

V. Conference Program / Oral and Poster Session

Room A #101	10:30-12:30	Room B #102	10:30-12:30
[Mo-A1] Big Ideas in Novel Sensors I Session Chairs: Il-Doo Kim (KAIST, Korea), Nicolae Barsan (Univ. of Tuebingen, Germany)		[Mo-B1] Magnetic Nanomaterials Session Chairs: Tamio Endo (Sagamihara Surface Lab), Hanae Kijima-Aoki (Tohoku Univ., Japan)	
Mo-A1-1 [Invited]	10:30-11:00	Mo-B1-1 [Keynote]	10:30-11:00
Stretchable Tactile Sensors and Flexible Sound Detecting Devices for Wearable and Implantable Electronic Applications Steve Park <i>KAIST, Korea</i>		Self-Controlled Magnetic Nanohyperthermia: Ideas, Materials, Prospects of Core-Shell Architecture Oleksandr Tovstolytkin <i>Inst. of Magnetism, Ukraine</i>	
Mo-A1-2 [Invited]	11:00-11:30	Mo-B1-2 [Invited]	11:00-11:30
Thermoelectric Array Sensors for Breath Gas Monitoring Woosuck Shin ^{1,2} , Toshio Itoh ¹ , Akihiro Tsuruta ¹ , and Takafumi Akamatsu ¹ ¹ AIST, Japan, ² Nagoya Inst. of Tech., Japan		Improving the Properties of Iron Oxide in the Ranostic Applications by the Use of Elongated Nanoparticles Javier Muro-Cruces ¹ , Alejandro G. Roca ¹ , Alberto López-Ortega ² , Miryana Hemadi ³ , Igor V. Golosovsky ⁴ , and Josep Nogués ^{1,5} ¹ Institut Català de Nanociència i Nanotecnologia, Spain, ² CIC-Nanogune, Spain, ³ Univ. Paris Diderot, France, ⁴ B.P. Konstantinov Petersburg Nuclear Physics Inst., Russia, ⁵ ICREA, Spain	
Mo-A1-3 [Invited]	11:30-12:00	Mo-B1-3 [Invited]	11:30-12:00
Sensitization by Surface n-p Heterojunction of SMOX Gas Sensors Nicolae Barsan and Udo Weimar <i>Univ. of Tuebingen, Germany</i>		Structural and Spin Interfaces within a Single Magnetic Nanoparticle Barbara Pacakova ^{1,2} , Simona Kubickova ³ , Alice Reznickova ³ , Gorca Salas ⁴ , Marzia Marciello ⁵ , Puerto Morales ⁵ , Daniel Niznansky ³ , Martin Kalbac ¹ , Marco Sanna ⁶ , Carla Cannas ⁶ , and Jana Vejpravova ³ ¹ Czech Academy of Sci., Czech, ² Norwegian Univ. of Sci. and Tech., Norway, ³ Charles Univ., Czech, ⁴ IMDEA Nanosci., Spain, ⁵ Inst. de Ciencia de Materiales de Madrid, Spain, ⁶ Univ. Degli Studi Di Cagliari, Italy	
Mo-A1-4 [Invited]	12:00-12:30	Mo-B1-4 [Invited]	12:00-12:30
Room Temperature Gas Sensors based on Sn Compounds for IoT Chong-Yun Kang ^{1,2} , Young Geun Song ^{1,2} , and Seung Yeop Yi ^{1,2} ¹ KIST, Korea, ² Korea Univ., Korea		Low-Temperature Synthesis of High-Ms Iron-based Nanoparticles and their Nano-Composite Structure for Highly Functionalized Magnetic Device Applications Tomoyuki Ogawa ^{1,2} ¹ Tohoku Univ., Japan, ² Future Materialz Co. Ltd., Japan	