

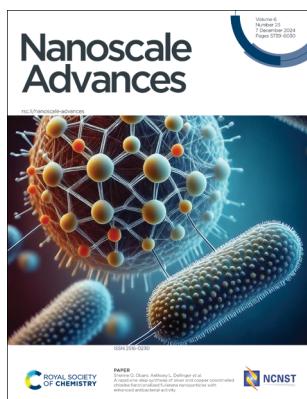
# Nanoscale Advances

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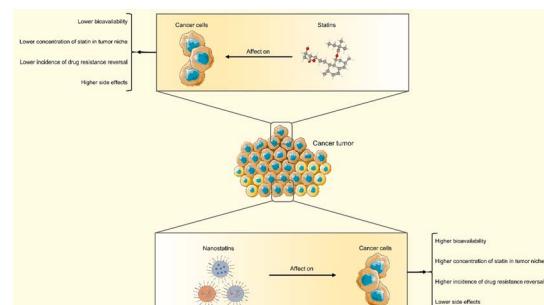
See Sherine O. Obare, Anthony L. Dellinger *et al.*, pp. 5833–5852.  
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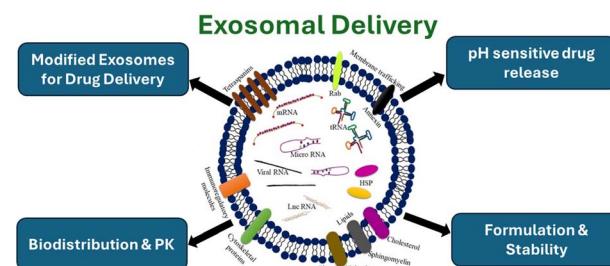
**Fundamental questions  
Elemental answers**

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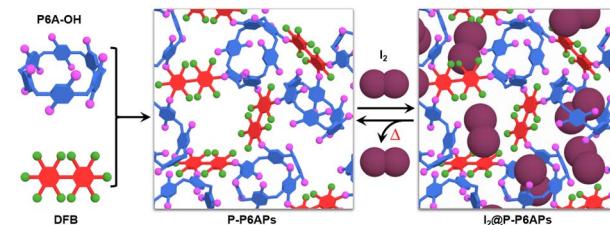


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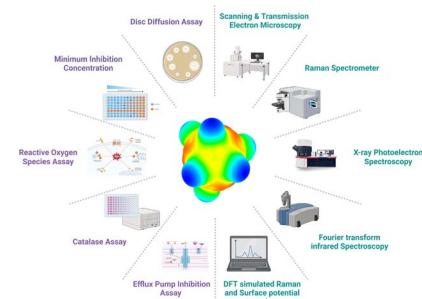


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**A rapid one-step synthesis of silver and copper coordinated chlorine functionalized fullerene nanoparticles with enhanced antibacterial activity**

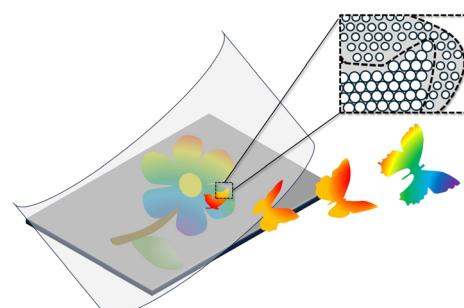
Abed Alqader Ibrahim, Tariq Khan, Kyle Nowlin, Jared Averitt, Gayani Pathiraja, Dennis LaJeunesse, Sherine O. Obare\* and Anthony L. Dellinger\*



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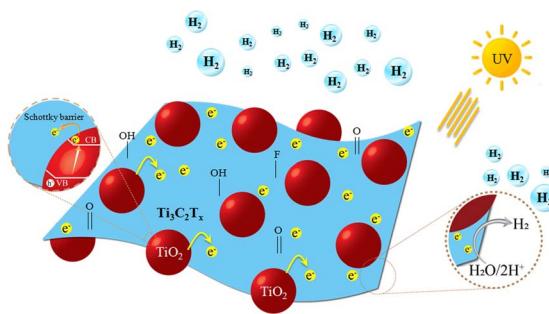
**Anti-counterfeiting labels of photonic crystals with versatile structural colors**

Nguyen Hoang Minh, Kwanoh Kim, Do Hyun Kang, Yeong-Eun Yoo and Jae Sung Yoon\*



## PAPERS

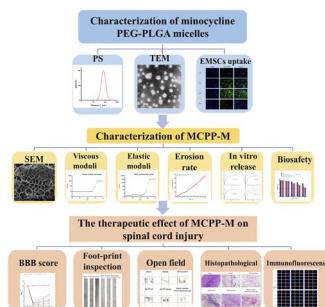
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### Unveiling the potential of MXene-fabricated catalysts: an effective approach for H<sub>2</sub> generation from water splitting

Muhammad Zeeshan Abid, Khezina Rafiq,\* Abdul Rauf and Ejaz Hussain\*

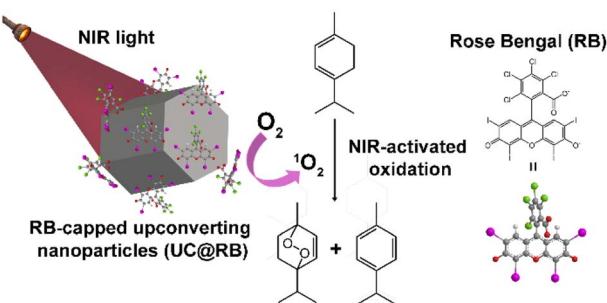
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### Preparation of a minocycline polymer micelle thermosensitive gel and its application in spinal cord injury

Jun Gu, Xiaohu Cai, Faisal Raza, Hajra Zafar, Bo Chu, Haitao Yuan, Tianqi Wang, Jiapeng Wang and Xiaojun Feng\*

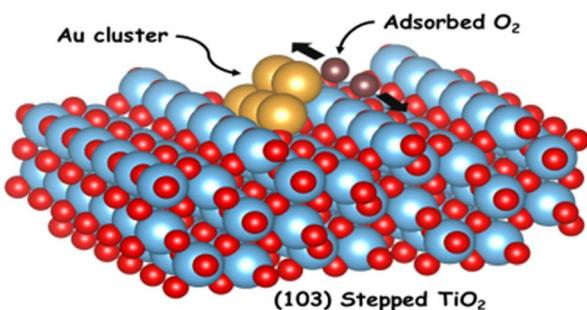
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### NIR-triggered photooxygenation of $\alpha$ -terpinene with upconversion nanohybrids

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Muhammed Fasil Puthiyaparambath, Julian Ezra Samuel and Raghu Chatanathodi\*

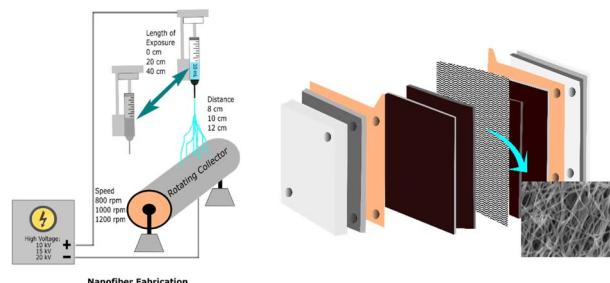


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**Fabricating ultra-thin nanofiber structures towards the advanced MEA of fuel cells: investigation of the degree of alignment, diameter, bead generation, and precision with Taguchi designs**

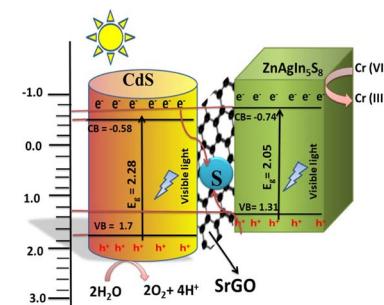
Muhammad Yusro\* and Viktor Hacker



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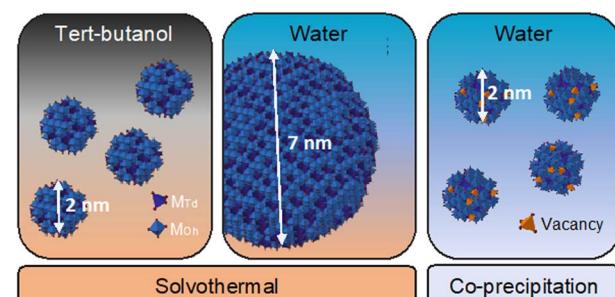
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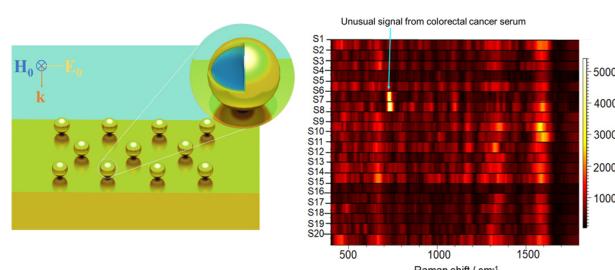
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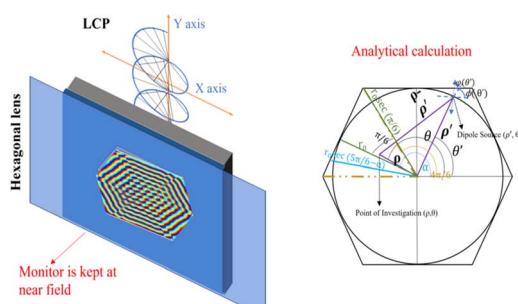
**Fano enhancement of SERS for rapid early diagnosis of colorectal cancer**

Tianxun Gong, Zhenjiang Wei, Libin Huang, Yan Hong, Yuan Li, Ke-ling Chen, Wen Huang, Xiaojing Zhong, Jinzhao He, Ming-Yi Lee, En-Chi Chang, Kien Voon Kong,\* Xiaosheng Zhang\* and Zongguang Zhou\*



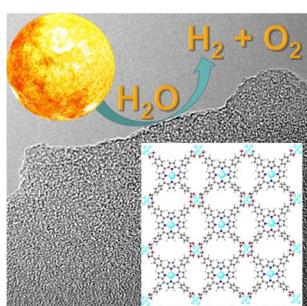
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**Optimization of a plasmonic lens structure for maximum optical vortices induced on Weyl semimetal surface states**

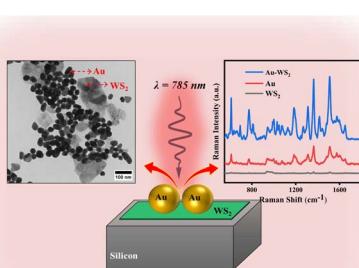
Ritwik Banerjee and Tanmoy Maiti\*

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**Photocatalytic activity of a 2D copper porphyrin metal-organic framework for visible light overall water splitting**

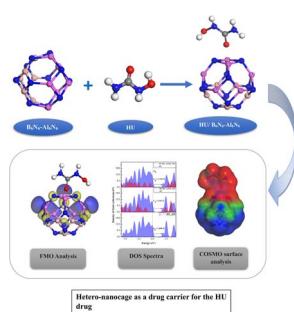
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Om Prakash, Abhijith T, Priya Nagpal, Vivekanandan Perumal, Supravat Karak, Udai B. Singh and Santanu Ghosh\*

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Mithila Roy Swarna, Mehedi Hasan Opi, Tanvir Ahmed, Afiya Akter Piya, Umme Habiba and Siraj Ud Daula Shamim\*

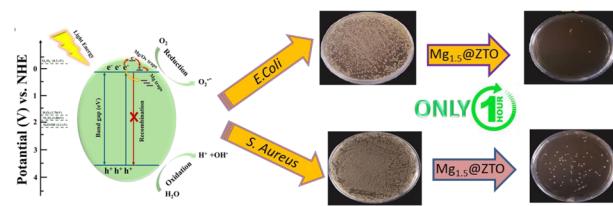


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Alaa Kamo, Ozlem Ates Sonmezoglu and Savas Sonmezoglu\*



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