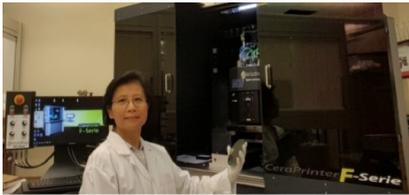


The University of Texas at San Antonio Strengthens Multifunctional Electronic Materials and Devices Research by Acquisition of CERADROP Hybrid 3D Digital Deposition Platform



Newly installed, F-Series at UTSA's MeMDRL (Professor Ruyan Guo)



CERADROP R&D Engineer (Dr. Eloi Beaudrouet) providing training to graduate student researchers at UTSA's MeMDRL

“ Having confirmed our expertise in a combination of the latest technologies and experience in Materials Science, we are proud to supply UTSA's Multifunctional Electronic Materials and Devices Research Lab (MeMDRL) with the cutting-edge Hybrid CeraPrinter F-Series Platform! Such an impressive laboratory working with state-of-the-art printing electronics applications and equipment highlights our partnership in functional materials and devices development. We are delighted to provide the Advanced Platform offering Inkjet and Aerosol Jet® deposition technologies with multi-curing options, characterization facilities, as well as strong CERADROP Process Team support in materials study and functional devices manufacturing. ”

– stated **Tim H. Luong, National Sales Manager at CERADROP.**



“ CERADROP 3D digital deposition system is attractive to our research because we could use this tool to explore materials science and engineering at both material and device levels. We choose CeraPrinter F-Series for its unique strength signified by a combination of multi-nozzle Inkjet printheads with an Aerosol Jet®, which enable us to manipulate a wide array of materials in complex material systems. The modular post-processing capability of the system is attractive to us as well allowing flexibility and subsequent upgrades. We also value the powerful software suite developed by CERADROP that controls components and technologies from different manufacturers seamlessly.

UTSA faculty researchers will conduct a range of projects utilizing both the native and the customized capabilities of the hybrid 3D platform, including development of nanoparticle materials for 3D depositions and fabrication of 3D electronics of micrometer precisions in electrical, mechanical, and biomedical applications. We are particularly interested in design, verification and prototyping of electronics integrated with advanced sensors, actuators and multicomponent-multiferroic composite electronics leading to novel functionalities. The new equipment will strengthen the materials fabrication and modeling capabilities at faculty's labs, provide undergraduate and graduate students with state-of-the-art training and research opportunities, and facilitate collaborations with local industries by providing prototyping/development support.

CERADROP was open in adopting my request to integrate a new optical reflectometer in the F-Series. We also have a very positive experience to date with CERADROP in all aspects of communication, installation, and training. I am thus quite confident that the relationship with CERADROP will not end when the sale is concluded, knowing the company has knowledgeable representatives, top quality engineers, and skilled software and hardware development teams. ”

noted **Professor Dr. Ruyan Guo at UTSA's MeMDRL.**



Ruyan Guo, Ph.D. Robert E. Clarke - Endowed Professor Department of Electrical & Computer Engineering The University of Texas at San Antonio

Learn more about CERADROP Equipment range at www.ceradrop.fr/en



ABOUT CERADROP, A MGI GROUP COMPANY

The MGI Group is composed of MGI Digital Technology, headquartered in Fresnes, France, CERADROP, located in Limoges, France and KÖRA-PACKMAT, located in Villingendorf, Germany. Founded in 1982, MGI Digital Technology designs, manufactures and markets a full and innovative range of award-winning digital presses and a complete line of versatile finishing solutions.

CERADROP designs and markets Materials Deposition Digital Printers exclusively for Printed Electronics Industry and Smart 3D Printing. Thanks to its modular-based scalable concept, CeraPrinter Series models present new opportunities for feasibility study and launch of new products into the Printed Electronics market. Combining several materials deposition technologies as well as the latest generation of curing modules, this equipment line permits to reach a wide range of application fields such as: membrane switch, antennas, sensors, passive components, interconnection, flexible solar cells (OPV), OLED Displays and others...

As the subsidiary of MGI Group focused on Printed Electronics and Smart 3D Printing, CERADROP can call up more than 60 engineers specialized in inkjet engine, mechanics, automation, software, chemistry, and ink management to supply the best materials deposition digital printing solution from advanced R&D up to 24/7 high performance manufacturing including photonic curing and high throughput manufacturing capacity of several m²/min. Moreover, CERADROP is supported by the MGI Group network in 70 countries with 50 representatives. Achieving more than 80% of its turnover from export and providing a unique process support to its customers, CERADROP makes easier and more efficient use of Digital Printing technology for Printed Electronics and Smart 3D Printing worldwide.



ABOUT MULTIFUNCTIONAL ELECTRONIC MATERIALS AND DEVICES RESEARCH LAB, DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING, COLLEGE OF ENGINEERING THE UNIVERSITY OF TEXAS AT SAN ANTONIO

The Multifunctional Electronic Materials and Devices Research Lab (MeMDRL) was established in 2008 in the Department of Electrical and Computer Engineering, College of Engineering, UTSA. It is a 3,500+ sq ft laboratory and is equipped with a broad array of materials synthesis, characterization, and analysis capabilities. The lab's core strength is in materials science, novel synthesis, nonlinear property characterization and finite element numerical simulation. Under the guidance of Dr. Ruyan Guo and Dr. Amar Bhalla, the lab is known for its research and educational accomplishments in electronic ceramic materials area. Current research activities of the lab include design, fabrication, and characterization of multifunctional and multiferroic sensors and actuators; millimeter, microwave and optoelectronic materials and devices; engineered composites and nanocomposites, pyroelectric and piezoelectric devices in resonance enhanced processes and energy transduction applications.

The University of Texas at San Antonio is dedicated to the advancement of knowledge through research and discovery, teaching and learning, community engagement and public service. As an institution of access and excellence, UTSA embraces multicultural traditions and serves as a center for intellectual and creative resources as well as a catalyst for socioeconomic development and the commercialization of intellectual property – for Texas, the nation and the world. UTSA is ranked among the top 400 universities in the world and among the top 100 in the nation, according to Times Higher Education.

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