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See Hector Prats and Michail Stamatakis, pp. 3214–3224.

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Introduction to Epitaxial growth of nanostructures and their properties

Jin Zou

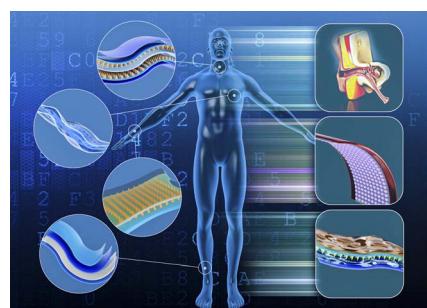


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Recent progress in flexible micro-pressure sensors for wearable health monitoring

Jianguo Hu, Guanhua Dun, Xiangshun Geng, Jing Chen, Xiaoming Wu and Tian-Ling Ren*



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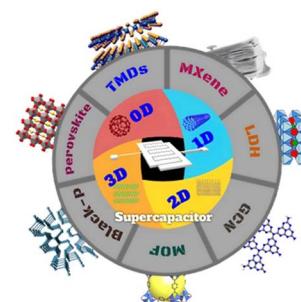


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Recent advancements in zero- to three-dimensional carbon networks with a two-dimensional electrode material for high-performance supercapacitors

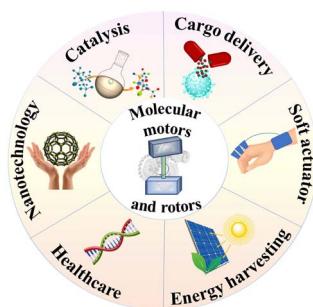
Niraj Kumar, Sudip Ghosh, Dinbandhu Thakur, Chuan-Pei Lee* and Prasanta Kumar Sahoo*



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Accounts of applied molecular rotors and rotary motors: recent advances

Anup Singhania, Sudeshna Kalita, Prerna Chettri and Subrata Ghosh*

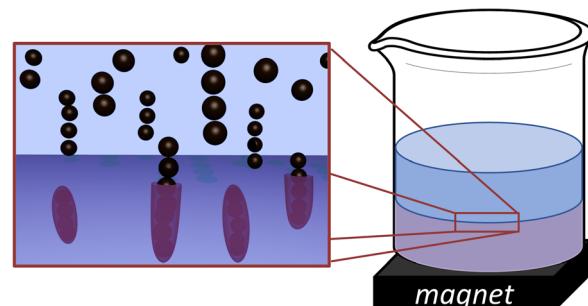


COMMUNICATION

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Magnetically driven preparation of 1-D nano-necklaces capable of MRI relaxation enhancement

Aaron M. King, Teresa Insinna, Connor J. R. Wells, Isabel A. Raby, Yurii K. Gun'ko and Gemma-Louise Davies*



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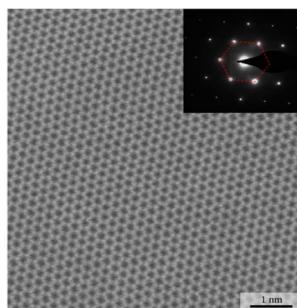
Stability and reactivity of metal nanoclusters supported on transition metal carbides

Hector Prats* and Michail Stamatakis



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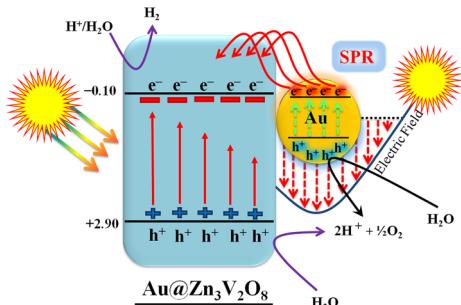
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High p doped and robust band structure in Mg-doped hexagonal boron nitride

Lama Khalil, Cyrine Ernandes, José Avila, Adrien Rousseau, Pavel Dudin, Nikolai D. Zhigadlo, Guillaume Cassabois, Bernard Gil, Fabrice Oehler, Julien Chaste and Abdelkarim Ouerghi*

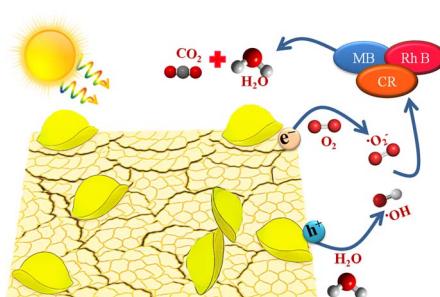
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Facile transfer of surface plasmon electrons of Au-NPs to Zn₃V₂O₈ surfaces: a case study of sunlight driven H₂ generation from water splitting

Muhammad Jalil, Khezina Rafiq,* Muhammad Zeeshan Abid, Abdul Rauf, Shuxin Wang, Shahid Iqbal and Ejaz Hussain*

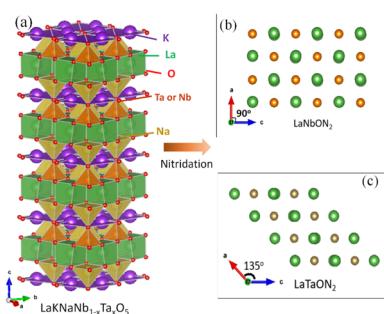
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Synergism of Co/Na in BiVO₄ microstructures for visible-light driven degradation of toxic dyes in water

Muhammad Zeeshan Abid, Khezina Rafiq, Abdul Rauf, Syed Shoaib Ahmad Shah, Rongchao Jin* and Ejaz Hussain*

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Defect engineering of two-dimensional Nb-based oxynitrides for visible-light-driven water splitting to produce H₂ and O₂

Chang Xu, Yan Wang,* Quansheng Guo and Xin Wang*

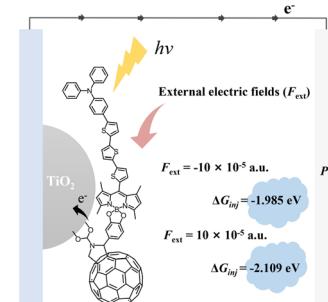


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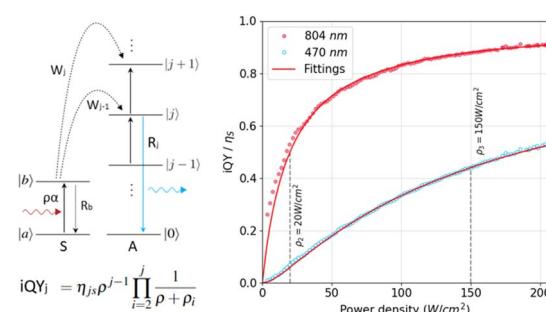
Xinyue Wang, Cong Shen, Jingping Li, Meixia Zhang* and Peng Song*



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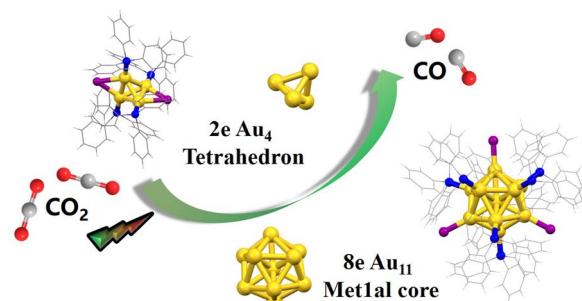
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The smallest superatom $\text{Au}_4(\text{PPh}_3)_4\text{I}_2$ with two free electrons: synthesis, structure analysis, and electrocatalytic conversion of CO_2 to CO

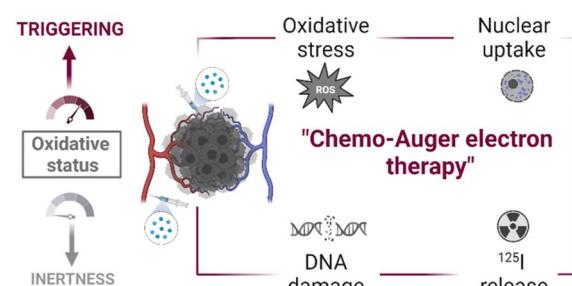
Cheng Zhang, Mei Ding, Yonggang Ren, Along Ma, Zhengmao Yin,* Xiaoshuang Ma* and Shuxin Wang*



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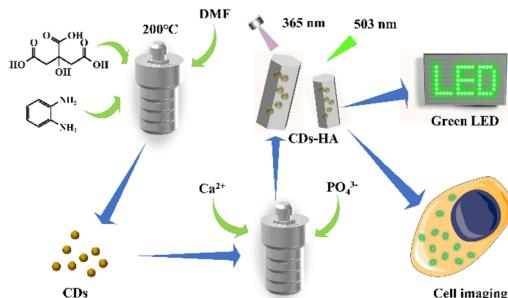
Platinum nanoparticles labelled with iodine-125 for combined "chemo-Auger electron" therapy of hepatocellular carcinoma

Kamil Wawrowicz,* Kinga Źelechowska-Matysiak, Agnieszka Majkowska-Pilip, Mateusz Wierzbicki and Aleksander Bilewicz



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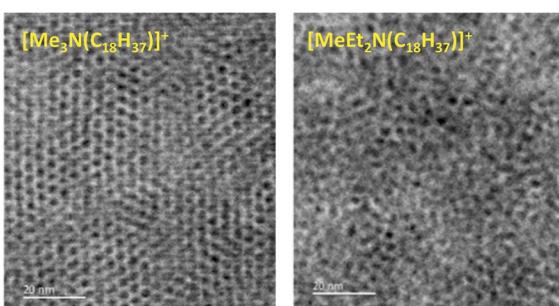
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Single-particle dispersion of carbon dots in the nano-hydroxyapatite lattice achieving solid-state green fluorescence

Lunzhu Wang, Xinru Wang, Shuoshuo Zhou, Jian Ren, Liting Liu, Cairong Xiao and Chunlin Deng*

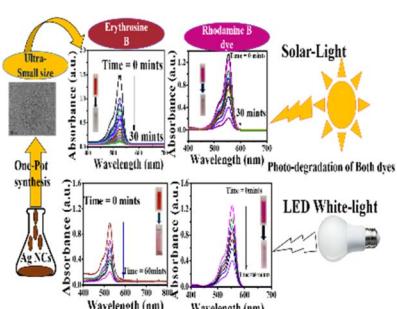
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Effects of surfactant head group modification on vertically oriented mesoporous silica produced by the electrochemically assisted surfactant assembly method

Nabil A. N. Mohamed, Yisong Han, Sarah Harcourt-Vernon, Andrew L. Hector,* Anthony R. Houghton, Gillian Reid, Daryl R. Williams and Wenjian Zhang

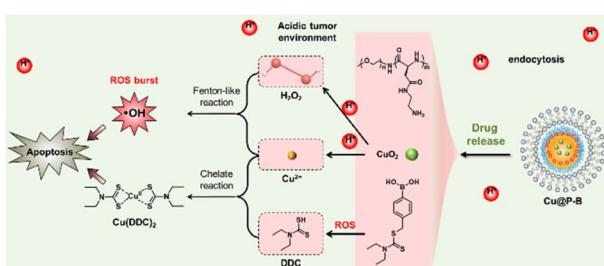
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Facile synthesis of water-soluble silver nanoclusters for the photocatalytic degradation of dyes by multivariate optimization approach

Saif Ullah, Qinzen Li, Rooh Ullah, Sadat Anwar, Muhammad Fazal Hameed and Manzhou Zhu*

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Co-delivery of a tumor microenvironment-responsive disulfiram prodrug and CuO₂ nanoparticles for efficient cancer treatment

Fen-Ting Cheng, Ya-Di Geng, Yun-Xiao Liu, Xuan Nie, Xin-Ge Zhang, Zhao-Lin Chen, Li-Qin Tang,* Long-Hai Wang,* Ye-Zi You and Lei Zhang*

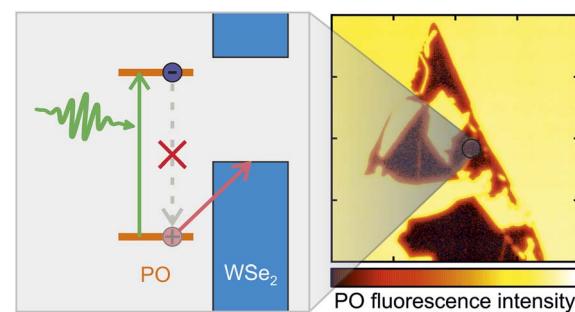


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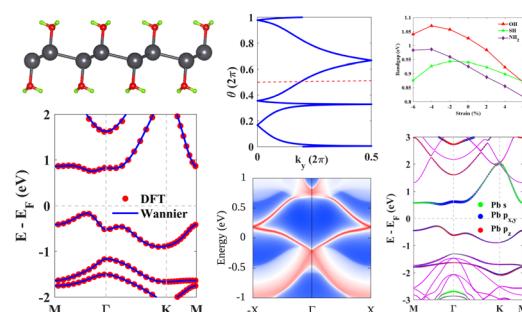
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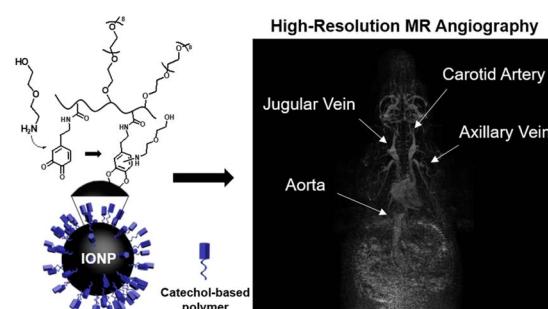
Sumaiya Jahan Tabassum, Tanshia Tahreen Tanisha, Nishat Tasnim Hiramony and Samia Subrina*



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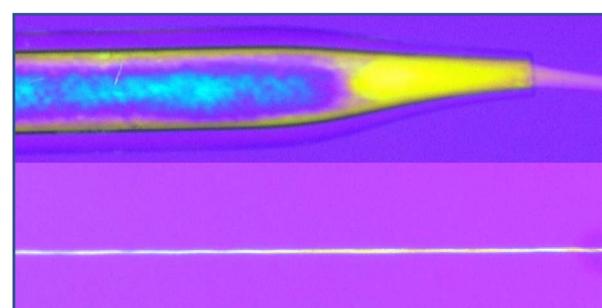
Hyunhong Kim, Sunyoung Woo, Hoesu Jung, Hyo-Suk Ahn, Ning Chen, HyungJoon Cho* and Jongnam Park*



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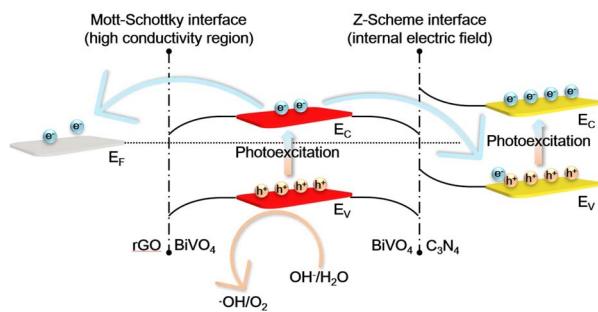
Wet spinning imogolite nanotube fibres: an *in situ* process study

Joseph F. Moore, Erwan Paineau, Pascale Launois* and Milo S. P. Shaffer*



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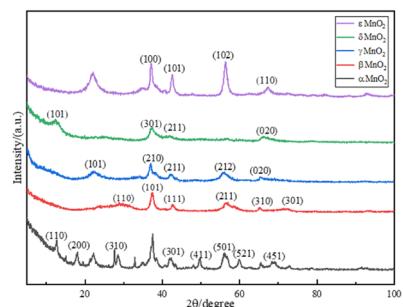
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Nanoarchitectonics on Z-scheme and Mott–Schottky heterostructure for photocatalytic water oxidation *via* dual-cascade charge-transfer pathways

Yao Li, Siyuan Liu, Runlu Liu, Jian Pan, Xin Li, Jianyu Zhang, Xiaoxiao Zhang, Yixin Zhao, Dawei Wang, Hengdao Quan and Shenmin Zhu*

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Physicochemical properties of different crystal forms of manganese dioxide prepared by a liquid phase method and their quantitative evaluation in capacitor and battery materials

Yang Pan, Wang Jiawei, Wang Haifeng,* Wang Song, Yang Chunyuan and He Yue