, 20, 325-31 | 3 | 132 |
| 216 | Solid-state 13C and 15N NMR study of the low pH forms of bacteriorhodopsin. *Biochemistry*, **1990**, 29, 6873-83 | 3.2 | 127 |
| 215 | Surface-immobilized single-site iridium complexes for electrocatalytic water splitting. *Angewandte Chemie - International Edition*, **2012**, 51, 9601-5 | 16.4 | 113 |
| 214 | (1)H and (13)C MAS NMR evidence for pronounced ligand-protein interactions involving the ionone ring of the retinylidene chromophore in rhodopsin. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 9101-6 | 11.5 | 109 |
| 213 | Asymmetric binding of the 1- and 4-C=O groups of QA in Rhodobacter sphaeroides R26 reaction centres monitored by Fourier transform infra-red spectroscopy using site-specific isotopically labelled ubiquinone-10.. *EMBO Journal*, **1994**, 13, 5523-5530 | 13 | 100 |
| 212 | Retinylidene ligand structure in bovine rhodopsin, metarhodopsin-I, and 10-methylrhodopsin from internuclear distance measurements using 13C-labeling and 1-D rotational resonance MAS NMR. *Biochemistry*, **1999**, 38, 11316-24 | 3.2 | 94 |
| 211 | Heteronuclear 2D-correlations in a uniformly [13C, 15N] labeled membrane-protein complex at ultra-high magnetic fields. *Journal of Biomolecular NMR*, **2001**, 19, 243-53 | 3 | 83 |
| 210 | Controlled Surface-Assembly of Nanoscale Leaf-Type Cu-Oxide Electrocatalyst for High Activity Water Oxidation. *ACS Catalysis*, **2016**, 6, 1768-1771 | 13.1 | 76 |

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| 209 | De novo design of conformationally flexible transmembrane peptides driving membrane fusion. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 14776-81 | 11.5 | 74 |
| 208 | Solid-state NMR studies of the mechanism of the opsin shift in the visual pigment rhodopsin. *Biochemistry*, **1990**, 29, 8158-64 | 3.2 | 74 |
| 207 | Solid-state NMR spectroscopy applied to membrane proteins. *Current Opinion in Structural Biology*, **2000**, 10, 593-600 | 8.1 | 73 |
| 206 | Longitudinal assessment of Alzheimer's beta-amyloid plaque development in transgenic mice monitored by in vivo magnetic resonance microimaging. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 530-6 | 5.6 | 71 |
| 205 | 13C magic angle spinning NMR study of the light-induced and temperature-dependent changes in Rhodobacter sphaeroides R26 reaction centers enriched in [4'-13C]tyrosine. *Biochemistry*, **1992**, 31, 11038-49 | 3.2 | 71 |
| 204 | Structure and protein environment of the retinal chromophore in light- and dark-adapted bacteriorhodopsin studied by solid-state NMR. *Biochemistry*, **1989**, 28, 8897-904 | 3.2 | 68 |
| 203 | Photochemically induced nuclear spin polarization in reaction centers of photosystem II observed by 13C-solid-state NMR reveals a strongly asymmetric electronic structure of the P680(.+) primary donor chlorophyll. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 9865-70 | 11.5 | 67 |
| 202 | Solid state 15N NMR evidence for a complex Schiff base counterion in the visual G-protein-coupled receptor rhodopsin. *Biochemistry*, **1999**, 38, 7195-9 | 3.2 | 66 |
| 201 | Solar Water Splitting Combining a BiVO4 Light Absorber with a Ru-Based Molecular Cocatalyst. *Journal of Physical Chemistry C*, **2015**, 119, 7275-7281 | 3.8 | 65 |
| 200 | Ni-Based Electrocatalyst for Water Oxidation Developed In-Situ in a HCO3⁻/CO2 System at Near-Neutral pH. *Advanced Energy Materials*, **2014**, 4, 1301929 | 21.8 | 65 |
| 199 | Magnetic field dependence of photo-CIDNP MAS NMR on photosynthetic reaction centers of Rhodobacter sphaeroides WT. *Journal of the American Chemical Society*, **2005**, 127, 14290-8 | 16.4 | 65 |
| 198 | Determination of a molecular torsional angle in the metarhodopsin-I photointermediate of rhodopsin by double-quantum solid-state NMR. *Journal of Biomolecular NMR*, **2000**, 16, 1-8 | 3 | 63 |
| 197 | Zinc chlorins for artificial light-harvesting self-assemble into antiparallel stacks forming a microcrystalline solid-state material. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11472-7 | 11.5 | 61 |
| 196 | FTIR spectroscopy shows weak symmetric hydrogen bonding of the QB carbonyl groups in Rhodobacter sphaeroides R26 reaction centres. *FEBS Letters*, **1995**, 370, 88-92 | 3.8 | 58 |
| 195 | Power generation by reverse electrodialysis in a single-layer nanoporous membrane made from core-rim polycyclic aromatic hydrocarbons. *Nature Nanotechnology*, **2020**, 15, 307-312 | 28.7 | 57 |
| 194 | Magic angle spinning NMR studies on the metarhodopsin II intermediate of bovine rhodopsin: evidence for an unprotonated Schiff base. *Photochemistry and Photobiology*, **1992**, 56, 1035-9 | 3.6 | 57 |
| 193 | Artificial Photosynthesis for Solar Fuels an Evolving Research Field within AMPEA, a Joint Programme of the European Energy Research Alliance. *Green*, **2013**, 3, | | 56 |
| 192 | 15N photochemically induced dynamic nuclear polarization magic-angle spinning NMR analysis of the electron donor of photosystem II. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 12767-71 | 11.5 | 56 |

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|---|---|---|---|
| 191 | (13)C MAS NMR and photo-CIDNP reveal a pronounced asymmetry in the electronic ground state of the special pair of Rhodobacter sphaeroides reaction centers. *Biochemistry*, **2002**, 41, 8708-17 | 3.2 | 54 |
| 190 | Energy Storage in the Primary Photoproduct of Vision. *Journal of Physical Chemistry B*, **1997**, 101, 2954-2958 | 3.4 | 53 |
| 189 | Surface Generation of a Cobalt-Derived Water Oxidation Electrocatalyst Developed in a Neutral HCO3−/CO2 System. *Advanced Energy Materials*, **2014**, 4, 1400252 | 21.8 | 52 |
| 188 | Photo-CIDNP MAS NMR in intact cells of Rhodobacter sphaeroides R26: molecular and atomic resolution at nanomolar concentration. *Journal of the American Chemical Society*, **2006**, 128, 12794-9 | 16.4 | 52 |
| 187 | Protein-induced bonding perturbation of the rhodopsin chromophore detected by double-quantum solid-state NMR. *Journal of the American Chemical Society*, **2004**, 126, 3948-53 | 16.4 | 52 |
| 186 | Photochemically induced dynamic nuclear polarization in photosystem I of plants observed by 13C magic-angle spinning NMR. *Journal of the American Chemical Society*, **2004**, 126, 12819-26 | 16.4 | 52 |
| 185 | Ultrahigh field MAS NMR dipolar correlation spectroscopy of the histidine residues in light-harvesting complex II from photosynthetic bacteria reveals partial internal charge transfer in the B850/His complex. *Journal of the American Chemical Society*, **2001**, 123, 4803-9 | 16.4 | 51 |
| 184 | 15N MAS NMR studies of cph1 phytochrome: Chromophore dynamics and intramolecular signal transduction. *Journal of Physical Chemistry B*, **2006**, 110, 20580-5 | 3.4 | 49 |
| 183 | Ab initio molecular dynamics of retinals. *Chemical Physics Letters*, **1996**, 248, 165-172 | 2.5 | 46 |
| 182 | Ab initio molecular dynamics study of water oxidation reaction pathways in mono-Ru catalysts. *ChemPhysChem*, **2012**, 13, 140-6 | 3.2 | 45 |
| 181 | Molecular Catalytic Assemblies for Electrodriven Water Splitting. *ChemPlusChem*, **2013**, 78, 35-47 | 2.8 | 45 |
| 180 | Multidimensional CP-MAS 13C NMR of uniformly enriched chlorophyll. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **1998**, 54, 1167-1176 | 4.4 | 45 |
| 179 | Residual backbone and side-chain 13C and 15N resonance assignments of the intrinsic transmembrane light-harvesting 2 protein complex by solid-state Magic Angle Spinning NMR spectroscopy. *Journal of Biomolecular NMR*, **2005**, 31, 279-93 | 3 | 45 |
| 178 | Spectroscopy and quantum chemical modeling reveal a predominant contribution of excitonic interactions to the bathochromic shift in alpha-crustacyanin, the blue carotenoprotein in the carapace of the lobster Homarus gammarus. *Journal of the American Chemical Society*, **2005**, 127, 1438-45 | 16.4 | 44 |
| 177 | Magnetic resonance microscopy of the adult zebrafish. *Zebrafish*, **2006**, 3, 431-9 | 2 | 44 |
| 176 | Charge Localization and Dynamics in Rhodopsin. *Physical Review Letters*, **1996**, 77, 4474-4477 | 7.4 | 44 |
| 175 | Structural variability in wild-type and bchQ bchR mutant chlorosomes of the green sulfur bacterium Chlorobaculum tepidum. *Biochemistry*, **2012**, 51, 4488-98 | 3.2 | 43 |
| 174 | Large-scale overproduction, functional purification and ligand affinities of the His-tagged human histamine H1 receptor. *FEBS Journal*, **2004**, 271, 2636-46 | | 43 |

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| 173 | Ultra-high-field MAS NMR assay of a multispin labeled ligand bound to its G-protein receptor target in the natural membrane environment: electronic structure of the retinylidene chromophore in rhodopsin. *Biochemistry*, **2001**, 40, 3282-8 | 3.2 | 43 |
| 172 | 13C magic angle spinning NMR evidence for a 15,15'-cis configuration of the spheroidene in the Rhodobacter sphaeroides photosynthetic reaction center. *Biochemistry*, **1992**, 31, 12446-50 | 3.2 | 43 |
| 171 | Crucial Role of Nuclear Dynamics for Electron Injection in a Dye-Semiconductor Complex. *Journal of Physical Chemistry Letters*, **2015**, 6, 2393-8 | 6.4 | 42 |
| 170 | Assignment of amide proton signals by combined evaluation of HN, NN and HNCA MAS-NMR correlation spectra. *Journal of Biomolecular NMR*, **2003**, 25, 217-23 | 3 | 41 |
| 169 | Magnetic resonance microscopy of mouse embryos in utero. *The Anatomical Record*, **2000**, 260, 373-7 | | 41 |
| 168 | A physical interpretation of the Floquet description of magic angle spinning nuclear magnetic resonance spectroscopy. *Molecular Physics*, **1998**, 95, 921-934 | 1.7 | 41 |
| 167 | 13C magic angle spinning NMR characterization of the functionally asymmetric QA binding in Rhodobacter sphaeroides R26 photosynthetic reaction centers using site-specific 13C-labeled ubiquinone-10. *Biochemistry*, **1995**, 34, 10229-36 | 3.2 | 41 |
| 166 | Mechanism and Reaction Coordinate of Directional Charge Separation in Bacterial Reaction Centers. *Journal of Physical Chemistry Letters*, **2012**, 3, 694-7 | 6.4 | 39 |
| 165 | A 3-D structural model of solid self-assembled chlorophyll a/H(2)O from multispin labeling and MAS NMR 2-D dipolar correlation spectroscopy in high magnetic field. *Journal of Magnetic Resonance*, **2002**, 155, 1-14 | 3 | 39 |
| 164 | Characterization of pheophytin ground states in Rhodobacter sphaeroides R26 photosynthetic reaction centers from multispin pheophytin enrichment and 2-D 13C MAS NMR dipolar correlation spectroscopy. *Biochemistry*, **1997**, 36, 7513-9 | 3.2 | 38 |
| 163 | Accurate measurements of 13C-13C J-couplings in the rhodopsin chromophore by double-quantum solid-state NMR spectroscopy. *Journal of the American Chemical Society*, **2006**, 128, 3878-9 | 16.4 | 38 |
| 162 | Exploring the calcium-binding site in photosystem II membranes by solid-state (113)Cd NMR. *Biochemistry*, **2000**, 39, 6751-5 | 3.2 | 38 |
| 161 | Anomalous rotational resonance spectra in magic-angle spinning NMR. *Journal of Magnetic Resonance*, **1999**, 140, 379-403 | 3 | 38 |
| 160 | Solid-state NMR evidence for a protonation switch in the binding pocket of the H1 receptor upon binding of the agonist histamine. *Journal of the American Chemical Society*, **2007**, 129, 867-72 | 16.4 | 36 |
| 159 | High-field (40 T) magnetization studies of linear Heisenberg chains with alternating exchange. *Journal of Applied Physics*, **1982**, 53, 8038-8039 | 2.5 | 36 |
| 158 | Surface-Immobilized Single-Site Iridium Complexes for Electrocatalytic Water Splitting. *Angewandte Chemie*, **2012**, 124, 9739-9743 | 3.6 | 34 |
| 157 | Observation of the solid-state photo-CIDNP effect in entire cells of cyanobacteria Synechocystis. *Photosynthesis Research*, **2010**, 104, 275-82 | 3.7 | 34 |
| 156 | The transition state in the isomerization of rhodopsin. *Chemical Physics Letters*, **1998**, 294, 447-453 | 2.5 | 34 |

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|---|---|---|---|
| 155 | Solid state 13C NMR spectroscopy on EPDM/PP/oil based thermoplastic vulcanizates in the melt. *Polymer*, **2001**, 42, 9745-9752 | 3.9 | 34 |
| 154 | Artificial leaf goes simpler and more efficient for solar fuel generation. *ChemSusChem*, **2014**, 7, 73-6 | 8.3 | 33 |
| 153 | Internuclear Distance Measurements up to 0.44 nm for Retinals in the Solid State with 1-D Rotational Resonance 13C MAS NMR Spectroscopy. *Journal of the American Chemical Society*, **1997**, 119, 169-174 | 16.4 | 33 |
| 152 | MAS NMR structure of a microcrystalline Cd-bacteriochlorophyll d analogue. *Journal of the American Chemical Society*, **2003**, 125, 13374-5 | 16.4 | 33 |
| 151 | Retinal-Based Proton Pumping in the Near Infrared. *Journal of the American Chemical Society*, **2017**, 139, 2338-2344 | 16.4 | 32 |
| 150 | Magnetic resonance microscopy at 17.6-Tesla on chicken embryos in vitro. *Journal of Magnetic Resonance Imaging*, **2001**, 14, 83-6 | 5.6 | 32 |
| 149 | Monitoring blood flow alterations in the Tg2576 mouse model of Alzheimer's disease by in vivo magnetic resonance angiography at 17.6 T. *NeuroImage*, **2012**, 60, 958-66 | 7.9 | 31 |
| 148 | Biomimetic molecular water splitting catalysts for hydrogen generation. *International Journal of Hydrogen Energy*, **2012**, 37, 8787-8799 | 6.7 | 31 |
| 147 | 13C chemical shift map of the active cofactors in photosynthetic reaction centers of Rhodobacter sphaeroides revealed by photo-CIDNP MAS NMR. *Biochemistry*, **2007**, 46, 8953-60 | 3.2 | 31 |
| 146 | 2D(13)C-(13)C MAS NMR correlation spectroscopy with mixing by true (1)H spin diffusion reveals long-range intermolecular distance restraints in ultra high magnetic field. *Journal of Magnetic Resonance*, **2002**, 157, 286-91 | 3 | 31 |
| 145 | Photo-CIDNP solid-state NMR on photosystems I and II:what makes P680 special?. *Photosynthesis Research*, **2005**, 84, 303-8 | 3.7 | 31 |
| 144 | Protein-chromophore interactions in alpha-crustacyanin, the major blue carotenoprotein from the carapace of the lobster, Homarus gammarus. A study by 13C magic angle spinning NMR. *FEBS Letters*, **1995**, 362, 34-8 | 3.8 | 31 |
| 143 | Phase diagrams of weakly anisotropic Heisenberg antiferromagnets, nonlinear excitations (solitons) and random-field effects. *Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics*, **1986**, 141, 1-36 | | 31 |
| 142 | Efficient electrochemical water oxidation in neutral and near-neutral systems with a nanoscale silver-oxide catalyst. *Nanoscale*, **2016**, 8, 15033-40 | 7.7 | 28 |
| 141 | T(1) relaxation in in vivo mouse brain at ultra-high field. *Magnetic Resonance in Medicine*, **2007**, 58, 390-5 | 4.4 | 28 |
| 140 | Biosynthetic site-specific (13) C labeling of the light-harvesting 2 protein complex: a model for solid state NMR structure determination of transmembrane proteins. *Journal of Biomolecular NMR*, **2004** , 30, 267-74 | 3 | 28 |
| 139 | MAS NMR Structures of Aggregated Cadmium Chlorins Reveal Molecular Control of Self-Assembly of Chlorosomal Bacteriochlorophylls. *Journal of Physical Chemistry B*, **2004**, 108, 16556-16566 | 3.4 | 28 |
| 138 | Multiple-spin effects in fast magic angle spinning Lee□Goldburg cross-polarization experiments in uniformly labeled compounds. *Journal of Chemical Physics*, **2003**, 118, 5547-5557 | 3.9 | 28 |

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| 137 | Electrochemical in situ surface enhanced Raman spectroscopic characterization of a trinuclear ruthenium complex, Ru-red. *Journal of Raman Spectroscopy*, **2013**, 44, 1195-1199 | 2.3 | 27 |
| 136 | Magnetic properties of PrCo2 and its ternary hydride PrCo2H4. *Journal of Magnetism and Magnetic Materials*, **1981**, 25, 207-214 | 2.8 | 26 |
| 135 | In vivo metabolite profile of adult zebrafish brain obtained by high-resolution localized magnetic resonance spectroscopy. *Journal of Magnetic Resonance Imaging*, **2009**, 29, 275-81 | 5.6 | 25 |
| 134 | 13C Magic angle spinning NMR analysis and quantum chemical modeling of the bathochromic shift of astaxanthin in alpha-crustacyanin, the blue carotenoprotein complex in the carapace of the lobster Homarus gammarus. *Biochemistry*, **1997**, 36, 7288-96 | 3.2 | 25 |
| 133 | Selective chemical shift assignment of B800 and B850 bacteriochlorophylls in uniformly [13C,15N]-labeled light-harvesting complexes by solid-state NMR spectroscopy at ultra-high magnetic field. *Journal of the American Chemical Society*, **2005**, 127, 3213-9 | 16.4 | 25 |
| 132 | Modulation of spectral properties and pump activity of proteorhodopsins by retinal analogues. *Biochemical Journal*, **2015**, 467, 333-43 | 3.8 | 24 |
| 131 | Photochemically induced dynamic nuclear polarization in the reaction center of the green sulphur bacterium Chlorobium tepidum observed by 13C MAS NMR. *Biochimica Et Biophysica Acta - Bioenergetics*, **2007**, 1767, 610-5 | 4.6 | 24 |
| 130 | Selective interface detection: mapping binding site contacts in membrane proteins by NMR spectroscopy. *Journal of the American Chemical Society*, **2005**, 127, 5734-5 | 16.4 | 24 |
| 129 | 13C Magic angle spinning NMR evidence for a 15,15□Z configuration of the spheroidene chromophore in the Rhodobacter sphaeroides reaction center; synthesis of 13C- and 2H-labelled spheroidenes. *Pure and Applied Chemistry*, **1991**, 63, 115-122 | 2.1 | 24 |
| 128 | Proton displacements coupled to primary electron transfer in the Rhodobacter sphaeroides reaction center. *Journal of Physical Chemistry B*, **2013**, 117, 11162-8 | 3.4 | 23 |
| 127 | Structure determination of a bio-inspired self-assembled light-harvesting antenna by solid-state NMR and molecular modeling. *Journal of Physical Chemistry B*, **2013**, 117, 11292-8 | 3.4 | 23 |
| 126 | M□sbauer relaxation studies of non-linear dynamical excitations in low-dimensional magnets. *Hyperfine Interactions*, **1986**, 27, 93-110 | 0.8 | 23 |
| 125 | An NMR comparison of the light-harvesting complex II (LHCII) in active and photoprotective states reveals subtle changes in the chlorophyll a ground-state electronic structures. *Biochimica Et Biophysica Acta - Bioenergetics*, **2013**, 1827, 738-44 | 4.6 | 22 |
| 124 | On the morphology of a discotic liquid crystalline charge transfer complex. *Journal of Physical Chemistry B*, **2012**, 116, 13098-105 | 3.4 | 22 |
| 123 | Magic-Angle Spinning Nuclear Magnetic Resonance under Ultrahigh Field Reveals Two Forms of Intermolecular Interaction within CH2Cl2-Treated (31R)-Type Bacteriochlorophyll c Solid Aggregate. *Journal of Physical Chemistry B*, **2004**, 108, 2726-2734 | 3.4 | 22 |
| 122 | Solid-State 13C NMR Study of Accelerated-Sulfur-Vulcanized 13C-Labeled ENB□EPDM. *Macromolecules*, **2002**, 35, 1958-1966 | 5.5 | 22 |
| 121 | 13C MAS NMR evidence for a homogeneously ordered environment of tyrosine M210 in reaction centres of Rhodobacter sphaeroides. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **1995**, 51, 135-144 | 4.4 | 22 |
| 120 | M□sbauer relaxation study of nonlinear excitations in pure and impure Ising-type ferromagnetic quantum chains. *Physical Review B*, **1984**, 30, 4041-4044 | 3.3 | 21 |

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|---|---|---|---|
| 119 | The associative nature of adenylyl transfer catalyzed by T4 DNA ligase. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 8563-8 | 11.5 | 20 |
| 118 | Ab Initio Modeling of the Spatial, Electronic, and Vibrational Structure of Schiff Base Models for Visual Photoreceptors. *Journal of Physical Chemistry B*, **2004**, 108, 13560-13572 | 3.4 | 20 |
| 117 | Photo-CIDNP 13C magic angle spinning NMR on bacterial reaction centres: exploring the electronic structure of the special pair and its surroundings. *Biological Chemistry*, **2001**, 382, 1271-6 | 4.5 | 20 |
| 116 | Magic-angle-spinning 13C NMR with atomic resolution of a photosynthetic reaction center enriched in [4?-13C]tyrosine. *Chemical Physics Letters*, **1990**, 169, 307-310 | 2.5 | 20 |
| 115 | In-Silico Design of a Donor□Antenna□Acceptor Supramolecular Complex for Photoinduced Charge Separation. *Journal of Physical Chemistry C*, **2014**, 118, 15600-15609 | 3.8 | 19 |
| 114 | Solid-state NMR applied to photosynthetic light-harvesting complexes. *Photosynthesis Research*, **2012**, 111, 219-26 | 3.7 | 19 |
| 113 | A Dynamic View of Proton-Coupled Electron Transfer in Photocatalytic Water Splitting. *Journal of Physical Chemistry C*, **2016**, 120, 23074-23082 | 3.8 | 19 |
| 112 | Differential charge polarization of axial histidines in bacterial reaction centers balances the asymmetry of the special pair. *Journal of the American Chemical Society*, **2009**, 131, 9626-7 | 16.4 | 18 |
| 111 | The mechanism of the colour shift of astaxanthin in □crustacyanin as investigated by 13C MAS NMR and specific isotope enrichment. *Pure and Applied Chemistry*, **1997**, 69, 2085-2090 | 2.1 | 18 |
| 110 | Protein-induced geometric constraints and charge transfer in bacteriochlorophyll-histidine complexes in LH2. *Physical Chemistry Chemical Physics*, **2008**, 10, 6971-8 | 3.6 | 18 |
| 109 | High resolution localized two-dimensional MR spectroscopy in mouse brain in vivo. *Magnetic Resonance in Medicine*, **2008**, 60, 449-56 | 4.4 | 18 |
| 108 | Solid-state NMR analysis of ligand--receptor interactions reveals an induced misfit in the binding site of isorhodopsin. *Biochemistry*, **2004**, 43, 16011-8 | 3.2 | 18 |
| 107 | Rotational resonance NMR of 13C2-labelled retinal: quantitative internuclear distance determination. *Solid State Nuclear Magnetic Resonance*, **1999**, 14, 81-90 | 3.1 | 18 |
| 106 | Magic Angle Spinning (MAS) NMR: a new tool to study the spatial and electronic structure of photosynthetic complexes. *Photosynthesis Research*, **2009**, 102, 415-25 | 3.7 | 17 |
| 105 | Characterisation of uniformly 13C, 15N labelled bacteriochlorophyll a and bacteriopheophytin a in solution and in solid state: complete assignment of the 13C, 1H and 15N chemical shifts. *Magnetic Resonance in Chemistry*, **2008**, 46, 1074-83 | 2.1 | 17 |
| 104 | Methyl substituents at the 11 or 12 position of retinal profoundly and differentially affect photochemistry and signalling activity of rhodopsin. *Journal of Molecular Biology*, **2006**, 363, 98-113 | 6.5 | 17 |
| 103 | Phase diagrams of weakly anisotropic Heisenberg antiferromagnets: I. Quasi 1-dimensional systems. *Solid State Communications*, **1985**, 53, 731-735 | 1.6 | 17 |
| 102 | Nuclear magnetic resonance secondary shifts of a light-harvesting 2 complex reveal local backbone perturbations induced by its higher-order interactions. *Biochemistry*, **2010**, 49, 478-86 | 3.2 | 16 |

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| 101 | Phase diagrams of weakly anisotropic Heisenberg antiferromagnets: II. Quasi 2-dimensional systems. *Solid State Communications*, **1985**, 53, 737-741 | 1.6 | 16 |
| 100 | First solid-state NMR analysis of uniformly □□C-enriched major light-harvesting complexes from Chlamydomonas reinhardtii and identification of protein and cofactor spin clusters. *Biochimica Et Biophysica Acta - Bioenergetics*, **2011**, 1807, 437-43 | 4.6 | 15 |
| 99 | Prospects for early detection of Alzheimer's disease from serial MR images in transgenic mice. *Current Alzheimer Research*, **2009**, 6, 503-18 | 3 | 15 |
| 98 | Resonance raman spectroscopy and quantum chemical modeling studies of protein-astaxanthin interactions in alpha-crustacyanin (major blue carotenoprotein complex in carapace of lobster, Homarus gammarus). *Biospectroscopy*, **1999**, 5, 358-70 | | 15 |
| 97 | Contrasting Modes of Self-Assembly and Hydrogen-Bonding Heterogeneity in Chlorosomes of. *Journal of Physical Chemistry C*, **2018**, 122, 14877-14888 | 3.8 | 15 |
| 96 | Heteronuclear 2D (1H-13C) MAS NMR resolves the electronic structure of coordinated histidines in light-harvesting complex II: assessment of charge transfer and electronic delocalization effect. *Journal of Biomolecular NMR*, **2004**, 28, 157-64 | 3 | 14 |
| 95 | 13C NMR Study of the grafting of 13C labeled maleic anhydride onto PE, PP and EPM. *Macromolecular Symposia*, **1998**, 129, 119-125 | 0.8 | 14 |
| 94 | Photocatalytic Water Splitting Cycle in a Dye-Catalyst Supramolecular Complex: Ab Initio Molecular Dynamics Simulations. *Journal of Physical Chemistry C*, **2019**, 123, 21403-21414 | 3.8 | 13 |
| 93 | Symmetry break of special pair: photochemically induced dynamic nuclear polarization NMR confirms control by nonaromatic substituents. *Journal of the American Chemical Society*, **2013**, 135, 10382-7 | 16.4 | 13 |
| 92 | In vivo magnetic resonance imaging to detect malignant melanoma in adult zebrafish. *Zebrafish*, **2010**, 7, 143-8 | 2 | 13 |
| 91 | Acetyl group orientation modulates the electronic ground-state asymmetry of the special pair in purple bacterial reaction centers. *Physical Chemistry Chemical Physics*, **2011**, 13, 10270-9 | 3.6 | 13 |
| 90 | Probing secondary, tertiary, and quaternary structure along with protein-cofactor interactions for a helical transmembrane protein complex through 1H spin diffusion with MAS NMR spectroscopy. *Journal of the American Chemical Society*, **2007**, 129, 1504-5 | 16.4 | 13 |
| 89 | Synthetic analogues of the histidine-chlorophyll complex: a NMR study to mimic structural features of the photosynthetic reaction center and the light-harvesting complex. *Journal of Biological Inorganic Chemistry*, **2004**, 9, 109-17 | 3.7 | 13 |
| 88 | Solid-State NMR Study of Miscibility and Phase Separation in Blends and Semi-Interpenetrating Networks of 13C-Labeled Poly(styrene-co-acrylonitrile) and Poly(styrene-co-maleic anhydride). *Macromolecules*, **1998**, 31, 7404-7412 | 5.5 | 13 |
| 87 | Field-dependent M□ssbauer relaxation study of domain walls in the quasi 1-d antiferromagnet RbFeCl3.2H2O. *Solid State Communications*, **1985**, 53, 573-577 | 1.6 | 13 |
| 86 | In Vivo Longitudinal Monitoring of Changes in the Corpus Callosum Integrity During Disease Progression in a Mouse Model of Alzheimer's Disease. *Current Alzheimer Research*, **2015**, 12, 941-50 | 3 | 13 |
| 85 | Insights into the photoprotective switch of the major light-harvesting complex II (LHCII): a preserved core of arginine-glutamate interlocked helices complemented by adjustable loops. *Journal of Biological Chemistry*, **2013**, 288, 19796-804 | 5.4 | 12 |
| 84 | Selective chemical shift assignment of bacteriochlorophyll a in uniformly [13C-15N]-labeled light-harvesting 1 complexes by solid-state NMR in ultrahigh magnetic field. *Journal of Physical Chemistry B*, **2010**, 114, 6207-15 | 3.4 | 12 |

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| 83 | Integration of Catalysis with Storage for the Design of Multi-Electron Photochemistry Devices for Solar Fuel. *Applied Magnetic Resonance*, **2010**, 37, 497-503 | 0.8 | 12 |
| 82 | Determination of Polyisoprene-block-poly(methyl methacrylate) Domain Sizes Using 1H Spin Diffusion. *Macromolecular Chemistry and Physics*, **2003**, 204, 46-51 | 2.6 | 12 |
| 81 | Probing the electronic structure of tyrosine radical YD in photosystem II by EPR spectroscopy using site specific isotope labelling in Spirodela oligorrhiza. *Chemical Physics*, **2003**, 294, 459-469 | 2.3 | 12 |
| 80 | Crystal structure and magnetic properties of some new hexagonal ferrites (Ba2Sn2MeFe10□GaxO22) with the QS-structure. *Journal of Magnetism and Magnetic Materials*, **1986**, 62, 367-380 | 2.8 | 12 |
| 79 | Field-induced transitions in low-dimensional antiferromagnets and in a spin-peierls system. *Journal of Magnetism and Magnetic Materials*, **1986**, 54-57, 1447-1452 | 2.8 | 12 |
| 78 | Analysis of electron donors in photosystems in oxygenic photosynthesis by photo-CIDNP MAS NMR. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 152, 261-71 | 6.7 | 11 |
| 77 | Zebrafish brain lipid characterization and quantification by □H nuclear magnetic resonance spectroscopy and MALDI-TOF mass spectrometry. *Zebrafish*, **2014**, 11, 240-7 | 2 | 11 |
| 76 | Solid state NMR investigation of the interaction between biomimetic lipid bilayers and de novo designed fusogenic peptides. *ChemBioChem*, **2007**, 8, 493-6 | 3.8 | 11 |
| 75 | Magnetic field dependence of13C photo-CIDNP MAS NMR in plant photosystems I and II. *Applied Magnetic Resonance*, **2007**, 31, 193-204 | 0.8 | 11 |
| 74 | Cross-Linking Induced Phase Separation in SAN/SMA Semi-interpenetrating Polymer Networks Observed by Solid State NMR and Site Specific Isotope Enrichment. *Macromolecules*, **2000**, 33, 5544-5548 | 5.5 | 11 |
| 73 | Pronounced Poly(methyl methacrylate) Dynamics Induced by Blending Morphology. *Macromolecules*, **2000**, 33, 457-460 | 5.5 | 11 |
| 72 | Dynamic Disorder Drives Exciton Transfer in Tubular Chlorosomal Assemblies. *Journal of Physical Chemistry B*, **2020**, 124, 4026-4035 | 3.4 | 10 |
| 71 | Bacteriochlorophyll/imidazole and chlorophyll/imidazole complexes are negatively charged in an apolar environment. *Chemical Physics Letters*, **2000**, 330, 325-330 | 2.5 | 10 |
| 70 | Photochemically induced dynamic nuclear polarization NMR on photosystem II: donor cofactor observed in entire plant. *Scientific Reports*, **2018**, 8, 17853 | 4.9 | 10 |
| 69 | Molecular Insight in the Optical Response of Tubular Chlorosomal Assemblies. *Journal of Physical Chemistry C*, **2019**, 123, 16462-16478 | 3.8 | 9 |
| 68 | Solid-state NMR of nanomachines involved in photosynthetic energy conversion. *Annual Review of Biophysics*, **2013**, 42, 675-99 | 21.1 | 9 |
| 67 | Photochemically induced dynamic nuclear polarisation in entire bacterial photosynthetic units observed by 13C magic-angle spinning NMR. *Journal of Molecular Structure*, **2003**, 661-662, 625-633 | 3.4 | 9 |
| 66 | Distribution of Cations in Mixed ZnMnAlO Containing Spinels, Model Catalysts for the Reduction of Nitrobenzene to Nitrosobenzene. *Journal of Catalysis*, **1996**, 160, 148-154 | 7.3 | 9 |

| | | | |
|---|---|---|---|
| 65 | Phase diagrams of weakly anisotropic Heisenberg antiferromagnets: III. Nonlinear excitations and random fields in quasi 2-dimensional systems. *Solid State Communications*, **1985**, 56, 7-11 | 1.6 | 9 |
| 64 | Membrane matters: The impact of a nanodisc-bilayer or a detergent microenvironment on the properties of two eubacterial rhodopsins. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183113 | 3.8 | 9 |
| 63 | Proton Acceptor near the Active Site Lowers Dramatically the O-O Bond Formation Energy Barrier in Photocatalytic Water Splitting. *Journal of Physical Chemistry Letters*, **2019**, 10, 7690-7697 | 6.4 | 9 |
| 62 | Redshifted and Near-infrared Active Analog Pigments Based upon Archaerhodopsin-3. *Photochemistry and Photobiology*, **2019**, 95, 959-968 | 3.6 | 8 |
| 61 | In vivo measurement of transverse relaxation time in the mouse brain at 17.6 T. *Magnetic Resonance in Medicine*, **2013**, 70, 985-93 | 4.4 | 8 |
| 60 | A solid-state NMR study of changes in lipid phase induced by membrane-fusogenic LV-peptides. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 202-9 | 3.8 | 8 |
| 59 | Characterization of photosynthetic reaction centers with specific isotope labels. *Photosynthesis Research*, **1998**, 55, 241-245 | 3.7 | 8 |
| 58 | DFT calculations of the 1H chemical shifts and 13C chemical shift tensors of retinal isomers. *Computational and Theoretical Chemistry*, **2004**, 711, 141-147 | | 8 |
| 57 | Non-linear excitations in Ising-type magnetic chain systems I. *Physica B: Condensed Matter*, **1989**, 154, 237-253 | 2.8 | 8 |
| 56 | A Hybrid Solid-State NMR and Electron Microscopy Structure-Determination Protocol for Engineering Advanced para-Crystalline Optical Materials. *Chemistry - A European Journal*, **2017**, 23, 3280-3284 | 4.8 | 7 |
| 55 | A robust circadian rhythm of metabolites in Arabidopsis thaliana mutants with enhanced growth characteristics. *PLoS ONE*, **2019**, 14, e0218219 | 3.7 | 7 |
| 54 | Structural rearrangements and reaction intermediates in a di-Mn water oxidation catalyst. *Physical Chemistry Chemical Physics*, **2012**, 14, 15502-8 | 3.6 | 7 |
| 53 | Bacteriopheophytin a in the active branch of the reaction center of rhodobacter sphaeroides is not disturbed by the protein matrix as shown by 13C photo-CIDNP MAS NMR. *Journal of Physical Chemistry B*, **2013**, 117, 3287-97 | 3.4 | 7 |
| 52 | Accurate CSA measurements from uniformly isotopically labeled biomolecules at high magnetic field. *Journal of Magnetic Resonance*, **2005**, 172, 1-8 | 3 | 7 |
| 51 | Efficient conditions for the photoaccumulation of HA□n the photosynthetic reaction centre of Rhodobacter sphaeroides R26 with uniformly labelled bacteriopheophytin monitored by Fourier transform infrared difference spectroscopy. *Vibrational Spectroscopy*, **1999**, 19, 347-352 | 2.1 | 7 |
| 50 | Use of Kapton film as a cryogenic construction material. *Cryogenics*, **1984**, 24, 702-704 | 1.8 | 7 |
| 49 | Magnetic Resonance Microscopy at Cellular Resolution and Localised Spectroscopy of Medicago truncatula at 22.3 Tesla. *Scientific Reports*, **2020**, 10, 971 | 4.9 | 6 |
| 48 | Magic-angle-sample-spinning NMR difference spectroscopy. *Journal of Magnetic Resonance*, **1988**, 77, 251-257 | | 6 |

| | | | |
|---|---|---|---|
| 47 | Photochemically induced dynamic nuclear polarization in bacterial photosynthetic reaction centres observed by 13C solid-state NMR. *Focus on Structural Biology*, **2001**, 215-225 | | 6 |
| 46 | Synthesis and antiproliferative activity of hindered, chiral 1,2-diaminodiamantane platinum(II) complexes. *Dalton Transactions*, **2020**, 49, 14009-14016 | 4.3 | 6 |
| 45 | HR-MAS NMR Applications in Plant Metabolomics. *Molecules*, **2021**, 26, | 4.8 | 6 |
| 44 | Photoinduced Electron Injection in a Fully Solvated Dye-Sensitized Photoanode: A Dynamical Semiempirical Study. *Journal of Physical Chemistry C*, **2020**, 124, 27965-27976 | 3.8 | 5 |
| 43 | Energetic Effects of a Closed System Approach Including Explicit Proton and Electron Acceptors as Demonstrated by a Mononuclear Ruthenium Water Oxidation Catalyst. *ChemCatChem*, **2018**, 10, 4594-4601 | 5.2 | 5 |
| 42 | Photoinduced Electron Transfer in Donor-Acceptor Complexes: Isotope Effect and Dynamic Symmetry Breaking. *Journal of Physical Chemistry Letters*, **2019**, 10, 6504-6511 | 6.4 | 5 |
| 41 | Electrocatalysts: Surface Generation of a Cobalt-Derived Water Oxidation Electrocatalyst Developed in a Neutral HCO3−/CO2 System (Adv. Energy Mater. 16/2014). *Advanced Energy Materials*, **2014**, 4, n/a-n/a | 21.8 | 5 |
| 40 | A view on phosphate ester photochemistry by time-resolved solid state NMR. Intramolecular redox reaction of caged ATP. *Physical Chemistry Chemical Physics*, **2008**, 10, 6820-8 | 3.6 | 5 |
| 39 | 2H NMR evidence for dynamic disorder in human skin induced by the penetration enhancer azone. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **1996**, 52, 785-791 | 4.4 | 5 |
| 38 | Two-dimensional switched-speed spinning NMR. *Journal of Magnetic Resonance*, **1989**, 85, 60-68 | | 5 |
| 37 | Random-Field Effects on Field-Induced Transitions in Ising-Type Antiferromagnets. *Physica Scripta*, **1986**, T13, 219-225 | 2.6 | 5 |
| 36 | Spin-Peierls transition in a Cu2+ linear chain. *Journal of Applied Physics*, **1982**, 53, 8027-8028 | 2.5 | 5 |
| 35 | High-resolution magic angle spinning NMR studies for metabolic characterization of Arabidopsis thaliana mutants with enhanced growth characteristics. *PLoS ONE*, **2018**, 13, e0209695 | 3.7 | 5 |
| 34 | Chemical Exchange at the Trinuclear Copper Center of Small Laccase from Streptomyces coelicolor. *Biophysical Journal*, **2020**, 119, 9-14 | 2.9 | 4 |
| 33 | Prospects of Magnetic Resonance Spectroscopy in Mouse Models of Alzheimers Disease. *Current Medical Imaging*, **2011**, 7, 80-87 | 1.2 | 4 |
| 32 | Analysis of histamine and modeling of ligand-receptor interactions in the histamine H(1) receptor for Magic Angle Spinning NMR studies. *Inflammation Research*, **2003**, 52, 417-23 | 7.2 | 4 |
| 31 | Apparatus for low-temperature magic-angle spinning NMR. *Journal of Magnetic Resonance*, **1991**, 92, 614-617 | | 4 |
| 30 | Iterative fitting of magic-angle-spinning NMR spectra. *Journal of Magnetic Resonance*, **1991**, 91, 30-38 | | 4 |

| | | | |
|---|---|---|---|
| 29 | Mössbauer relaxation and thermodynamic properties of spin cluster-triad in EuMg5. *Hyperfine Interactions*, **1986**, 28, 667-671 | 0.8 | 4 |
| 28 | Tuning the Proton-Coupled Electron-Transfer Rate by Ligand Modification in Catalyst-Dye Supramolecular Complexes for Photocatalytic Water Splitting. *ChemSusChem*, **2021**, 14, 479-486 | 8.3 | 4 |
| 27 | Efficient workflow for the investigation of the catalytic cycle of water oxidation catalysts: Combining GFN-xTB and density functional theory. *Journal of Computational Chemistry*, **2021**, 42, 1885-1894 | 3.5 | 4 |
| 26 | Assessing spatial resolution, acquisition time and signal-to-noise ratio for commercial microimaging systems at 14.1, 17.6 and 22.3 T. *Journal of Magnetic Resonance*, **2020**, 316, 106770 | 3 | 3 |
| 25 | Water Oxidation Electrocatalysts: Ni-Based Electrocatalyst for Water Oxidation Developed In-Situ in a HCO3−/CO2 System at Near-Neutral pH (Adv. Energy Mater. 9/2014). *Advanced Energy Materials*, **2014**, 4, | 21.8 | 3 |
| 24 | 13C and 15N NMR evidence for peripheral intercalation of uniformly labeled fusogenic peptides incorporated in a biomimetic membrane. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 3020-8 | 3.8 | 3 |
| 23 | Non-invasive magnetic resonance imaging of oils in Botryococcus braunii green algae: Chemical shift selective and diffusion-weighted imaging. *PLoS ONE*, **2018**, 13, e0203217 | 3.7 | 3 |
| 22 | Magic Angle Spinning Nuclear Magnetic Resonance of Photosynthetic Components. *Advances in Photosynthesis and Respiration*, **1996**, 299-313 | 1.7 | 3 |
| 21 | Determination of Controlled Self-Assembly of a Paracrystalline Material by Homology Modelling with Hybrid NMR and TEM. *Chemistry - A European Journal*, **2017**, 23, 9346-9351 | 4.8 | 2 |
| 20 | A Semisynthetic Peptide–Metalloporphyrin Responsive Matrix for Artificial Photosynthesis. *ChemPhotoChem*, **2019**, 3, 630-635 | 3.3 | 2 |
| 19 | Engineering natural photosynthesis365-378 | | 2 |
| 18 | Reply to Hengge: On the 31P chemical shifts of the phosphorane compounds : Fig. 1.. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, E85-E85 | 11.5 | 2 |
| 17 | Solid-phase synthesis and purification of a set of uniformly 13C, 15N labelled de novo designed membrane fusogenic peptides. *Journal of Peptide Science*, **2007**, 13, 75-80 | 2.1 | 2 |
| 16 | 13C–1H heteronuclear dipolar correlation studies of the hydrogen bonding of the quinones inRhodobacter sphaeroides R26 reaction centers. *Applied Magnetic Resonance*, **2007**, 31, 145-158 | 0.8 | 2 |
| 15 | Analysis of the electronic structure of the primary electron donor of photosystem I of <i>Spirodela</i> <i>oligorrhiza</i> by photochemically induced dynamic nuclear polarization (photo-CIDNP) solid-state nuclear magnetic resonance (NMR). *Magnetic Resonance*, **2020**, 1, 261-274 | 2.9 | 2 |
| 14 | Metabolic Profiling of Suprachiasmatic Nucleus Reveals Multifaceted Effects in an Alzheimer's Disease Mouse Model. *Journal of Alzheimer's Disease*, **2021**, 81, 797-808 | 4.3 | 2 |
| 13 | Two-Channel Model for Electron Transfer in a Dye-Catalyst-Dye Supramolecular Complex for Photocatalytic Water Splitting. *ChemSusChem*, **2021**, 14, 3155-3162 | 8.3 | 2 |
| 12 | Magic Angle Spinning (MAS) NMR for Structure Determination in Photosynthesis. *Advances in Photosynthesis and Respiration*, **2008**, 361-383 | 1.7 | 2 |

| | | | |
|---|---|---|---|
| 11 | wPMLG-5 Spectroscopy of Self-Aggregated BChl e in Natural Chlorosomes of Chlorobaculum Limnaeum. *Israel Journal of Chemistry*, **2014**, 54, 147-153 | 3.4 | 1 |
| 10 | An ab-initio molecular dynamics modeling of the primary photochemical event in vision. *Focus on Structural Biology*, **2001**, 111-122 | | 1 |
| 9 | MRM Microcoil Performance Calibration and Usage Demonstrated on Medicago truncatula Roots at 22 T. *Journal of Visualized Experiments*, **2021**, | 1.6 | 1 |
| 8 | The Resting Oxidized State of Small Laccase Analyzed with Paramagnetic NMR Spectroscopy. *ChemPhysChem*, **2021**, 22, 733-740 | 3.2 | 1 |
| 7 | A Molecular Level Approach To Elucidate the Supramolecular Packing of Light-Harvesting Antenna Systems. *Chemistry - A European Journal*, **2018**, 24, 14989-14993 | 4.8 | 0 |
| 6 | R□ktitelbild: Surface-Immobilized Single-Site Iridium Complexes for Electrocatalytic Water Splitting (Angew. Chem. 38/2012). *Angewandte Chemie*, **2012**, 124, 9838-9838 | 3.6 | |
| 5 | Structural Assessment of the Bacteriochlorophyll d Stacking in Chlorosomes from a C. tepidum Mutant with MAS NMR Spectroscopy **2008**, 247-251 | | |
| 4 | Imaging of Heart Development in Embryos with Magnetic Resonance Microscopy **2007**, 163-165 | | |
| 3 | Magic Angle Spinning Nuclear Magnetic Resonance of the Chlorosomes **2006**, 297-307 | | |
| 2 | 13C Photo-CIDNP MAS NMR Studies on Oriented Reaction Centers **2008**, 97-100 | | |
| 1 | Dipolar dephasing for structure determination in a paramagnetic environment. *Solid State Nuclear Magnetic Resonance*, **2021**, 113, 101728 | 3.1 | |