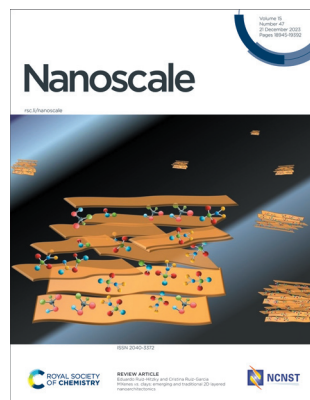


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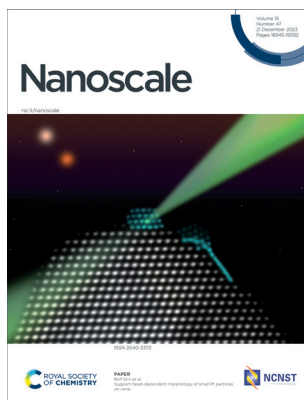
ISSN 2040-3372 CODEN NANOHL 15(47) 18945–19392 (2023)



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See Eduardo Ruiz-Hitzky and Cristina Ruiz-Garcia, pp. 18959–18979.

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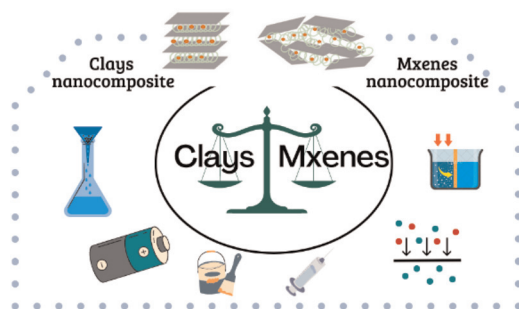
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### MXenes vs. clays: emerging and traditional 2D layered nanoarchitectonics

Eduardo Ruiz-Hitzky\* and Cristina Ruiz-Garcia

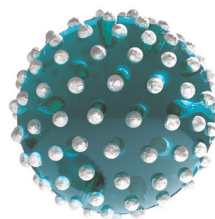


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### Liquid marbles: review of recent progress in physical properties, formation techniques, and lab-in-a-marble applications in microreactors and biosensors

Mizuki Tenjimayashi,\* Timothée Mouterde,\* Pritam Kumar Roy and Koichiro Uto

#### Liquid Marble: Comprehensive Review of Recent Progress



- ✓ **Physical Properties**
  - Droplet vs Liquid marble
  - Mechanical stability
  - Adhesion and friction
  - Shape evolution
  - Evaporation-induced effects
- ✓ **Formation techniques**
  - Formation processes
  - Conceptual variations
  - Liquid marble-templated material design
- ✓ **Lab-in-a-Marble Applications**
  - Microreactors
  - Biosensors



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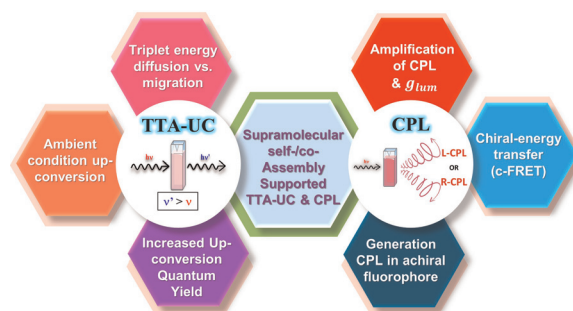


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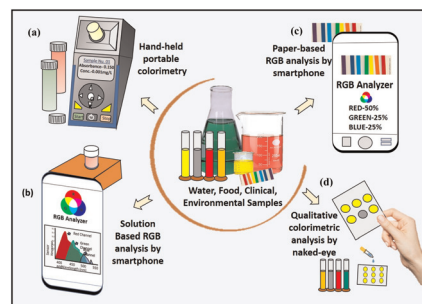
Alisha Sengupta, Gargee Roy, Aakash Ravikant Likhar and Deepak Asthana\*



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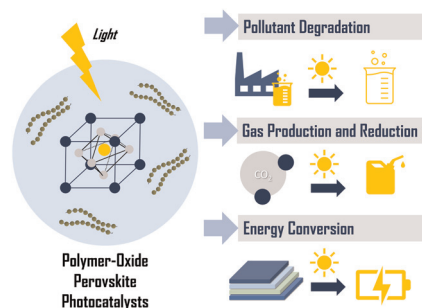
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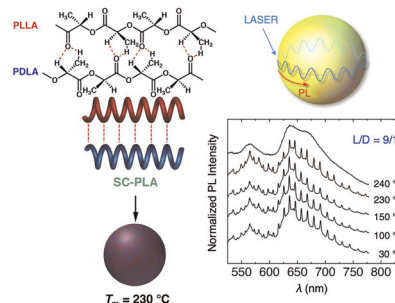


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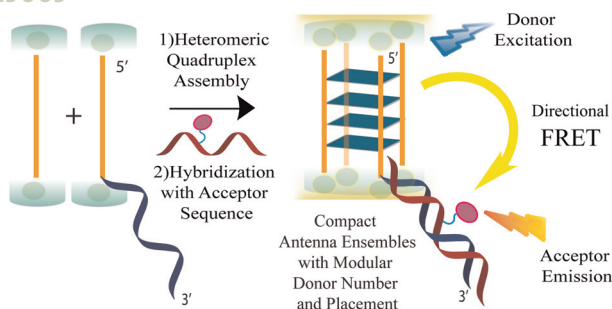
### Poly(lactic acid) stereocomplex microspheres as thermally tolerant optical resonators

Suhaman, Wey Yih Heah, Hiroshi Yamagishi and Yohei Yamamoto\*



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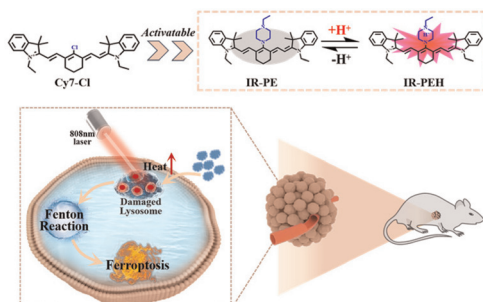
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Mohammad Amin Zarandi, Pravin Pathak, Noah Beltrami, Jada N. Walker, Fengqi Zhang, Jennifer S. Brodbelt, Russell Schmehl and Janarthanan Jayawickramarajah\*

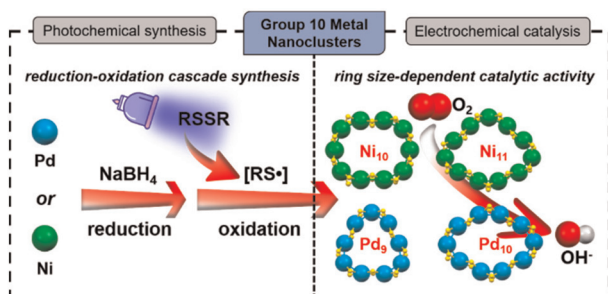
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Zhiwei Zhang, Jingjing Xiang, Lijiao Guan, Pu Chen, Changzhong Li, Chunlei Guo, Yan Hu,\* Saipeng Huang,\* Lintao Cai\* and Ping Gong\*

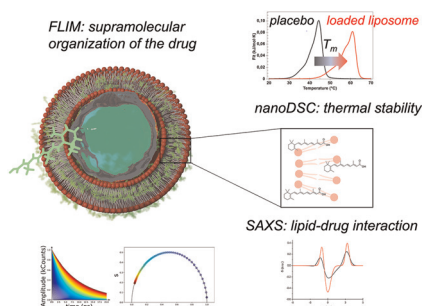
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Ji-Qiang Fan, Kehui Cen, Hua-Jun Xu, Hai-Yang Wang, Ying Yang, Ze-Min Zhu, Hao Liu, Dengyu Chen, Weigang Fan\* and Man-Bo Li\*

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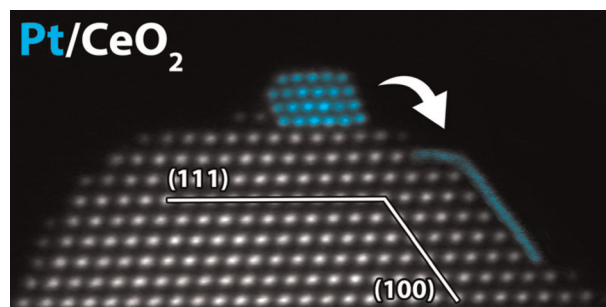


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**Support-facet-dependent morphology of small Pt particles on ceria**

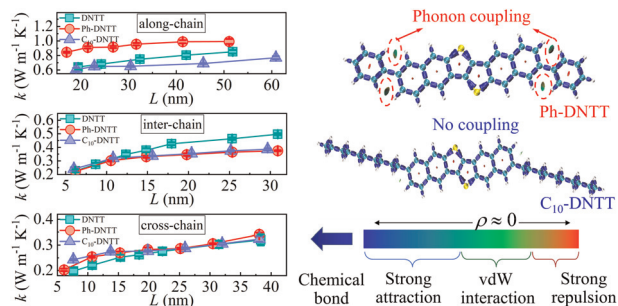
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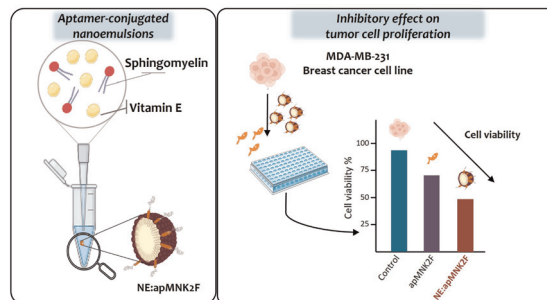
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**Chemical conjugation of aptamer–sphingomyelin nanosystems and their potential as inhibitors of tumour cell proliferation in breast cancer cells**

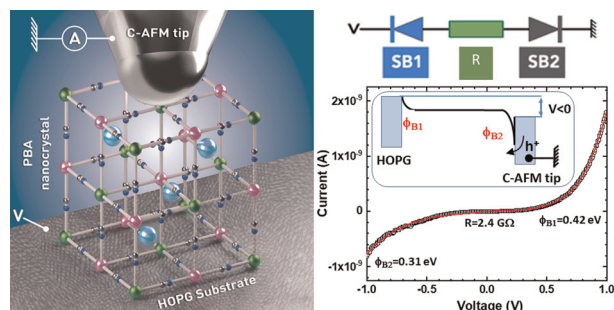
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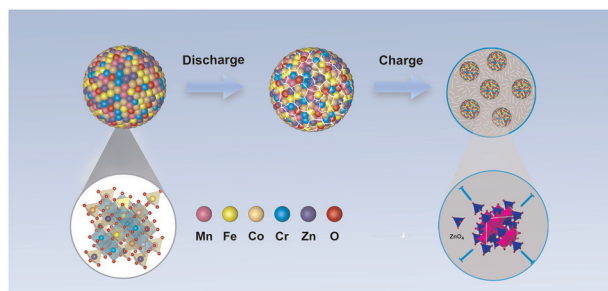
**Electronic properties of single Prussian Blue Analog nanocrystals determined by conductive-AFM**

Hugo Therssen, Laure Catala, Sandra Mazérat, Talal Mallah, Dominique Vuillaume, Thierry Mélin and Stéphane Lenfant\*



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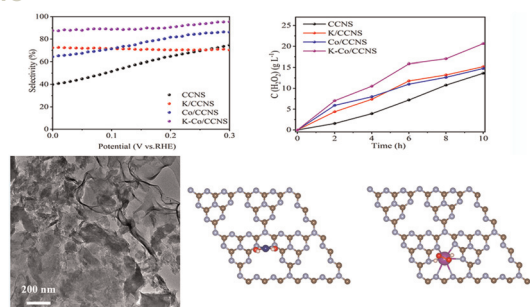
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Huitao Leng, Panpan Zhang, Jiansheng Wu, Taiding Xu, Hong Deng, Pan Yang, Shouyue Wang, Jingxia Qiu,\* Zhenzhen Wu\* and Sheng Li\*

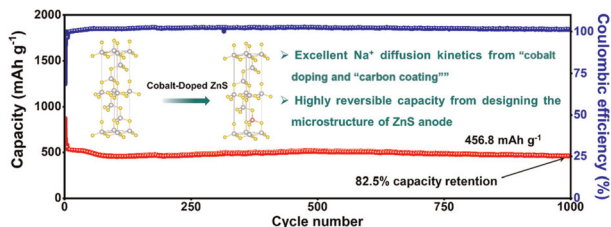
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Ying Wang, Hongcen Yang, Niandi Lu, Di Wang, Kun Zhu, Zhixia Wang, Lianshan Mou, Yan Zhang, Yawei Zhao, Kun Tao, Fei Ma\* and Shanglong Peng\*

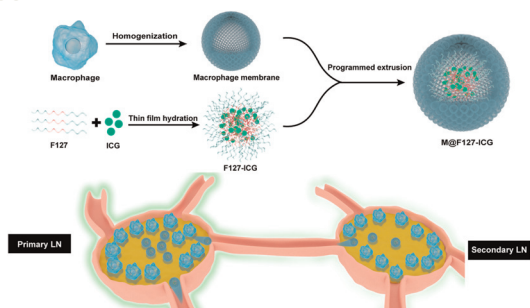
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Miaoxin Di, Zhenqi Song, Suhua Chen\* and Ying Bai\*

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### Biomimetic nanoplatform with selectively positioned indocyanine green for accurate sentinel lymph node imaging

Wenjing Cheng, Xiangbai Wu, Shi Yu, Chengwei Zhang, Yinhong Song, Xinzhi Li and Xiang Yu\*

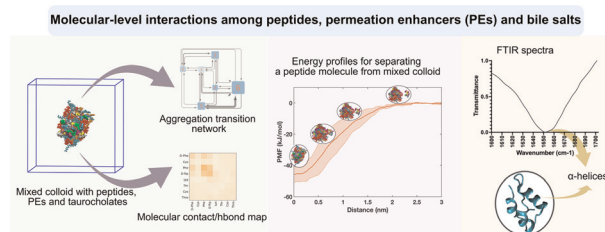


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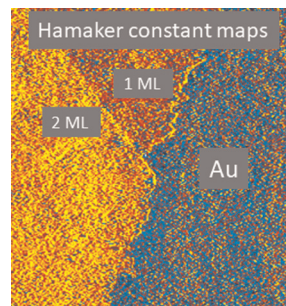
Shakhawath Hossain, Rosita Kneiszl and Per Larsson\*



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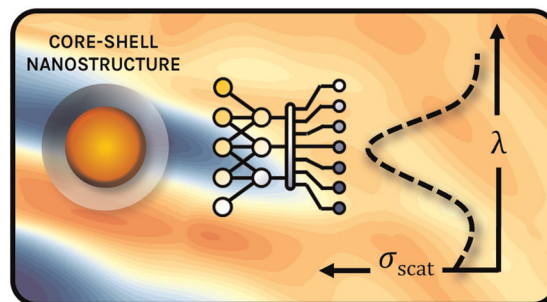
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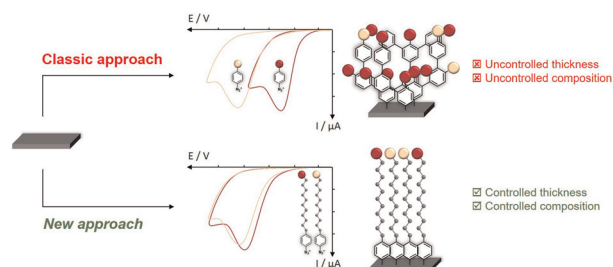
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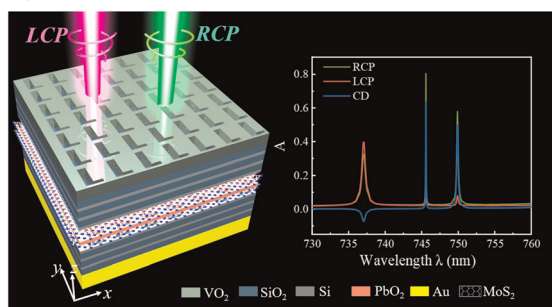
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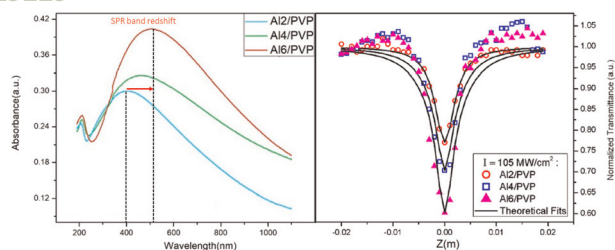
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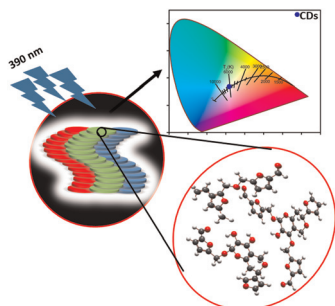
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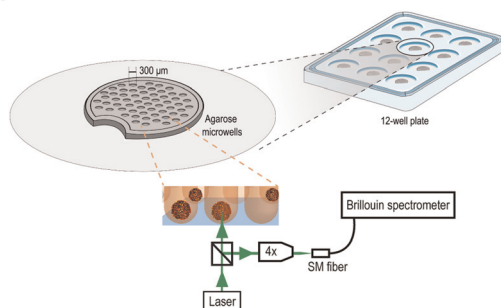
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Giulia Guerriero, Alexis Viel, Veronica Feltri, Alice Balboni, Guqi Yan, Sylvain Monnier, Giovanna Lollo\* and Thomas Dehoux\*



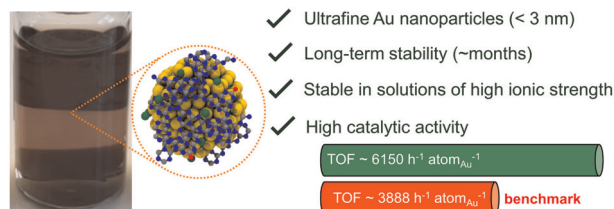


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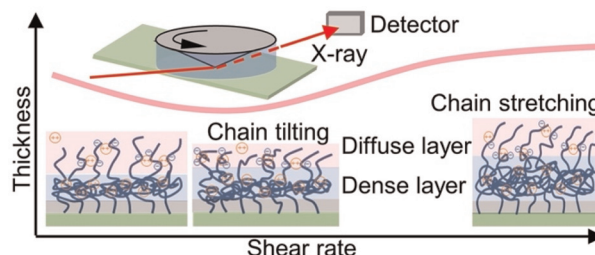
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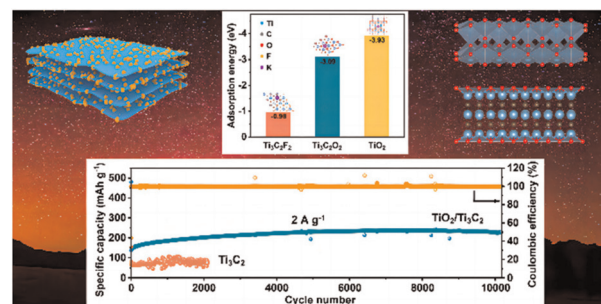
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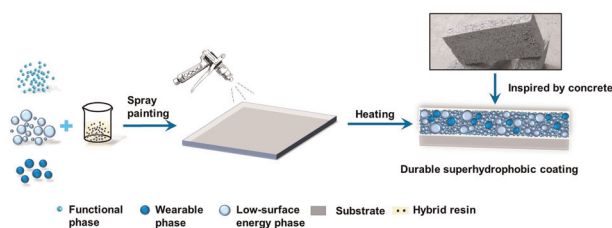
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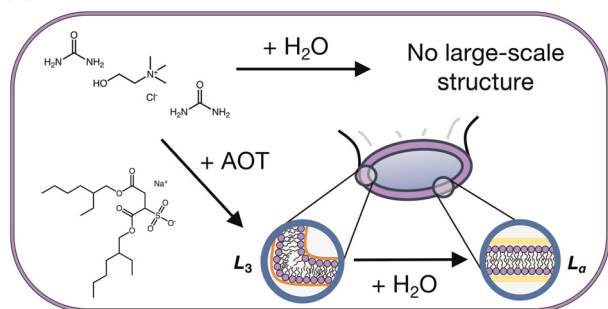
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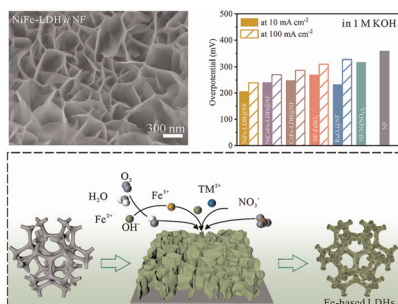
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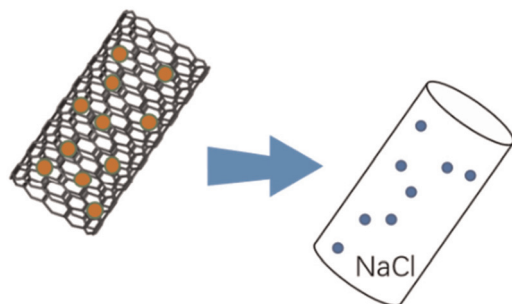
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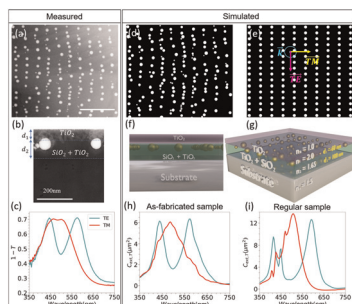
Yanqi Liu, Chenghao Zhang, Qingsong Cai, Jianmin Zhang\* and Zongmin Zheng\*

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Ze-Qin Yang, Wei-Bin Zhang,\* Kang Yang, Bi Chen, Yi Yin, Jia-Jun Li, Jing-Lei Yang, Yue Gao and Xue-Jing Ma\*

19339

**Hybridization between plasmonic and photonic modes in laser-induced self-organized quasi-random plasmonic metasurfaces**

Van Doan Le, Yaya Lefkir and Nathalie Destouches\*

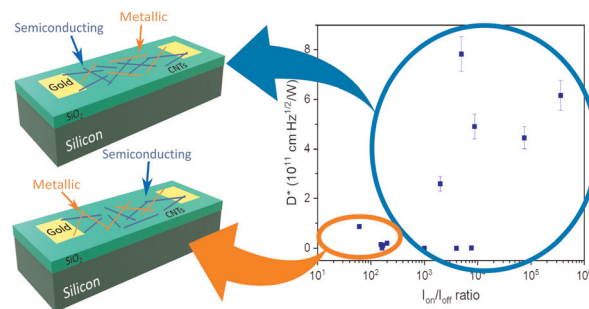


## PAPERS

19351

### Photogating interfacial effects in carbon nanotube-based transistors on a Si/SiO<sub>2</sub> substrate toward highly sensitive photodetection

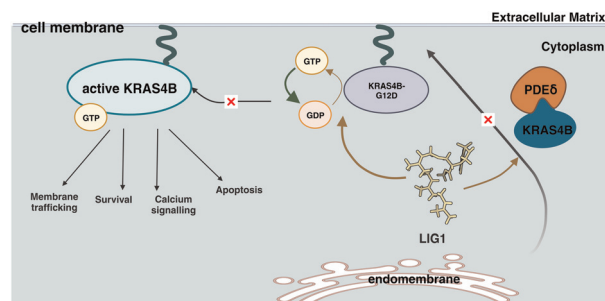
Svetlana I. Serebrennikova, Daria S. Kopylova, Yuriy G. Gladush, Dmitry V. Krasnikov, Sakellaris Mailis and Albert G. Nasibulin\*



19359

### *In silico* design of a lipid-like compound targeting KRAS4B-G12D through non-covalent bonds

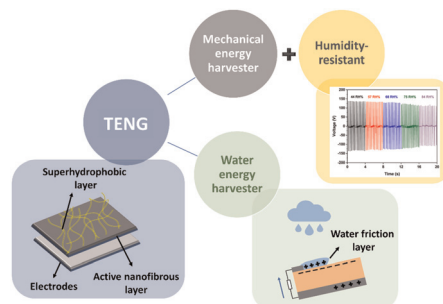
Huixia Lu,\* Zheyao Hu, Jordi Faraudo and Jordi Martí\*



19369

### Flexible, humidity- and contamination-resistant superhydrophobic MXene-based electrospun triboelectric nanogenerators for distributed energy harvesting applications

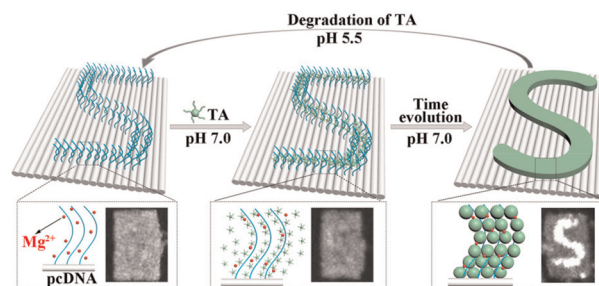
Sagar Sardana, Vaishali Sharma, Kevin Gurbani Beepat, Davinder Pal Sharma, Amit Kumar Chawla and Aman Mahajan\*



19381

### The controllable patterning of tannic acid on DNA origami

Yuanyuan Luo, Liqiong Niu, Pengyan Hao, Xiaoya Sun, Yongxi Zhao and Na Wu\*



## CORRECTION

19389

**Correction: Considerable slowdown of short DNA fragment translocation across a protein nanopore using pH-induced generation of enthalpic traps inside the permeation pathway**

Loredana Mereuta, Alina Asandei, Ioan Andricioaei, Jonggwan Park, Yoonkyung Park\* and Tudor Luchian\*

