



European Materials Research Society

# 2026 Spring Meeting

May 25 - 29  
Strasbourg Convention Centre

## SYMPOSIUM Ibis

Nanogenerators and smart sensing systems

Oral sessions : MADRID 2 - GROUND FLOOR

*Symposium Organizers:*

Ana Isabel BORRAS MARTOS, Consejo Superior de Investigaciones Científicas, Spain

João VENTURA, University of Porto, Portugal

Renyun ZHANG (Main organizer), Mid Sweden University, Sweden

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Friday May 29  
**Ibis16 Nanogenerators & SS 16**

Chairperson(s): GARIKA Vijay kumar

KHAN Subhash chandra

[View session abstracts](#)

08:30	2819	Structural Design and Performance Study of MXene-based Flexible SERS Substrates <b>CHEN Jiahe (Invited)</b>
09:00	8	Molecularly triggered oxidized MXene chemimemristor, mimicking biological olfactory system at single-device <b>LESTARI Windy</b>
09:15	11	Zero Bias-Operated Ti3C2Tx MXene/Lignin Composite Sensor for High Sensitivity Chemiresistive Detection of CO2 and NO2 <b>DEVARA I Ketut Gary</b>
09:30	2605	Sono-responsive Bio-based Piezoelectric Nanogenerator for Drug Delivery Application <b>MOKHTARI Fatemeh</b>
09:45	519	Meta-Nano-Channel Biological transistors enable direct biosensing of L-Dopa in ultra-small samples of unprocessed and unwashed whole blood <b>RAJPOOT Surbhi</b>

Friday May 29  
**Ibis17 Nanogenerators & SS 17**

Chairperson(s): CHEN Jiahe

MOKHTARI Fatemeh

[View session abstracts](#)

10:30	2683	Novel gating mechanism employed on nano bio-FET towards real-time, point-of-care diagnostics in human whole blood <b>GARIKA Vijay Kumar (Invited)</b>
11:00	1029	A real time, label-free, and specific meta-nano-channel bio-FET approach for resolving subtle RNA-small molecule interactions <b>KHAN Subhash Chandra</b>
11:15	2028	Chitosan-Cul Neuromorphic Sensor Platform Integrating Real-Time Dopamine Sensing by Physical Reservoir Computing <b>SINGH Kshitij Rb</b>
11:30	1213	Scalable Electromechanical Laws in Green SnO2-PVDF Nanofibers: Enabling Autonomous Tactile Sensing in Soft Robotics <b>Singh Vishwa Pratap</b>
11:30	2136	Optimizing Responsivity in Ferro-Pyro-Phototronic Devices: The Role of Ferroelectric Polarization and Structural Configuration <b>KAIM Adrian</b>
11:45	2546	Self Powered AC Dielectrophoretic Assembly of Nanomaterials towards Sustainable Fabrication of Electronic Devices <b>PAZHAYA PUTHANVEETIL Mohammed Hadhi</b>