



IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

Session Title	Functional Devices using Thin Flms and Nanoparticles	Session Code	Tu-B1
Date and Time	2018-08-21 / 10:30 - 12:30		
Place	Room B		
Session Chair	TBA		

Tu-B1-1

10:30 - 11:00

[Keynote] Magnetoplasmonic Nanodomains as a Novel Structure for Biomedical Applications

Josep Nogues^{1,2}, Z. Li¹, A. Aranda-Ramos³, A. Lopez-Ortega⁴, P. Güell-Grau³, J.L. Tajada¹, L. Pou-Macayo³, F. Pi³, S. Lope Piedrafita³, M.D. Baró³, J. Sort^{2,3}, P. Vavasori⁴, C. Nogues³, and B. Sepúlveda¹

¹Catalan Inst. of Nanosci. and Nanotech., Spain, ²ICREA, Spain, ³Univ. Autònoma de Barcelona, Spain, ⁴CIC nanoGUNE, Spain

Tu-B1-2

11:00 - 11:30

[Invited] Multifunctional Magnetic Plasmonic Nanoparticles for Innovative Biomedical and Sensing Applications

Elvira Fantechi¹, Alejandro Gomez Roca², Claudia Innocenti³, Borja Sepulveda², Francesco Pineider¹, Claudio Sangregorio^{3,4}, Neus Bastus², Victor Puntès^{2,5,6}, and Josep Nogues^{2,6}

¹Univ. of Pisa, Italy, ²ICN², Spain, ³Univ. of Florence, Italy, ⁴CNR-ICCOM, Italy ⁵Vall d'Hebron Institut de Recerca, Spain, ⁶ICREA, Spain

Tu-B1-3

12:00 - 12:15

Evaluation of Interfacial and Electrical Properties of HfO₂/Ge Stacks Modulated by SiO₂ Interfacial Layer and Post Metallization Annealing

Kumar Mallem¹, Subhajit Dutta¹, Ashwath Rey B.S², Sunhwa Lee¹, Taeyong Kim¹, Yongkuk Kim¹, and Junsin Yi¹

¹Sungkyunkwan Univ., Korea, ²Visvesvaray Technological Univ., India

Tu-B1-4

11:30 - 12:00

[Invited] Controlling Charge Transport in Organic Field-Effect Transistors through the Systematic Polarization of Polar Gate Dielectric Layer

Dipak Kumar Goswami
Indian Inst. of Tech., India