

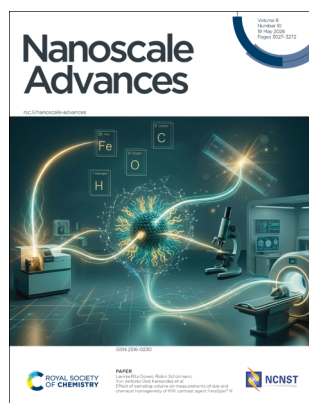
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Cover

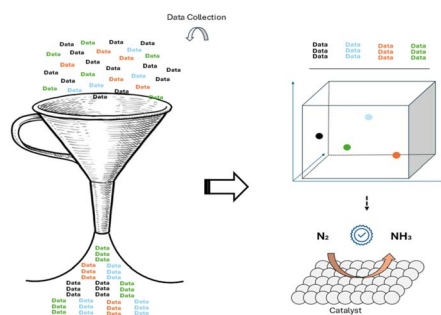
See Lavinia Rita Doveri, Robin Schürmann, Yuri Antonio Diaz Fernandez *et al.*, pp. 3136–3150. Image reproduced by permission of Yuri Antonio Diaz Fernandez from *Nanoscale Adv.*, 2026, 8, 3136. Image created with Google Gemini.

REVIEWS

3035

Catalyst screening for electrochemical ammonia synthesis: a critical review

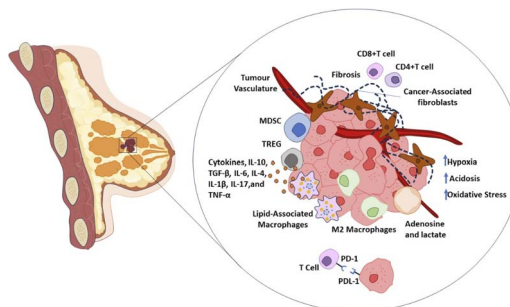
Dominik G. Jammal,* Ricardo Bernardino, Nuno Canha, Cristina M. Cordas and Rui P. L. Ribeiro



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Nanotechnology in triple-negative breast cancer: a review of nanocarrier systems for enhanced efficacy and reduced toxicity

Qazi Saifullah, Sajid Mondal, Amartya Nandi, Yeduvaka Madhuri, Suvadra Das and Partha Roy*



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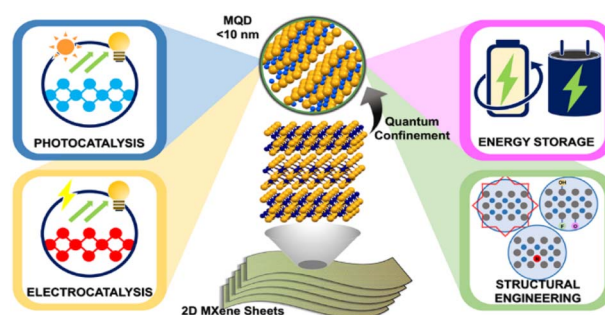
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MINIREVIEW

3102

MXene quantum dots in catalysis and energy conversion: structure–activity insights and emerging prospects

Ruchi Agarwalla, Rohan Bezboruah and Lakshi Saikia*

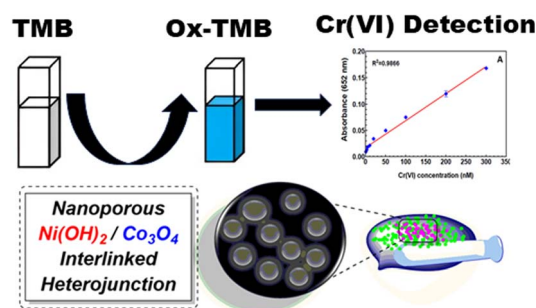


COMMUNICATIONS

3120

A nanoporous $\text{Ni}(\text{OH})_2$ interlinked Co_3O_4 heterojunction: a novel approach to chromium(VI) detection

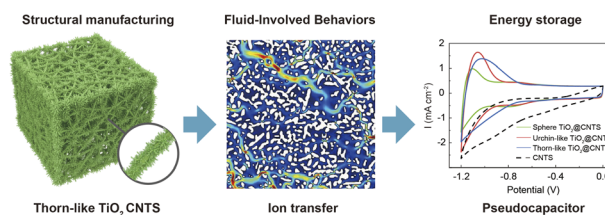
Gitashree Darabdhara, Manash J. Baruah, Eramoni Saikia, Shivaneer Borpatra Gohain, Rajarshi Bayan, Rahul Kemprai, Dipankoj Gogoi, Young-Bin Park, Biraj Das* and Mukesh Sharma*



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Structure-mediated fluid-involved behaviors promote the performance of a carbon-based supercapacitor

Heping Cao, Chengqing Tang, Jiashuo Duan, Zhaohui Yang* and Yitan Li*

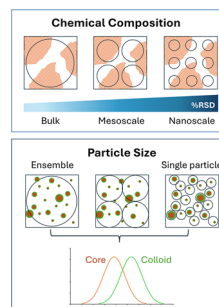


PAPERS

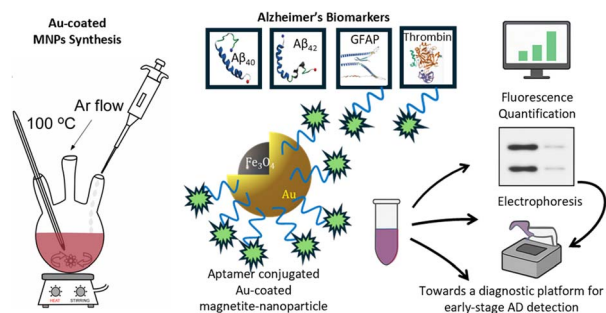
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Effect of sampling volume on measurements of size and chemical homogeneity of MRI contrast agent FeraSpin™ R

V. Maceratesi, L. R. Doveri,* N. Engel, E. Cantoni, P. Pallavicini, C. Milanese, F. Sack, N. Gehrke, A. Briel, N. Lambeng, S. Douri, C. Chivas-Joly, E. Alasonati, V. de Carsalade du pont, D. Sapalidis, M. Gerina, B. F. B. Silva, O. Tache, W. A. Lee, D. J. H. Cant, C. Minelli, C. Gollwitzer, R. Schürmann* and Y. A. Diaz Fernandez*



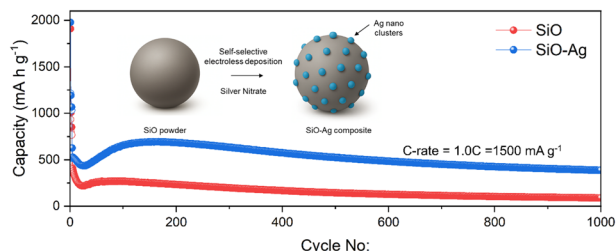
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Biomarker-targeted functionalized magnetic nanoparticles: synthesis and aptamer conjugation optimization toward Alzheimer's disease biosensing

Antonios Makridis,^{*} Konstantina Kazeli, Georgios Katsipis, Eleni E. Tzekaki, Anastasia A. Pantazaki, Cristian Bosch, Ricardo Simon-Carbajo and Makis Angelakeris

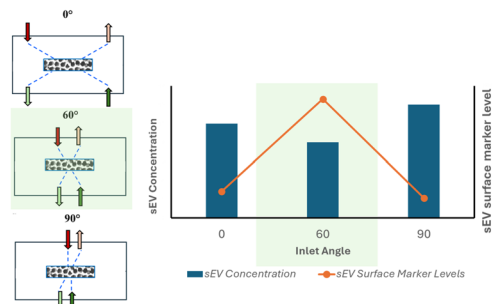
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Self-selective silver modification of SiO anodes: a conductivity-boosting strategy for high-performance lithium-ion batteries

Asif Raza, Panjin Noh, Jaehyuk Yang, Yoon-Cheol Ha, Mukarram Ali, Jae-Yeon Bang, Minjoon Park,^{*} Hae-Young Choi^{*} and Sang-Min Lee^{*}

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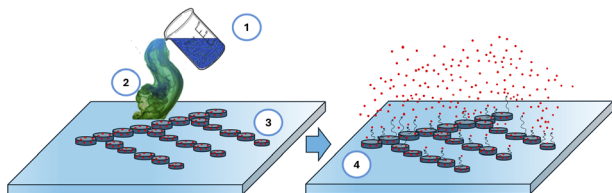


Flow orientation as a critical parameter in nanoscale membrane filtration for optimising small extracellular vesicle isolation

Sadeka Nujhat, Hannah S. Leese,^{*} Madeleine A. Strickland, Mirella Di Lorenzo and Sandhya Moise^{*}

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- 1) Liquid solution embedding polymer and model dye for controlled release studies;
- 2) Easy deposition of the mixture on a substrate;
- 3) Fast and direct formation of polymeric nanostructures embedding the model dye, via the ASB-SANS process;
- 4) Controlled release of the model dye from the nanostructured polymer in the selected liquid medium.



Fast and cost-effective fabrication of biocompatible polymer nanostructures via sublimation-assisted method for drug delivery applications

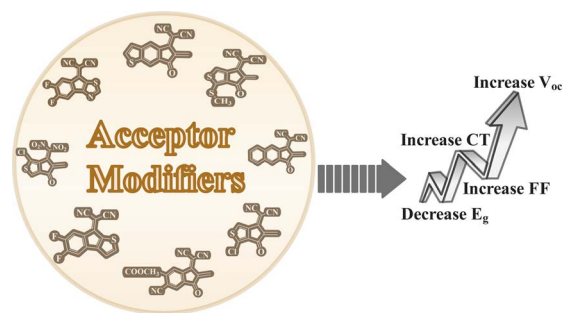
Gabriella Siani, Fabrizio Masciulli, Erik Betz-Güttner, Samanta Moffa, Serena Pilato and Alessandro Fraleoni-Morgera^{*}



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Terminal acceptor engineering for reduced energy dissipation and enhanced charge transport in benzodithiophene-core based donor molecules: a computational route to efficient organic solar cells

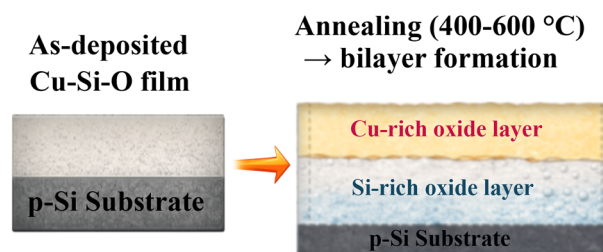
Sabiha Khanam, Zahraa Falah Khudair, Ines Hilali Jaghdam, Rana Farhat Mehmood, Muhammad Imran, Mohamed S. Soliman, Ahmed M. Shawky, Rabaa Bousbih, Syed Muhammad Kazim Abbas Naqvi* and Rasheed Ahmad Khera*



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Middle-temperature thermally stimulated transformations of Cu–Si–O films

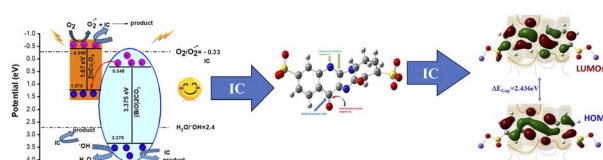
Oleh Bratus,* Antonina Kykot, Mykola Sopinsky, Pavels Onufrijevs, Oleksandr Gudymenko, Larysa Khomenkova, Volodymyr Yuhymchuk, Tomash Sabov, Oleksandr Oberemok, Anton Semeniuk, Dmytro Kysil and Anatolij Evtukh



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Photodegradation of indigo carmine over a (BiO)₂CO₃@ZnCo₂O₄ heterojunction: experimental and DFT insights

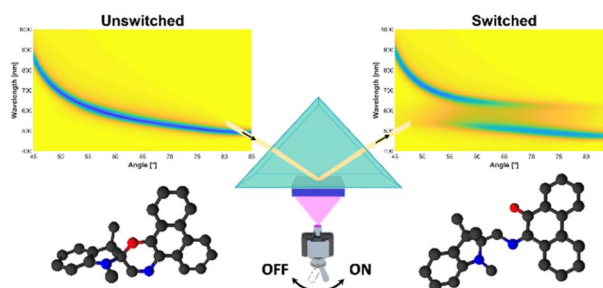
Nguyen Thi Mai Tho,* Nguyen Quoc Thang, Minh An Tran Nguyen, Nguyen Thi Hong Anh and Nguyen Le Kim Phung



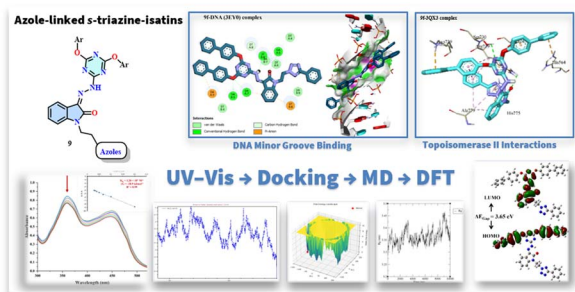
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Hybrid polaritonic switch with light-controlled Rabi splitting in molecular plasmonic system

Bill Brook Shurtleff, Ron-Marco Friedrich, Thomas Strunskus, Mady Elbahri* and Franz Faupel*



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Synthesis of azole-linked *s*-triazine-isatin molecular architectures as nanoscale DNA-targeting agents: a combined spectroscopic and computational study

Alia Mushtaq, Bibi Nazia and Muhammad Moazzam Naseer*

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Correction: Continuous manufacturing of highly stable lead halide perovskite nanocrystals via a dual-reactor strategy

Shuang Liang, Gill M. Biesold, Mingyue Zhang, Zhitao Kang,* Brent Wagner and Zhiqun Lin*

