

**57th Rocky Mountain Conference on Magnetic Resonance
38th International EPR Symposium
Poster Presentations**

Monday, July 27: 7:30-9:00 p.m. (Authors Present for Posters Labeled A)

Tuesday, July 28: 7:30-9:00 p.m. (Authors Present for Posters Labeled B)

A	Electrically Detected Magnetic Resonance Measurements via Spin Dependent Charge Pumping and Other Detection Schemes in SiC Metal-Oxide-Semiconductor Field-Effect Transistors. Mark Anders, Penn State University
B	EPR of Di- and Tri-Nuclear Mixed-Valence Copper Amidinate Complexes from Reduction of Iodine. William E Antholine, Medical College of Wisconsin
A	Morphology and Photoexcitation Dependence of Optically Detected Magnetic Resonance in MEH-PPV Thin Films. Douglas L Baird, University of Utah
B	Solution State Overhauser Dynamic Nuclear Polarization at 10 mT. Joshua R. Biller, National Institute of Standards and Technology
A	Pulse Shaping at L-band using an Arbitrary Waveform Generator. Laura A Buchanan, University of Denver
B	Fast Frequency Swept EPR for Optimizing Microwave Efficiency in DNP NMR of Small Samples. Anne M Carroll, Yale University
A	Advantages of the Rotated and Modulated Magnetic Field Gradient in 2d Spatial and Spectral-spatial EPR Imaging. Tomasz Czechowski, noviLET
B	DEER Measurements of Copper Porphyrins Stacked on Guanine Quadruplexes. Matthew P Donohue, National Institute of Standards and Technology
A	Bayesian Uncertainty Quantification For DEER Spectroscopy. Thomas H Edwards, University of Washington
B	250 MHz in vivo Rapid Scan Images of pH and Thiol Reductive Status. Boris Epel, University of Chicago
B	Acceleration of Pulse EPR pO₂ Imaging using Low-Rank Tensor Imaging. Boris Epel, University of Chicago
A	Center for Electron Paramagnetic Resonance Imaging In Vivo Physiology - Tissue pO₂ as a Determinant of Tumor Biology. Boris Epel, University of Chicago
B	Solitons in Phthalocyanine Chromophores: Fundamental Study and Implications for Organic Spintronics. Gregory P Eyer, University of Wisconsin-Madison

A	Two-Dimensional Electron-Electron Double Resonance and Molecular Motions: The Challenge of Higher Frequencies. John M Franck, ACERT
B	Multiplex Detection of Magnetic Resonance for π-conjugated Polymer Electronics Devices. Kunito Fukuda, Gunma University
A	SHARED EPR: A Network of EPR Researchers. Gary J. Gerfen, Albert Einstein College of Medicine
B	Influence of Synthesis Route on Magnetic Ordering of $\text{SmxCa}_{1-x}\text{MnO}_3$ ($x=0.35, 0.65$) Manganites: EMR Studies. Lora Rita Goveas, Dr. Ambedkar Institute of Technolog/St. Joseph College
A	EM Simulation Methods to Facilitate Design and Development of Custom Resonators. Alexander Gunn, Independent Consultant, Active Spectrum
B	Investigation of Radical Distribution in Foodstuffs by X-band ESR Imaging. Hideyuki Hara, Bruker Biospin K.K.
A	A Modular Low Frequency EPR Spectrometer for Studying Objects with Cultural Heritage Significance. Joseph Hornak, RIT
A	Low Frequency EPR of Ceramic and Marble Objects with Cultural Heritage Significance. Joseph Hornak, RIT
B	Low-Frequency EPR Imaging of Planar Objects with a Surface Coil. Joseph Hornak, RIT
A	Spin Dynamics of Strongly-Coupled Photogenerated Triradicals. Noah E Horwitz, Northwestern University
B	Electrically Detected Magnetic Resonance Spectroscopy on Monolithic Organic Light Emitting Diodes with built-in Lithographically Defined Microwave Excitation/Magnetic Field Modulation Structures. Shirin Jamali, University of Utah
A	Multi-Harmonics Electrically Detected Magnetic Resonance Spectroscopy of Organic Light Emitting Diodes Using Capacitively Coupled Coplanar Waveguide Resonators. Gajadhar Joshi, University of Utah
B	ESEEM Study of the Initial Stages of Tau Protein Aggregation. Timothy J Keller, University of California Santa Barbara
A	Characterization of the Free Energy Landscape for Radical Rearrangement Catalysis in B_{12}-Dependent Ethanolamine Ammonia-Lyase. Meghan Kohne, Emory University
B	Spin Dynamics of Radical Pairs in Electron Donor-Acceptor Systems using Fourier Transform EPR Methods. Matthew D Krzyaniak, Northwestern University
A	Interaction Between the Influenza HA Fusion Peptide and Transmembrane Domain Affects Membrane Structure. Alex L. Lai, Cornell University

B	Simulating Slow-Motion Continuous Wave EPR Spectra for General Spin Systems Using the Stochastic Liouville Equation. Jeremy D Lehner, University of Washington
A	Structural Changes at the Ferrous Active Site of Phenylalanine Hydroxylase Resulting from Allosteric Activation by Substrate. John McCracken, Michigan State University
B	Low Frequency Electrically Detected Magnetic Resonance and Near-Zero Field Magnetoresistance in a Variety of Amorphous Semiconductors and Dielectrics. Michael J Mutch, Pennsylvania State University
A	Distributions of C-ion and X-ray Induced Sucrose Radicals Investigated by CW EPR and 9 GHz EPR Imaging. Kouichi Nakagawa, Hirosaki University
B	Protein Surface Dynamics and Coupling to Solvent Dynamical Transitions Probed by Using EPR Spectroscopy of Spin-labeled B₁₂-dependent Ethanolamine Ammonia-lyase. Benjamin Nforneh, Emory University
A	EPR Studies of PCBM Derivatives. Saralyn Ogden, University of Washington
B	Rapid Scan Electron Paramagnetic Resonance at L-band of γ-irradiated Organic Solids. Yilin Shi, University of Denver
A	Characterization of a Radical Intermediate in Lipoyl Cofactor Biosynthesis. Alexey Silakov, Pennsylvania State University
B	EasySpin 5. Stefan Stoll, University of Washington
A	Pulse EPR 25 mT Magnetometer with 0.1 μT Resolution. Subramanian Vadathavoor Sundramoorthy, University of Chicago
B	Triplet State Delocalization in Multi-porphyrin Systems. Claudia E. Tait, University of Washington
A	Achieving Control with High-Q Superconducting Resonators in Pulsed Electron Spin Resonance. Grum Teklemariam, Infinite Potential Labs
B	EPR study of KH₂PO₄ Crystals with Embedded TiO₂ Nanoparticles. Romand Tse, Montana State University
A	Full Spectrum Rapid Scan 4D Spectral-Spatial EPR Imaging with Nitroxide Probes at 250 MHz. Mark Tseytlin, Dartmouth College
B	The Effects of Environmental Conditions On Free Radical Levels In Olive Oil. Jagjeet T Wani, Steppingstone MAgnetic Resonance Training Center
A	Brain Tissue Oxygen Measured by Electron Paramagnetic Resonance in Vascular Cognitive Impairment and Methamphetamine Abuse. John M Weaver, University of New Mexico

B	Electron Spin Resonance as a Probe for Antioxidant Mechanisms in Lubricants: ESR Signatures of Some Common Additives. James R White, Active Spectrum
A	High-field ESR Measurements of S=1/2 Frustrated J_1-J_2 Chain System NaCuMoO₄(OH) as a Candidate Substance which Shows a Spin Nematic Phase. Kitahara Yoko, Kobe University