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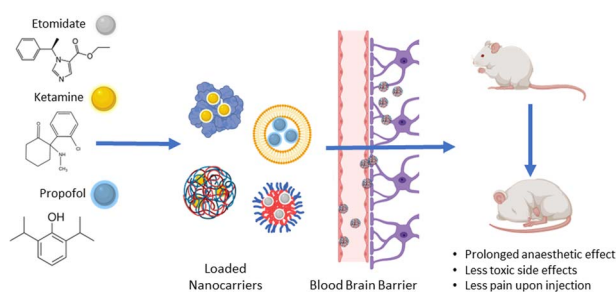


## REVIEWS

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## Nanoencapsulation of general anaesthetics

Basma M. T. Abdoullateef, Saif El-Din Al-Mofty and Hassan M. E. Azzazy\*

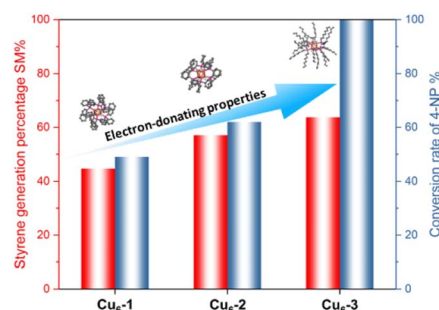


## COMMUNICATION

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## The structure–activity relationship of copper hydride nanoclusters in hydrogenation and reduction reactions

Xi Zheng, Ye Liu, Wanli Ma, Yan Su and Yu Wang\*

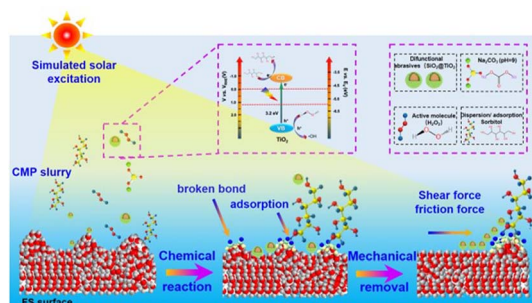


## PAPERS

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Atomic surface of quartz glass induced by photocatalytic green chemical mechanical polishing using the developed SiO<sub>2</sub>@TiO<sub>2</sub> core–shell slurry

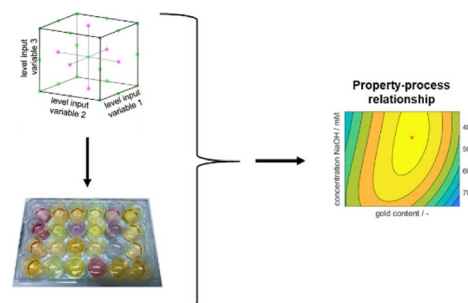
Yuanhang Fan, Zhenyu Zhang,\* Jiaxin Yu,\* Xingqiao Deng,\* Chunjing Shi, Hongxiu Zhou, Fanning Meng and Junyuan Feng



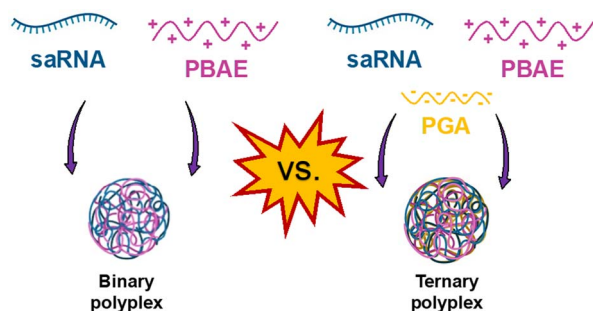
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## Targeted color design of silver–gold alloy nanoparticles

N. E. Traoré, C. Spruck, A. Uihlein, L. Pflug and W. Peukert\*



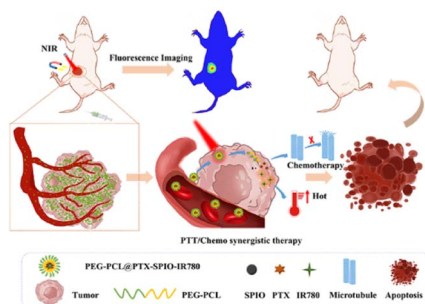
1409



### Charge neutralized poly( $\beta$ -amino ester) polyplex nanoparticles for delivery of self-amplifying RNA

Nazgol Karimi Dastgerdi, Nurcan Gumus, Hulya Bayraktutan, Darryl Jackson, Krunal Polra, Paul F. McKay, Fatemeh Atyabi, Rassoul Dinarvand,\* Robin J. Shattock, Luisa Martinez-Pomares, Pratik Gurnani\* and Cameron Alexander\*

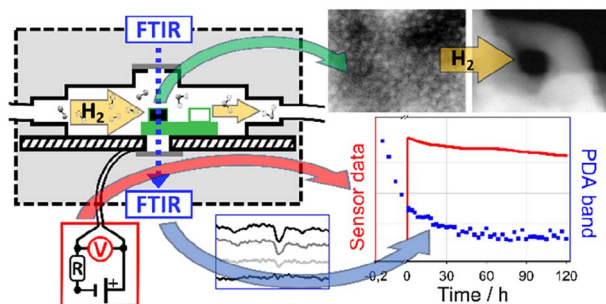
1423



### An "all-in-one" treatment and imaging nanoplatform for breast cancer with photothermal nanoparticles

Yuping Fu, Hongmei Zhang, Jiahui Ye, Changrong Chen, Yaxuan Yang, Baojuan Wu, Xi Yin, Jiajun Shi, Yun Zhu, Cheng Zhao\* and Weijie Zhang\*

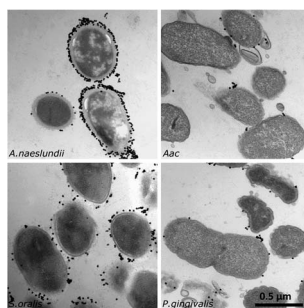
1436



### In-operando FTIR study of ligand-linked Pt nanoparticle networks employed as catalysts in hydrogen gas micro sensors

Daniel Loof, Oliver Thüringer, Volkmar Zielasek,\* Anmona Shabnam Pranti, Walter Lang and Marcus Bäumer

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### Colorimetric detection of oral bacteria using functionalized gold nanoparticles as a plasmonic biosensor array

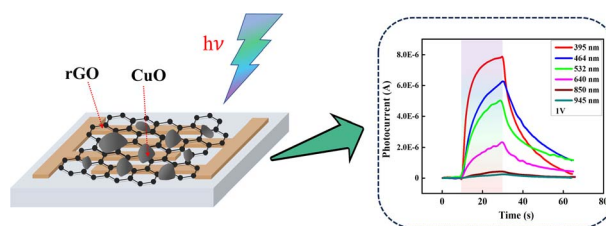
Christina Wenck, Dorthe Leopoldt, Mosaieb Habib, Jan Hegemann, Meike Stiesch, Katharina Doll-Nikutta, Alexander Heisterkamp and Maria Leilani Torres-Mapa\*



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### A study on a broadband photodetector based on hybrid 2D copper oxide/reduced graphene oxide

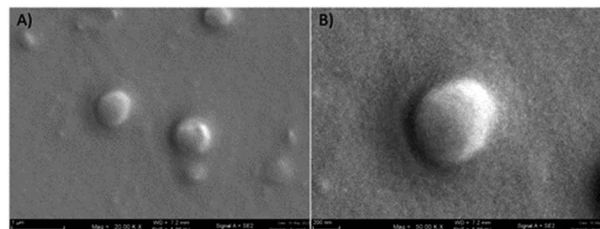
Duc Anh Ngo, Nhat Minh Nguyen, Cong Khanh Tran, Thi Thanh Van Tran, Nhu Hoa Thi Tran, Thi Thu Thao Bui, Le Thai Duy and Vinh Quang Dang\*



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### Preparation and evaluation of a niosomal delivery system containing *G. mangostana* extract and study of its anti-*Acanthamoeba* activity

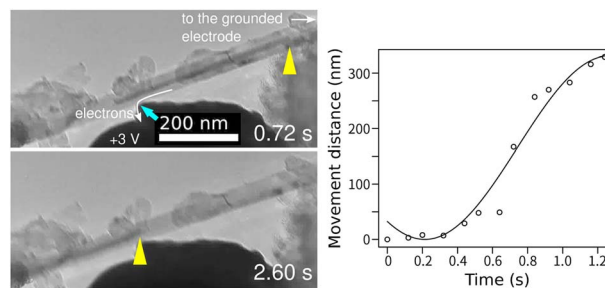
Suthinee Sangkana, Komgrit Eawsakul, Tassanee Ongtanasup, Rachasak Boonhok, Watcharapong Mitsuwan, Siriphorn Chimplee, Alok K. Paul, Shanmuga Sundar Saravanabhavan, Tooba Mahboob, Muhammad Nawaz, Maria L. Pereira, Polrat Wilairatana, Christophe Wiart and Veeranoot Nissapatorn\*



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### Kinematics of electromigration-driven sliding of Co nanorod fillers inside multi-walled carbon nanotubes

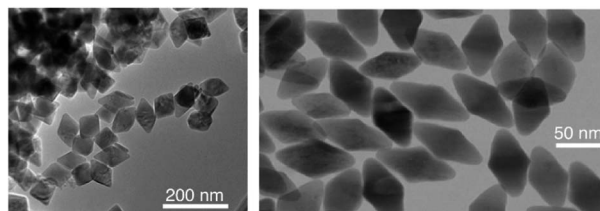
Kensuke Adachi, Shogo Matsuyama, Yuki Sakai and Hideo Kohno\*



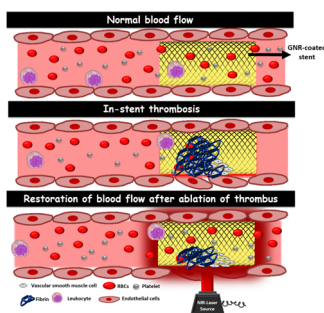
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### Thermal properties of nanofluids using hydrophilic and hydrophobic LiYF<sub>4</sub>:Yb/Er upconverting nanoparticles

João M. Gonçalves, Ana R. N. Bastos, Sidney J. L. Ribeiro, L. D. Carlos, Ricardo L. Longo,\* José Mauricio A. Caiut\* and Rute A. S. Ferreira\*



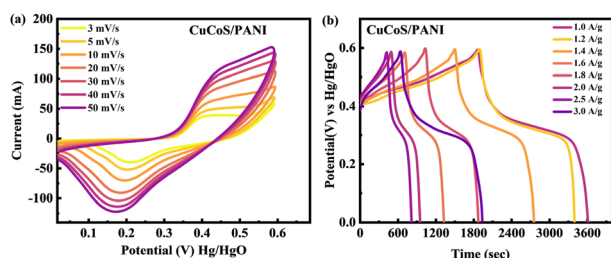
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### Nanogold-coated stent facilitated non-invasive photothermal ablation of stent thrombosis and restoration of blood flow

Nitesh Singh, Pares P. Kulkarni, Prashant Tripathi, Vikas Agarwal and Debabrata Dash\*

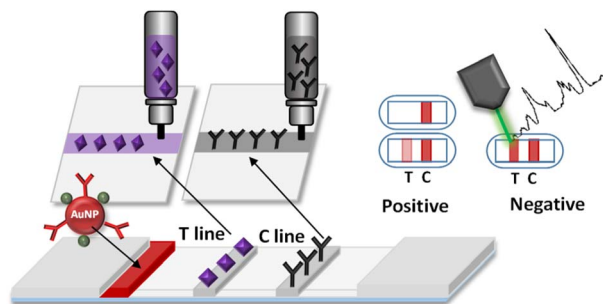
1507



### Synergistic CuCoS–PANI materials for binder-free electrodes in asymmetric supercapacitors and oxygen evolution

Haseebul Hassan, Muhammad Waqas Iqbal,\* Hussein Alrobei, Fareeha Riasat, Amir Muhammad Afzal, Ahmad M. Saedi, Hasan B. Albargi and Arslan Rehmat

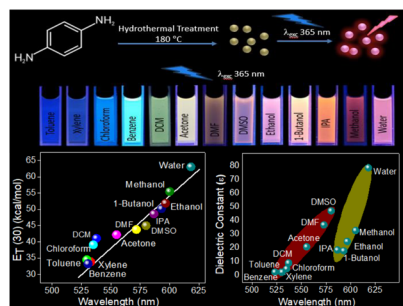
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### Pen direct writing of SERRS-based lateral flow assays for detection of penicillin G in milk

Alida Russo, Simone Cavallera, Richard Murray, Pierre Lovera, Aidan Quinn, Laura Anfossi and Daniela Iacopino\*

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### *p*-Phenylenediamine-derived carbon nanodots for probing solvent interactions

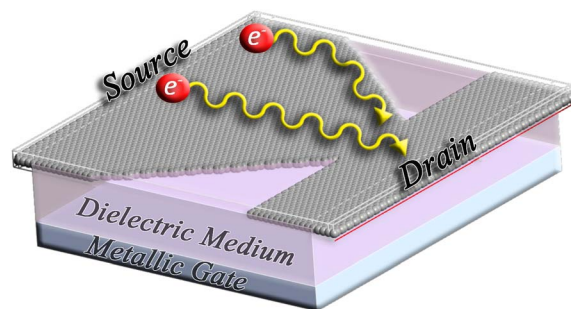
Nidhisha V., Ritu Gopal, Anjali C., Amrutha T. P., Arunima K. K., Vakayil K. Praveen and Renuka Neeroli Kizhakayil\*



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### Towards graphene-based asymmetric diodes: a density functional tight-binding study

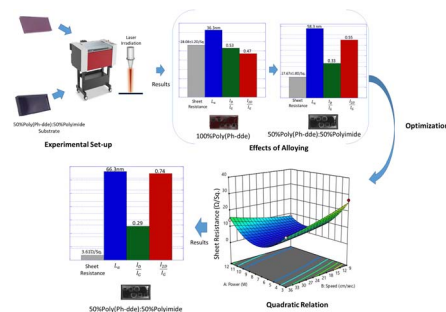
Elaheh Mohebbi, Eleonora Pavoni, Luca Pierantoni, Pierluigi Stipa, Andreas Hemmetter, Emiliano Laudadio\* and Davide Mencarelli



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### Improvements in properties of polybenzoxazine-based laser-induced graphene (LIG) by alloying with polyimide and modeling of production process

Ibrahim Lawan, Panuwat Luengrojankul, Krittapas Charoensuk, Hariharan Argunam, Cheol-Hee Ahn and Sarawut Rimdusit\*



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### Enhancing the electronic and optical properties of the metal/semiconductor NbS<sub>2</sub>/BSe nanoheterostructure towards advanced electronics

S. T. Nguyen, T. T. T. Huong, N. X. Ca\* and C. Q. Nguyen\*

