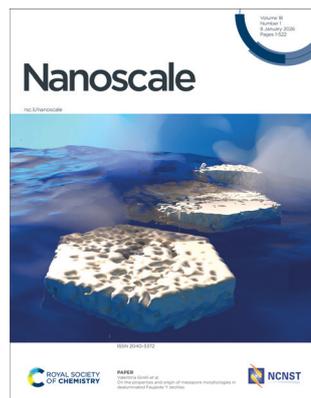


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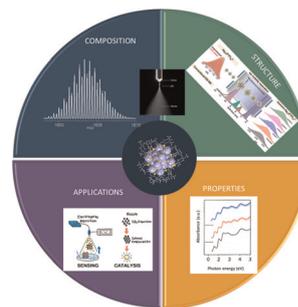
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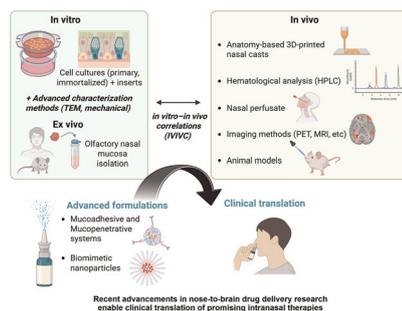
Anagha Jose, B. S. Sooraj and Thalappil Pradeep*



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Recent advancements in nose-to-brain drug delivery research enable clinical translation of promising intranasal therapies



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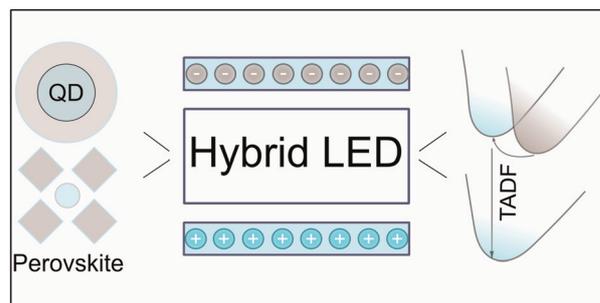
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Thermally activated delayed fluorescence materials for nanomaterial-based light-emitting diodes

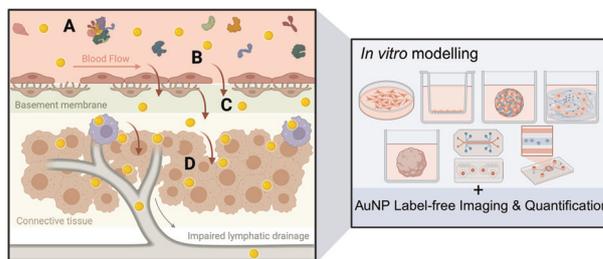
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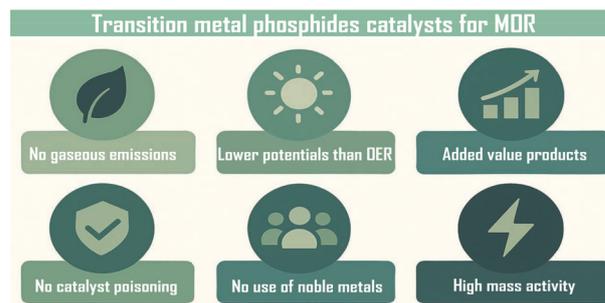


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Metal phosphides as efficient catalysts for methanol oxidation reaction

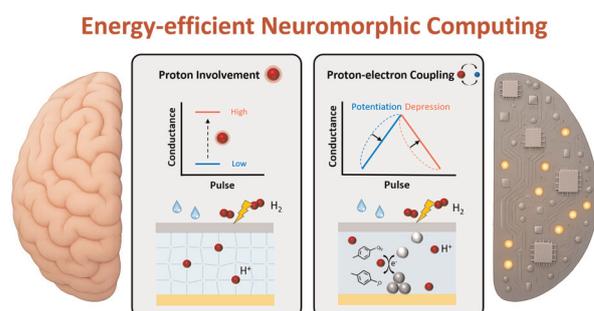
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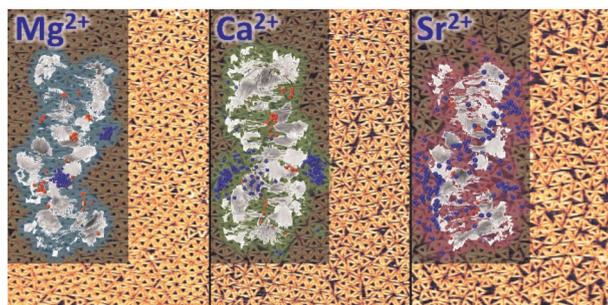
Recent progress in proton involvement and coupling for bio-realistic synaptic devices

Yubeen Park, Jung-El Ryu, Seok Daniel Namgung* and Min-Kyu Song*



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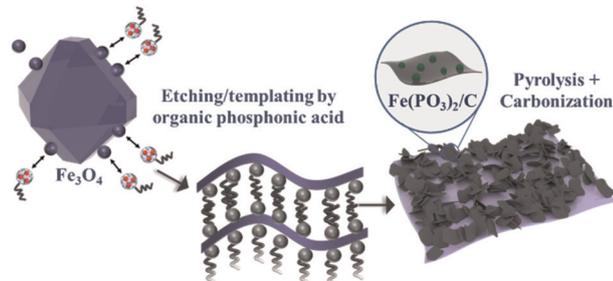
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Xiaodan Xu, Bhanu Kiran Pothineni, Guido Grundmeier, Satoru Tsushima* and Adrian Keller*

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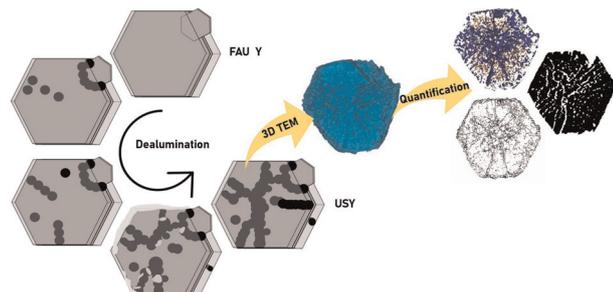


An etching–templating dual strategy for the *in situ* synthesis of carbon-supported iron metaphosphate and its application as an electrocatalyst

Jingbo Huang, Junzheng Wei, Wei Sang, Qifu Zhang, Yongda Guo and Yating Hu*

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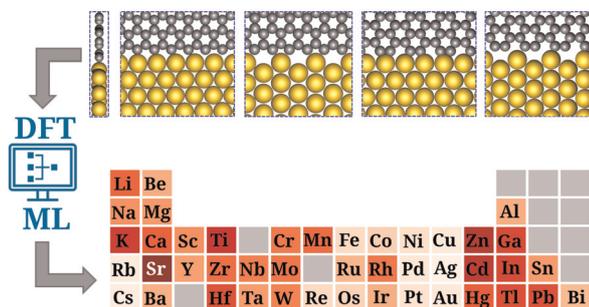
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Valentina Girelli Consolaro, Virgile Rouchon, Walid Baaziz, Adam Hammoumi, Tom Ferté, Gerhard Pirngruber, Maxime Moreaud and Ovidiu Ersen*

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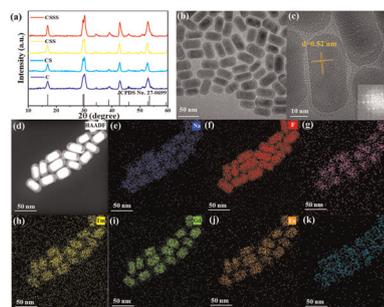
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Broad-range flow velocimetry enabled by pulse-width-dependent luminescence of core–multishell upconversion nanoprobe

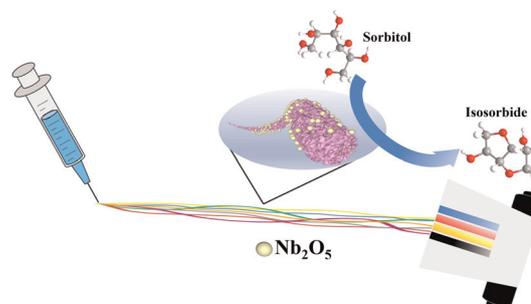
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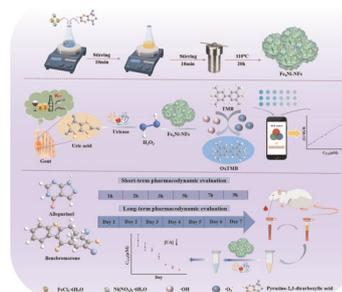
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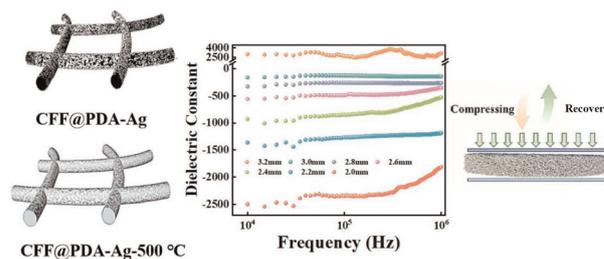
Hanbing Yao, Yifu Li, Yujuan Zhan, Binyu Xiao, Jiayi Yan, Shuangshuang Liu, Zimo Chen and Chang Shu*



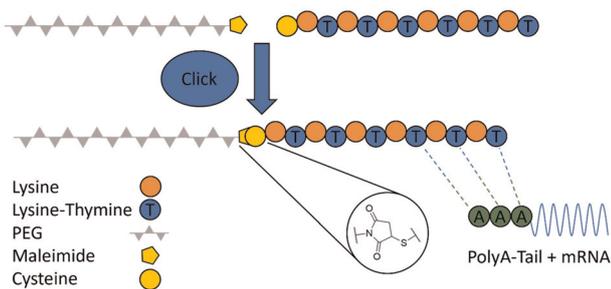
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Multi-strategy modulation towards negative dielectric properties in Ag nanoparticle-immobilized carbon fiber felt metacomposites

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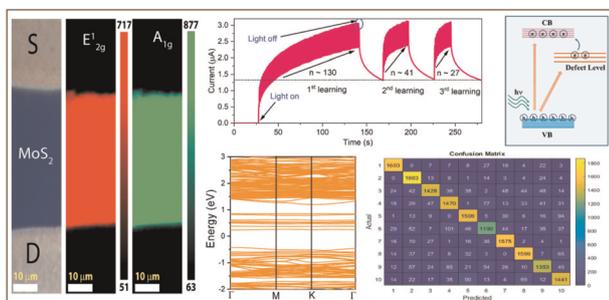
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Subhankar Debnath, Abdul Kaium Mia, M. Meyyappan and P. K. Giri*

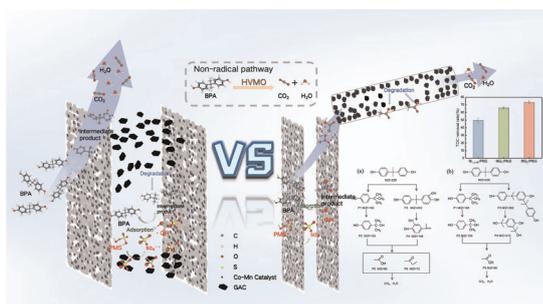
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Deformable metal–organic nanosheets@SiO₂ core–shell for heterogeneous tandem catalytic transformations

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Activated carbon adsorption enhanced removal of organic contaminants using a catalytic ceramic membrane with peroxydisulfate activation

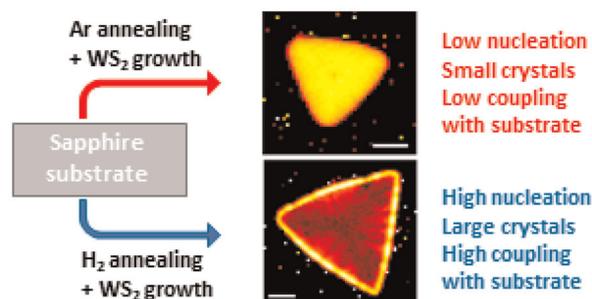
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Aluminum-rich reconstructed sapphire as a high-quality substrate for tungsten disulfide synthesis

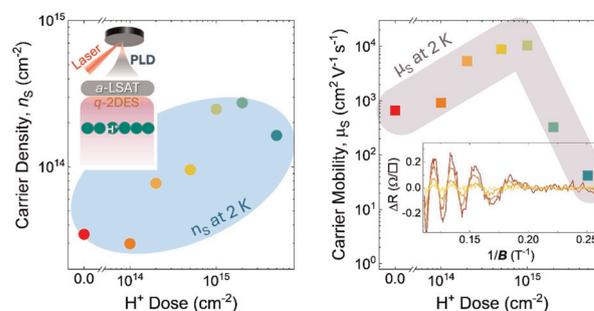
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Modulation of quantum transport in complex oxide heterostructures with proton implantation

Haidong Liang, Ganesh Ji Omar, Kun Han, Andrew A. Bettiol,* Zhen Huang* and A. Ariando*

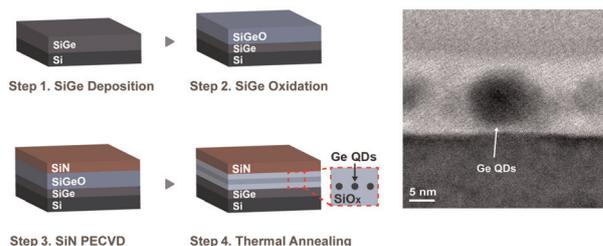


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Scalable synthesis of spatially confined Ge quantum dots with tunable quantum confinement

Su Hyun Park, Gyeong Min Seo, Jeong Wook Kim, Yun Ho Lee, Gyubin Lee, Hong Jae Lee and Byoung Don Kong*

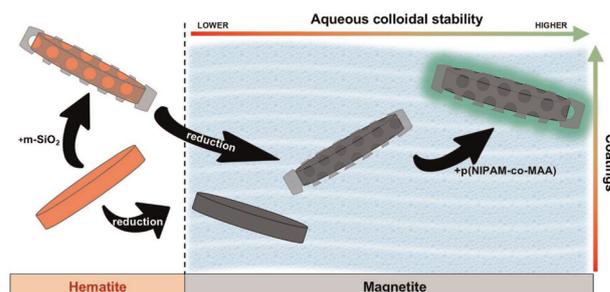
Self-Assembled Ge QD Fabrication Process



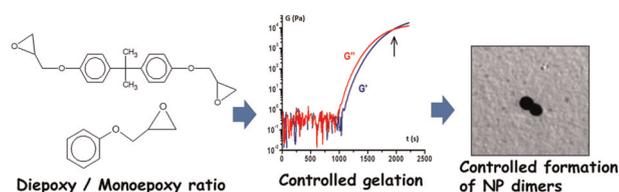
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P. Rafael Donnarumma, Micaela A. Macchione, Franziska Wasner, Elif Kocar, Vicente Durán Toro, Santiago Marzini Iranca, Eduart Gutiérrez Pineda, Sunisa Thongsom, Danijela Gregurec* and Sergio E. Moya*



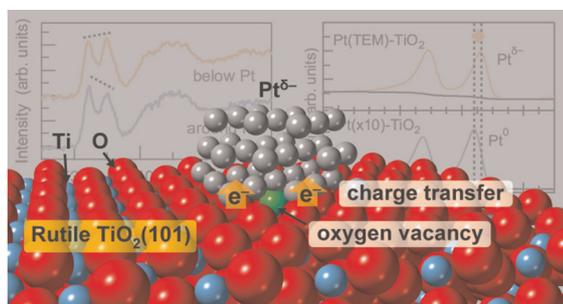
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Controlling nanoparticle aggregation via gel point shift in the *in situ* photochemical synthesis of plasmonic epoxy-based nanocomposites

Agustina B. Leonardi, Nancy M. Cativa, Gustavo F. Arenas, Marcelo Ceolín, Ignacio E. dell'Erba* and Walter F. Schroeder*

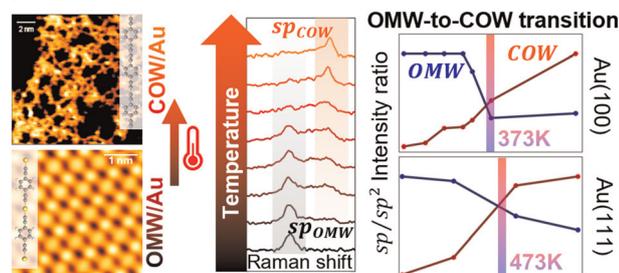
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Distribution of oxygen vacancies and their impact on the charge state of Pt on TiO₂

Ryugen Suzuki, Hisahiro Einaga and Hajime Hojo*

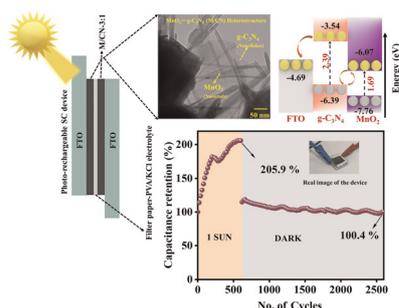
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Surface dependent organometallic to covalent transition in graphdiyne molecular wires

Alice Cartoceti, Simona Achilli,* Paolo D'Agosta, Francesco Tumino, Shreya Garg, Alessio Orbelli Biroli, Giovanni Onida, Guido Fratesi, Valeria Russo, Andrea Li Bassi, Sabine Maier and Carlo S. Casari*

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Engineered S-scheme g-C₃N₄/MnO₂ heterostructures for integrated photo-rechargeable supercapacitors with enhanced energy storage performance

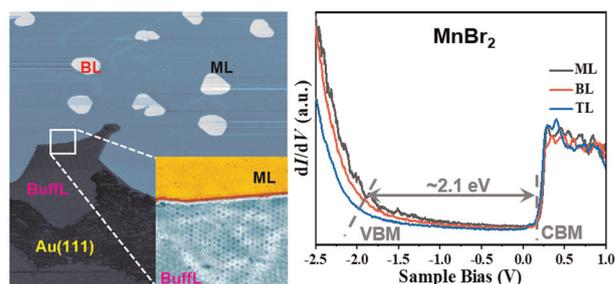
P. Chinnappan Santhosh, Suresh Jayakumar and A. V. Radhamani*



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Epitaxial growth of 2D manganese dibromide thin films on Au(111) with buffering overlayers

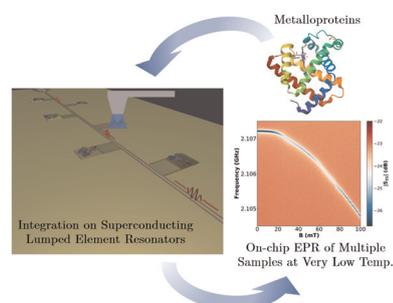
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On-chip EPR spectrometry of metalloproteins using superconducting lumped element resonators

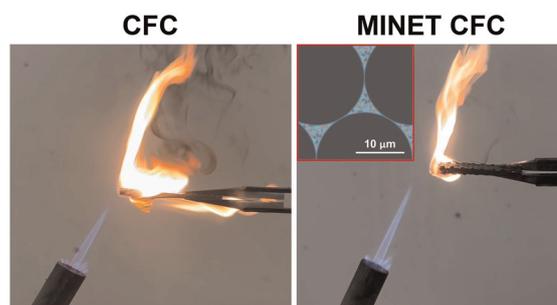
Carlos Marcuello, David Rodriguez, María Carmen Pallarés, Daniel Granados, Olivier Roubeau, Fernando Luis, Alicia Gomez* and Anabel Lostao*



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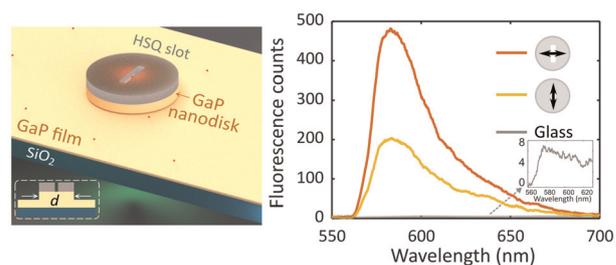
Yogin Patel,* Pei Huan Sun, Bryan Llumiquinga, Nandi Bao, Jonathan Shi, Adrien Duran, Charm O. Nicholas, Rituparna Mohanty, Nare Cho, Iris You, Stephen D. Tse and Jonathan P. Singer*



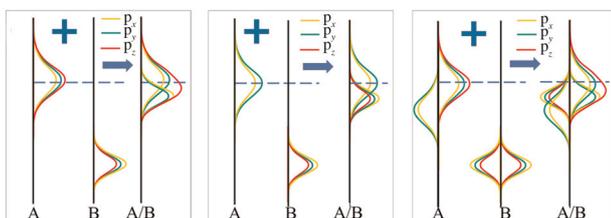
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Enhanced fluorescence at low excitation powers with GaP hybrid nanoantennas

Yatao Yang, Mi Gu, Wenfu Lin, Xiang Zhang, Shang Li, Qiancheng Zhao,* Xiao Wei Sun* and Yi Li*



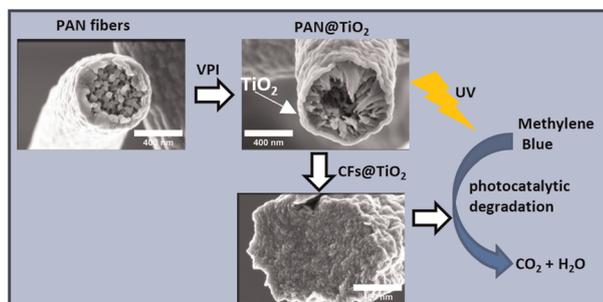
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Interfacial atomic orbital controlled spin-hybridization proximity effects in vdW heterostructures

Liyenda Gogoi and Pritam Deb*

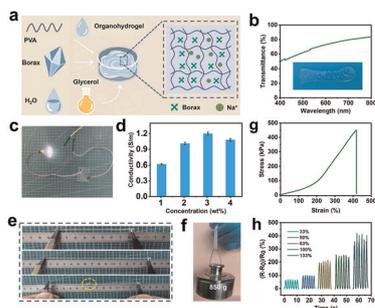
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Carbon fibers with infiltrated TiO₂ nanocrystalline layers: photocatalytic performance

Pavan Kumar Chennam, Martina Rihova, Susan Azpeitia, Marcela Sepúlveda, Martin Kachlík, Miloslav Pouzar, Veronika Čičmancová, Karel Maca, Mato Knez and Jan M. Macak*

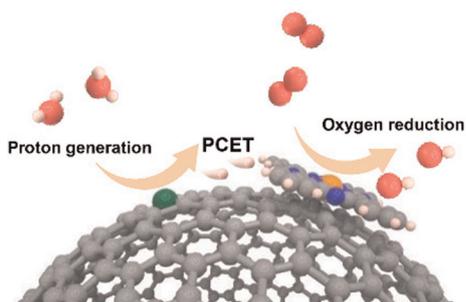
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Stretchable and transparent PVA/Borax organohydrogel-based triboelectric nanogenerator for self-powered wearables and human-machine interfaces

Junwei Zhao,* Ze Wan, Yifan Wang, Jian Chen, Chunli Hou and Yujiang Wang*

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Synergistically promoting proton-coupled electron transfer of oxygen reduction with dual atomic sites on high-curvature carbon onions for highly efficient Zn-air batteries

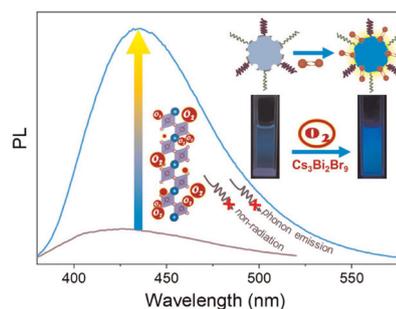
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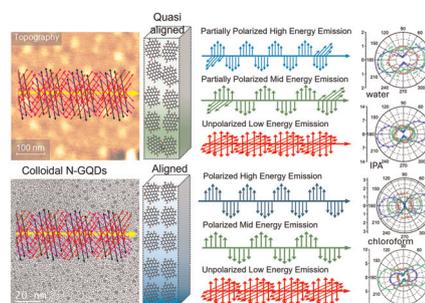
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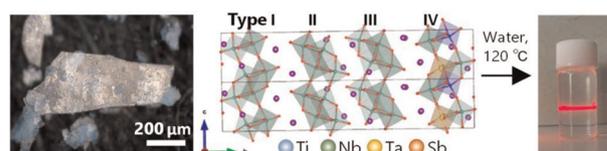
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Multi-element mixing boosts exfoliation of layered hexaniobate single crystals

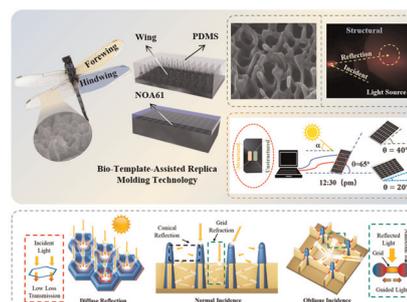
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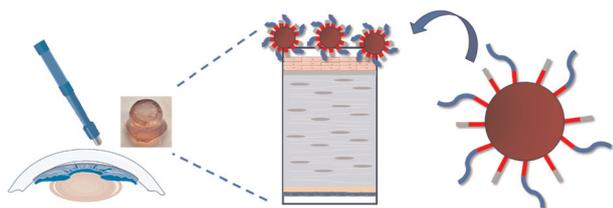
Broadband and omnidirectional antireflective film with bioinspired nanocone-grid hybrid structures for enhanced solar energy harvesting

Zhibin Jiao, Shuhan Zhang, Chuanhao Zhao, Xueyang Li, Zhaozhi Wang, Jing Zhao, Hanliang Ding,* Bo Li,* Shichao Niu and Zhiwu Han



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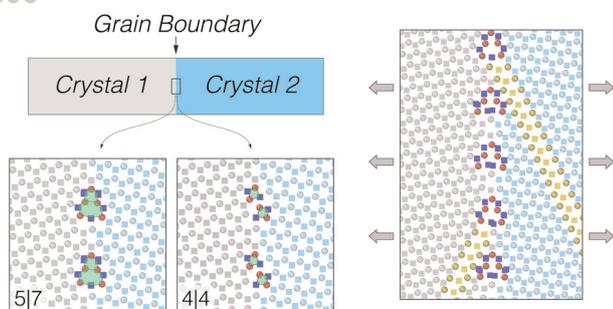
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Cornea-SELEX-derived DNA aptamers for preparing spherical nucleic acids and corneal staining

Xiaohan Zhang, Ka-Ying Wong, Xinyuan Mu, Qiushi Liu, Xin Wang, Man-Sau Wong and Juewen Liu*

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Robert D. Moore, N. Scott Bobbitt, Ian S. Winter, John F. Curry, Lisa Levandosky, Sophia Renaud, Michael Chandross* and Fadi Abdeljawad*

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Correction: Design, synthesis, and fluorescence property tuning of methyl *p*-ethynylbenzoate-based [10] cycloparaphenylenes

Wanchun Duan, Dang Zheng, Dongming Chen, Sishi Huang, Yang Yang, Lvyuan Hao and Xin Xu*

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Correction: Nanobody engineering for enhanced-sensitivity rapid COVID-19 tests

Eunji Jeong, Seo Yeong Oh, Seong Uk Son, Sojeong Lee, Ryunhyung Kim, Jaewook Lim, Sunjoo Kim, Taejoon Kang, Juyeon Jung, Seung-Yong Seong, In-Young Jang, Jong Hyun Kim, Eunhee Jang, Hyoung Hwa Jeong, Eun-Kyung Lim* and Seungjoo Haam*

