KY NANOTECHNOLOGY AND ADDITIVE MANUFACTURING SYMPOSIUM

"Strengthening Industry Collaborations with Academia"

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Symposium Electronic Proceedings

Poster Abstracts

Low-temperature and Fast Kinetics for CO2 Sorption using Li6WO6 Nanowires

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Compressive Beam for a Bistable MEMS Memory Element

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Microfabricated Sensor for Detection of Trace VOC's

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GaSbP Synthesis by the Halide Vapor Phase Epitaxy Technique: Experiments and Simulation

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Isomotive Dielectrophoresis for Particle Analysis

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Bistable Vibration Energy Harvester as a MEMS Device

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Multi- and Few-Layer Graphene Growth on Si(100) by Pulsed Laser Deposition

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Morphologies and Coarsening of Quantum Nanoislands on Annealed Metal Surfaces

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Laser-Induced Hydrogen Generation from Coal

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The Effects of Photo-Activated Graphene Quantum Dots on Bacterial Deactivation

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Wireless Incontinence Monitoring System for Improved Heath

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Elastic Modulus Dependence on Surface Volume Ratio in Micro Silicon Resonators

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Sintering of Metal Nanoparticles through Repetitive Electrochemical Oxidation-reduction Cycles

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Laminated perovskite solar cells compatible with roll-to-roll manufacturing

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Exploring the unique electrochemical and chemical reactivity of sub 2 nm diameter catalytic Au NPs

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Experimental and Simulation Studies on Electrothermal Microactuators

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Understanding the Role of Nanoparticle Assembly Method and Electrode Material on the Electrochemically-determined Surface Area-to-Volume Ratio

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Dimensional dependence of X-ray radiation damage in MEMS devices

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MEMS Origami for Energy Harvesting at Soft Surfaces

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Investigation of Ultrasound-Assisted Techniques on Enhancing the Mechanical Properties of FDM Parts: Modeling & Experiment

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Degradation Testing of 3D Printed, Anti-HIV Drug Delivery Devices

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Experimental Study of Novel Untethered Light-driven Microrobots

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Fabrication of Nanoscale Columnar Diodes by Glancing Angle Deposition

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Electrical Properties of Perovskites

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A Piezoresistive MEMS Memory Device Using a Buckled Beam

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Teaching Nanomanufacturing Principles Through a Concentrated Hands-on Solar Cell Fabrication Experience

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Fabrication and Characterization of Hydrophilic Electrospun Fibers that Incorporate Probiotics against Bacterial Vaginosis Infection

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