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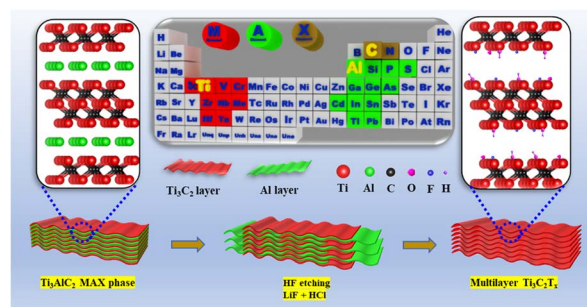
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MINIREVIEW

1162

Recent advances in $Ti_3C_2T_x$ -based electrolytes for battery applications

Ngan Pham Tran Trieu, Vo Thi Thuy Linh, Nguyen Ngoc Tri, Van Nam Huynh, Nguyen Tien Hoang, Qui Thanh Hoai Ta* and Soonmin Seo*

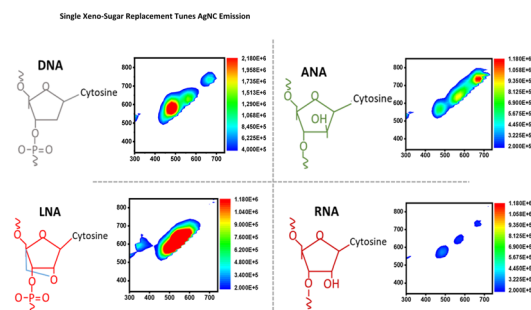


COMMUNICATION

1191

Effect of single xeno-nucleic acid replacement on the fluorescence of DNA-encapsulated silver nanoclusters

Hari Chandana Yadavalli, Riddhi Nagda, Jooyoun Kang, Minhaeng Cho, Chenguang Lou, Seong Wook Yang,* Peter Waaben Thulstrup,* Morten Jannik Bjerrum* and Pratik Shah*

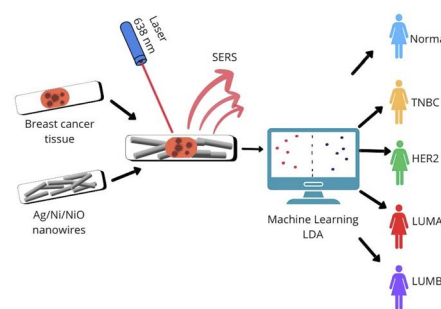


PAPERS

1197

High reliability Ag/Ni/NiO nanowire-based SERS for cancer detection: a study on breast cancer

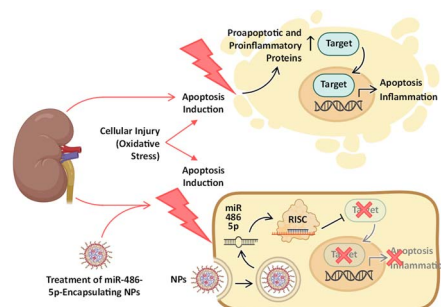
Alondra Hernandez Cedillo,* Javier Mendez-Lozoya, Coral Hernandez Cedillo, Alfred L. M. Bothwell and Miguel Jose Yacamán



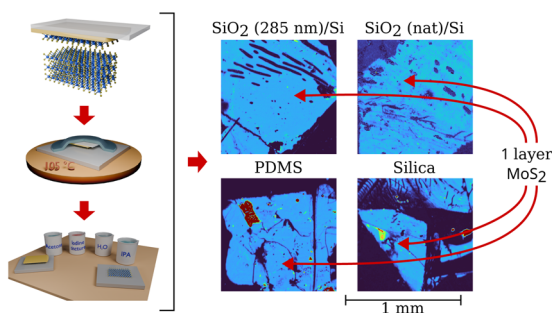
1213

Nanoparticle-delivered miR-486-5p inhibits H_2O_2 -induced injury in cultured endothelial and kidney tubular epithelial cells

Ali O. Maadelat, Savindi Wehella, Adrianna Douvris, Shireesha Manturthi, Kevin D. Burns* and Suresh Gadde*



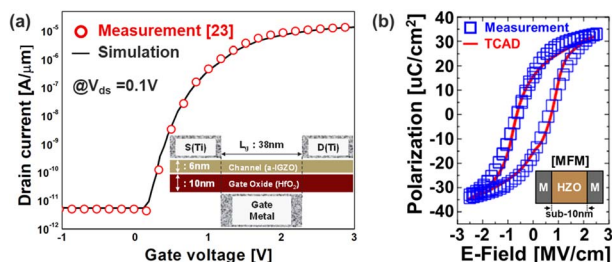
1228



Exfoliation and transfer of millimetre-sized MoS₂ flakes on arbitrary substrates

Riccardo Galafassi,^{*} Ermes Peci, Valentina Venturino, Michele Magnozzi, Francesca Telesio, Maurizio Canepa and Francesco Bisio

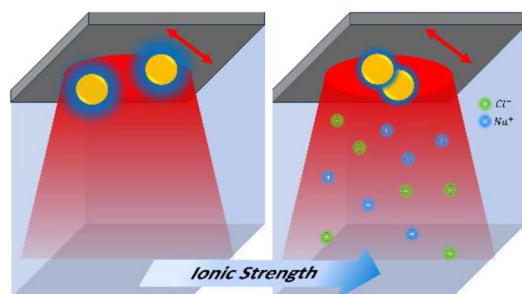
1240



Enabling scalable ferroelectric-based future generation vertical NAND flash with bonding-friendly architecture: strategies for erase and disturb optimization

Ickhyun Song, Juhyun Kim, Seungmin Lee and Ilho Myeong^{*}

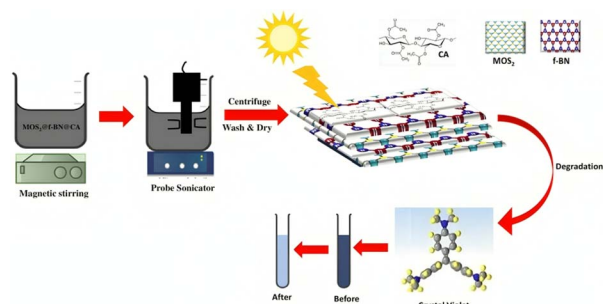
1251



Tunable optical matter: electrostatic repulsion modulates near- and far-field gold nanoparticle arrangements

Jim Jui-Kai Chen, Jorge Olmos-Trigo, Boris Louis, Chih-Hao Huang, Susana Rocha, Hiroshi Masuhara, Johan Hofkens, Rafael Delgado-Buscalioni, Roger Bresolí-Obach,^{*} Manuel I. Marqués^{*} and Marc Mélendez^{*}

1260



A durable MoS₂-BN/cellulose acetate photocatalyst for sustainable removal of organic pollutants via heterogeneous multilayer adsorption

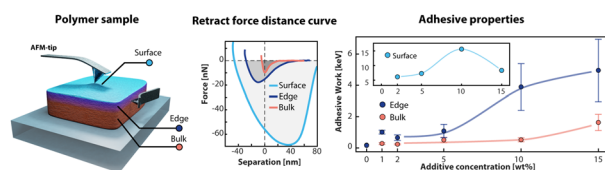
S. M. Neeraja, B. Bindhu,^{*} Jebiti Haribabu, R. Ramesh,^{*} Abdullah Al Souwaileh, Perumal Naveenkumar, Arunachalam Arulraj, Daniel Moraga and Adhigan Murali



1273

Tailoring the adhesion properties of thin polymeric films using additives: an AFM study

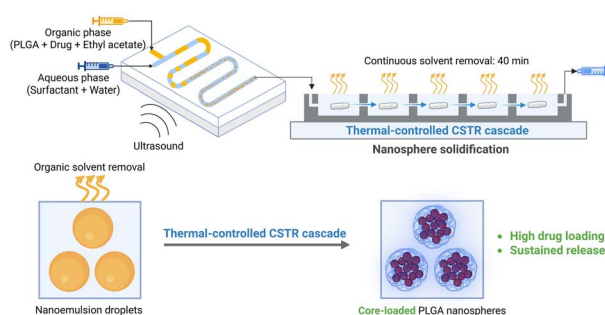
Sebastian Haartsen,* Inga Wille, Harald Jasper, Harold J. W. Zandvliet, Johannes Aprojanz and Pantelis Bampoulis*



1281

Synthesizing porous nanospheres with highly efficient drug loading and sustained release through a thermal-controlled continuous stirred-tank reactor cascade

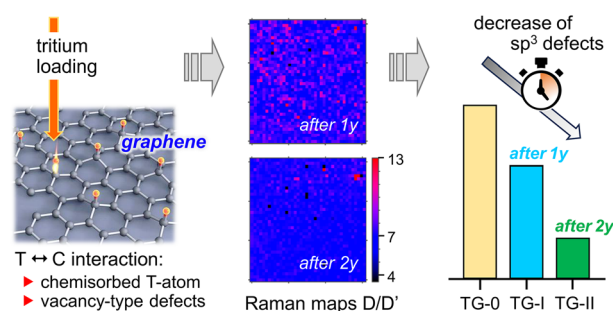
Huiyu Chen, Aniket Pradip Udepurkar, Christian Clasen, Victor Sebastián Cabeza and Simon Kuhn*



1291

Following the long-term evolution of sp^3 -type defects in tritiated graphene using Raman spectroscopy

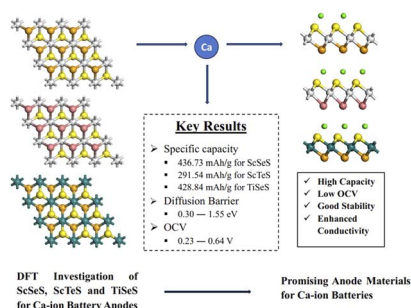
G. Zeller,* M. Schlösser and H. H. Telle



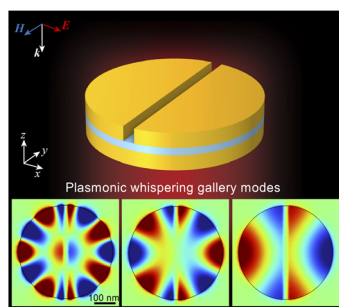
1301

Unveiling the anodic potential of Janus MNS ($M = \text{Sc}, \text{Ti}$; $N = \text{Se}, \text{Te}$) monolayers for calcium-ion batteries: insights from DFT and AIMD studies

Sharah Sami Rifah, Bivas Kumar Dash, Afiya Akter Piya and Siraj Ud Daula Shamim*



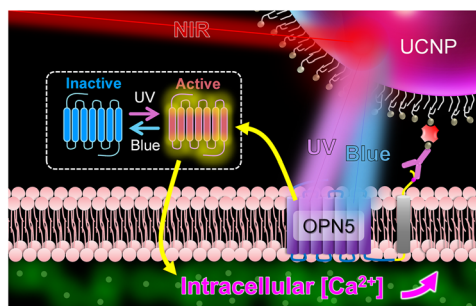
1314



Nanometer-scale confinement of whispering gallery plasmonic modes upon slit excitation

Henrik Parsamyan,^{*} Roza Gabrielyan, Gurgen Arabajyan, Hovhannes Haroyan and Khachatur Nerkararyan

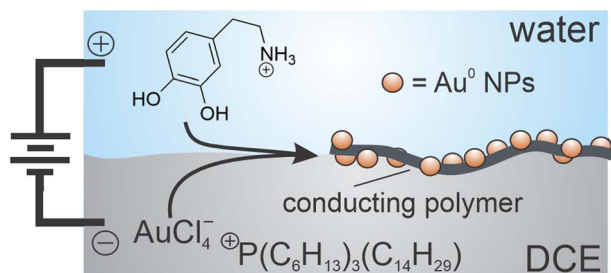
1322



Demonstration of the photo-controllability of the bistable opsin OPN5 using upconversion nanoparticles with multiple emission peaks upon near-infrared photoexcitation

Fukue Kotegawa, Mari Takahashi, Koichi Higashimine, Yuichi Hiratsuka, Kazuaki Matsumura, Daisuke Kojima and Shinya Maenosono^{*}

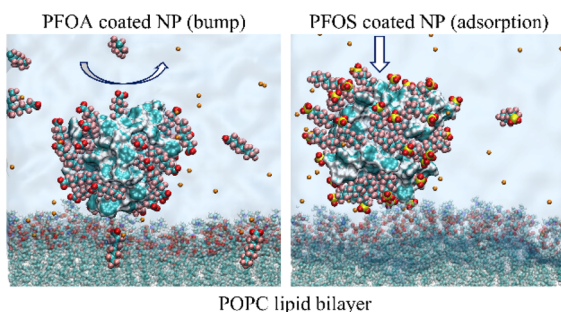
1331



Electropolymerization of Au nanoparticle incorporated poly(dopamine) thin-films at a micro liquid|liquid interface

Leila Nazari, Fanqi Kong, E. Bradley Easton and Talia Jane Stockmann^{*}

1346



Polystyrene nanoplastics as PFAS carriers and their interactions with zwitterionic phospholipid membranes

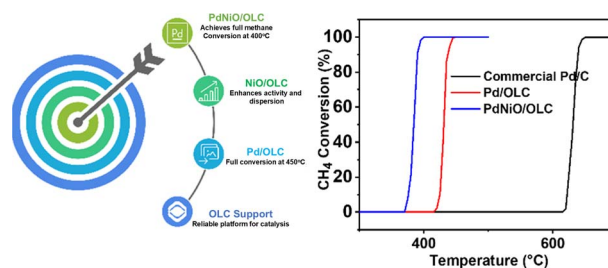
Jiahuiyu Fang, Tongxuan Qiao, Pranab Sarker, Xiaoxue Qin, Size Zheng, Mark J. Uline^{*} and Tao Wei^{*}



1358

Onion-like carbon unlocks high PdNiO nanocatalyst dispersion for outstanding thermal methane oxidation

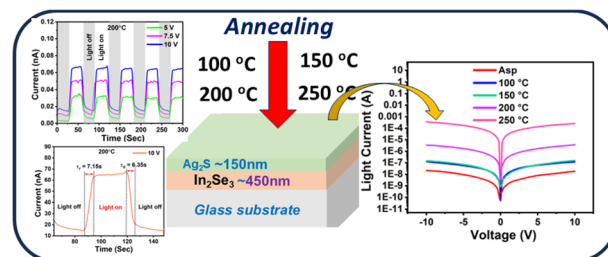
Ahmed Gamal, Adewale K. Ipadeola,^{*} Mostafa H. Sliem, Siham Y. A. Al-Qaradawi, Aboubakr M. Abdullah^{*} and Kenneth I. Ozoemena^{*}



1366

Diffusion-induced enhanced photoresponsivity and detectivity in an Ag₂S/In₂Se₃ heterostructure for a UV-visible photodetector: an experimental and computational analysis

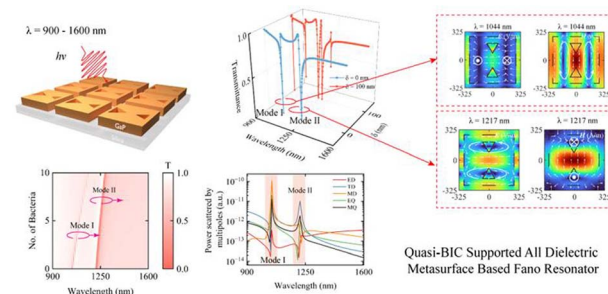
Prabhukrupa Chinmay Kumar, Subhashree Mohanty, Swikruti Supriya, Rojalini Swain, Jagadish Kumar and Ramakanta Naik^{*}



1386

Multipolar origin and polarization-controlled high-Q quasi-BIC Fano resonances in dielectric metasurfaces for sensing applications

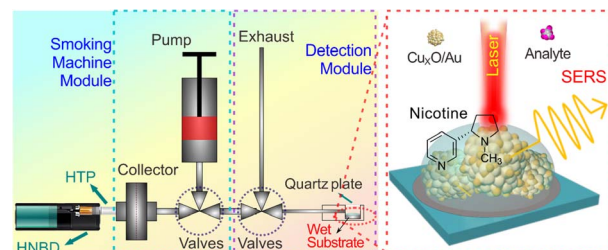
Soikot Sarkar and Ahmed Zubair^{*}



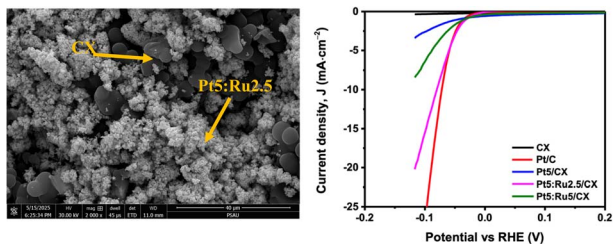
1400

Cu_xO/Au chimeric micro-nanoparticles for sensitive SERS monitoring of cigarette smoke *via* synergistic enhancement

Yongfeng Tian, Wang Huo, Jing Xie, Shanzhai Shang, Xia Zhang, Donglai Zhu, Gaofeng Dong, Mingquan Yang,^{*} Xingjiu Huang and Xianghu Tang^{*}



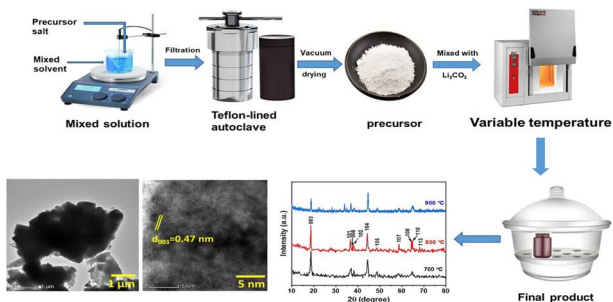
1409



Synergistic enhancement of the hydrogen evolution reaction by bimetallic Pt–Ru nanoparticles supported on a carbon xerogel

Abdalla Abdelwahab, Jamal R. Humaidi, Fahad Abdulaziz, Abdulaziz Alanazi, Khalaf M. Alenezi and Ahmed A. Farghali*

1423



Tailoring the structural and morphological properties of LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂ cathode materials via a novel mixed-solvothermal method

Md. Sohel Rana, Abdur Rahim, Rakibul Hasan, M. Shahinuzzaman, Aninda Nafis Ahmed, Md. Saiful Quddus, Chanchal Kumar Roy, Mosharof Hossain and Mohammad Shah Jamal*

