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IN THIS ISSUE

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Cover
See Supriya E. More, Vikas L. Mathe *et al.*, pp. 198–213.
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Inside cover
See Yuming Zhao *et al.*, pp. 214–227.
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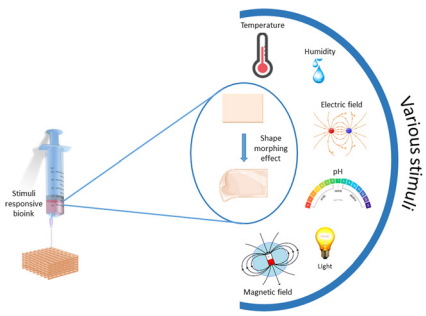
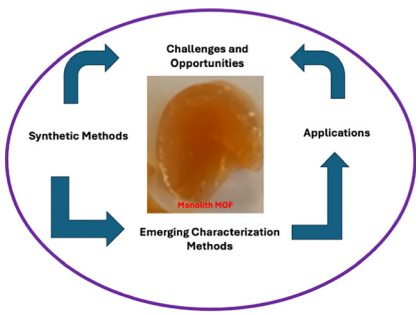
REVIEWS





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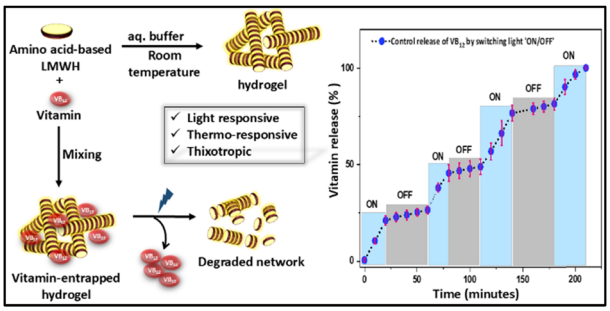
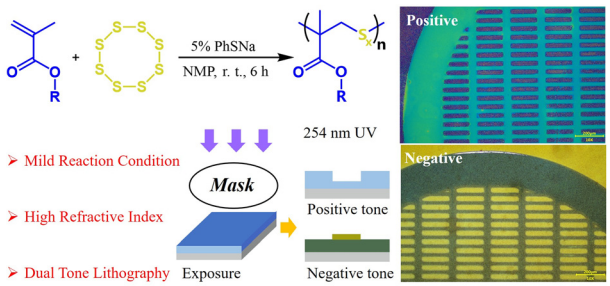
175



A light responsive single amino acid-based supramolecular hydrogel for photo-controlled vitamin release

Divya Chauhan and Chandan Maity*

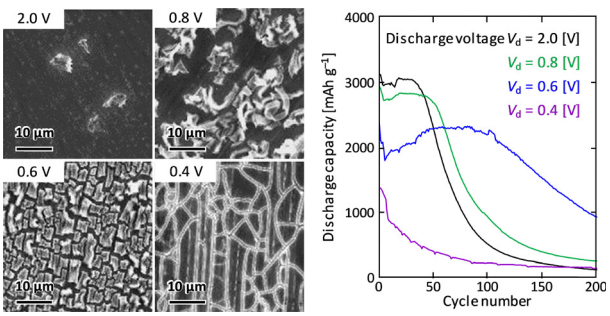
187



Sulfur-rich polymer with nanoparticles: high refractive index dual-tone photoresist

Xiaofei Qian* and Tao Liu

192

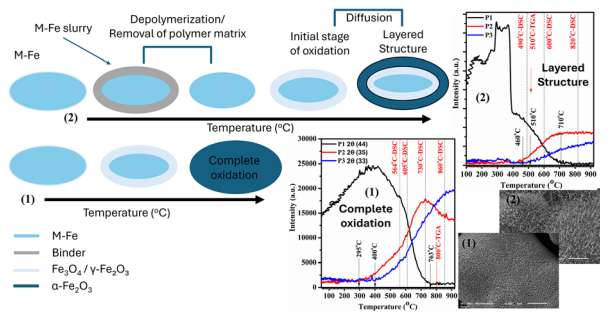


Mitigation of mechanical degradation in silicon thin-film anodes *via* delithiation cut-off voltage control

Y. Eto, K. Nozawa,* T. Suemasu and K. Toko*

PAPERS

198



Oxidation behavior of iron and binder-mixed iron: insights from TGA–DSC and *in situ* XRD analysis for field emission application

Supriya E. More,* Suyog A. Raut, S. Premkumar, Somnath R. Bhopale, Davy Deduytsche, Sudha V. Bhoraskar, Mahendra A. More, Damien Thiry, Christophe Detavernier, Nathalie De Geyter, Vikas L. Mathe* and Rino Morent

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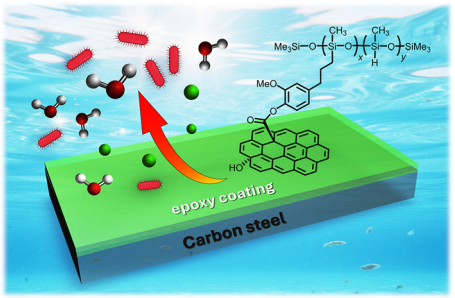
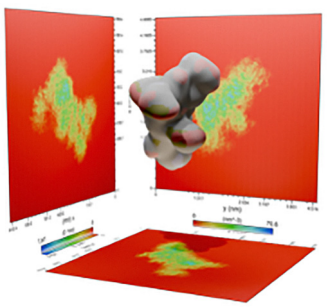
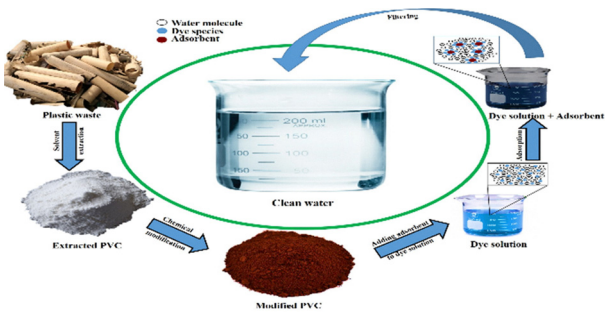
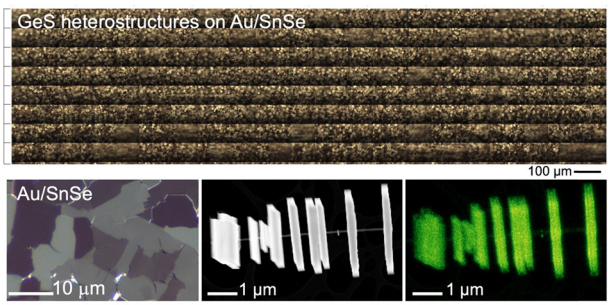


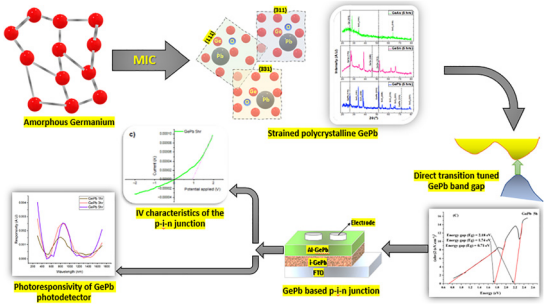






PAPERS

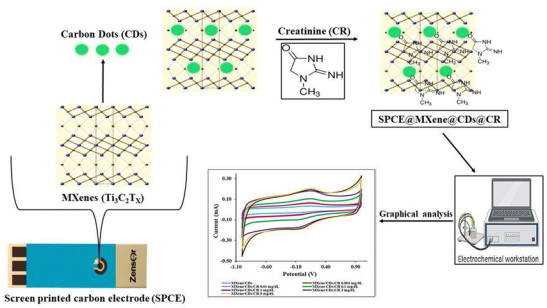
265



Thermal evaporation fabrication of UV-NIR p–i–n photodetectors based on highly tensile-strained Ge *via* incorporation of Pb rather than Sn and As

Mohamed A. Nawwar,* Abdelhamid El-Shaer, Mohamed Y. Saeed, Magdy S. Abo Ghazala, Ahmed Mourtada Elseman and Abd El-Hady B. Kashyout*

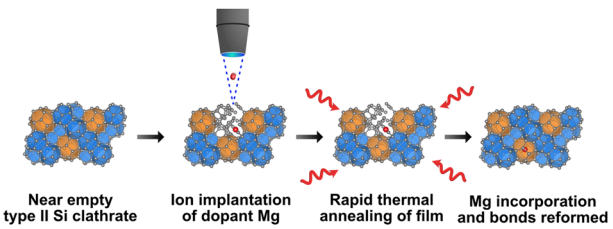
277



Electrochemical nanosensors using MXene-carbon dot modified screen-printed carbon electrodes for creatinine detection in serum samples

Poornima Bhatt, Monika Chhillar, Anup Singh, Deepak Kukkar,* Ashok Kumar, Ashok Kumar Yadav, Jaskiran Kaur and Manil Kukkar*

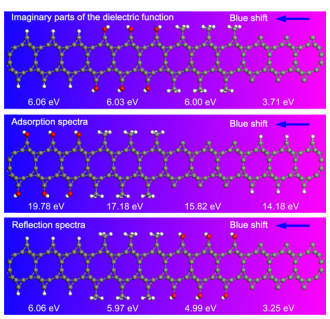
289



Ion implantation of magnesium guests into type II silicon clathrate films: an alternate approach to doping a cage-like silicon allotrope

Joseph P. Briggs, Sam Saiter, Michael Walker, Shei S. Su, Michael Titze, Yongqiang Wang, Yinan Liu, Reuben T. Collins, Meenakshi Singh and Carolyn A. Koh*

301



A planar T-carbon structure with tunable electric and optical properties *via* chemical decorations on the (111) plane: a first-principles investigation

Haifang Cai, Zhiwen Duan, Kun Cai,* Douglas S. Galvao* and Qinghua Qin*

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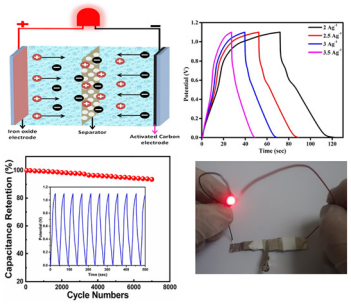
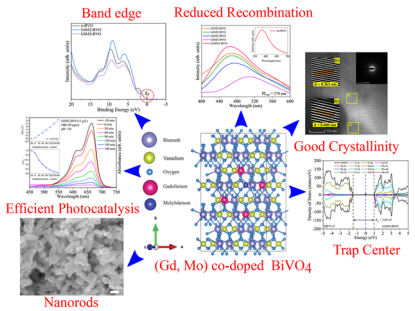
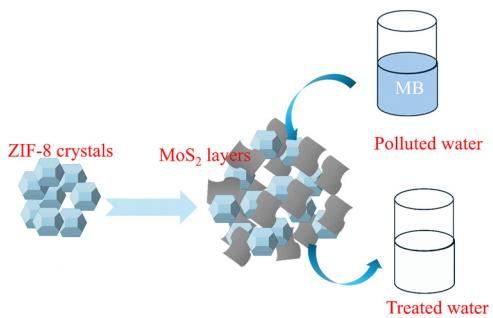
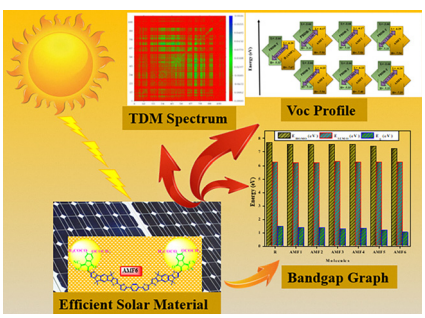


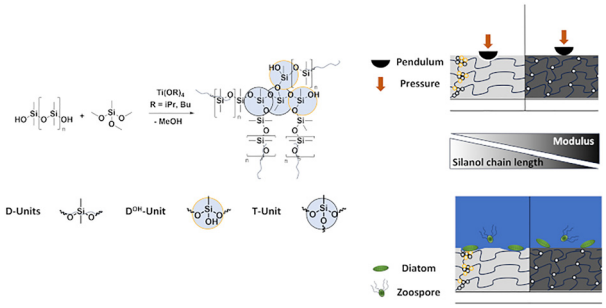






PAPERS

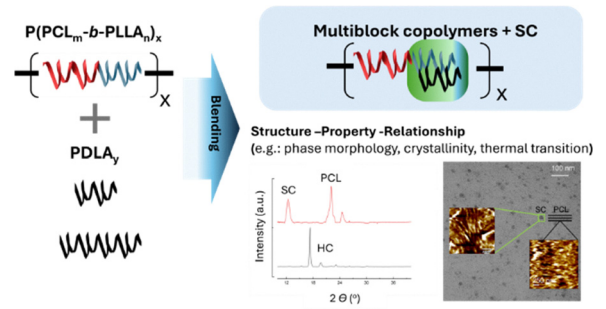
366



Reducing attachment of marine diatoms and bacteria by fine tuning the modulus of PDMS based coatings

Thorsten Marochow, Lejla Jusufagic, John A. Finlay, Peter Allen, Anthony S. Clare and Axel Rosenhahn*

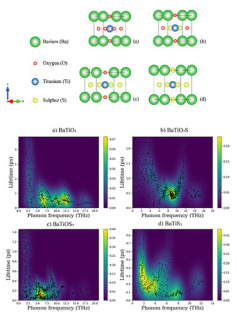
377



Correlative characterization of stereocomplex formation in blends of aliphatic polyester P(PCL$_m$-*b*-PLLA$_n$) multiblock-copolymers and PDLA

Armando Mandlule, Yue Liu, Susanne Schwanz, Yvonne Pieper, Heike Scharf, Kamila Iskhakova, Andre L. C. Conceição, D. C. Florian Wieland, Berit Zeller-Plumhoff, Francesca M. Toma and Axel T. Neffe*

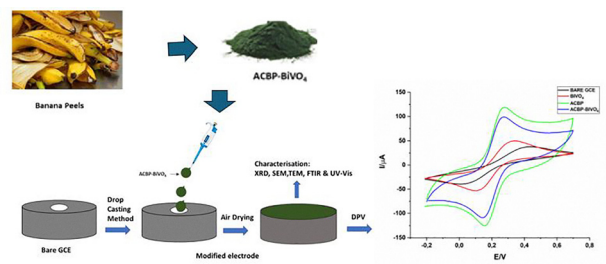
403



Tuning the opto-electronic properties of $BaTiO_3$ by S substitution towards energy harvesting applications: a DFT insight using the VASP code

U. Ahmed, M. M. Hossian, M. M. Uddin, N. Jahan and M. A. Ali*

425



Synergistic electrochemical detection of ciprofloxacin using bismuth vanadate nanocomposite-modified activated carbon derived from banana peel biomass

N. Mekgoe,* N. Mabuba, D. Nkosi and K. Pillay

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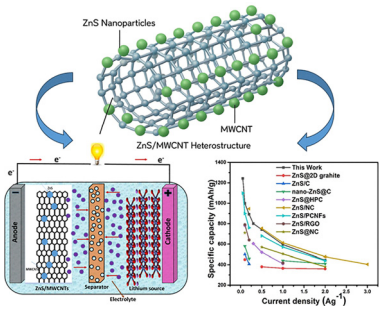

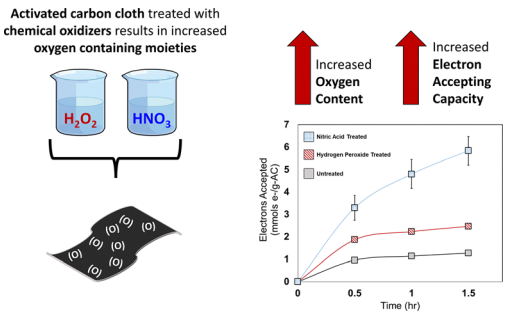

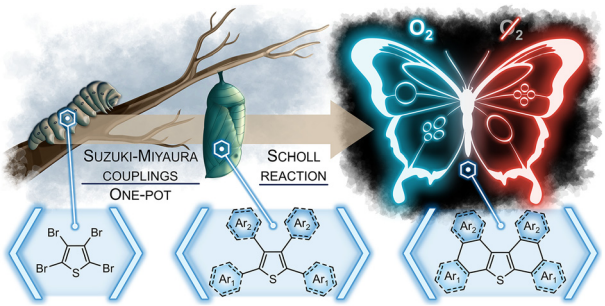

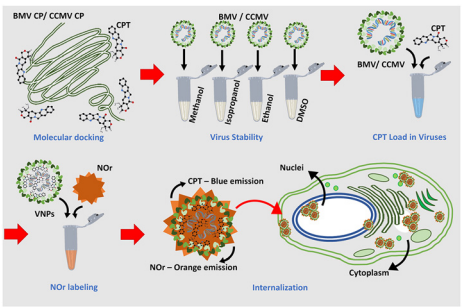

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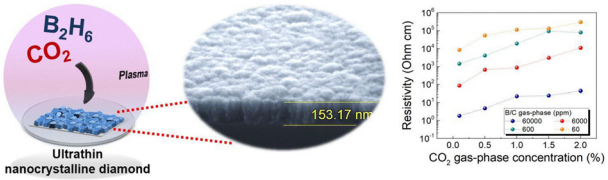

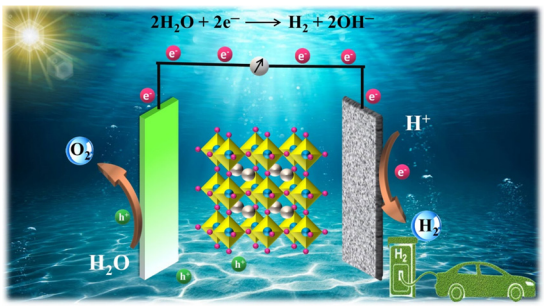

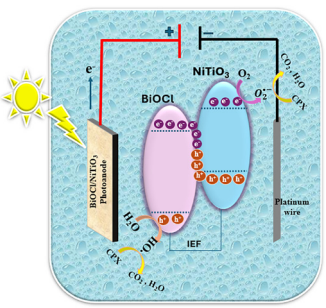

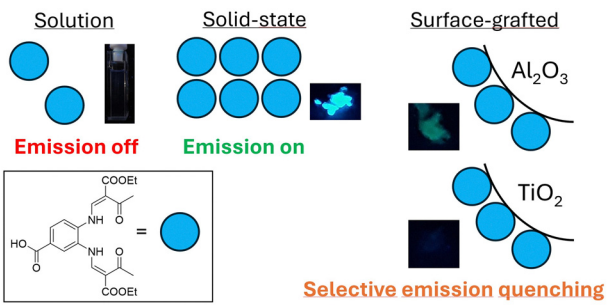

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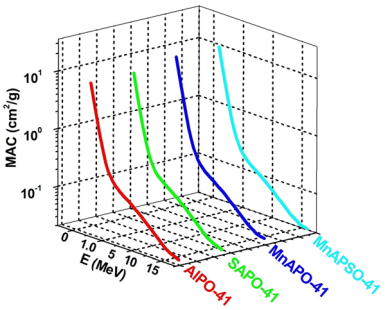

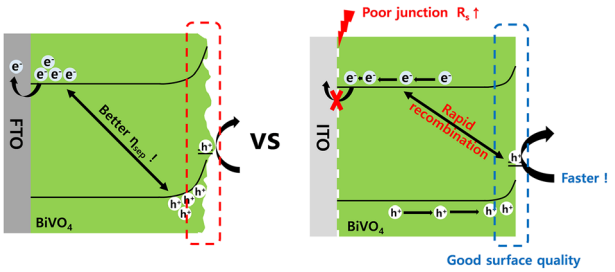

CORRECTIONS

CORRECTIONS

663

Correction: Efficient photo-oxidation of bisphenol a and tetracycline through sulfur-doped g-C_3N_4/CD heterojunctions

Ankoor Sura, Amanvir Singh, Arjun Singh, Sudha Narwal, Priya Malik, Manjeet Singh Goyat, Yogendra K. Mishra, Sonia Nain* and Surender Duhan*