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Dr. Denys Makarov



Track

Micromotors propelled by ultrasound

Centro de Nanociencias y Nanotecnología



2017



Ensenada, Mexico

Density Asymmetry Driven Propulsion of Ultrasound-Powered Janus Micromotors

M Valdez-Garduño, M Leal-Estrada, **ES Oliveros-Mata**, ...

Advanced Functional Materials 30 (50), 2004043, 2020

Impedimetric nanosensor for microfluidic cytometry

Max Bergman Zentrum



Nov 2018 – Sep 2019



Dresden, Germany

Nanocytometer for smart analysis of peripheral blood and acute myeloid leukemia: a pilot study

J Schütt, DI Sandoval Bojorquez, E Avitabile, **ES Oliveros Mata**, ...

Nano Letters 20 (9), 6572-6581, 2020

Integration of flexible magnetic field sensors for touchless interfaces and soft actuators

Helmholtz-Zentrum Dresden-Rossendorf



October 2019 – Ongoing



Dresden, Germany



Printable and Stretchable Giant Magnetoresistive Sensors for Highly Compliant and Skin-Conformal Electronics

M Ha, GS Cañón Bermúdez, T Kosub, I Mönch, Y Zabala, **ES Oliveros Mata**, ...
Advanced Materials 33 (12), 2005521, 2021



Flexible magnetoreceptor with tunable intrinsic logic for on-skin touchless human-machine interfaces

P Makushko, **ES Oliveros Mata**, GS Cañón Bermúdez, M Hassan, ...
Advanced Functional Materials 31 (25), 2101089, 2021



Reconfigurable Magnetic Origami Actuators with On-Board Sensing for Guided Assembly

M Ha, GS Cañón Bermúdez, JAC Liu, **ES Oliveros Mata**, BA Evans, ...
Advanced Materials 33 (25), 2008751, 2021

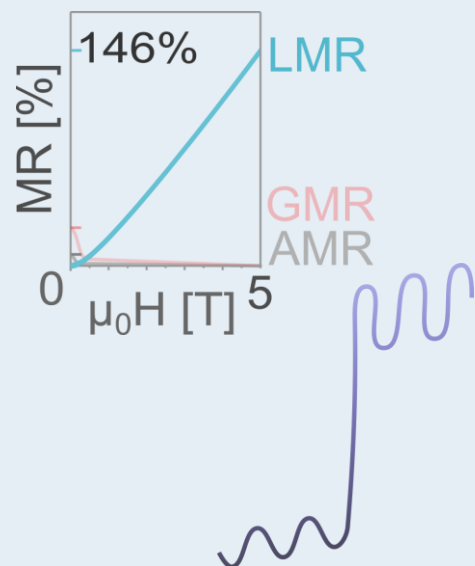
Domain-Wall Damping in Ultrathin Nanostripes with Dzyaloshinskii-Moriya Interaction OM Volkov, F Kronast, C Abert, **ES Oliveros Mata**, T Kosub, P Makushko, ...
Physical Review Applied 15 (3), 034038, 2021

Printable anisotropic magnetoresistance sensors for highly compliant electronics **ES Oliveros Mata**, GS Cañón Bermúdez, M Ha, T Kosub, Y Zabala, ...
Applied Physics A 127 (4), 1-6, 2021

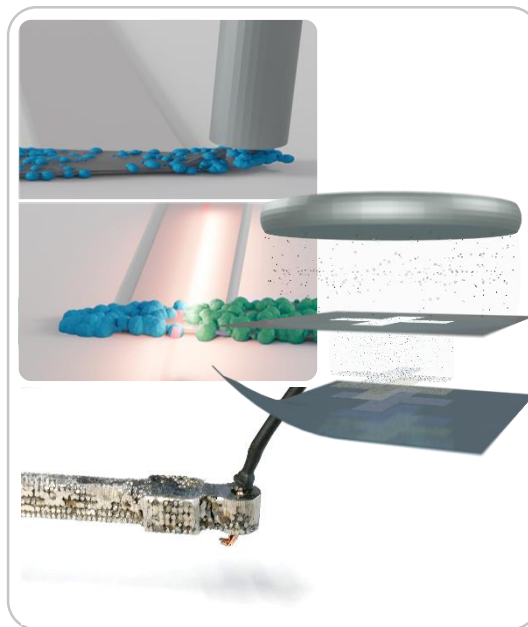
[Dispenser Printed Bismuth-Based Magnetic Field Sensors with Non-Saturating Large Magnetoresistance for Touchless Interactive Surfaces](#) **ES Oliveros-Mata**, C Voigt, GS Cañón Bermúdez, Y Zabala, ...
Advanced Materials Technologies, 2200227, 2022

Research overview

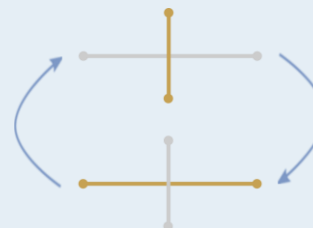
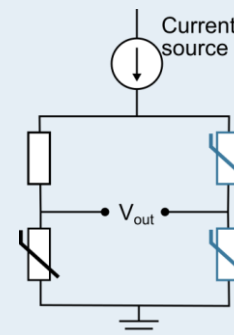
Sensing



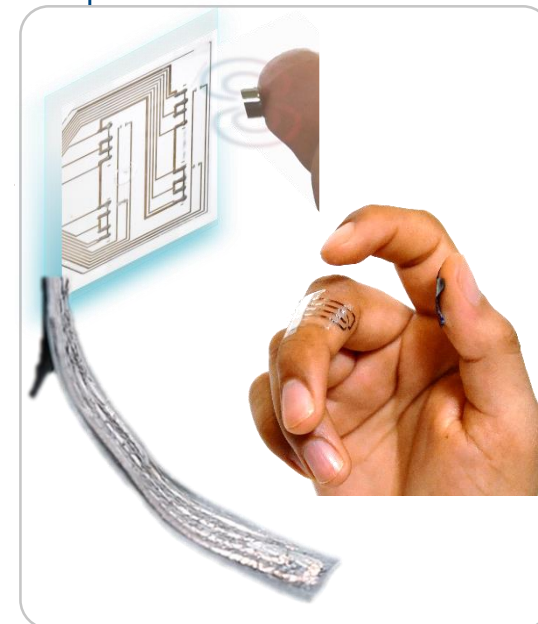
Fabrication



Measuring techniques



Applications



Timeline overview for PhD

