

62nd Rocky Mountain Conference on Magnetic Resonance
44th International EPR Symposium
Poster Presentations

Monday, July 24: 7:00-9:00 pm (Authors Present for Posters Labeled A)

Tuesday, July 25: 7:00-9:00 pm (Authors Present for Posters Labeled B)

| | |
|---|--|
| A | Towards Spectroscopic Observation of Electric Field-Effects on Molecular Nanomagnets. Francisca Abdo Arias, Amherst College |
| B | A Preliminary Study on the Spin Sensitivity of Near Zero Field Magnetoresistance Spectroscopy. Elijah A. Allridge, Penn State University |
| A | Electron Spin Relaxation of the SO₂⁻ and SO₃⁻ Radicals in Na₂S₂O₄, Na₂S₂O₅, and K₂S₂O₅. Georgina Amassah, University of Denver |
| B | DEER Spectroscopy Demonstrates the Link Between Conformational Heterogeneity and the Signaling Efficacy and Bias of Ligands for the beta-2-adrenergic Receptor (β₂AR). Patrick C. Brennan, Medical College of Wisconsin |
| A | Ground, Ping, Ring, Loop – Estimating Magnetic Field Fluctuations Near a Ferromagnet. Russell W. Burgett, Cornell University |
| B | Spectral Simulation and Spin Quantitation for Nitroxide Radicals in Mouse Lungs at L-band. Autumn Canny, University of Denver |
| A | EPR and DFT Studies of Iron, Cobalt, and Nickel Compounds That Feature a Phosphine-Substituted Bis(imino)pyridine Chelate. Marco Flores, Arizona State University |
| B | Maximizing Modern CW EPR: Overmodulation <i>via</i> Regularization. John M Franck, Syracuse University |
| A | Defining The Conformational Landscape Governing Ligand-Mediated β₂ Adrenergic Receptor Signaling Using Pressure Resolved Double Electron Electron Resonance (PRDEER) Spectroscopy. Alexander M. Garces, Medical College of Wisconsin |
| B | Electron Paramagnetic Resonance of Actinide Coordination Complexes. Samuel M. Greer, Los Alamos National Laboratory |
| A | Characterization of Protein Conformational Exchange Kinetics Using Pressure-jump EPR. Julian D. Grosskopf, Medical College of Wisconsin |
| B | Optically Detected Magnetic Resonance on Optoelectronic Systems. Jeannine Grüne, University of Cambridge, University of Wuerzburg |
| A | Development of a Pre-Clinical 1 GHz EPR Imager. Tanden A. Hovey, University of Denver |
| B | Overhauser DNP Solvent Dynamics Measurements of Binary Mixtures. Timothy J. Keller, Bridge12 Technologies, Inc. |
| A | A Novel Simulation Strategy Facilitates the Design of Resonator Coupling -- An Application to ODNP. Warren F. Kincaid, Syracuse University |
| B | The Control of Catalytic Reactivity in [FeFe]-hydrogenases Examined Through Multifrequency CW and Pulse EPR. Effie C. Kisgeropoulos, National Renewable Energy Laboratory |
| A | Assessment of Blood-Brain-Barrier Leakage and Brain Oxygenation in Connexin-32 Knockout Mice with Systemic Neuroinflammation Using EPR Imaging. Mrignayani Kotecha, O2M Technologies, LLC |
| B | Characterization of Mn²⁺-substituted Cyclic GMP-AMP Synthase (cGAS). Molly M. Lockart, Samford University |
| A | Impact of Metal-Organic Framework (MOF) Crystallinity on Enzyme Orientation and Dynamics. Austin L. MacRae, North Dakota State University |

| | |
|---|--|
| B | The Landau-Zener-Stückelberg-Majorana Transition in the $T_2 \ll T_1$ Limit. John A. Marohn, Cornell University |
| A | Investigating Role of Nuclear Spin Patterning and Counterion on Spin Relaxation in V(IV) Complexes. Roxanna Martinez, Colorado State University |
| B | A Versatile Setup for FTIR Spectroscopy in High Magnetic Fields. Petr Neugebauer, Brno University of Technology |
| A | Spin-Correlated Radical Pairs in Quantum Dot-Organic Molecule Conjugates. Jens Niklas, Argonne National Laboratory |
| B | The Loop-zag Resonator: A Loop-gap Resonator Design for Improved Sensitivity in Electron-spin Resonance Experiments. Brendan C. Sheehan, Amherst College, University of Massachusetts Amherst |
| A | Characterization of Free Radical Intermediates Generated by Nanoparticle Additives to Oil-based Lubricants. Tatyana I. Smirnova, North Carolina State University |
| B | Investigating Methyl-driven Electron Spin Decoherence. Stefan Stoll, University of Washington |
| A | Spectroscopic investigation of Mn(II)-Dependent Enzyme from <i>Rhodospirillum rubrum</i>. Rachelle Stowell, University of Washington |
| B | A High-Volume Resonator for Continuous Flow Dynamic Nuclear Polarisation. Daniel J. Sung, University of St Andrews |
| A | HiPER - A High Sensitivity AWG EPR/DNP Spectrometer. Daniel Sung, University of St Andrews |
| B | Modulating Berry-Phase Interference Using a Pneumatic-Pressure Based Probe. Kobe Thompson, Amherst College |
| A | Chemical Mimicry: Designing Magnetic Nuclei to Act Like Electrons. Okten Ungor, Colorado State University |
| B | The Role of a Conserved Ionic Lock in Transport by an Outer Membrane Protein. Viranga W Wimalasiri, University of Virginia |