

Materials Advances

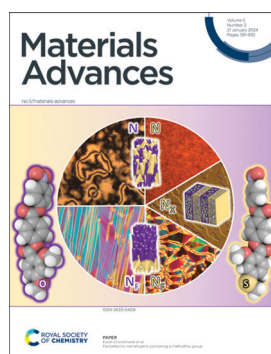
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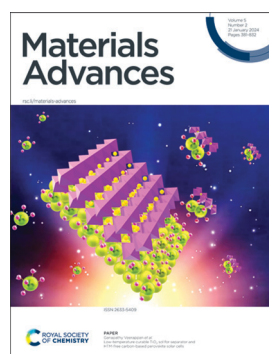
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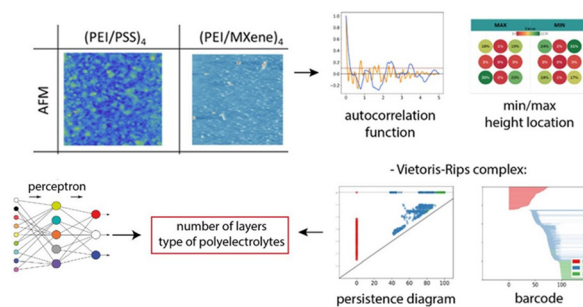
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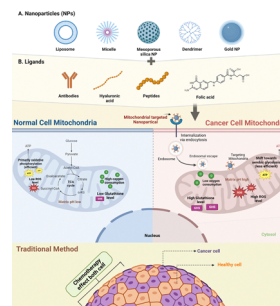
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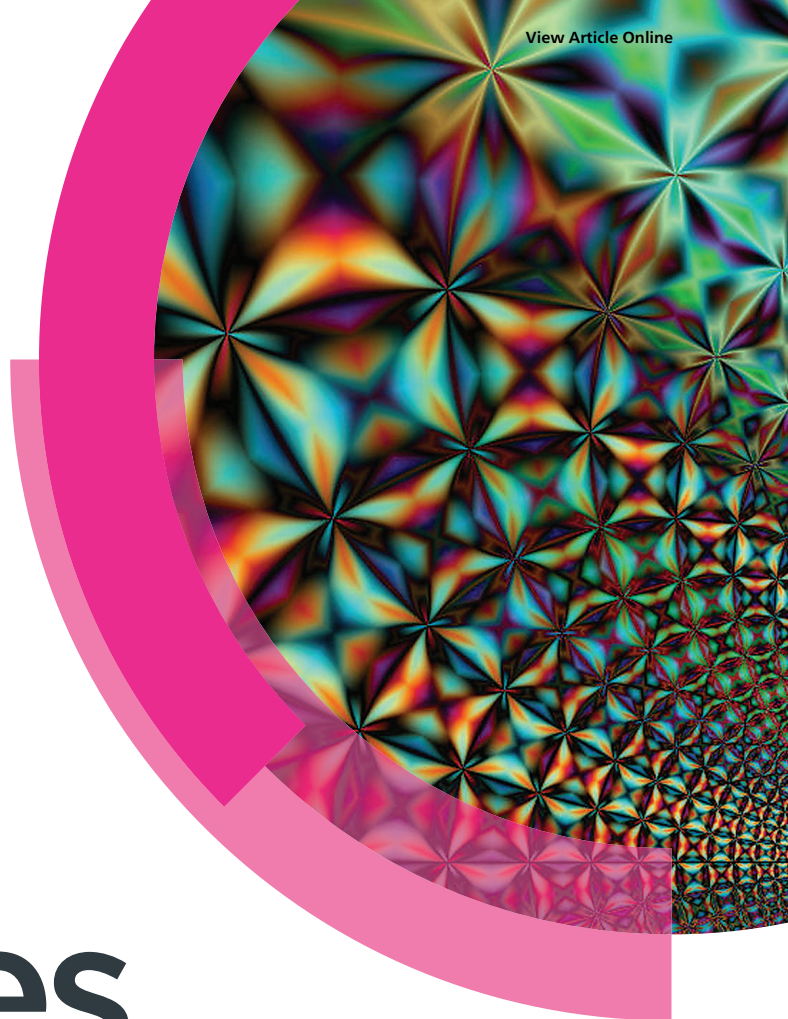


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REVIEWS

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Advanced and personalized healthcare through integrated wearable sensors (versatile)

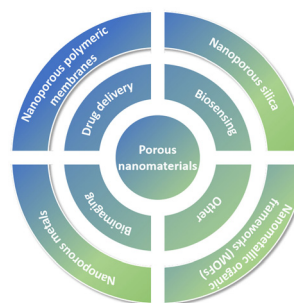
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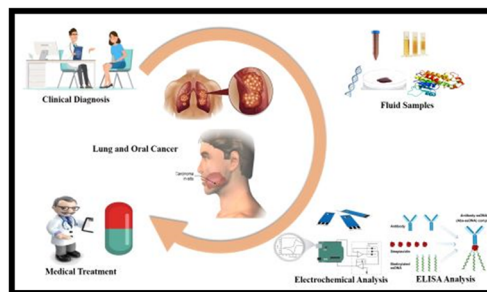
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Hema Bhardwaj, Archana, Ashab Noumani, Jayendra Kumar Himanshu, Shreeti Chakravorty and Pratima R. Solanki*

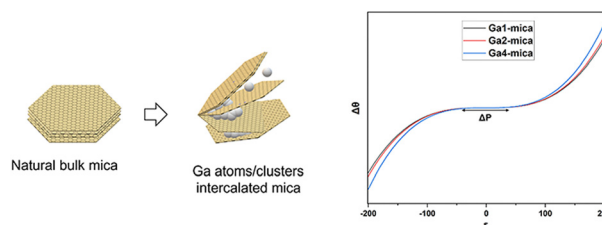


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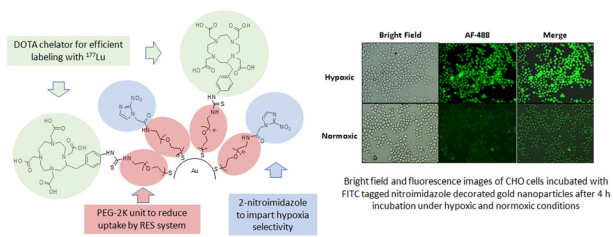
Mica nanosheets synthesized *via* liquid Ga embrittlement: demonstrating enhanced CO₂ capture

P. Vishakha T. Weerasinghe, Shunnian Wu, W.P. Cathie Lee, Qiang Zhu, Ming Lin and Ping Wu*



COMMUNICATIONS

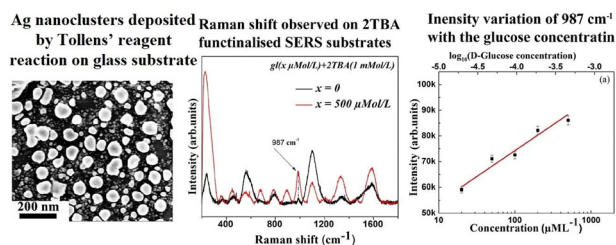
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Re-engineered theranostic gold nanoparticles for targeting tumor hypoxia

Sweety Mittal, Chandan Kumar, Madhava B. Mallia* and Haladhar Dev Sarma

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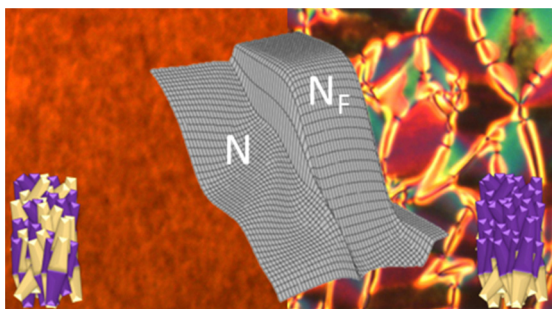


Arresting Tollens' reagent's reaction on a glass surface as the easiest method to fabricate Ag nanocluster-based SERS substrates for glucose sensing

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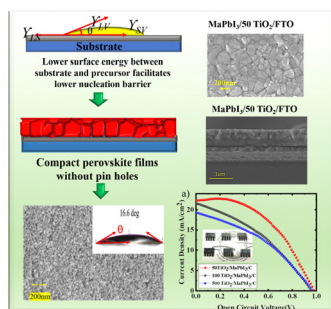
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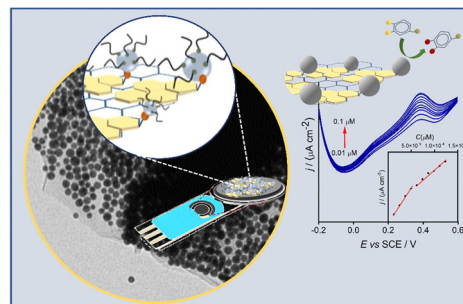
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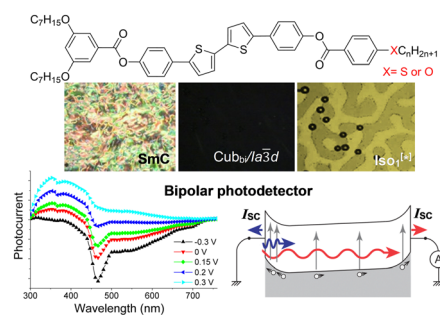
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Luminescent and photoconductive liquid crystalline lamellar and helical network phases of achiral polycatenars

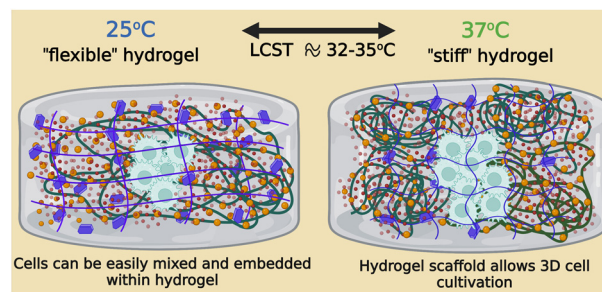
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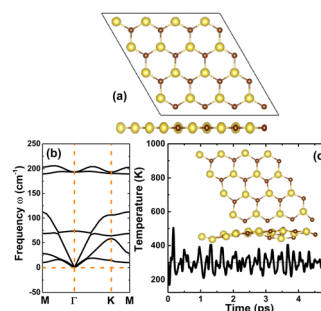
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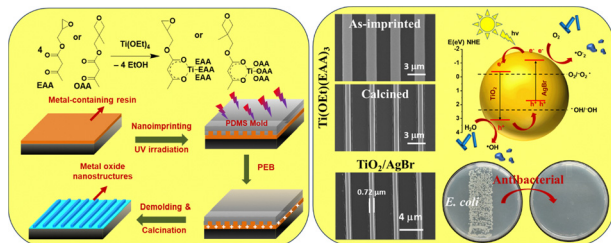
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Effects of transition metals and earth alkaline metals in the ionic honeycomb monolayer sodium bromide towards spintronic applications

Vo Van On, J. Guerrero-Sanchez and D. M. Hoat*



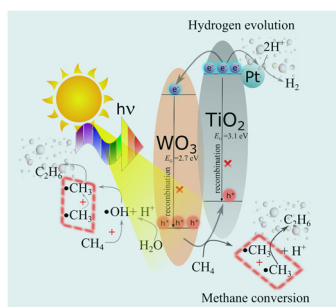
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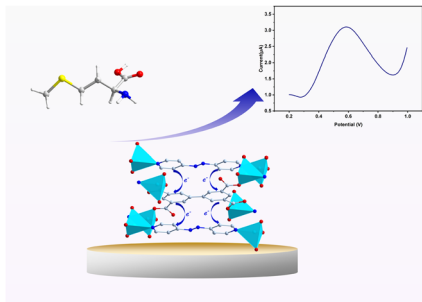
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Methane conversion and hydrogen production over $\text{TiO}_2/\text{WO}_3/\text{Pt}$ heterojunction photocatalysts

Saulo Amaral Carminati,* Eliane Ribeiro Januário, Arthur Pignataro Machado, Patrícia Ferreira Silvaino, Jorge Moreira Vaz and Estevam Vitorio Spinacé*

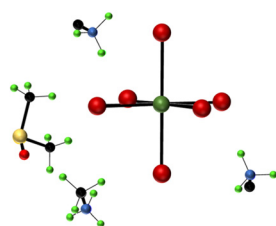
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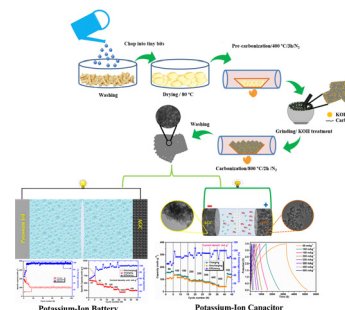
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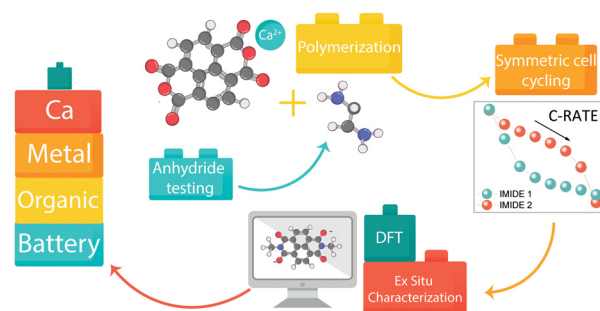
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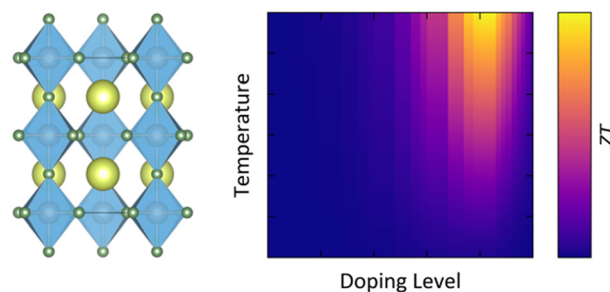
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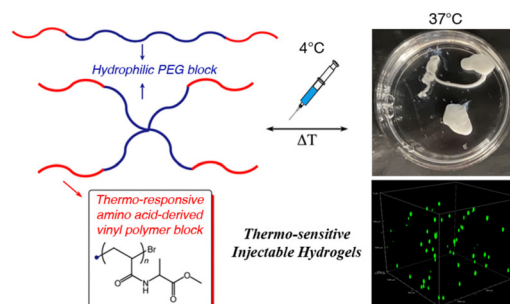
Alveena Z. Khan, Joseph M. Flitcroft and Jonathan M. Skelton*



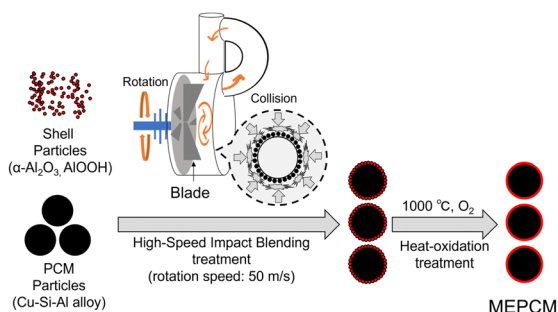
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Thermo-responsive injectable hydrogels from linear and star-shaped block copolymers composed of amino acid-derived vinyl polymer and poly(ethylene glycol) for biomedical applications

Mitsuki Nakamura, Shin-nosuke Nishimura,* Nobuyuki Higashi and Tomoyuki Koga*



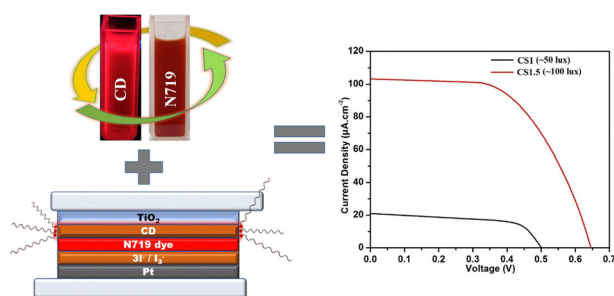
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High-temperature ternary Cu–Si–Al alloy as a core–shell microencapsulated phase change material: fabrication *via* dry synthesis method and its thermal stability mechanism

Masahiro Aoki, Melbert Jeem, Yuto Shimizu, Takahiro Kawaguchi, Minako Kondo, Tomokazu Nakamura, Chihiro Fushimi and Takahiro Nomura*

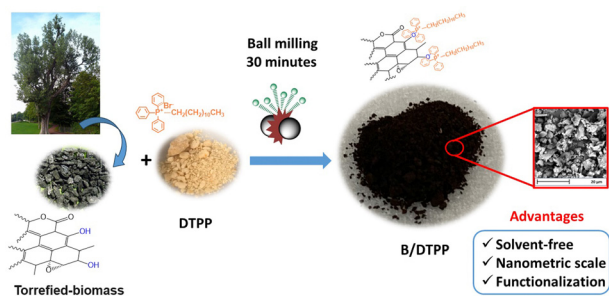
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Harnessing infrared radiation using carbon dots: photovoltaic devices achieving extraordinary efficiency under faint lighting

Karan Surana, Bhaskar Bhattacharya and Saurabh S. Soni*

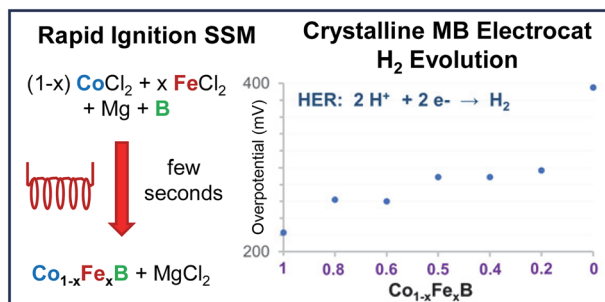
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Eco-friendly one-shot approach for producing a functionalized nano-torrefied biomass: a new application of ball milling technology

Aida Kiani, Elena Lamberti, Gianluca Viscusi, Paola Giudicianni, Corinna Maria Grottola, Raffaele Ragucci, Giuliana Gorrasi and Maria Rosaria Acocella*

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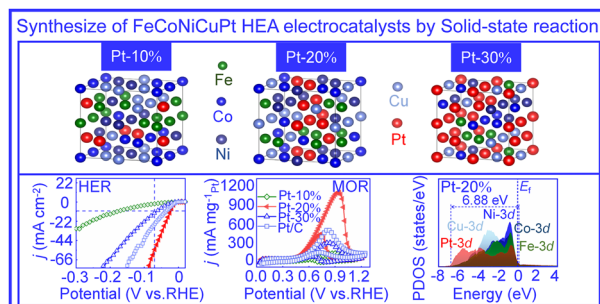
Janaka P. Abeysinghe and Edward G. Gillan*



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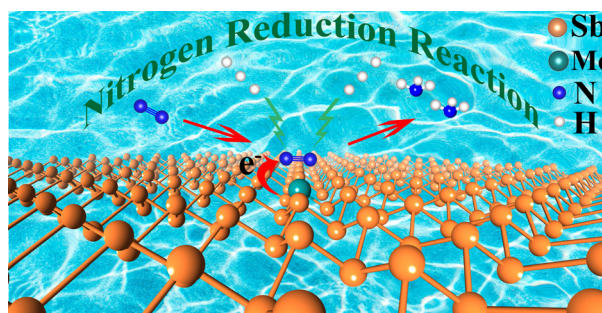
Chao Meng, Xuhui Wang, Zhiyong Li, Chun Wu,*
Ling Chang, Runqing Liu and Wenli Pei*



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Single transition atom-doped antimonene as a highly efficient electrocatalyst for the nitrogen reduction reaction: a DFT study

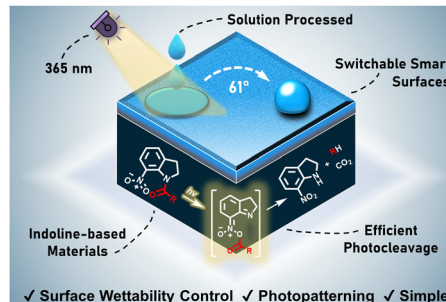
Xiaopeng Shen,* Chao Liu and Qinfang Zhang*



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Simple photocleavable indoline-based materials for surface wettability patterning

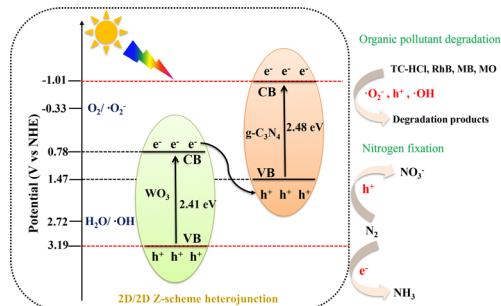
Alex S. Loch, Douglas Cameron, Robert W. Martin,
Peter J. Skabara and Dave J. Adams*



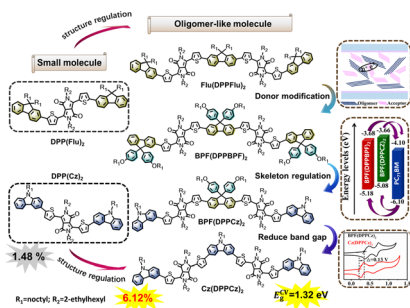
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2D/2D Z-scheme WO₃/g-C₃N₄ heterojunctions for photocatalytic organic pollutant degradation and nitrogen fixation

Yasi Li and Junkai Wang*



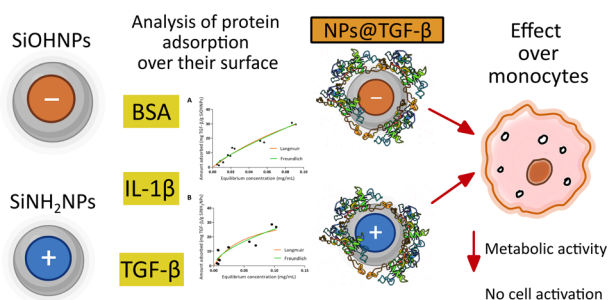
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DPP-bridged narrow band gap oligomer-like donor materials: significant effect of molecular structure regulation on photovoltaic performance

Chang Liu, Lunxiang Yin,* Yanli Guo, Bao Xie, Xu Wang and Yanqin Li*

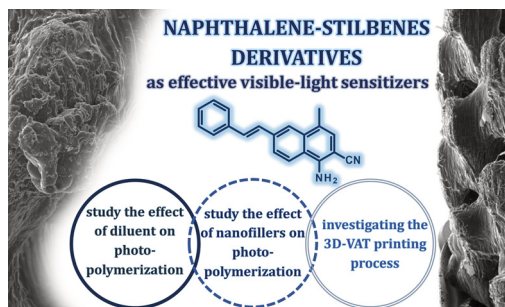
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Adsorption of immunomodulatory proteins over silica nanoparticles and the *in vitro* effect

Exequiel David Giorgi, Sofía Genovés, María Eugenia Díaz, Sofía Municoy, Martín Federico Desimone* and Mauricio César De Marzi*

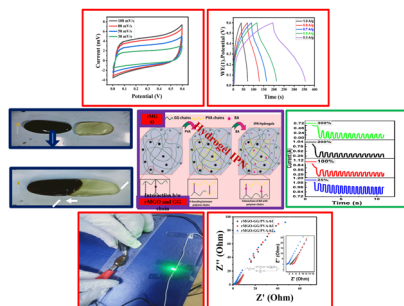
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Naphthalene–stilbenes as effective visible-light sensitizers to study the effect of diluent and nanofillers on *in situ* photopolymerization and 3D-VAT printing process

Wiktoria Tomal, Karolina Gatuszka, Petr Lepcio, Maciej Pilch, Anna Chachaj-Brekiesz, Martina Korčušková and Joanna Ortyl*

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Multifunctional and self-healable conductive IPN hydrogels functionalized with reduced magnetite graphene oxide for an advanced flexible all in one solid-state supercapacitor

Tanzil ur Rehman, Luqman Ali Shah* and Mansoor Khan



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Topological data analysis enhanced prediction of hydrogen storage in metal–organic frameworks (MOFs)

Shivanshu Shekhar and Chandra Chowdhury*

