

Poster Presentations

Biomaterials in solid state NMR

- P1 The 18kDa translocator protein in the lipid bilayer**
G. Jaipuria, K. Giller, R. Linser, S. Becker, M. Zweckstetter
- P2 The effect of oxidized phospholipids in model membranes studied by dipolar recoupling NMR**
T.M. Ferreira, R. Sood, R. Bärenwald, S. Drescher, K. Saalwächter, O.H.S. Ollila
- P3 Characterization of Protonic Conductor Based on Cellulose Functionalized with Imidazole Molecules**
I. Smolarkiewicz, T. Gutmann, L. Zhao, A. Rachocki, K. Pogorzelec-Glasser, R. Pankiewicz, P. Ławniczak, J. Tritt-Goc, G. Buntkowsky
- P4 Effects of solvent concentration and composition on protein dynamics: ¹³C MAS NMR studies of elastin in glycerol–water mixtures**
D. Demuth, M. Vogel
- P5 Synthesis and Solid State NMR Characterization of Noval Peptide/Silica Hybrid Materials**
M. Brodrecht, M. Werner, H. Breitzke, A.S. Thankamony, T. Gutmann, G. Buntkowsky

Biomolecules in solution NMR/EPR

- P6 Structural Investigation of 2-Fluoroadenine-substituted RNA**
F. Sochor, B. Fürtig, R. Silvers, C. Richter, H. Schwalbe
- P7 Structural investigation of the dG-sensing aptamer domain of *Mesoplasma florum* via paramagnetic NMR-Spectroscopy**
K. Schnorr, C. Helmling, A. Wacker, H.R.A. Jonker, N.S. Qureshi, D.B. Gophane, S.Th. Sigurdsson, C. Richter, H. Schwalbe
- P8 Investigation of G-quadruplex-ligand interactions using NMR-spectroscopy**
J. Wimer-Bartoschek, L.E. Bendel, J. Henker, E. Meggers, P. Gratterer, H. Schwalbe
- P9 Structural Characterization of FGFR-ligand interaction by NMR spectroscopy**
F. Kappert, S. Sreeramulu, K. Saxena, C. Richter, D. Kudlinzki, H. Schwalbe
- P10 Orthogonal spin labeling of proteins using Click Chemistry for *in vitro* and *in vivo* applications**
S. Suvorina, D. Klose, S. Korneev, D. Grohmann, E.A. Lemke, J. Klare, H.-J. Steinhoff
- P11 Rapid NMR screening of RNA secondary structure**
S. Keyhani, C. Helmling, F. Sochor, B. Fürtig, M. Hengesbach, H. Schwalbe
- P12 Structural characterization of the rS1-protein and its mRNA complexes**
N.S. Qureshi, H.R.A. Jonker, H. Schwalbe, B. Fürtig

- P13 Photoresponsive formation of an intermolecular minimal G-Quadruplex motif**
 J. Thevarpadam, I. Bessi, O. Binas, H.R.A. Jonker, C. Richter, H. Schwalbe, A. Heckel
- P14 Conformational flexibility of the isoindoline derived spin labels**
N. Erlenbach, B. Endeward, D.B. Gophane, S.Th. Sigurdsson, T.F. Prisner
- P15 A new RNA model system for investigation of helicases unwinding mechanism via NMR spectroscopy**
H. Zetzsche, B. Fürtig
- P16 Rotational Dynamics of Proteins at Crowding Conditions**
A. Krushelnitsky, M. Roos, M. Hofmann, E.A. Rößler, K. Saalwächter
- P17 EPR Studies on the Signal Peptidase LspA and the Symporter BetP: Probing the Influence of Lipids on Structure and Functionality**
E. Jaumann, B. Endeward, A. Laguerre, I. Waclawska, V. Dötsch, C. Ziegler, T.F. Prisner
- P18 Synonymous codons direct co-translational folding towards different protein conformations**
 F. Buhr, S. Jha, M. Thommen, J. Mittelstaet, F. Kutz, H. Schwalbe, M.V. Rodnina, A.A. Komar
- P19 Structural characterization of a complex between Protein-Tyrosine Phosphatase A (MptpA) and Protein-Tyrosine Kinase A (PtkA) from *M. tuberculosis* by NMR spectroscopy**
A. Niesteruk, H.R.A. Jonker, C. Richter, S. Sreeramulu, T. Stehle, H. Schwalbe
- P20 Characterization of the Unstructured N-terminal Region of Protein Tyrosine Kinase A**
M.-T. Hutchison, A. Niesteruk, T. Stehle, J. Wirmer-Bartoschek, H.R.A. Jonker, S. Sreeramulu, R. Silvers, H. Schwalbe
- P21 Insight into the folding pathway of human telomeric G-quadruplex by real time NMR**
I. Bessi, H.R.A. Jonker, C. Richter, H. Schwalbe
- P22 Structure Determination of the SAM/SAH-binding Riboswitch**
A.K. Weickhmann, H. Keller, E. Duchardt-Ferner, C. Kreutz, J. Wöhnert
- P23 Conformational flexibility of POTRA domains from cyanobacterial Omp85 studied by PELDOR spectroscopy**
D. Schuetz, R. Dastvan, E.M. Brouwer, O. Mirus, E. Schleiff, T.F. Prisner
- P24 The NMR-Solution Structure of the Lantibiotic Immunity Protein NisI**
C. Hacker, N.A. Christ, E. Duchardt-Ferner, L. Berniger, S. Düsterhus, U.A. Hellmich, P. Koetter, K.-D. Entian, J. Wöhnert
- P25 Investigation of the i-motif DNA structure**
L. Lannes, H. Schwalbe
- P26 Structural features of a GTP binding RNA aptamer**
A.C. Wolter, E. Duchardt-Ferner, K. Hantke, A.H. Nasiri, A.K. Weickhmann, J. Wöhnert
- P27 Molecular Basis of Microtubule Regulation by Microtubule-Associated Protein Tau**
H. Kadavath, M. Jaremko, L. Jaremko, R. Hofele, J. Biernat, S. Kumar, K. Tepper, H. Urlaub, E. Mandelkow, M. Zweckstetter

- P28 Structural dynamics of a full-length adenine riboswitch**
S. Warhaut, B. Fürtig, M. Hengesbach, P. Höllthaler, M. Heilemann, H. Schwalbe
- P29 NMR Studies on Intrinsically Disordered Proteins**
O. Ohlenschläger, N. Goradia, C. Wiedemann, H. Pospiech, C. Herbst, M. Görlach, S.H. Heinemann, R. Ramachandran
- P30 NMR structure refinement with EPR data**
A. Marko, C.M. Grytz, S. Kazemi, P. Güntert, S.Th. Sigurdsson, T.F. Prisner
- P31 Extraction of PRE-restraints from NOESY spectra**
E.C. Cetiner, C. Helmling, H. Schwalbe
- P32 Conformational change observed on the radical transfer pathway of E. coli RNr by high frequency (94, 263 GHz) EPR, 34 GHz ENDOR and PELDOR spectroscopy**
M. Kasanmascheff, W. Lee, T.U. Nick, J. Stubbe, M. Bennati
- P33 Long-time self-diffusion in protein mixtures forming transient clusters: the applicability of the Stokes-Einstein relationship**
M. Rothe, M. Roos, S. Link, T. Gruber, A. Krushelnitsky, J. Balbach, K. Saalwächter
- P34 Structural and functional insights into PaMTH1: a longevity assurance factor**
D. Chatterjee, D. Kudlinzki, V. Linhard, K. Saxena, U. Schieberr, S.L. Gande, J.P. Wurm, J. Wöhnert, R. Abele, V.V. Rogov, V. Dötsch, H.D. Osiewacz, S. Sreeramulu, H. Schwalbe
- P35 Structural basis of the interaction of the TRPV4 ion channel with its protein and lipid functional modulators**
N.A. Christ, B. Goretzki, E. Duchardt-Ferner, R. Gaudet, U.A. Hellmich
- P36 Time-resolved NMR-spectroscopy extended to the μ s-timescale**
F. Lehner, A. Cherepanov, H. Schwalbe
- P37 NMR Spectroscopic Characterization of DNA G-Quadruplexes: Structural Features of Truncated c-myc Sequences**
B. Karg, K. Weisz
- P38 Monitoring conformational changes of biomacromolecules in cellula with Gd(III)-based spin labels by Q-band DEER**
A. Groß, M. Qi, A. Godt, M. Drescher
- P39 Automatic assignment of methyl-TROSY spectra from NOEs**
I. Pritisanac, M.T. Degiacomi, A.J. Baldwin
- P40 Automatic resonance assignment of intrinsically disordered proteins with the TSAR program**
A. Zawadzka-Kazimierczuk, S. Žerko, S. Saxena, W. Koźmiński, M. Billeter, R. Konrat, L. Geist, G. Platzer, D. Kurzbach, Z. Orbán-Németh
- P41 Analysis of conformational changes in the substrate binding protein of a TRAP transporter from V. cholerae by PELDOR spectroscopy and X-ray crystallography**
J. Glaenger, G. Hagelueken

- P42 Transiently stable antiterminator guarantees gene expression in transcriptional riboswitch**
H.S. Steinert, A. Wacker, J. Buck, F. Hiller, J. Noeske, S. Grimm, B. Fürtig, H. Schwalbe
- P43 mtsslWizard: Finding optimal spin labelling positions using difference distance matrices**
G. Hagelueken, D. Abdullin, O. Schiemann
- P44 Trityl Radicals: Spin Labels for Distance Measurement in Proteins at Physiological Temperatures**
J.J. Jassoy, A. Berndhäuser, O. Schiemann
- P45 Conformations of the cocaine aptamer studied by pulsed electron-electron double resonance (PELDOR)/ double electron-electron resonance (DEER) spectroscopy**
C.M. Grytz, A. Marko, P. Cekan, S.Th. Sigurdsson, T.F. Prisner
- P46 263-GHz pulsed EPR, 94-GHz ENDOR Spectroscopy and DFT Calculations Differentiate Hydrogen Bond Networks in Proton-Coupled Electron Transfer Steps of E. Coli Ribonucleotide Reductase Ia**
T.U. Nick, W. Lee, K. Ravichandran, S. Kossman, M. Kasanmascheff, F. Neese, J. Stubbe, M. Bennati
- P47 PELDOR on Trimeric Betaine Symporter BetP**
B. Endeward, I. Waclawska, C. Ziegler, T.F. Prisner
- P48 The NMR solution structure of cell-penetrating cyclic peptides in membrane mimetic agents**
F. Reichart, M. Horn, S. Natividad-Tietz, I. Neundorf, D. Diaz
- P49 More than Binding – Attachment of human Noroviruses to Histo Blood Group Antigens**
A. Mallagaray, J. Lockhauserbäumer, S. Weissbach, G. Dominguez, G. Hansman, C. Utrecht, J. Pérez-Castells, T. Peters

Engineering Applications / Low Field NMR / Imaging

- P50 Multiple Applications of a Fully Thermostatted Online NMR Probe for Reaction Monitoring and as Detector for Reactive Chromatography**
A. Brächer, R. Behrens, E. von Harbou, H. Hasse
- P51 Magnetic resonance imaging (MRI) with atomic resolution by NV sensors and ultra-strong magnetic field gradients**
A. Kleinkauf, G. Braunbeck, F. Reinhard
- P52 Flow-MRI of microfluidic reactors**
S. Benders, M. Wiese, S. Lehmkuhl, E. Paciok, M. Wessling, B. Blümich
- P53 Applying MRI Techniques in IC-engine geometries**
D. Freudenhammer, R. Simpson, B. Böhm, C. Tropea, S. Grundmann
- P54 Using MRI to Help Making Aircraft Engines Better**
M. Bruscheckski, H.-P. Schiffer, S. Grundmann

EPR Methods

- P55 Electron Paramagnetic Resonance with Dielectric Resonators of Small Single Crystals of Metal-Organic Frameworks**
S. Friedlaender, A. Kultaeva, M. Simenas, A. Poepl
- P56 Room Temperature PELDOR Measurements with Rigid Nitroxide Spin Labels on Duplex-DNA**
M. Gränz, D.B. Gophane, S.Th. Sigurdsson, T.F. Prisner
- P57 Detection of Light-Induced Magnetization of Pentacene in p-Terphenyl by Magnetic-Force Microscopy**
A.M. Rostas, E. Schleicher, S. Weber, K. Kartaschew, E. Brüdermann, M. Havenith
- P58 Single Scan Cooperative Broadband Hahn Echoes**
W. Kallies, S.J. Glaser
- P59 Using Electrically Detected Magnetic Resonance (EDMR) to characterize Defects on well-defined Semiconductor Surfaces under Ultra-High Vacuum conditions**
H. Ronneburg, T. Risse
- P60 Multifrequency CW/Pulsed EPR-Spectroscopy**
Y. NejatyJahromy, H. Alaei, T. Hett, E. Schubert, D. Abdullin, A. Berndhäuser, A. Meyer, H. Matsuoka, O. Schiemann
- P61 Pulsed EPR Dipolar Spectroscopy with High-Spin Mn²⁺ Ions**
D. Akhmetzhanov, H.Y. Vincent Ching, B. Endeward, P. Demay-Drouhard, J. Plackmeyer, V. Denysenkov, S. Un, H.C. Bertrand, C. Policar, T.F. Prisner
- P62 Electrically detected electron paramagnetic resonance by pulsed charge carrier extraction for application in thin-film solar cell devices**
A. Sperlich, S. Váth, A. Baumann, V. Dyakonov
- P63 Synthesis and Application of Metal Complexes for EPR-based Distance Measurement Techniques**
J. Wegner, M. Qi, H. Hintz, K. Keller, M. Yulikov, G. Jeschke, A. Godt
- P64 Pushing SIFTER towards new application**
P. Schöps, P.E. Spindler, A. Bowen, D. Akhmetzhanov, T.F. Prisner
- P65 ELDOR detected NMR of Manganese coordination spheres at Q-band**
T.F.B. Hetzke, A.M. Bowen, M. Vogel, C. Grünwald, T.F. Prisner
- P66 Time-resolved EPR studies of the hydroxyethyl radical generated by the oxidation of ethanol with the TiCl₃/H₂O₂ system**
E. Schubert, T. Hett, Y. NejatyJahromy, O. Schiemann
- P67 Investigating multi-spin nitroxide systems with a broadband Single Frequency Technique for Refocusing dipolar couplings (SIFTER) and Pulsed ELeCtron DOuble Resonance (PELDOR).**
A.M. Bowen, P. Schöps, P.E. Spindler, J. Plackmeyer, T.F. Prisner
- P68 Distances and Orientations with PELDOR/DEER at High Fields/Frequencies**
K. Halbmair, I. Tkach, M. Bennati

- P69 Broadband Electrically Detected Magnetic Resonance Using Adiabatic Pulses**
F.M. Hrubesch, M.S. Brandt
- P70 Pulsed EPR Dipolar Spectroscopy on a Trityl Biradical**
D. Akhmetzyanov, P. Schöps, A. Marko, N. Kunjir, S.Th. Sigurdsson, T.F. Prisner
- P71 Improving the Detection Limit of Quantitative EPR on Si Dangling Bond Defects by Rapid Scan EPR**
J. Möser, A. Schnegg, K. Lips, B. Rech
- P72 Imaging few spins under ambient conditions**
T. Oeckinghaus, A. Zappe, D. Dasari, K. Bader, P. Neumann, A. Finkler, J. Wrachtrup
- P73 New nitroxide and gadolinium spin labels to probe conformational changes of Bcl-2 proteins on isolated mitochondria**
T. Assafa, S. Bleicken, A.J. García-Sáez, M. Qi, A. Godt, H. Zhang, A. Rajca, E. Bordignon

Hyperpolarization

- P74 Studying the porosity of MOFs using ^{129}Xe NMR with hyperpolarized Xe**
T.W. Kemnitzer, Y.A. Avadhut, E.A. Rößler, J. Senker
- P75 Gd(III) DOTA as polarizing agent at high field: Solid Effect vs Cross Effect Dynamic Nuclear Polarization**
M. Kaushik, D. Richter, B. Corzilius
- P76 Investigation of proteins with endogenously bound Gd^{3+} for dynamic nuclear polarization (DNP)**
D. Richter, M. Kaushik, D. Wagner, H. Schwalbe, B. Corzilius
- P77 High spectral resolution ^1H , ^{13}C DNP probehead for liquids at 9.4 T**
V. Denysenkov, T.F. Prisner
- P78 Parahydrogen Induced Polarization (PHIP) of anticancer drug substructures**
M. Plaumann, D. Lego, T. Trantzschele, J. Wüstemann, G. Sauer, T. Gutmann, G. Buntkowsky, J. Bargon, U. Bommerich, J. Bernarding
- P79 DNP Enhanced ssNMR Study of the Interaction of an Engineered Binding Protein with alpha-synuclein Fibrils**
B. Uluca, H. Shaykhalishahi, W. Hoyer, H. Heise

Materials in solid state NMR/EPR

- P80 Solid state NMR, diffraction and modeling of intermetallics**
F. Haarmann
- P81 Expanding the NMR Palette: Insights on Artificial Charge Separators**
B. Thomas, M. Clabbers, K.B.S.S. Gupta, R.K. Dubey, J. Rombouts, W.F. Jager, U. Baumeister, R. Orru, J.P. Abrahams, H.J.M. de Groot
- P82 Mechanochemical Synthesis of Low-Fluorine doped Aluminium Hydroxide Fluorides**
 V. Scalise, G. Scholz, E. Kemnitz

- P83 NMR investigations of segmental dynamics in self-healing elastomers**
A. Mordvinkin, K. Saalwächter, M. Suckow, F. Böhme
- P84 Redistribution of magnetization after T₂-filtered experiments in linear polymer melts**
M.-L. Trutschel, K. Saalwächter
- P85 Comprehensive ¹³C Solid State NMR Study of Electrolyte Decomposition in a Silicon Electrode Lithium Ion Battery System**
A.L. Michan, M. Leskes, C.P. Grey
- P86 DQ NMR study of inhomogeneous microscopic-level deformation of polymer networks**
A. Naumova, M. Ott, J. López Valentín, K. Saalwächter
- P87 Water in the Earth's Mantle: ¹H-Solid-State NMR Investigations on Proton Disorder in Ringwoodite**
H. Grüniger, R. Siegel, T. Boffa-Balleran, D. Frost, J. Senker
- P88 Probing of Chain Conformations in Conjugated Polymer Nanoparticles by Electron Spin Resonance Spectroscopy**
C. Hintze, F. Schütze, M. Drescher, S. Mecking
- P89 NMR evaluation of ionic conductivity for improved performance of glass-ceramic NASICON electrolyte membrane**
V.A. Vizgalov, A. Sergeev, D.M. Itkis, L.A. Trusov, M. Motylenko, E. Brendler, A. Vyalykh
- P90 Investigation of Local Structures and Li Ion Dynamics in Li_{1.2}Al_{0.6}Ti_{1.4}(PO₄)₃ and Li_{1.6}Al_{0.6}Ge_{1.4}(PO₄)₃ by NMR Spectroscopy**
S. Indris, M. Scheuermann, M. Rhode, K. Zick, M. Knapp, H. Ehrenberg
- P91 Dynamics of Polyacid Chain Segments in Polyelectrolyte Complexes Studied by Spin-Label EPR Spectroscopy**
U. Lappan, B. Wiesner, U. Scheler
- P92 Investigations of polymer dynamics in PEO-silica nanocomposites**
Y. Golitsyn, G.J. Schneider, K. Saalwächter
- P93 ⁷Li NMR Study of the Lithium Ion Dynamics in 0.7Li₂S + 0.27B₂S₃ + 0.03B₂O₃**
G. Dost, M. Haaks, O. Petrov, M. Vogel, S.W. Martin
- P94 Correlation between structure and alkali corrosion behaviour of potassium aluminosilicates as seen by ²⁷Al and ²⁹Si Solid State NMR and chemometric methods**
A. König, N. Brachhold, M. Schmidt, E. Brendler, C.G. Aneziris, M. Otto
- P95 Electrical Functional Materials investigated by means of Solid State-NMR**
P.B. Groszewicz, H. Breitzke, W. Jo, M. Gröting, R. Dittmer, E. Sapper, K. Albe, J. Rödel, G. Buntkowsky
- P96 An advanced structure study of cellulose hybrid materials by solid-state dynamic nuclear polarization (DNP) NMR**
L. Zhao, W. Li, A. Plog, G. Buntkowsky, T. Gutmann, K. Zhang
- P97 Applications of Solid State Dynamic Nuclear Polarization NMR on Heterogeneous Catalysts**
A.S. Thankamony, O. Lafon, D. Carnevale, V. Polshettiwar, T. Gutmann, G. Buntkowsky

- P98 Hydrogen/Deuterium Exchange and Ammonia Adsorption on Ligand Stabilized Metal Nanoparticles Investigated by Gas Phase and Solid State NMR**
N. Rothermel, T. Gutmann, K. Philippot, B. Chaudret, G. Buntkowsky
- P99 Solid State NMR as a Powerful Tool for Characterization and Understanding of Immobilized Dirhodium (II) Catalysts**
J. Liu, T. Gutmann, Y. Xu, K. Zhang, P.B. Groszewicz, L. Zhao, A.S. Thankamony, N. Rothermel, H. Breitzke, G. Buntkowsky
- P100 Time-Resolved EPR and Theoretical Investigations of Excited Triplet States of Thiophene-Decorated Phenazines**
H. Matsuoka, L. Röck, M. Retegan, F. Neese, C. Bannwarth, S. Grimme, S. Höger, O. Schiemann
- P101 Triplet Exciton Formation in High-Efficiency Donor-Acceptor Photovoltaic Blends**
S. Vähä, K. Tvingstedt, A. Baumann, A. Sperlich, V. Dyakonov, J. Love, T.-Q. Nguyen
- P102 High temperature in-situ and ex-situ high temperature SSNMR studies of Sodium Aluminum Metaphosphate Glasses**
S. Venkatachalam, L. van Wüllen
- P103 Structure, phase separation and Li dynamics in solid electrolyte $\text{Li}_{1+x}\text{Al}_x\text{Ge}_{2-x}(\text{PO}_4)_3$, studied by solid state NMR**
Z. Liu, S. Venkatachalam, H. Kirchhain, L. van Wüllen
- P104 NMR Investigation of Carbon Fibers and their effect to polymerization of epoxy resin**
A. Nizamutdinova, S. Venkatachalam, L. van Wüllen
- P105 Effects of Confinement on the Dynamics of Aqueous Mixtures**
M. Sattig, M. Reuhl, M. Vogel
- P106 ^7Li NMR studies of lithium ion dynamics in ceramics**
M. Haaks, S.W. Martin, M. Vogel
- P107 ^2H NMR on fluids in soft confinement**
M. Lannert
- P108 Diffusive Diffraction of Cylinders in the 100 nm Range**
S. Reutter, F. Fujara, C. Trautmann

Materials in Solution / Polymers / Catalysis

- P109 Correlating Crystallization Kinetics and Rheological Properties of Polyethylene Using a New Low-Field Rheo-NMR Combination**
M.B. Özen, V. Röntzsch, K.-F. Rätzsch, M. Wilhelm
- P110 Crystallization of Polypropylene Materials Studied by Low-Field RheoNMR**
V. Röntzsch, M.B. Özen, K.-F. Rätzsch, J.K. Palacios, A.J. Müller, G. Guthausen, M. Wilhelm
- P111 Red Phosphorus in Ionic Liquids - Reaction monitoring by NMR spectroscopy**
S. Paasch, M. Groh, A. Weiz, M. Ruck, E. Brunner
- P112 Spin relaxation study of ^7Li dynamics in polymer gel electrolytes**
 M. Brinkkötter, M. Gouverneur, F. Vaca Chávez, P. Sebastião, M. Schönhoff

Mixtures / Metabolomics / Fragment-based Drug Design

- P113 Application of $^1\text{H-NMR}$ -Spektroskopie for analysis of the geographical origin of Hazelnuts**
R. Bachmann, T. Hackl, M. Fischer
- P114 Identification of Plasma Metabolites Prognostic of Acute Kidney Injury after Cardiac Surgery with Cardiopulmonary Bypass**
H.U. Zacharias, J. Hochrein, F.C. Vogl, G. Schley, F. Mayer, C. Jeleazcov, K.-U. Eckardt, C. Willam, P.J. Oefner, W. Gronwald
- P115 Profiling metabolic changes in tumor metabolism**
P. Schwarzfischer, M. Schmidt, D. Kube, L. Dimitrova, K. Kleo, M. Hummel, K. Dettmer, P. Oefner, W. Gronwald
- P116 Novel strategy for the identification of (food-)metabolites by correlation of HPLC/MS- and NMR-Spectra (3DCC)**
A. Bollen, M. Fischer, B. Meyer, T. Hackl
- P117 Metabolic changes during cellular senescence investigated by NMR spectroscopy**
C. Windler, C. Gey, D.H. Rapoport, K. Seeger

Small Molecules / Solution State Methods

- P118 Still shimming or already measuring? – Quantitative reaction monitoring for small molecules on the subminute timescale by NMR**
J. Kind, C.M. Thiele
- P119 Slice-Selective NMR Spectroscopy as Versatile Tool for Chemists**
M. John, A.-C. Pöppler, T. Niklas, D. Stalke
- P120 Detection of fast exchangeable unpaired imino protons in RNA with chemical exchange saturation transfer experiments**
N. Kubatova, B. Fürtig, A. Cherepanov, C. Richter, H. Schwalbe
- P121 Investigation of a threefold photochromic System with in situ irradiation and online NMR**
J. Kind, M. Leyendecker, C.M. Thiele
- P122 Supramolecular lyotropic liquid crystalline phases as alignment media**
M. Leyendecker, N.-C. Meyer, C.M. Thiele
- P123 ^{15}N NMR Spectroscopy in Coordination Chemistry**
W. Baumann, C. Kubis, D. Thomas, M. Horstmann
- P124 A new polyglutamic acid based alignment medium for NMR spectroscopy of small organic molecules**
S. Hansmann, C.M. Thiele

- P125 Quality of NMR Spectra Assignments and Standards for Scientific Publications: Concepts and Free Software Tools to Improve Analysis of Small Organic Compounds and Workflows in Academic NMR Facilities**
S. Kuhn, J.C. Liermann, [N.E. Schlörer](#)
- P126 Regulation of Quadrupolar Splittings in NMR Experiments on Anisotropic Samples**
[S. Weißheit](#), J. Ilgen, A. Beimel, R. Kümmerle, P. Lendi, R. Hensel, D. Moskau, V. Schmidts, C.M. Thiele
- P127 Desktop NMR spectroscopy for quality control and reaction monitoring**
K. Singh, E. Danieli, [B. Blümich](#)
- P128 Understanding the origin of the selectivity of the organocatalyzed enantioselective acylation of 1,2-alkane diols**
A. Kolmer, [M. Köberle](#), M. Fredersdorf, A.-C. Pöppler, C.E. Müller, P.R. Schreiner, C.M. Thiele
- P129 Conformational analysis of an antibiotic cyclodepsipeptide**
[M. Fredersdorf](#), M. Kurz, L. Lannes, C. Rigling, M.-O. Ebert, C.M. Thiele
- P130 Photo-Induced Lipid Oxidation Studies by High-Resolution NMR Spectroscopy**
[Yu.E. Moskalenko](#), C.M. Marques, M.S. Baptista
- P131 In situ NMR measurements on the formation of Zeolitic Imidazole Frameworks**
[J.G. Schiffmann](#), S. Springer, L. van Wüllen
- P132 Solution Structure of 1H-Benzo-1,5-diazepines**
F. Bendrath, V. Specowius, M. Winterberg, W. Desens, P. Langer, [D. Michalik](#)
- P133 Automated Structure Verification: What are the Right Experiments and Processing?**
S. Golotvin, R. Pol, P. Keyes, P. Wheeler, [G. Rheinwald](#)
- P134 Conformational and configurational information of (chiral) molecules determined by cross-linked, helically-chiral poly(phenylacetylenes) as alignment media**
[K. Wolf](#), M. Reggelin
- P135 Aspartic acid based Polyarylacetylene as Enantiomer Differentiating Alignment Medium**
[A. Proskurjakov](#), M. Reggelin

Spin Dynamics / Theory

- P136 SPIDYAN - A MATLAB Library for Simulating Pulse EPR**
[S. Pribitzer](#), A. Doll, T. Segawa, G. Jeschke