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The Role of Descending Auditory Signals in Neuronal Hyperactivity and Tinnitus	Arizona State University	Timothy Balmer	tbalmer1@asu.edu	Jean-Paul Chretien	BTO
Hierarchical Biocomposites with Exceptional Thermal Conductivity from Synergistic Microbial Biosynthesis	University of Akron	Weinan Xu	weinanxu@uakron.edu	Linda Chrisey	BTO
Ultrathin Sorbent Coatings with Bio-inspired Multi-ligand Binding Sites for Energy-efficient Capture and Release of Carbon Dioxide	Boston University	Joerg Werner	jgwerner@bu.edu	Leonard Tender	BTO
Biocompatible Soft Batteries via Bundles of Axon-Inspired, Ionogel Composite Fibers	Northwestern University	Ryan Truby	rtruby@northwestern.edu	Catherine Campbell	BTO
Moss-Embedded Living Building Materials for Acre-scale Landscape Cooling	University of Tennessee, Knoxville	Hongyu Zhou	hzhou8@utk.edu	Tiffany Prest	BTO
Implantable Tissues with Engineered Cells to Detect and Fight Sepsis	University of Michigan	Aaron Morris	aharmorr@umich.edu	Christopher Bettinger	BTO
Extraction of Many Material Properties from Analysis of a Few Data Rich Experiments	University of South Carolina	Andrew Gross	andrewgross@sc.edu	Andrew Detor	DSO

Learning Material Properties Through High-Speed Image Acquisition During Subtractive Machining	Northwestern University	Ian McCue	ian.mccue@northwestern.edu	Andrew Detor	DSO
Wireless, Self-powered, Triboelectric-nanogenerator-resonance Force Sensing Array	University of California, Irvine	Rahim Esfandyarpour	rahimes@uci.edu	Rohith Chansrasekar	DSO
Power Extraction from Mini-Magnetosphere Polarization Fields	University of Washington	Justin Little	littlej7@uw.edu	Michael Nayak	DSO
Non-Reciprocal Lattices of High-Q Microwave Cavities for Enhanced Magnetometry	Dartmouth	Mattias Fitzpatrick	mattias.w.fitzpatrick@dartmouth.edu	Mukund Vengalattore	DSO
Designing Flow-Separation Evaporative Cooling for 3D Heterogeneous Microsystems	University of Texas at Dallas	Xianming Dai	Dai@utdallas.edu	Yogendra Joshi	MTO
Transient Nanoscale Temperature Mapping of Active RF Devices	Cornell University	Zhiting Tian	zt223@cornell.edu	Thomas Kazior	MTO
Exploring Thermal Properties of Nanoscale Wide Bandgap Semiconductors via Ultrafast Thermal-emission Spectroscopy	University of North Texas_ Xiao	Yuzhe Xiao	yuzhe.xiao@unt.edu	Thomas Kazior	MTO
Few-optical-cycle Nonlinear Nanophotonic Circuits	California Institute of Technology	Alireza Marandi	marandi@caltech.edu	Justin Cohen	MTO

Integrated Femtosecond Pulse Synthesizer	Harvard University	Kiyoul Yang	kiyoul@seas.harvard.edu	Justin Cohen	MTO
On-chip Electrical Synthesis of Few-cycle Light via Optical Frequency Comb	University of Southern California	Mengjie Yu	mengjiey@usc.edu	Justin Cohen	MTO
Aerosol Jet Printing of Bespoke Low-Loss Electronics with Nanocomposite Dielectrics	Iowa State University	Ethan Secor	esecor@iastate.edu	Bryan Jacobs	MTO
Reconfigurable Single Chip Radio Frequency Signal Processor Architecture Search for Edge Efficiency	University of Arizona	Matt Eichenfield	eichenfield@arizona.edu	Benjamin Griffin	MTO
Compound Semiconductor on Piezoelectric Strongly Confined Microacoustic Integrated Circuits (COSMIC) for RF Signal Processing	Northeastern University	Siddhartha Ghosh	s.ghosh@northeastern.edu	Benjamin Griffin	MTO
Hyperdimensional Computing for Robust and Efficient Cognitive Learning	University of California, Irvine	Mohsen Imani	m.imani@uci.edu	Bryan Jacobs	MTO
Contact-free Travelling-wave Optomechanics for Acoustic Material Spectroscopy	University of Rochester	William Renninger	william.renninger@rochester.edu	Benjamin Griffin	MTO
Relation Learning for Proof Automation - PRICELESS	University of Illinois at Urbana-Champaign	Talia Ringer	tringer@illinois.edu	William Martin	I2O

Runtime Identification of Detrimental Augmented Reality (AR) Experiences through AR-specific Quality of Experience (QoE) Modeling and Monitoring	Duke University	Maria Gorlatova	maria.gorlatova@duke.edu	Matthew Wilding	I2O
$\mu$ MAS: Micro-Macro Hardware-Algorithm Architecture Search for Edge Efficiency	Yale University	Priyadarshini Panda	priya.panda@yale.edu	Howard Shrobe	I2O
Nano-Watt Power Machine-Learning Hardware using Precision Analog Computing	Northeastern University	Aatmesh Shrivastava	aatmesh@ece.neu.edu	Howard Shrobe	I2O
Causal Reinforcement Learning (CRL): Decisions, Explanations, and Generalizations	Columbia University	Elias Bareinboim	eb@cs.columbia.edu	Howard Shrobe	I2O
Vehicular Reconfiguration and Rapid Repairs for Remote, Outlying Operations using ML (VRRRROOM)	SRI International	Shon Cook	shon.cook@sri.com	John-Francis Mergen	I2O
Enabling Spectrally Aware Cognitive RF Sensing Principal Investigator	University of Kansas	Patrick McCormick	pmccormick@ku.edu	Frank Robey	STO
Shared Spectrum Target Detection and Track Estimation (STARDATE)	Michigan Technological University	Adam Webb	ajwebb@mtu.edu	Frank Robey	STO