60th Rocky Mountain Conference on Magnetic Resonance 42nd International EPR Symposium Poster Presentations

Monday, July 22: 7:00-9:00 pm (Authors Present for Posters Labeled A)

Tuesday, July 23: 7:00-9:00 pm (Authors Present for Posters Labeled B)

	Photochemical Electron Doping of Colloidal SrTiO ₃ Nanocrystals: Effect of Hole
А	Quencher and Carriers Densities.
	Muhammad Abdullah, University of Massachusetts Amherst
В	A Closer Look at Confined Water: Use of Overhauser Dynamic Nuclear Polarization to
	Study Nanoscale Water Dynamics in Aerosol-OT Reverse Micelle Model Systems.
	Alec A. Beaton, Syracuse University
	A Multimodal Method for the Investigation of Complex Protein Systems with Site-
А	Directed Spin-Labeling.
	Samantha M. Betts, Syracuse University
Р	Decoherence of Molecular Spin Qubits in Solution.
В	Elizabeth R. Canarie, University of Washington
•	Characterization of Expansible Argilominerals in Reservoir Rocks by Relaxometry.
A	Gilson Da Silva Júnior, Federal University of Rio de Janeiro
	Development of a New and Greener Calibration Reaction for Use with Rapid-Freeze-
В	Quench Apparatus for EPR Spectroscopy.
	Peter E. Doan, Northwestern University
	Hydration Environment Characterizations of the Folding of IA ₃ , an Intrinsically
А	Disordered Protein.
	Katie M. Dunleavy, University of Florida
	Redox Regulation by Extracellular Superoxide Dismutase (EC-SOD) Due to the R213G
В	Variant in Bleomycin-induced Lung Injury.
	Hanan Elajaili, University of Colorado Anschutz Medical Campus
	Allosteric Gating in Cyclic Nucleotide-gated Ion Channels: New Insights from DEER
А	Spectroscopy.
	Eric G. B. Evans, University of Washington
р	Measuring, Processing and Analysing Non-Uniform Sampled HYSCORE with Hyscorean.
В	Luis Fábregas Ibáñez, ETH Zürich
А	Spin-probe EPR of Nanoheterogeneous Media: MOFs and ILs.
	Matvey V. Fedin, International Tomography Center SB RAS
	Pulsed Dipolar EPR Distance Measurements using Orthogonal Labeling with Triplet
В	Fullerene and Nitroxide or Triarylmethyl Radicals.
	Matvey V. Fedin, International Tomography Center SB RAS
Δ	Understanding Linewidth of ESR Spectrum Detected by a Single NV Center in Diamond.
A	Benjamin Fortman, University of Southern California
В	Effect of Freezing Method on Polarizability of Finland Trityl.
	Benjamin R. Fowler, University of Alabama
Α	Advancing Liquid-State Overhauser DNP Instrumentation and Applications.
	John M. Franck, Syracuse University
В	Determining Protein-DNA Interaction using Copper-based EPR Techniques
	Shreya Ghosh, University of Pittsburgh

	Beyond Pairwise Distance Determination: Resolving Dynamic Conformational Change
А	in CDF Regulatory Domains.
	Jenny Hall, University of East Anglia
	Hyperpolarization and Bath Spectroscopy of Individual ¹³ C Nuclei in Diamond via
В	ODMR.
	Konstantin Herb, ETH Zürich
^	Development of Enzyme Responsive Spin Probes for Non-Invasive Imaging of Enzyme
A	Activity by EPR.
	Justin Huffman, West Virginia University
P	Protein and Solvent Dynamical Contributions to the Radical Rearrangement Catalysis
В	of 2-Aminopropanol in the B ₁₂ -Dependent Ethanolamine Ammonia-Lyase.
	Alina Ionescu, Emory University
А	Nuclear-Spin-Pattern Control of Electron-Spin Dynamics in a Series of V(IV) Complexes.
	Cassidy E. Jackson, Colorado State University
	Simulating Electronic Decoherence in Glassy Samples via Cluster Expansion
В	Methodologies.
	Samuel M. Jahn, University of Washington
	Tailored Nuclear Spin Dynamics in a Coordination-Complex Vessel.
A	Spencer Johnson, Colorado State University
_	Adjustable Frequency and Variable Coupling EPR Probe with Loop-Gap Resonators for
В	Spectroscopy up to X-Band.
	Gajadhar Joshi, Amherst College
	Experimental Validation of the ALLNOX Program for Studying Protein–Nucleic Acid
А	Complexes.
	Venkatesan Kathiresan, University of Southern California
_	Progress Towards Time-Resolved Measurements of Light-Induced Conformational
В	Changes in Gd ³⁺ Spin-Labeled Proteins by cw-EPR at 240 GHz.
	Marzieh Kavand, University of California Santa Barbara
	X-band EPR Studies on Ion Beam Irradiated YIG Thin Films; Reconfiguration of
A	Structural and Magnetic Properties.
	Bijoy Kumar Kuanr, Jawaharlal Nehru University
	Modulation of Radical Reaction-Protein-Solvent Coupling in the B12-Dependent
В	Ethanolamine Ammonia-Lyase Enzyme by using Sucrose in the Low-Temperature
	Mesodomain System.
	Wei Li, Emory University
А	Studying Drug-Drug Interactions in Cytochrome P450 3A4 with EPR.
	Molly Lockart, University of Alabama
В	New Spin Labels and Spin Labeling Methods.
	Janet E. Lovett, University of St Andrews
	EPR Spectroscopy Across the Spectrum – From Coordination Complexes to Whole
A	Cells.
	Heather R. Lucas, Virginia Commonwealth University
	Electrically Detected Electron Nuclear Double Resonance in a Fully Processed Bipolar
В	Junction Transistor.
	Brian R. Manning, Pennsylvania State University
	An Improved Adaptive Signal Averaging Approach for Optimizing Signal to Noise in
А	Continuous Wave Magnetic Resonance Measurements.
~	Brian R. Manning, Pennsylvania State University
В	Evaluation of Aromatic Rings Hydrogenation in Hidrocarbon Resins by NMR
	Spectroscopy.
	Antonio Marchi Netto, Braskem

	Structural Dumentics of Diamolecules through Atomistic Circulations Cuided hu DEED
^	Structural Dynamics of Biomolecules through Atomistic Simulations Guided by DEER Measurements.
A	
	Fabrizio Marinelli, National Institutes of HealthFast Full-spectrum Kinetics Experiments by Rapid Scan EPR at X-band.
В	Joseph E. McPeak, University of Denver
	Calculation of Polycrystalline Pulsed EPR Signals with Relaxation by Phonon
	Modulation of Hyperfine and g Tensors Rigorously in Liouville Space using Stochastic
А	Liouville Equation.
A	Sushil K. Misra, Concordia University
	Lineshape Analysis of NV-detected Nanoscale EPR Spectroscopy.
В	Laura Mugica, University of Southern California
	Protein Cofactor Control of H ₂ Catalysis by [FeFe]-hydrogenase as Studied by
А	Correlated Spectroscopy.
~	David W. Mulder, National Renewable Energy Laboratory
	The Quintet State Generation Process via Inter- and Intra-molecular Singlet Fission.
В	<u>Hiroki Nagashima, Kobe University</u>
	Multi Frequency ESR Measurements of Organic Low-dimensional Antiferromagnets.
А	<u>Toshikazu Nakamura</u> , Institute for Molecular Science
	Synthesis and Electron Spin Relaxation of Bis-Spirooxetane Nitroxide.
В	Thacien Negendahimana, University of Denver
	Positron Emission Tomography - Electron Paramagnetic Resonance Coimaging System:
۸	First Development Steps.
A	Ryan C. O'Connell, West Virginia University
	Application of Pulse Shaping in Double Electron-Electron Resonance Spectroscopy at
р	
В	115/230 GHz.
	Zaili Peng, University of Southern California Combination of DFT Calculation and Solid State ¹³ C NMR in the Evaluation of Efavirenz
^	
A	Polymorphs. Taiana Lucia Emmanuel Pereira, Universidade Federal do Rio de Janeiro
	Electrostatics of Silica Nanoparticle - Water Interface by EPR of pH-Sensitive Spin
В	Probes.
D	
	Vladislav Perelygin, North Carolina State University Frequency-Chirped Millimeter-Wave Control of ¹³ C-DNP in Diamond.
А	
	Chandrasekhar Ramanathan, Dartmouth College
D	Radical Clouds: Determining How Light Generates Free Radicals in Cloud Droplets in
В	the Atmosphere.
	Victoria L. Rubio, University of Denver
^	A THz ESR Study under High-Pressure using Hexaaqua Complex Salt Containing High-
A	Spin Metal Ion.
	Yu Saito, Kobe University
В	Rapid Scan EPR Imaging of a Multi-sample Phantom.
	Yilin Shi, University of Denver
	Absorption and Dispersion Component Selection in a Non-Resonant Interferometric
A	ESR Spectrometer.
	Pragya R. Shrestha, National Institute of Standards and Technology
В	Magnetic Interactions and Coherence Transfer in Magnetic Graphene Nanoribbons.
	Michael Slota, Oxford University
A	Ultra High Vacuum Transfer Chamber for High Field – Electron Paramagnetic
	Resonance.
	Antonin Sojka, Central European Institute of Technology
В	Dipolar Linewidth and Decay of a Homogenous Distribution of Polarized Spins.
-	Sarah R. Sweger, University of Washington

A	Effects of Natural Polymorphisms of Subtypes F and H HIV-1 Protease on Protein
	Conformations: A DEER and MD Investigation.
	<u>Trang T. Tran</u> , University of Florida
В	A New Insight into Stereolithography: EPR Mapping of Oxygen in 3D Printed Objects.
D	Oxana Tseytlin, West Virginia University
	Comparative EPR and Structural Analysis of MgFe ₂ O ₄ -ZnO Nanocomposite and its
А	Constituents.
	Garima Vaish, University of Allahabad
	Control of Solvent Dynamics and Confinement Effects Around the B12-Dependent
В	Ethanolamine Ammonia-Lyase in Frozen Aqueous Solutions by using Dimethyl
D	Sulfoxide Adjustment of Mesodomain Volume.
	Kurt Warncke, Emory University
	Investigating the Oxidative Potential of Secondary Organic Aerosols on
А	Polyunsaturated Fatty Acids and Lipid Membranes.
	Meghan White, University of Florida
Р	A Cyclic Disulfide Bridged Dinitroxide Probe for Determining Tissue Redox Status.
В	Lukas B. Woodcock, University of Denver
	H/D Isotope Effects: Experimental Evidence for the Key Role of Intramolecular
А	Vibrations in Spin Dynamics.
	Tongtong Xiao, Huazhong University of Science and Technology
	Mapping Out the Degree of Freedom of Hosted Enzymes in Confined
В	Spatial Environments using EPR Spectroscopy.
	Zhongyu Yang, North Dakota State University
	ESR and Magnetization Studies on Cu₄(OH) ₆ FCI: An Antiferromagnet with Kagome
А	Lattice.
	Lei Yin, Huazhong University of Science and Technology
	Steady State and Time Resolved Electron Paramagnetic Resonance Investigations of
	Structured Fluids.
В	Fengdan Zhao, Bowling Green State University
	Site-directed Spin Labeling of Proteins using NcAA-mediated Conjugation Techniques
А	and a Photocaged Nitroxide. Anandi Kugele, University of Konstanz
	Quantum Sensing at High Pressures using Spin Defects in Diamond. Satcher Hsieh, University of
В	California Berkeley
۸	Determining the Relative Orientation of Rigidly-Bound Cu ²⁺ Spin Labels in Biomolecules by
A	Electron Paramagnetic Resonance. Austin Gamble Jarvi, University of Pittsburgh
В	From Structure to Function: Multifrequency Pulsed EPR Investigations of Assembly
	Intermediates in Mn/Fe R2lox. Effie K. Miller, The Ohio State University