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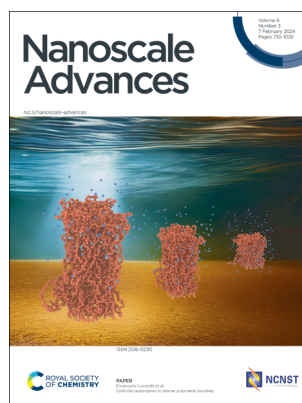
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See Wendel Wohlleben, Stefania Sabella *et al.*, pp. 798–815. Image reproduced by permission of Stefania Sabella from *Nanoscale Adv.*, 2024, 6, 798.



Inside cover
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EDITORIAL

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Introduction to Bionanocomposites

Sabu Thomas, Maya Jacob John and Aji P. Mathew



REVIEW

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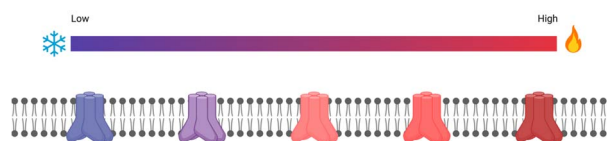
Metallic nanostructure-based aptasensors for robust detection of proteins

Navid Rabiee, Sepideh Ahmadi, Kamal Rahimizadeh, Suxiang Chen and Rakesh N. Veedu*

Aptasensors for protein detection



- Aptamer SELEX
- Optical/Electrochemical (bio)sensor development
- Nanoparticles@Aptamer conjugation/decoration



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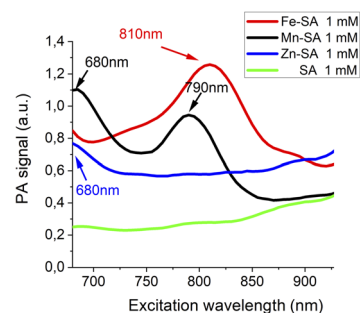
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Mn(III), Fe(III) and Zn(II)-serum albumin as innovative multicolour contrast agents for photoacoustic imaging

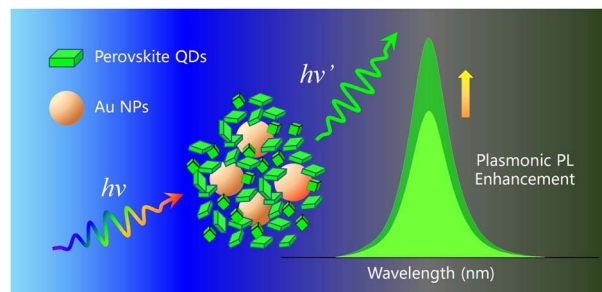
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Enhancing photoluminescence performance of perovskite quantum dots with plasmonic nanoparticles: insights into mechanisms and light-emitting applications

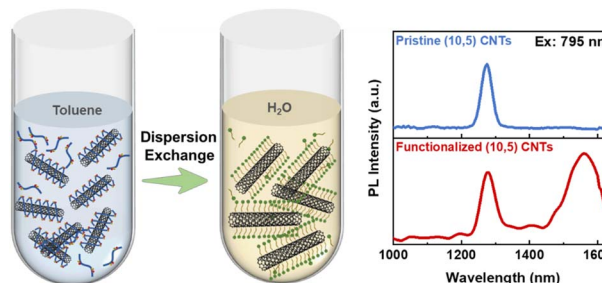
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Polymer removal and dispersion exchange of (10,5) chiral carbon nanotubes with enhanced 1.5 μm photoluminescence

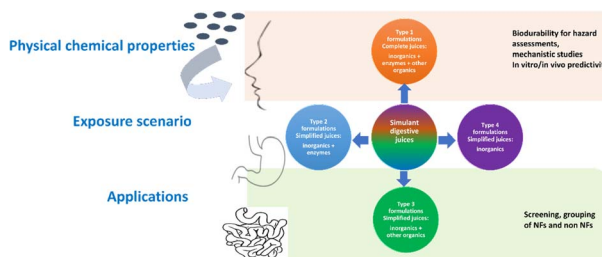
Yahui Li, Ye Liu, Feng Jin, Leitao Cao, Hehua Jin, Song Qiu* and Qingwen Li*



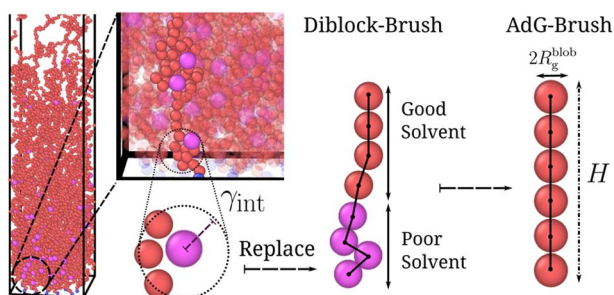
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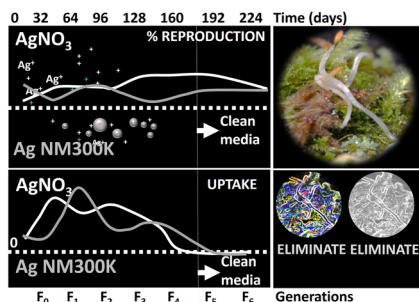
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Colloidal adsorption in planar polymeric brushes

Clemens Franz Vorsmann, Sara Del Galdo,
Barbara Capone and Emanuele Locatelli*

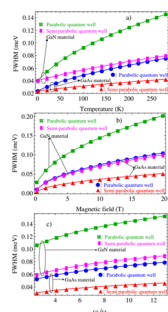
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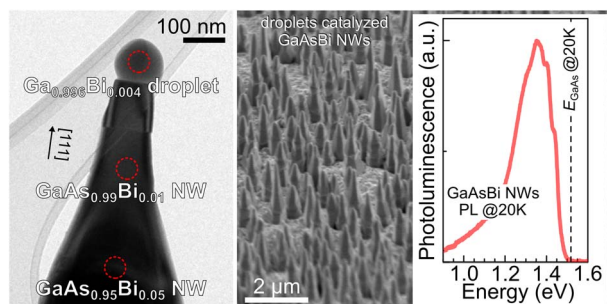
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Tran Cong Phong, Le Ngoc Minh and Nguyen Dinh Hien*

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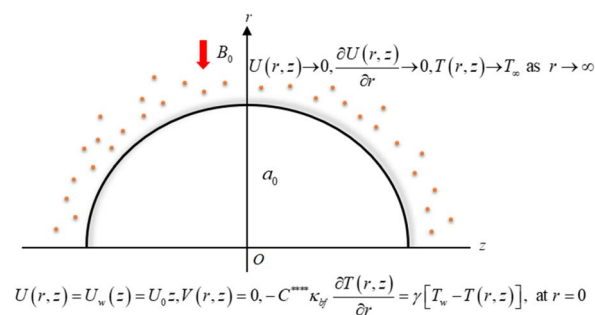
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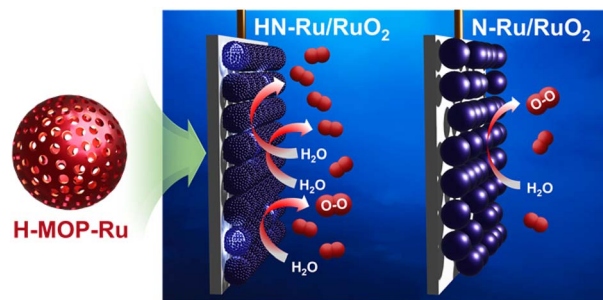
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Hollow Ru/RuO₂ nanospheres with nanoparticulate shells for high performance electrocatalytic oxygen evolution reactions

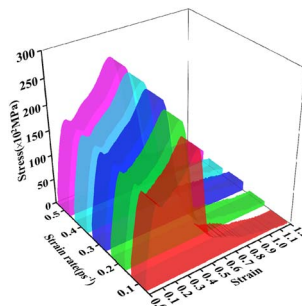
Kyoungil Cho, June Young Jang, Yoon-Joo Ko, Yoon Myung* and Seung Uk Son*



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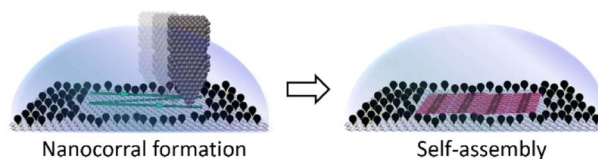
Xianfa Li,* Junyu An, Shuisheng Chen, Guoqiang Chen, Yi Liu, Yongjun Shi and Long Zhou



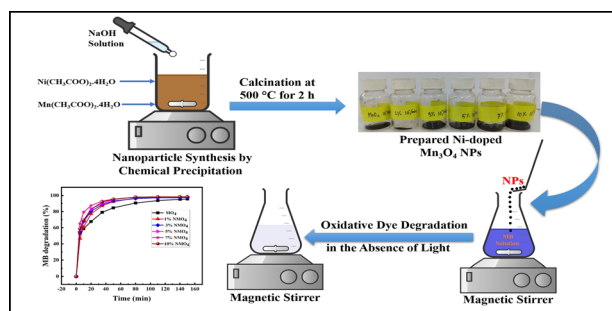
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Chiral induction in substrate-supported self-assembled molecular networks under nanoconfinement conditions

Zeno Tessari, Tamara Rinkovec and Steven De Feyter*



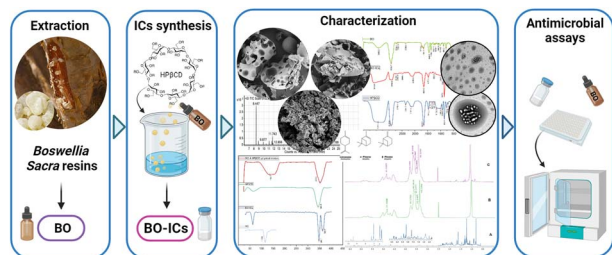
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Phase tunable nickel doped Mn_3O_4 nanoparticle synthesis by chemical precipitation: kinetic study on dye degradation

Jasim Uddin, Rahim Abdur, Md. Rifat Hossain, Shahin Aziz, Mohammad Shah Jamal,* Md. Aftab Ali Shaikh* and Mosharof Hossain*

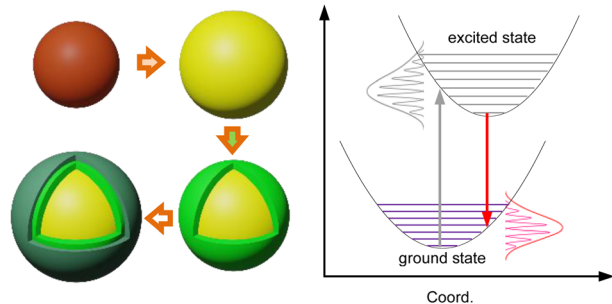
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Improved antimicrobial activities of *Boswellia sacra* essential oils nanoencapsulated into hydroxypropyl-beta-cyclodextrins

Obaydah Abd Alkader Alabraham, Salim Alwahibi and Hassan Mohamed El-Said Azzazy*

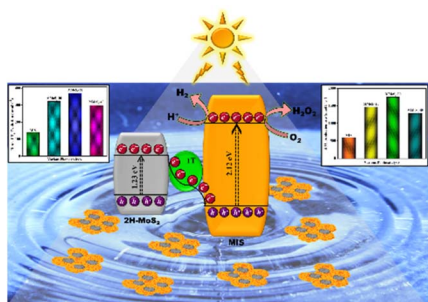
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Enhancement mechanism of quantum yield in core/shell/shell quantum dots of $\text{ZnS-AgIn}_5\text{S}_8/\text{ZnIn}_2\text{S}_4/\text{ZnS}$

Seonghyun Jeong, Minji Ko, Sangwon Nam, Jun Hwan Oh, Seung Min Park, Young Rag Do* and Jae Kyu Song*

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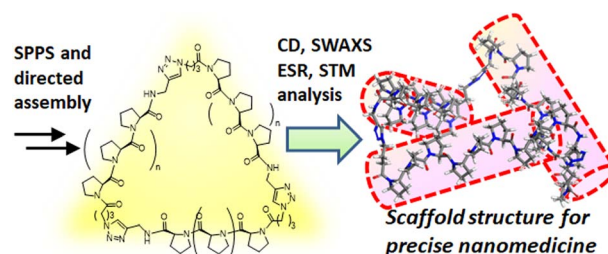
Sarmistha Das, Lopamudra Acharya, Lijarani Biswal and Kulamani Parida*



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Comprehensive characterization of polyproline tri-helix macrocyclic nanoscaffolds for predictive ligand positioning

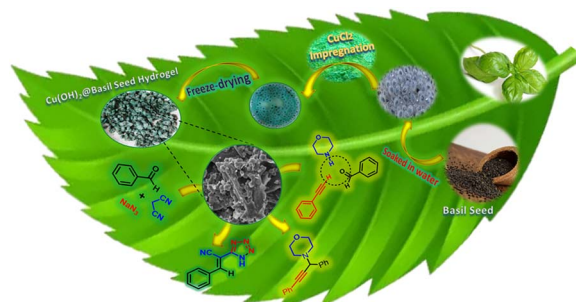
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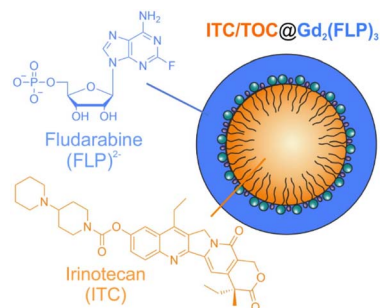
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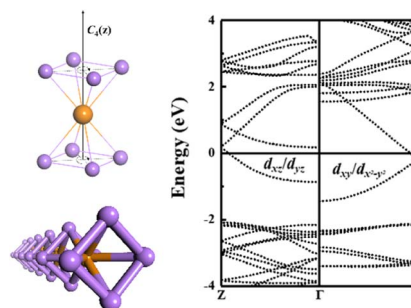
David Rudolph, Myrto Ischyropoulou, Juliana Pfeifer, Joanna Napp,* Ute Schepers,* Frauke Alves* and Claus Feldmann*



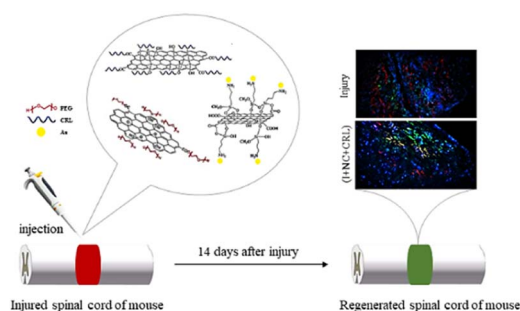
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First-principles calculations of inorganic metallocene nanowires

Yangqi Ji, Haifeng Lv* and Xiaojun Wu*



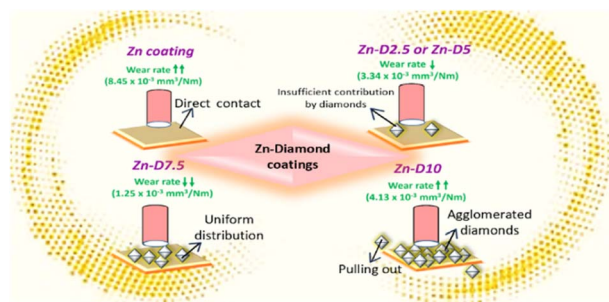
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Design and synthesis of nano-biomaterials based on graphene and local delivery of cerebrolysin into the injured spinal cord of mice, promising neural restoration

Ayda Yari-Ilkhchi, Mehrdad Mahkam,*
Abbas Ebrahimi-Kalan and Hamid Soltani Zangbar

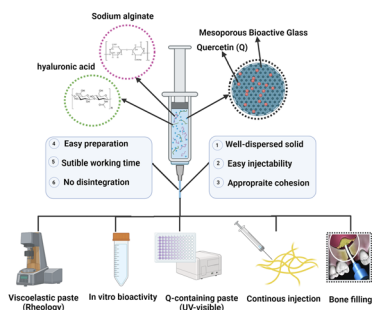
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Nanodiamond-structured zinc composite coatings with strong bonding and high load-bearing capacity

Shikha Awasthi,* Blanca Prior Palomero, Ankur Srivastava,*
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Mehri Sohrabi,* Saeed Hesaraki, Mostafa Shahrezaee,*
Alireza Shams-Khorasani, Fahimeh Roshanfar,
Brigit Glasmacher, Sascha Heinemann, Yi Xu*
and Pooyan Makvandi

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Jin-Young Hur, SeonHyung Lee, Woo-Ri Shin, Yang-Hoon Kim* and Ji-Young Ahn*

