

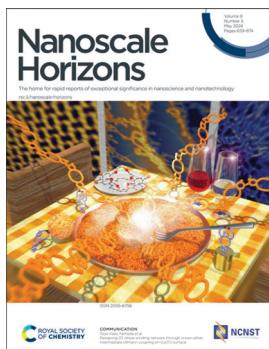
# Nanoscale Horizons

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### Cover

See Toyo Kazu Yamada et al., pp. 718–730.  
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### Inside cover

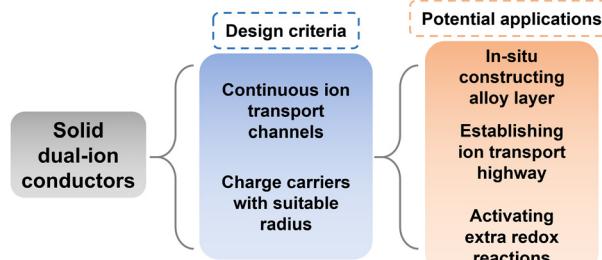
See Horacio Cabral et al., pp. 731–741.  
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## FOCUS

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Tao Yu, Wenjie Ning, Haoyu Li, Shaohua Guo\* and Haoshen Zhou\*

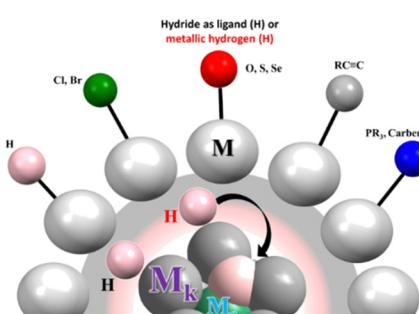


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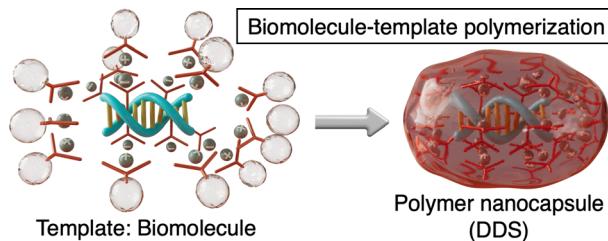


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P. K. Hashim\* and Shima Said Mohamed Ali Abdrabou

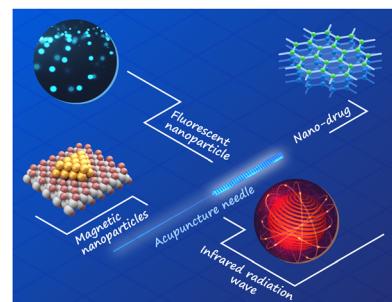


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Wenjie Xu, Yu Xiao, Peng Wang,\* Huan Meng\* and Qingquan Liu\*

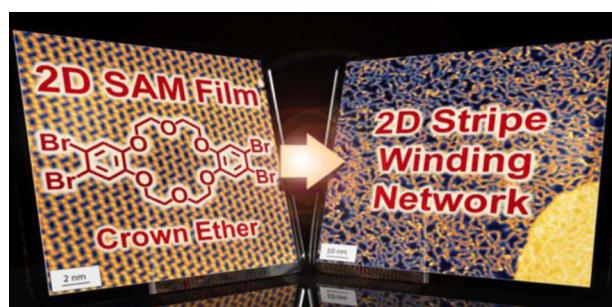


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**Designing 2D stripe winding network through crown-ether intermediate Ullmann coupling on Cu(111) surface**

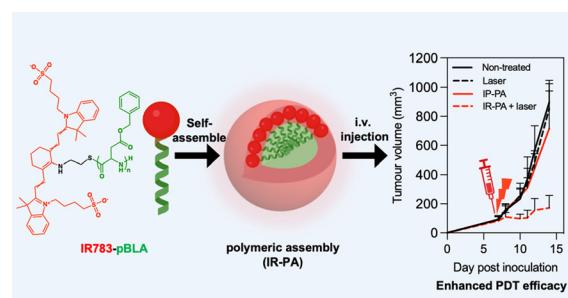
Toyo Kazu Yamada,\* Ryohei Nemoto, Haruki Ishii, Fumi Nishino, Yu-Hsin Chang, Chi-Hsien Wang, Peter Krüger and Masaki Horie



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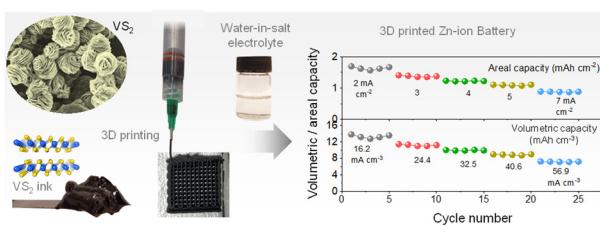
**Nanoassemblies of heptamethine cyanine dye-initiated poly(amino acid) enhance ROS generation for effective antitumour phototherapy**

Pengwen Chen, Shangwei Li, Zhining Xu and Horacio Cabral\*



## COMMUNICATIONS

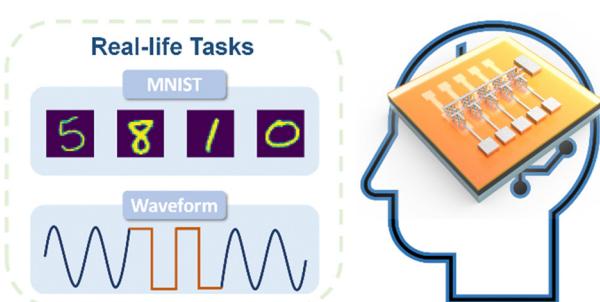
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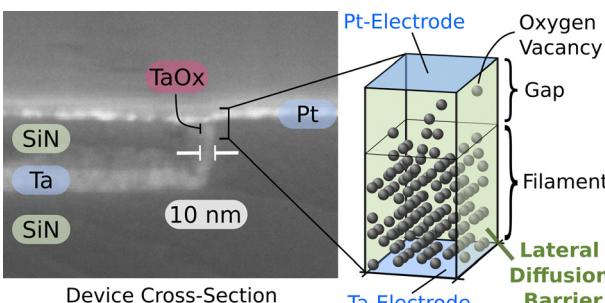
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Lingqi Li, Heng Xiang, Haofei Zheng, Yu-Chieh Chien, Ngoc Thanh Duong, Jing Gao and Kah-Wee Ang\*

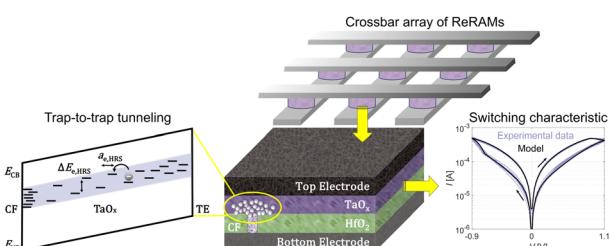
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Donato Francesco Falcone,\* Stephan Menzel, Tommaso Stecconi, Matteo Galetta, Antonio La Porta, Bert Jan Offrein and Valeria Bragaglia

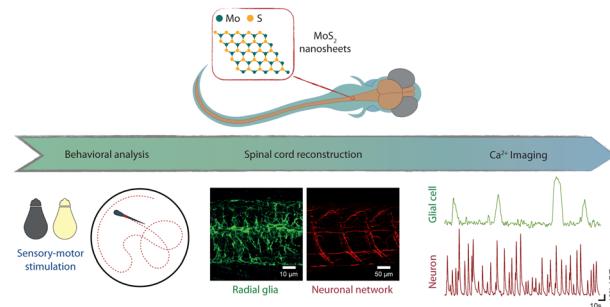


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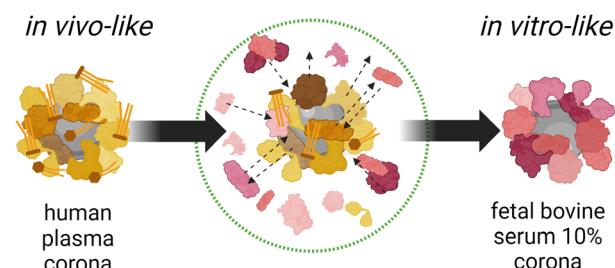
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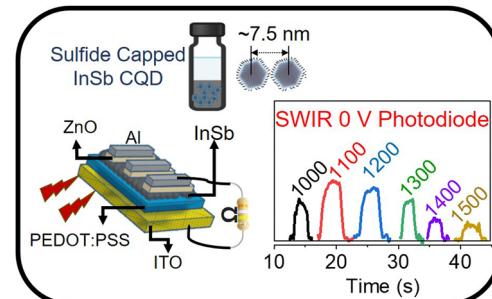
Valentina Castagnola,\* Valeria Tomati, Luca Boselli, Clarissa Braccia, Sergio Decherchi, Pier Paolo Pompa, Nicoletta Pedemonte, Fabio Benfenati and Andrea Armirotti\*



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**Rational ligand design for enhanced carrier mobility in self-powered SWIR photodiodes based on colloidal InSb quantum dots**

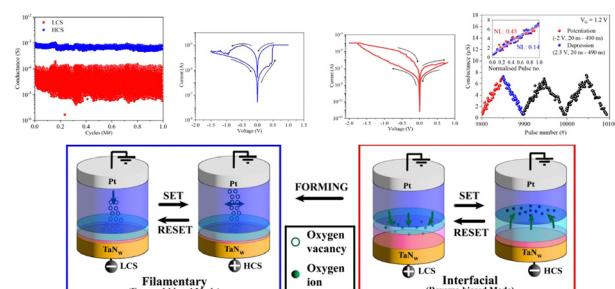
Subhashri Chatterjee, Kazuhiro Nemoto, Hong-Tao Sun and Naoto Shirahata\*



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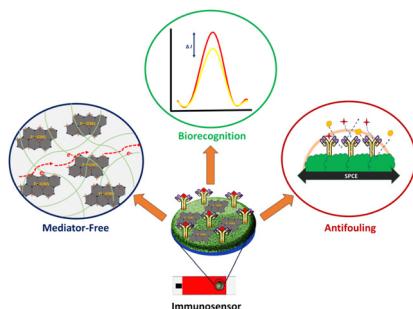
**Unraveling the origins of the coexisting localized-interfacial mechanism in oxide-based memristors in CMOS-integrated synaptic device implementations**

Eng Kang Koh, Putu Andhita Dananjaya, Han Yin Poh, Lingli Liu, Calvin Xiu Xian Lee, Jia Rui Thong, Young Seon You and Wen Siang Lew\*



## COMMUNICATIONS

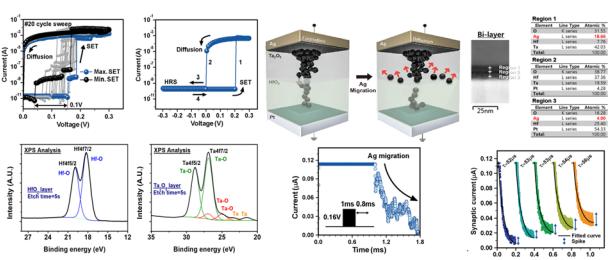
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### Universal nanocomposite coating with antifouling and redox capabilities for electrochemical affinity biosensing in complex biological fluids

Aditya Manu Bharti, R. K. Rakesh Kumar, Cheng-Hsin Chuang\* and Muhammad Omar Shaikh\*

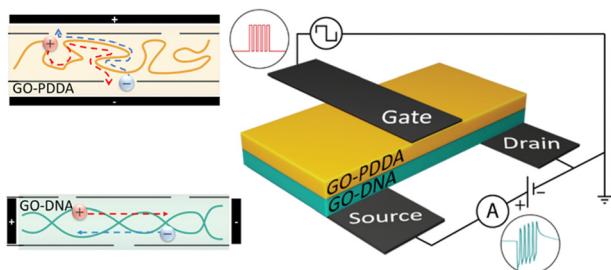
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Yu-Rim Jeon, Deji Akinwande and Changhwan Choi\*

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### Graphene oxide–DNA/graphene oxide–PDDA sandwiched membranes with neuromorphic function

Jia Hui Bong, Sergey Grebenchuk, Konstantin G. Nikolaev, Celestine P. T Chee, Kou Yang, Siyu Chen, Denis Baranov, Colin R. Woods, Daria V. Andreeva\* and Kostya S. Novoselov\*

