



We are happy to announce the launch of the [International Workshop on Advanced Materials-to-Device Solutions for Synaptic Electronics](https://intersect-workshop.icn2.cat) that will be held in Barcelona and online on **November 10-12 2021**.

The workshop aims at connecting academic research, R&D labs, and industry on the theme of synaptic electronics and neuromorphic computing, with a specific focus on the role of materials on the efficiency and design of next-generation devices, such as volatile and non-volatile memories and memristors. Particular attention will be dedicated to **materials-to-device modelling and to innovative interoperable automatic workflows for industry-driven applications, in close connection with the experimental side**.

The event will take place **in a hybrid format**, both in Barcelona and online. Researchers and experts in the field are friendly invited to attend the workshop and to submit **oral and/or poster contributions**. On-line poster sessions will be available for both in-person and on-line attendees. The **deadline** for the abstract submission is October 16, 2021.

The **scientific program** will be organized in 3 sessions covering the following **topics**: new materials for synaptic electronics; new materials for synaptic electronics; PCM, ReRAM, ECRAM and ferroelectric memristors; role of disorder, defects, and dopants in memristors; and Interoperability, Ontology & Workflows in materials modelling. See <https://intersect-workshop.icn2.cat> for further details.

The workshop is free but **registration** is needed. The registration form is available at <http://eepurl.com/hlc22T>. The deadline for registrations is **October 16, 2021**.

The workshop is **organized** by the Spanish [Institut Català de Nanociència i Nanotecnologia](https://www.icn2.cat) and the [Institute Nanoscience of the National Research Council of Italy](https://www.nanoscienze.cnr.it), within the activities of the H2020 EU-project [INTERSECT](https://intersect-workshop.icn2.cat).

For more information, visit the workshop website at <https://intersect-workshop.icn2.cat> or write to [workshop@intersect-project.eu](mailto:workshop@intersect-project.eu).



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