

Materials Advances

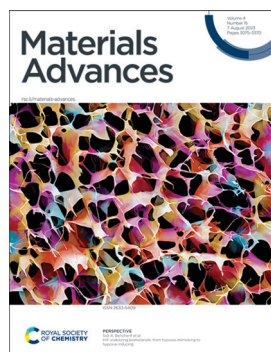
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Cover

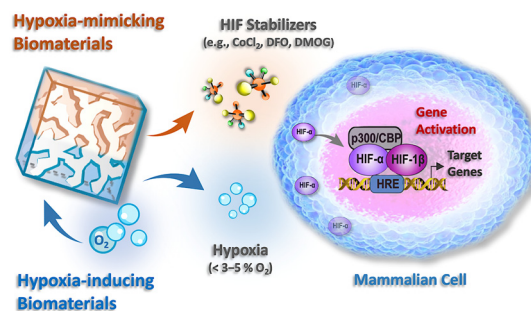
See Sidi A. Bencherif
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2023, 4, 3084.

PERSPECTIVE

3084

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

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

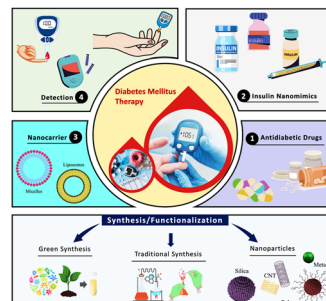


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Emerging trends in nano-based antidiabetic therapeutics: a path to effective diabetes management

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

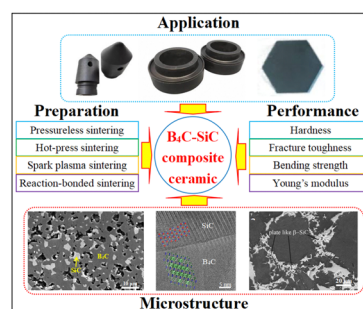
Ganesan Padmini Tamilarasi, Govindaraj Sabarees, Krishnan Manikandan,* Siddan Gouthaman, Veerachamy Alagarsamy* and Viswas Raja Solomon*



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Recent progress in B₄C–SiC composite ceramics: processing, microstructure, and mechanical properties

Wei Zhang

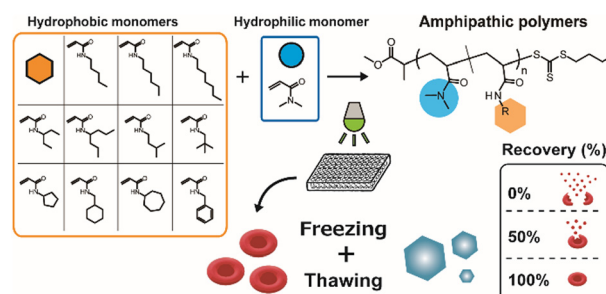


COMMUNICATION

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Preparation of an amphipathic polymer library in a mixture of water/ethanol by photoinduced polymerization and evaluation of the cryoprotective activity

Masanori Nagao,* Shuya Tanaka and Yoshiko Miura*

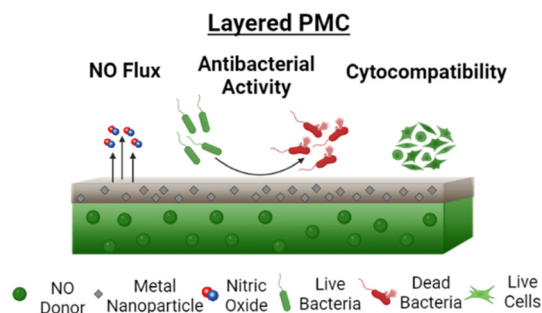


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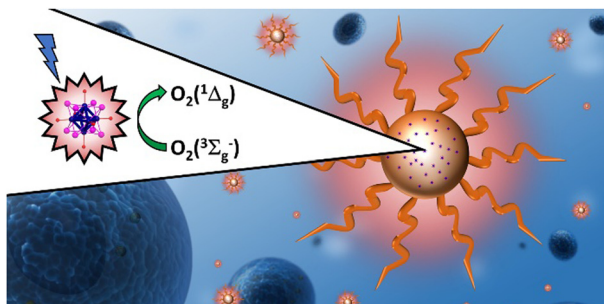
Catalytic effect of transition metal-doped medical grade polymer on S-nitrosothiol decomposition and its biological response

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



PAPERS

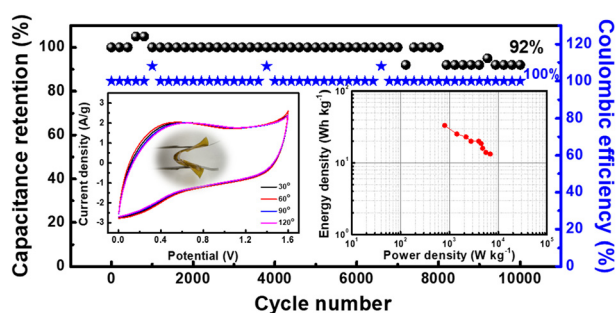
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PEGylated poly(lactic-co-glycolic acid) nanoparticles doped with molybdenum-iodide nanoclusters as a promising photodynamic therapy agent against ovarian cancer

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

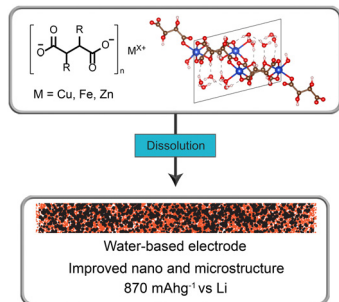
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Polyacrylonitrile-grafted lignin copolymer derived carbon nanofibers as a flexible electrode for high-performance capacitive-energy storage

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

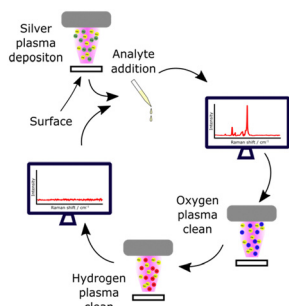
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Metal dicarboxylates as anode materials for Li-ion batteries

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

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Rapid single step atmospheric pressure plasma jet deposition of a SERS active surface

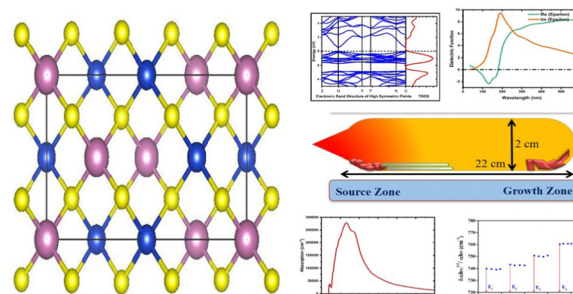
Oliver S. J. Hagger, M. Emre Sener, Imran Khan, Francis Lockwood Estrin, Stefanos Agrotis, Albertus D. Handoko, Ivan P. Parkin and Daren J. Caruana*



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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

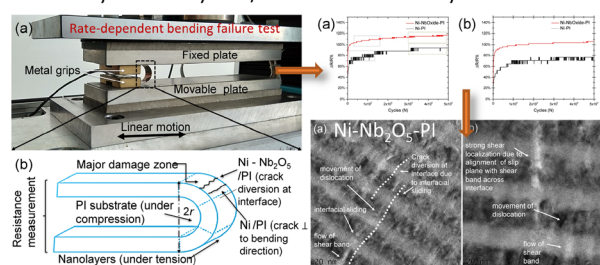


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Investigation of the reliability of nano-nickel/niobium oxide-based multilayer thin films deposited on polymer substrates for flexible electronic applications

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

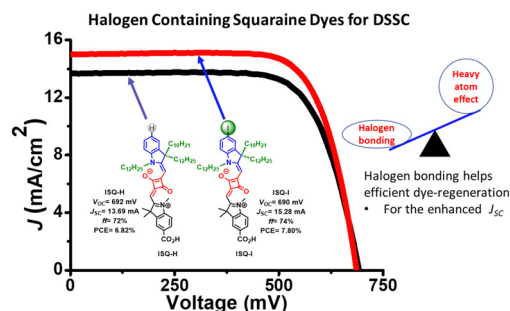
Reliability of multilayer Ni/Niobium oxide on Polymer substrate



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Halogen functionalized D-A-D-type unsymmetrical squaraine dyes for dye-sensitized solar cells

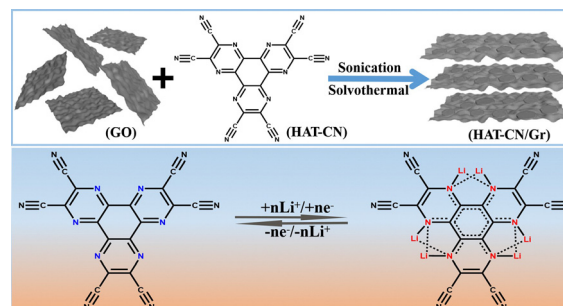
Indrajeet S. Nawghare, Ambarish Kumar Singh, Ashakiran Maibam, Shivdeep Suresh Deshmukh, Sailaja Krishnamurthy,* Kothandam Krishnamoorthy* and Jayaraj Nithyanandhan*



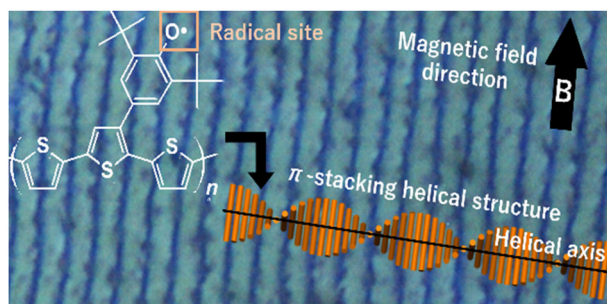
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Graphene-sandwiched nitrogen-enriched π -conjugated molecules as redox-active cathodes for Li-ion batteries

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



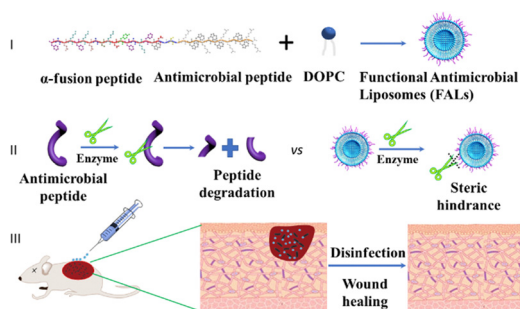
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Oriented quasi-domain structure of helical spin polymers prepared by electrochemical polymerization in a cholesteric liquid crystal under a magnetic field, showing a helical stripe magnetic domain

Masashi Otaki, Shigeki Nimori and Hiromasa Goto*

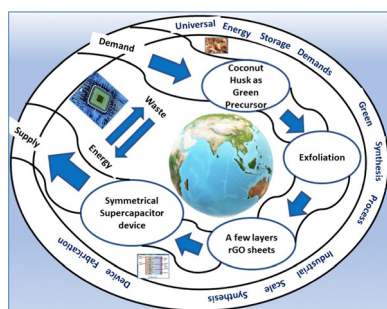
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Nanoliposomes protecting antimicrobial peptides via membrane-fused incorporation to fight wound infection

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

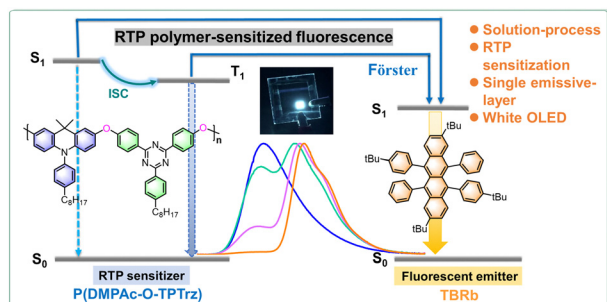
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Coconut-husk derived graphene for supercapacitor applications: comparative analysis of polymer gel and aqueous electrolytes

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*

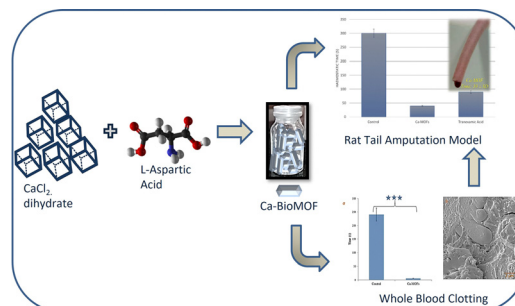


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Development of novel aspartic acid-based calcium bio-MOF designed for the management of severe bleeding

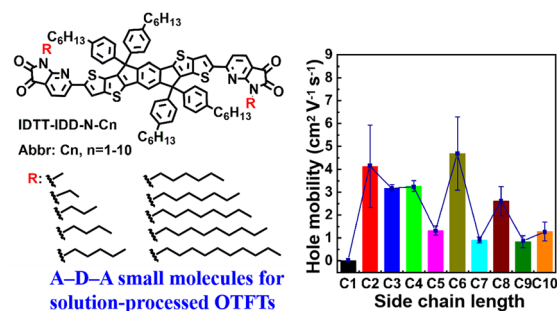
Chandan Bhogendra Jha, Chitrangda Singh, Raunak Varshney, Sweta Singh, Kuntal Manna* and Rashi Mathur*



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Optimized charge transport in *N*-substituted isatin-based acceptor–donor–acceptor small molecules by regulating the side chain length for solution-processable organic thin-film transistors

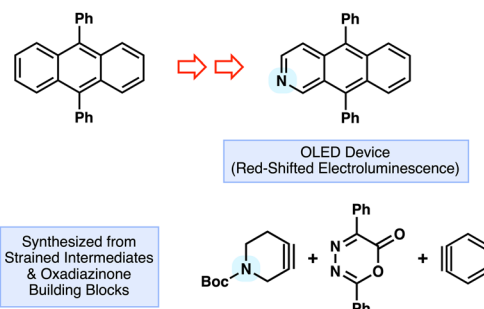
Wenyu Cai, Jiyun Lee, Yao Zhao, Boseok Kang* and Guobing Zhang*



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Facile synthesis of 2-aza-9,10-diphenylanthracene and the effect of precise nitrogen atom incorporation on OLED emitters performance

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



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Preparation of citric acid/porous starch composite adsorbents and their adsorption studies

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

