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Introduction to metal nanoclusters

Sukhendu Mandal, Di Sun, Yuichi Negishi and Anindita Das

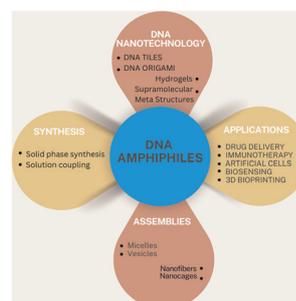


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DNA-amphiphilic nanostructures: synthesis, characterization and applications

Nishkarsh Jain, Ankur Singh and Dhiraj Bhatia*



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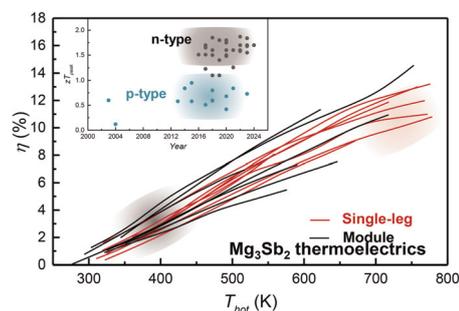
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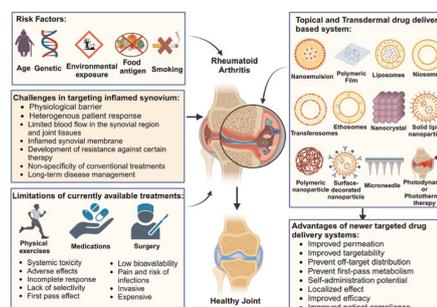
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Revolutionizing rheumatoid arthritis treatment with emerging cutaneous drug delivery systems: overcoming the challenges and paving the way forward

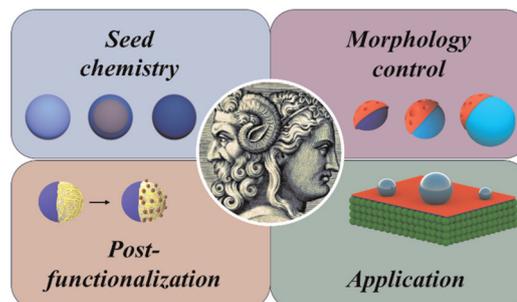
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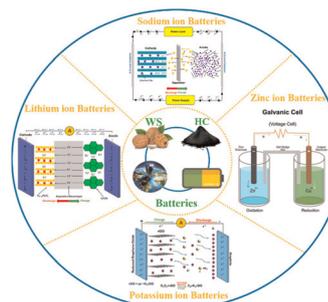
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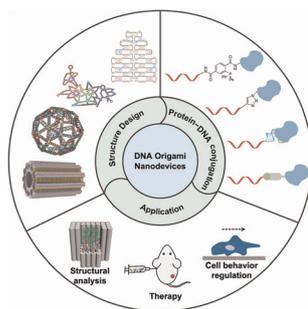
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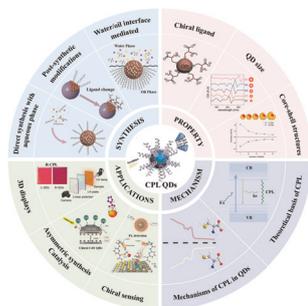
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Chuangyuan Zhao, Xinran Jiang, Miao Wang, Songbai Gui,* Xin Yan,* Yuanchen Dong* and Dongsheng Liu*

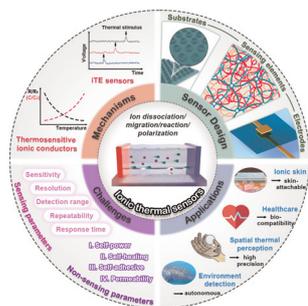
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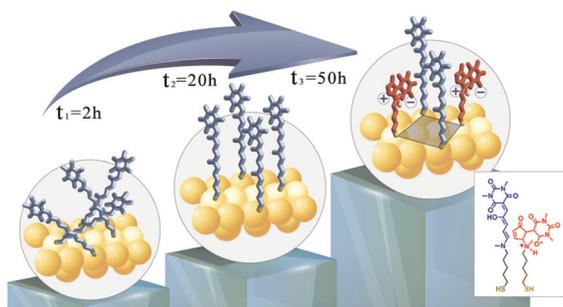


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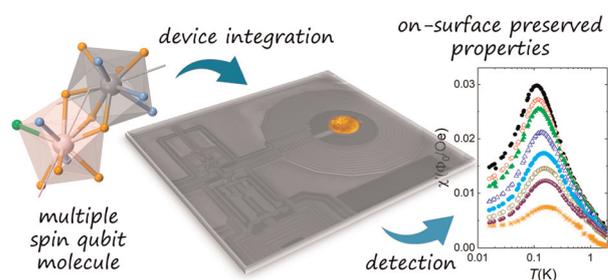


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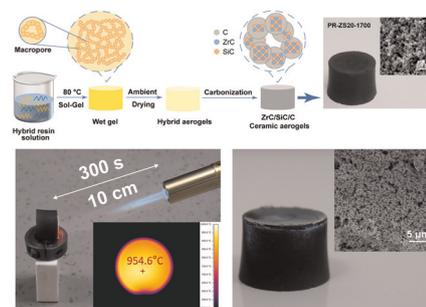


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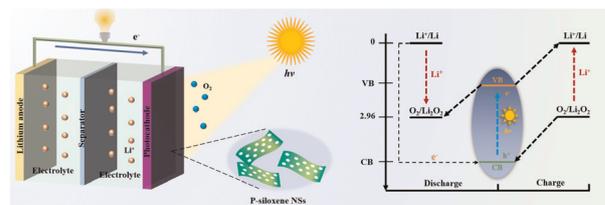
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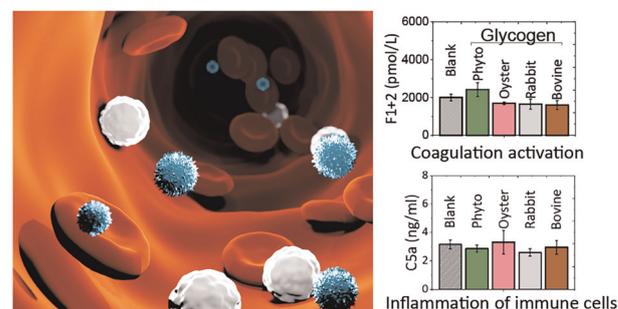
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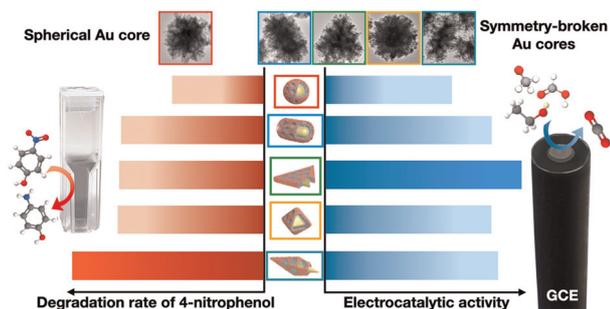
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The interaction of glycogen nanoparticles with human blood

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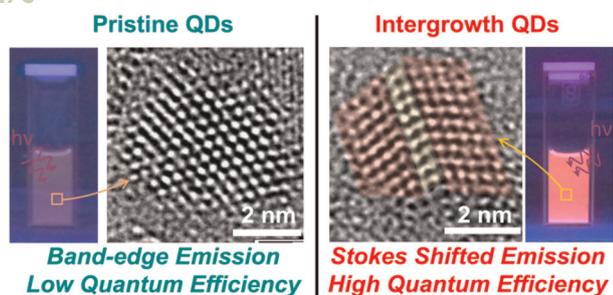
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Symmetry breaking enhances the catalytic and electrocatalytic performance of core/shell tetrametallic porous nanoparticles

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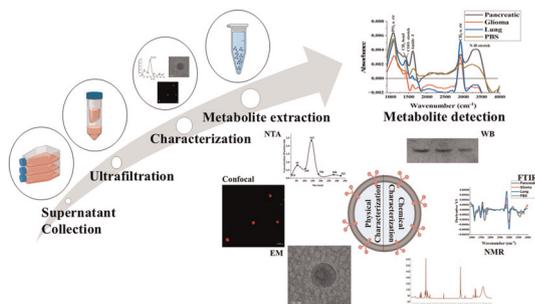
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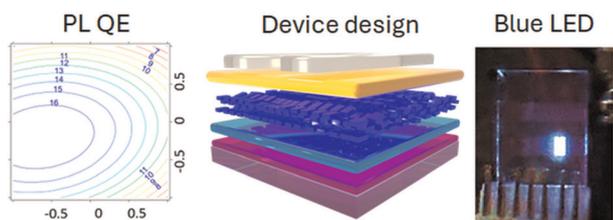
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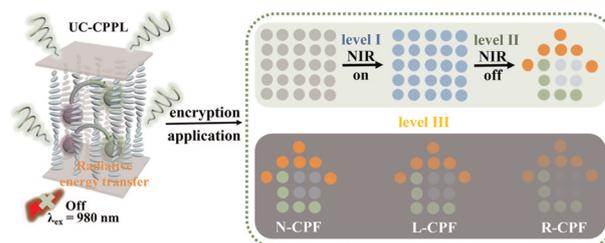


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Radiative energy transfer enabling upconverted circularly polarized persistent luminescence for multilevel information encryption

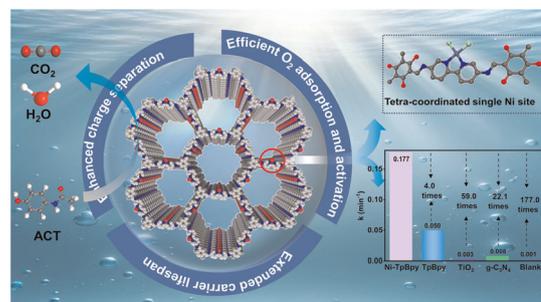
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Nickel single atoms anchored on a bipyridine-based covalent organic framework: boosting active sites for photodegradation of acetaminophen

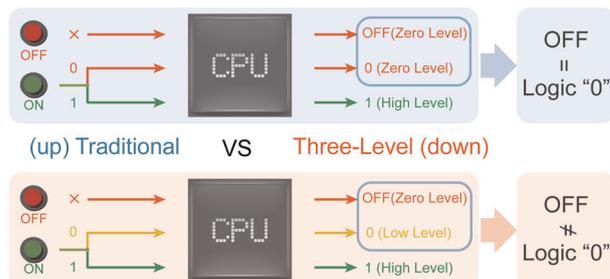
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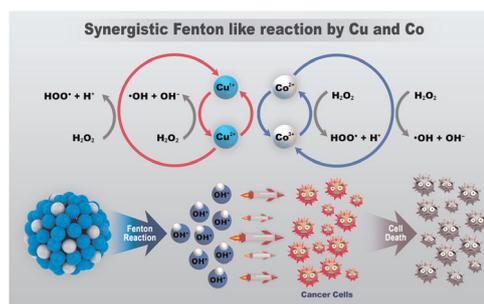
Yuanpeng Zhang, Bei Yan, Xingge Li, Huan Liu, Xiao Liu, Xianjin Xiao,* Zenghui Mao* and Zhihao Ming*



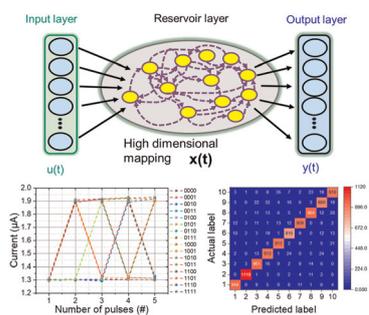
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Copper–cobalt peroxide nanoparticles: a biomimetic cascade reaction for enhanced Fenton-like therapy at physiologically relevant pH

Maryam Farrokhnia, Hamed Manoochehri,* Mina Shirvani, Ramón Martínez-Mañez and Sadeq Karimi*



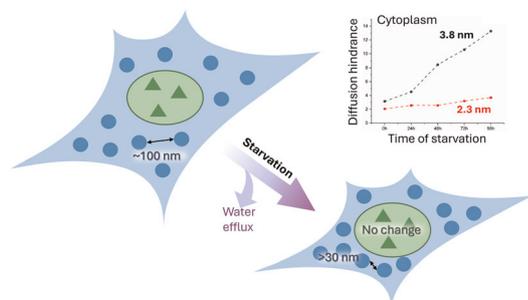
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Dynamic FeO_x/FeWO_x nanocomposite memristor for neuromorphic and reservoir computing

Muhammad Ismail, Maria Rasheed, Yongjin Park, Jungwoo Lee, Chandreswar Mahata and Sungjun Kim*

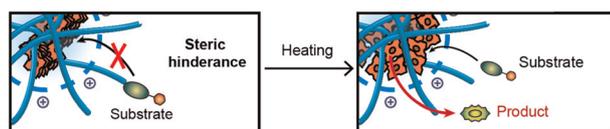
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Starvation induces diffusion hindrance at the nanoscale in mammalian cells

Sakshi Sareen, Alicja Zgorzelska, Karina Kwapiszewska* and Robert Hołyst*

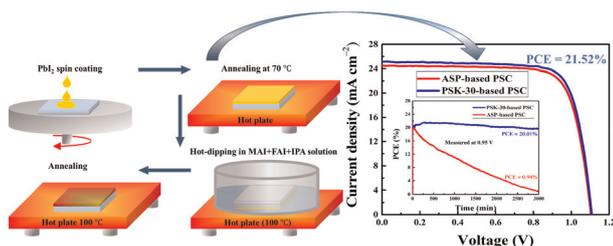
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Controlled bioorthogonal catalyst self-assembly and activity using rationally designed polymer scaffolds

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A facile approach for fabricating efficient and stable perovskite solar cells

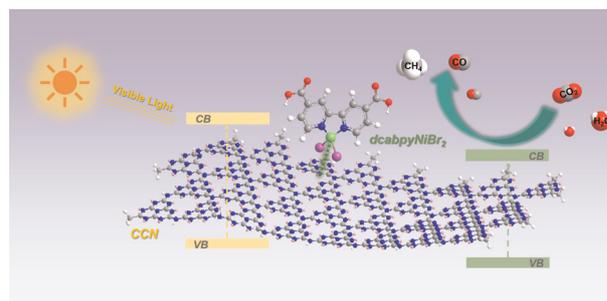
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Constructing a nickel complex/crystalline carbon nitride hybrid with a built-in electric field for boosting CO₂ photoreduction

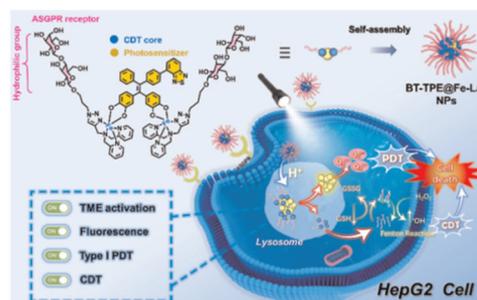
Yanrui Li,* Linda Wang, Bozhan Li, Liangqing Zhang, Xiaolin Zhu and Xiang Gao*



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A glycosylated AIE-active Fe(III) photosensitizer activated by the tumor microenvironment for synergistic type I photodynamic and chemodynamic therapy

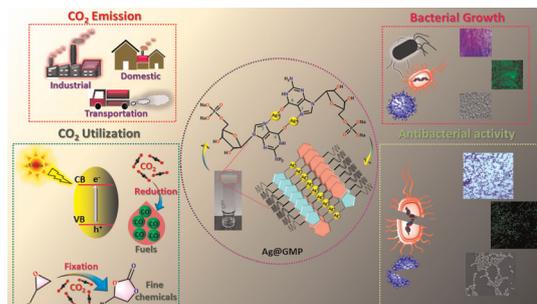
Gai-Li Feng, Wei Zhou, Jin-ping Qiao, Guang-Jian Liu and Guo-Wen Xing*



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Self-template impregnated silver nanoparticles in coordination polymer gel: photocatalytic CO₂ reduction, CO₂ fixation, and antibacterial activity

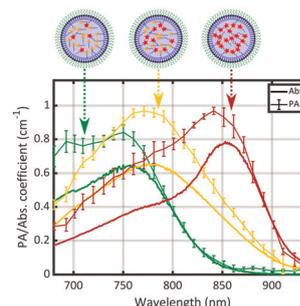
Noohul Alam, Sumit Mondal, Niwesh Ojha, Subham Sahoo, Mohammad Tarique Zeyad, Sushant Kumar and Debajit Sarma*



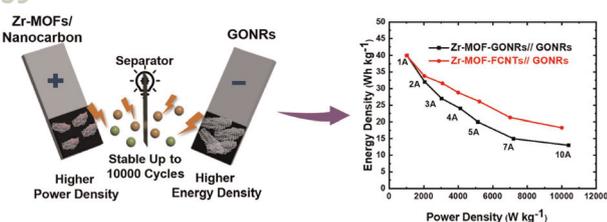
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Quantitative photoacoustic spectral transformations in theranostic solid lipid nanoparticles labelled with increasing concentrations of a photoacoustic NIR BODIPY

Clément Linger, Giulia Maccini, Gilles Clavier, Rachel Méallet, Nicolas Tsapis* and Jérôme Gateau*



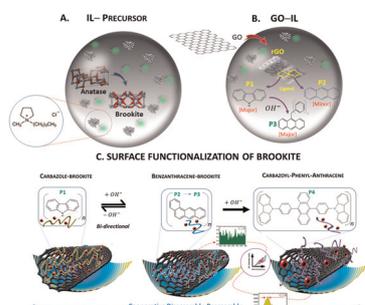
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Zr-MOF composites with zipped and unzipped carbon nanotubes for high-performance electrochemical supercapacitors

Asmaa R. Heiba, M. O. Abdel-Salam, Taeho Yoon* and Ehab El Sawy*

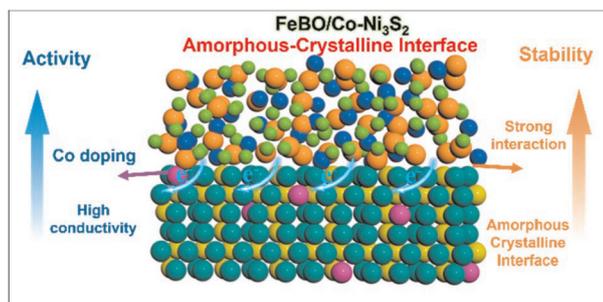
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Conduction band photonic trapping *via* band gap reversal of brookite quantum dots using controlled graphitization for tuning a multi-exciton photoswitchable high-performance semiconductor

Sanjiv Sonkaria,* Tae Woo Lee, Aniket Kumar, Soo-Kyung Hwang, Piotr G. Jablonski and Varsha Khare*

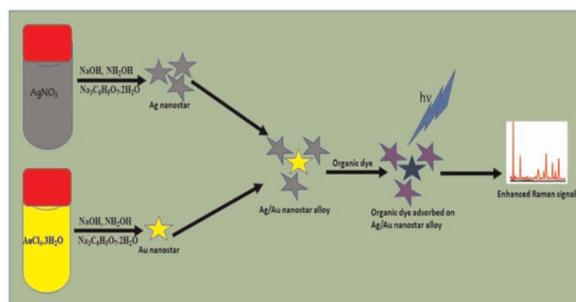
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Deep reconstruction of crystalline–amorphous heterojunction electrocatalysts for efficient and stable water and methanol electrolysis

Fang Zheng, Mayur A. Gaikwad, Zhenhua Fang, Suyoung Jang and Jin Hyeok Kim*

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An advanced plasmonic bimetallic nanostar composite for ultra-sensitive SERS detection of crystal violet

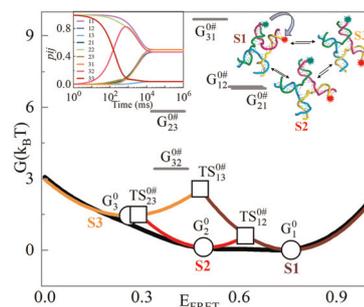
Sintayehu Leshe Kitaw, Yohannis Wondosen Ahmed, Andy Candra, Tsung-Yun Wu, Beyadgalem Endawoke Anley, Ying-Yu Chen, Yu-Ting Cheng, Kuan-Ju Chen, Chayaporn Thammaniphit, Chen Chu Hsu, Yi Ting Wu, Mahvash Hira Khan and Hsieh-Chih Tsai*



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Differential Mg^{2+} deposition on DNA Holliday Junctions dictates the rate and stability of conformational exchange

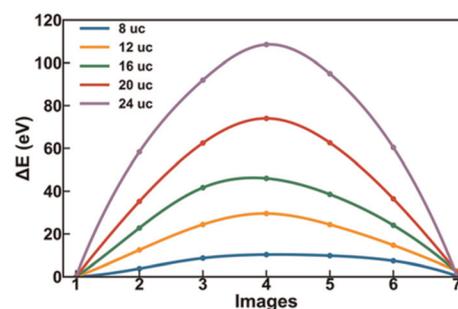
Pratibha Agarwala, Arumay Pal, Milan Kumar Hazra* and Dibyendu K. Sasmal*



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Quantifying the polar skyrmion motion barrier in an oxide heterostructure

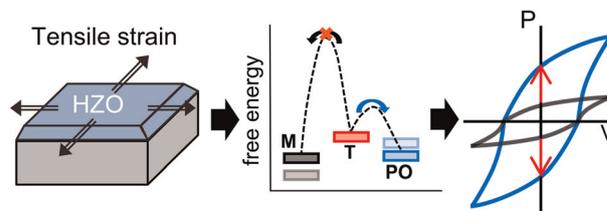
Lizhe Hu, Yuhui Huang, Yongjun Wu* and Zijian Hong*



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Theoretical understanding of the in-plane tensile strain effects on enhancing the ferroelectric performance of $Hf_{0.5}Zr_{0.5}O_2$ and ZrO_2 thin films

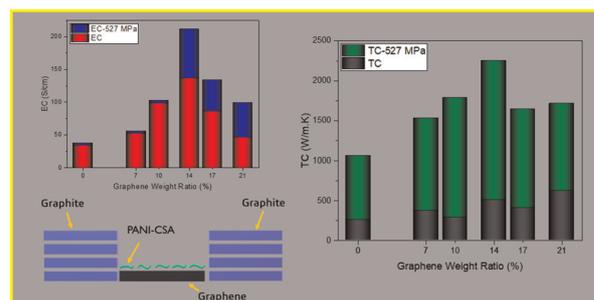
Kun Hee Ye, Taeyoung Jeong, Seungjae Yoon, Dohyun Kim, Cheol Seong Hwang* and Jung-Hae Choi*



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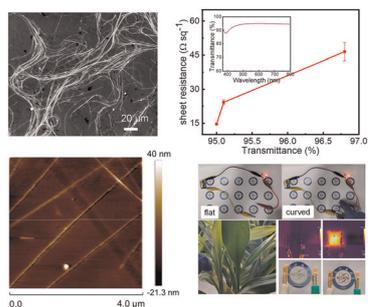
Exploring graphene's impact on graphite/PANI matrix composites: high-pressure fabrication and enhanced thermal-electrical properties

Murat Ozlek, Merve Sehnaz Akbulut and Engin Burgaz*



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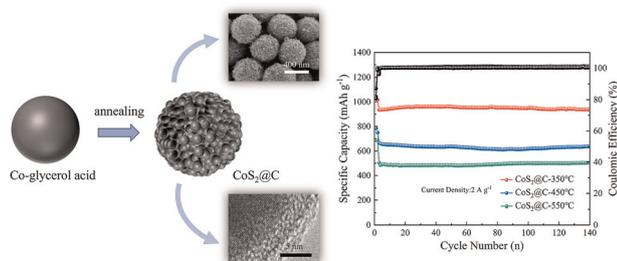
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Synergistic role of Cl^- and Br^- ions in growth control and mechanistic insights of high aspect ratio silver nanowires for flexible transparent conductive films

Jia-Lei Xu, Rui-Dong Shi, Hai-ping Zhou, Guo-Tao Xiang, Zi-Dong Zhou, Yong-Da Hu* and Jin-Ju Chen*

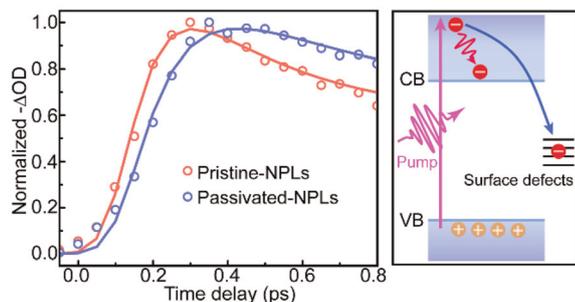
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Facile synthesis of *in situ* carbon-coated CoS_2 micro/nano-spheres as high-performance anode materials for sodium-ion batteries

Lingling Chen, Pengfei Wang, Chen Bao, Yanyan Li, Bo Fan, Gaofeng Li* and Dianbo Ruan

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Modulating hot carrier relaxation and trapping dynamics in lead halide perovskite nanoplatelets by surface passivation

Yanshen Zhu, Shida Luo, Yuting Zhang, Yanping Liu, Yulu He, Tianfeng Li, Zhen Chi* and Lijun Guo*

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Expression of concern: Anti-aggregation effect of carbon quantum dots on diabetogenic and beta-cell cytotoxic amylin and beta amyloid heterocomplexes

Anna Voronova, Alexandre Barras, Valérie Plaisance, Valerie Pawlowski, Rabah Boukherroub, Amar Abderrahmani* and Sabine Szunerits*



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Expression of concern: Iron oxide magnetic nanoparticles with versatile surface functions based on dopamine anchors

Mykola Mazur, Alexandre Barras, Victor Kuncser, Andrei Galatanu, Vladimir Zaitzev, Kostiantyn V. Turcheniuk, Patrice Woisel, Joel Lyskawa, William Laure, Aloysius Siriwardena, Rabah Boukherroub and Sabine Szunerits*

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Expression of concern: Heat-based transdermal delivery of a ramipril loaded cream for treating hypertension

Anna Voronova, Quentin Pagneux, Raphael Decoin, Eloise Woitrain, Laura Butruille, Alexandre Barras, Catherine Foulon, Marie Lecoeur, Diego Jaramillo, José Rumipamba, Sorin Melinte, Amar Abderrahmani, David Montaigne, Rabah Boukherroub and Sabine Szunerits*

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Expression of concern: Near-infrared light activatable hydrogels for metformin delivery

Li Chengnan, Quentin Pagneux, Anna Voronova, Alexandre Barras, Amar Abderrahmani, Valérie Plaisance, Valerie Pawlowski, Nathalie Hennuyer, Bart Staels, Lea Rosselle, Nadia Skandrani, Musen Li, Rabah Boukherroub* and Sabine Szunerits*

