

Nanoscale Horizons

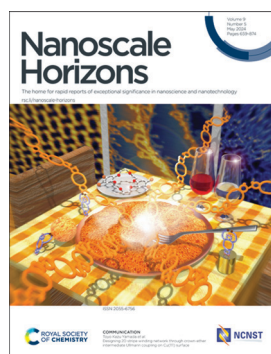
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ISSN 2055-6756 CODEN NHAOAW 9(5) 659-874 (2024)



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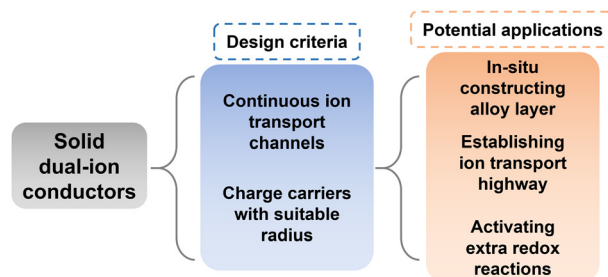
See Horacio Cabral *et al.*, pp. 731–741. Image reproduced by permission of Horacio Cabral from *Nanoscale Horiz.*, 2024, 9, 731.

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Dual-ion conductors: from liquid to solid

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

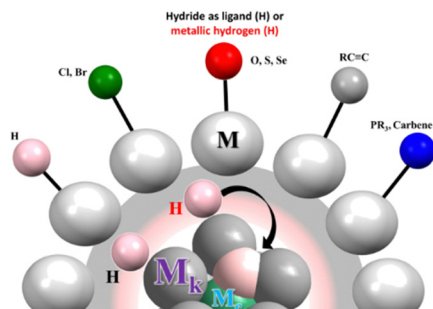


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Hydride-doped coinage metal superatoms and their catalytic applications

Tzu-Hao Chiu, Jian-Hong Liao, Rhone P. Brocha Silalahi, Michael N. Pillay and C. W. Liu*



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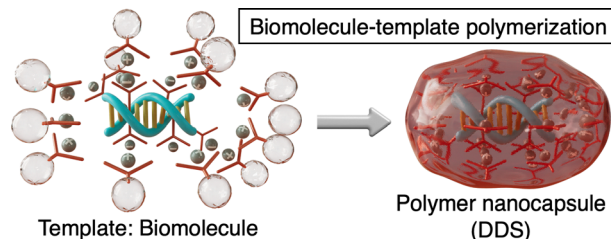


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Sub-100 nm carriers by template polymerization for drug delivery applications

P. K. Hashim* and Shimaa Said Mohamed Ali Abdrabou

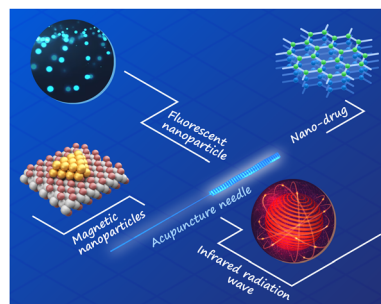


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Use of nano-enabled approaches to advance acupuncture therapy for disease management

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

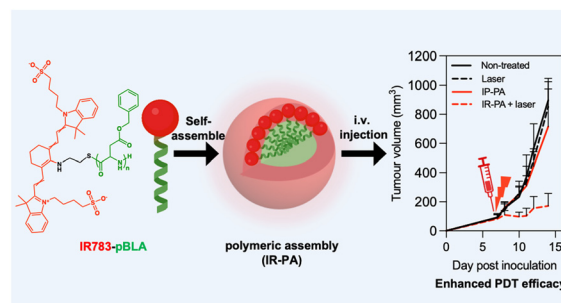
Toyo Kazu Yamada,* Ryohei Nemoto, Haruki Ishii, Fumi Nishino, Yu-Hsin Chang, Chi-Hsien Wang, Peter Krüger and Masaki Horie



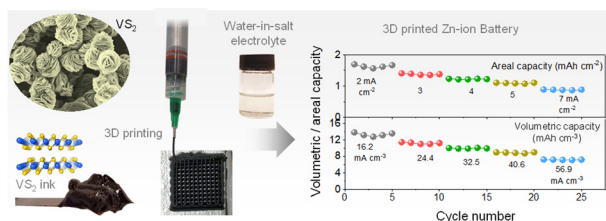
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Nanoassemblies of heptamethine cyanine dye-initiated poly(amino acid) enhance ROS generation for effective antitumour phototherapy

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



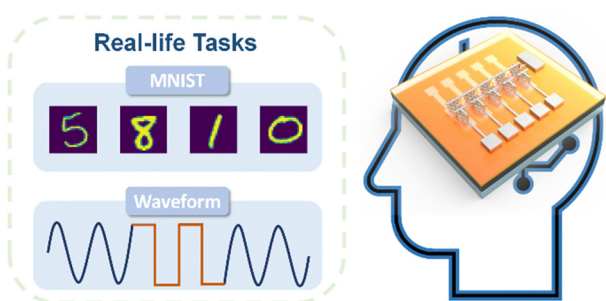
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3D printing of layered vanadium disulfide for water-in-salt electrolyte zinc-ion batteries

Stefano Tagliaferri, Goli Nagaraju, Maria Sokolikova, Rachael Quintin-Baxendale and Cecilia Mattevi*

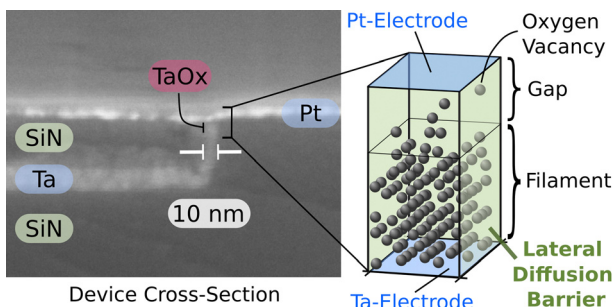
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Physical reservoirs based on MoS₂-HZO integrated ferroelectric field-effect transistors for reservoir computing systems

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

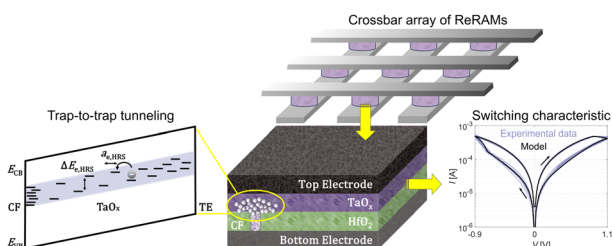
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Reliability effects of lateral filament confinement by nano-scaling the oxide in memristive devices

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Analytical modelling of the transport in analog filamentary conductive-metal-oxide/HfO_x ReRAM devices

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

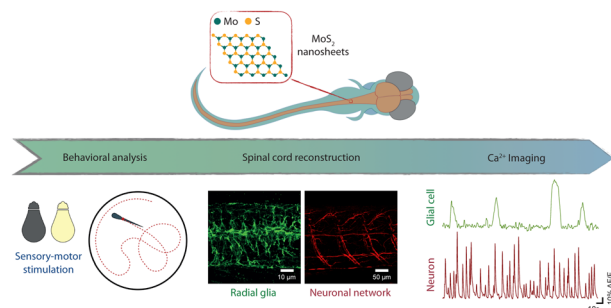


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MoS₂ 2D materials induce spinal cord neuroinflammation and neurotoxicity affecting locomotor performance in zebrafish

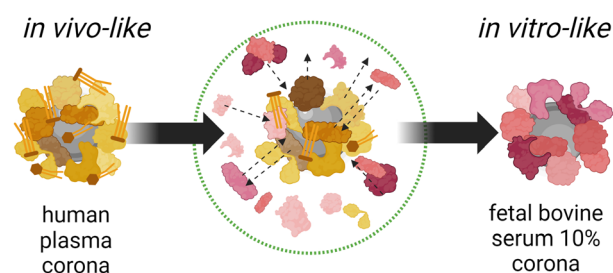
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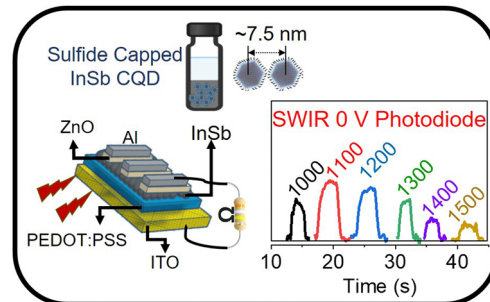
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Rational ligand design for enhanced carrier mobility in self-powered SWIR photodiodes based on colloidal InSb quantum dots

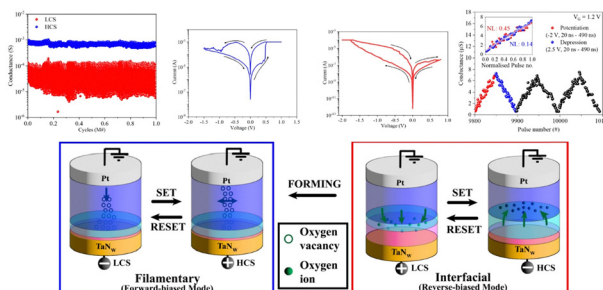
Subhashri Chatterjee, Kazuhiro Nemoto, Hong-Tao Sun and Naoto Shirahata*



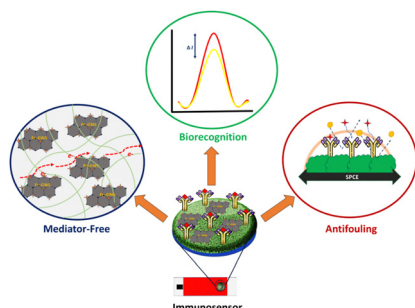
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Unraveling the origins of the coexisting localized-interfacial mechanism in oxide-based memristors in CMOS-integrated synaptic device implementations

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*



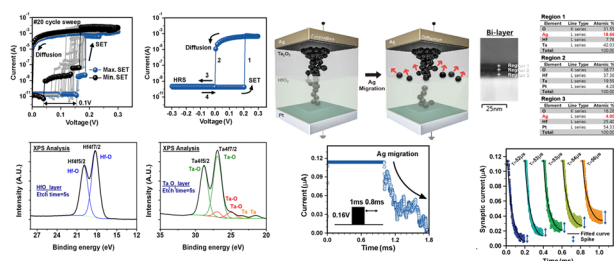
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Universal nanocomposite coating with antifouling and redox capabilities for electrochemical affinity biosensing in complex biological fluids

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

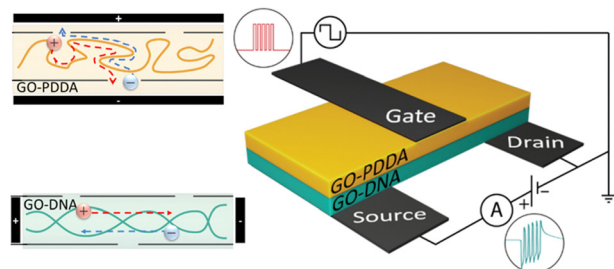
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Volatile threshold switching and synaptic properties controlled by Ag diffusion using Schottky defects

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*

