

# Materials Advances

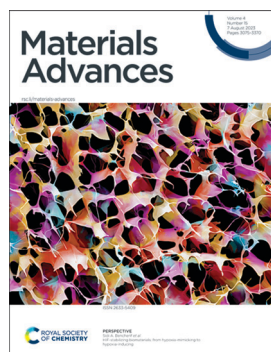
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### Cover

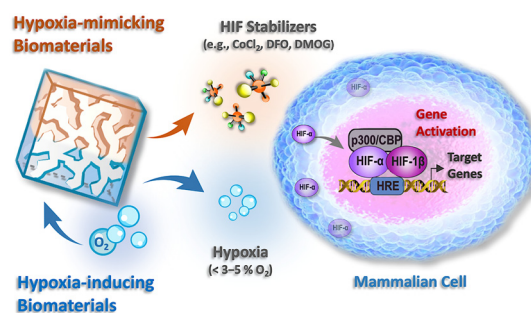
See Sidi A. Bencherif  
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2023, 4, 3084.

## PERSPECTIVE

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### HIF-stabilizing biomaterials: from hypoxia-mimicking to hypoxia-inducing

Thibault Colombani, Khushbu Bhatt, Boris Epel, Mrignayani Kotecha and Sidi A. Bencherif\*

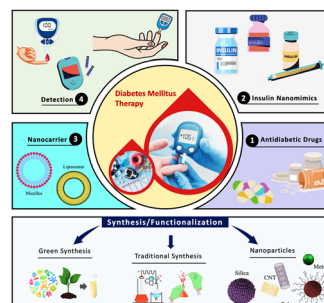


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### Emerging trends in nano-based antidiabetic therapeutics: a path to effective diabetes management

Ritika Sharma, Shikha Jyoti Borah, Bhawna, Sanjeev Kumar, Akanksha Gupta, Vandana Kumari, Ravinder Kumar,\* Kashyap Kumar Dubey and Vinod Kumar\*



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## REVIEWS

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### Advances in electrospun chitosan nanofiber biomaterials for biomedical applications

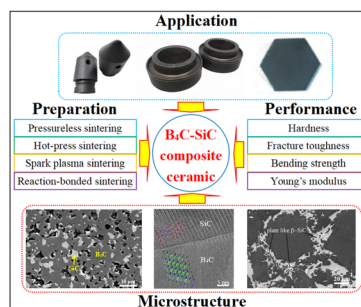
Ganesan Padmini Tamilarasi, Govindaraj Sabarees, Krishnan Manikandan,\* Siddan Gouthaman, Veerachamy Alagarsamy\* and Viswas Raja Solomon\*



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Wei Zhang

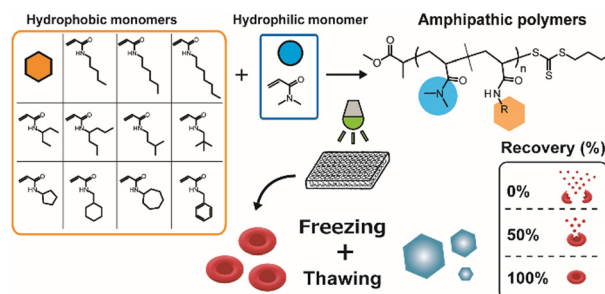


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Masanori Nagao,\* Shuya Tanaka and Yoshiko Miura\*

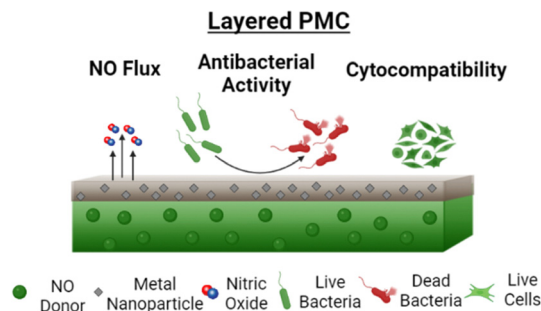


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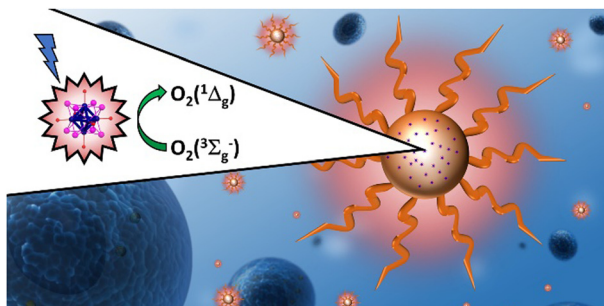
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### Catalytic effect of transition metal-doped medical grade polymer on S-nitrosothiol decomposition and its biological response

Arnab Mondal, Patrick Maffe, Sarah N. Wilson, Sama Ghalei, Ricky Palacio, Hitesh Handa and Elizabeth J. Brisbois\*



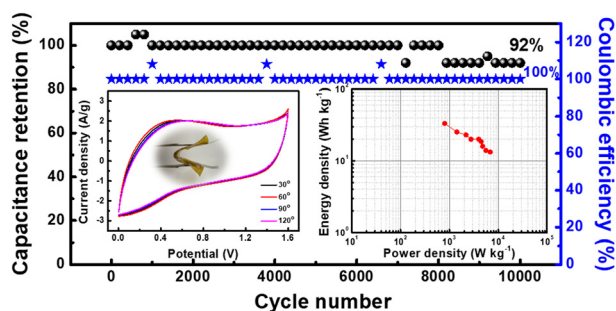
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### PEGylated poly(lactic-co-glycolic acid) nanoparticles doped with molybdenum-iodide nanoclusters as a promising photodynamic therapy agent against ovarian cancer

Alexis Verger,\* Gilles Dollo, Nolwenn Brandhonneur, Sophie Martinais, Stéphane Cordier, Kamil Lang, Maria Amela-Cortes and Kaplan Kirakci\*

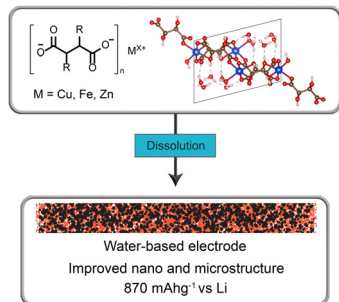
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### Polyacrylonitrile-grafted lignin copolymer derived carbon nanofibers as a flexible electrode for high-performance capacitive-energy storage

Da-Young Kim, Sivaprakasam Radhakrishnan, Seungmin Yu and Byoung-Suhk Kim\*

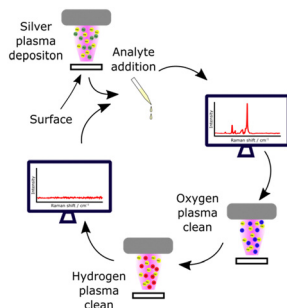
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Matthew Teusner,\* Jitendra Mata, Bernt Johannessen, Glen Stewart, Seán Cadogan and Neeraj Sharma

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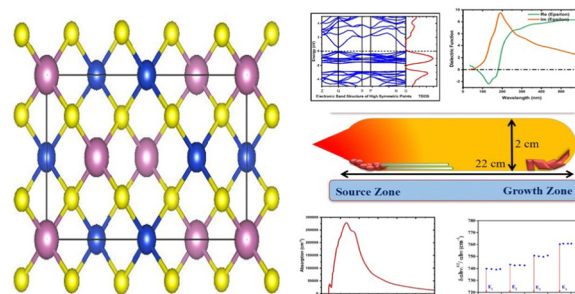
Oliver S. J. Hagger, M. Emre Sener, Imran Khan, Francis Lockwood Estrin, Stefanos Agrotis, Albertus D. Handoko, Ivan P. Parkin and Daren J. Caruana\*



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Ranjan Kr. Giri,\* Sunil H. Chaki,\* Mehul S. Dave, Shivani R. Bharucha, Ankurkumar J. Khimani, Rohitkumar M. Kannaujiya, Milind P. Deshpande and Mitesh B. Solanki

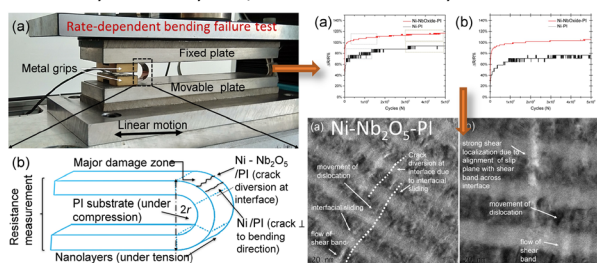


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Rahul Sahay,\* Yen-Cheng Tu, Izzat Aziz, Arief S. Budiman,\* Cher Ming Tan, Pooi See Lee, Olivier Thomas and Nagarajan Raghavan\*

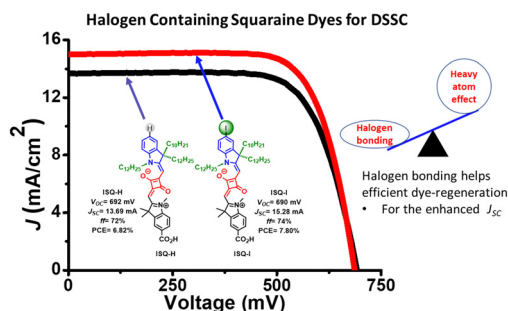
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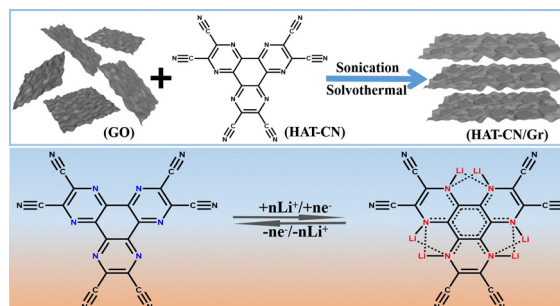
Indrajeet S. Nawghare, Ambarish Kumar Singh, Ashakiran Maibam, Shivdeep Suresh Deshmukh, Sailaja Krishnamurthy,\* Kothandam Krishnamoorthy\* and Jayaraj Nithyanandhan\*



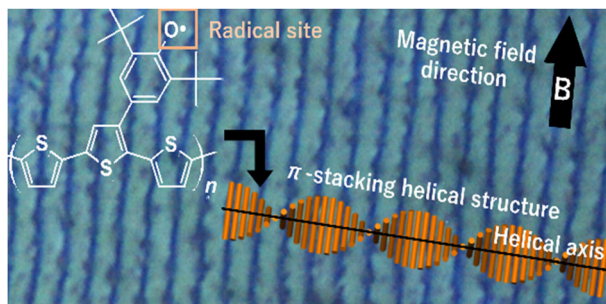
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### Graphene-sandwiched nitrogen-enriched $\pi$ -conjugated molecules as redox-active cathodes for Li-ion batteries

Kai Chen, Xiaolan Ma, Xiaoyan Han\* and Yingkui Yang\*



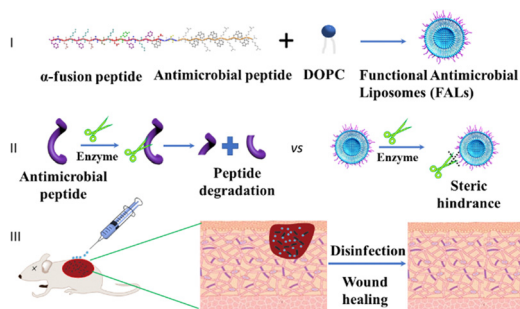
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**Oriented quasi-domain structure of helical spin polymers prepared by electrochemical polymerization in a cholesteric liquid crystal under a magnetic field, showing a helical stripe magnetic domain**

Masashi Otaki, Shigeki Nimori and Hiromasa Goto\*

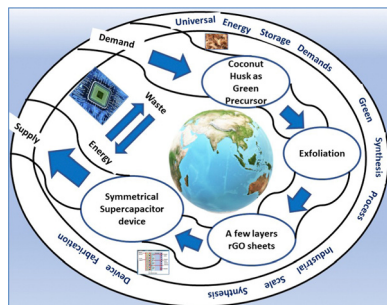
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**Nanoliposomes protecting antimicrobial peptides via membrane-fused incorporation to fight wound infection**

Hao Xue, Jiaying Li, Liwei Zhang, Xiaolu Song,\* Hui Shi, Yonghai Feng, Shuai Hou, Zengkai Wang, Taofeng Zhu\* and Lei Liu\*

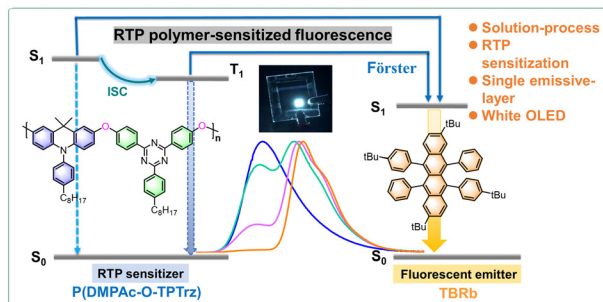
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**Coconut-husk derived graphene for supercapacitor applications: comparative analysis of polymer gel and aqueous electrolytes**

Gaurav Tatrari, Chetna Tewari, Mayank Pathak, Diksha Bhatt, Manisha Solanki, Faiz Ullah Shah and Nanda Gopal Sahoo\*

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**Solution-processed orange and white OLEDs sensitized by an electroactive pure organic room-temperature phosphorescent polymer**

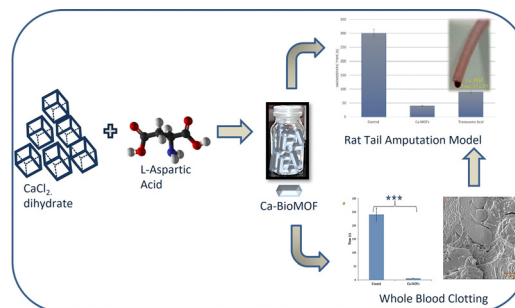
Yiting Tian, Renze He, Guoyun Meng,\* Shumeng Wang,\* Lei Zhao and Junqiao Ding\*



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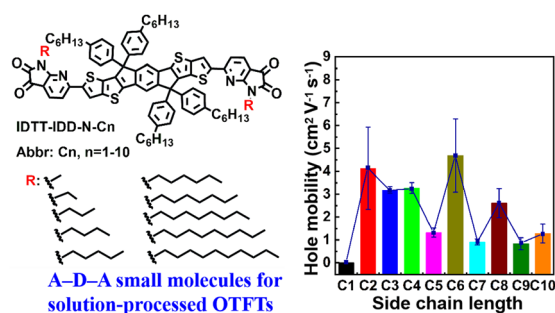
Chandan Bhogendra Jha, Chitrangda Singh, Raunak Varshney, Sweta Singh, Kuntal Manna\* and Rashi Mathur\*



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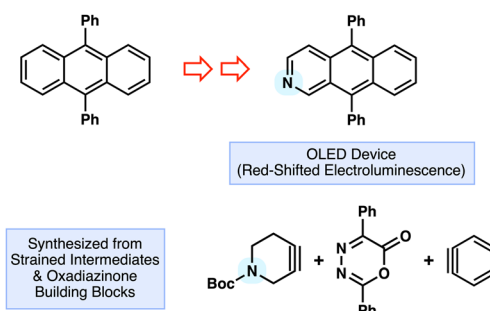
Wenyu Cai, Jiyun Lee, Yao Zhao, Boseok Kang\* and Guobing Zhang\*



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Evan R. Darzi, Dane A. Stanfield, Luca McDermott, Andrew V. Kelleghan, Benjamin J. Schwartz\* and Neil K. Garg\*



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Yangyang Zheng, Ye He, Chang Liu, Leqian Song and Huacheng Zhang\*

