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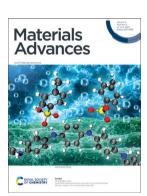
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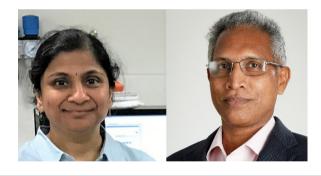


Inside cover See Merit Bodner et al., pp. 2573-2585. Image reproduced by permission of Mario Maglie and Florian Tritscher from Mater. Adv.. 2023, 4, 2573.

EDITORIAL

Introduction to "Shaping the future using thin films and nanotechnology"

Aruna Ivaturi* and Oomman Varghese*

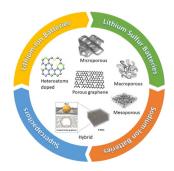


REVIEWS

2524

Recent advancements in 3D porous graphene-based electrode materials for electrochemical energy storage applications

Arthisree Devendran and Atsushi Nagai*



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REVIEWS

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Nanotechnology based therapeutic approaches: an advanced strategy to target the biofilm of ESKAPE pathogens

Arpita Mukherjee, Somashree Bose, Anirban Shaoo and Sujoy K. Das*



PAPERS

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Surfactant doped polyaniline coatings for functionalized gas diffusion layers in low temperature fuel cells

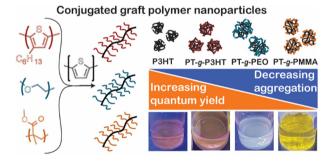
Florian Tritscher, Adrian Mularczyk, Antoni Forner-Cuenca, Viktor Hacker and Merit Bodner*

Functional coatings for gas diffusion layers in fuel cells: Improved electrical conductivity Controllable hydrophobicity Surfactant doped PANI coating Carbon paper

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Enhancing photoluminescence of conjugated nanoparticles through graft polymer architectures

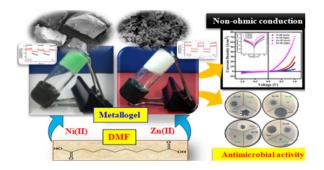
Ashley E. Masucci, Masoud Ghasemi, Christian W. Pester* and Enrique D. Gomez*



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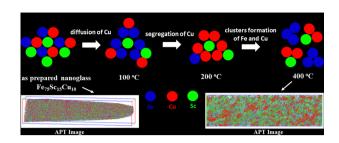
Ni(II) and Zn(II)-metallogel-based anti-bacterial scaffolds for fabricating light-responsive junction-type semiconducting diodes with non-ohmic conduction mechanism

Gerald Lepcha, Baishakhi Pal, Santanu Majumdar, Kazi Tawsif Ahmed, Indrajit Pal, Swadesh Ranjan Biswas, Partha Pratim Ray* and Biswajit Dey*



PAPERS

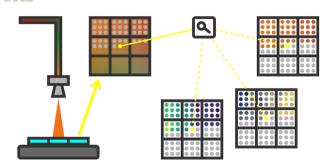
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Nano-alloying and nano-chemistry of the immiscible elements Fe and Cu in a FeSc-Cu nanoglass

Shiv Prakash Singh,* Mohammed Reda Chellali, Torben Boll, Herbert Gleiter and Horst Hahn





Accelerated screening of Cu-Ga-Fe oxide semiconductors by combinatorial spray deposition and high-throughput analysis

Maximilian Wolf,* Georg K. H. Madsen and Theodoros Dimopoulos*

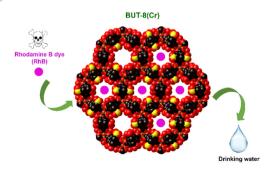
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Unsubstituted thiophene-diketopyrrolopyrrole conjugated polymer thin films via oxidative chemical vapor deposition - electronic behavior

Marek K. Charyton, Tobias Reiker, Kamil Kotwica, Monika Góra, Helmut Zacharias and Nicolas D. Boscher*

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Efficiently improving the adsorption capacity of the Rhodamine B dye in a SO₃H-functionalized chromium-based metal-organic framework

Khang M. V. Nguyen, Anh V. N. Phan, Nhung T. Dang, Truong Q. Tran, Huy K. Duong, Hung N. Nguyen and My V. Nguyen*

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Vitrimerization of crosslinked elastomers: a mechanochemical approach for recycling thermoset polymers

Alireza Bandegi, Thomas G. Gray,* Sarah Mitchell, Amin Jamei Oskouei, Michelle K. Sing, Jayme Kennedy, Kimberly Miller McLoughlin and Ica Manas-Zloczower*

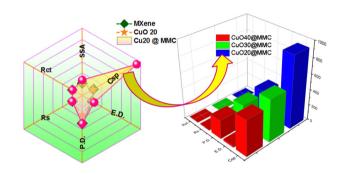


Recyclable Vitrimerized EVA

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Facile synthesis of ternary MXene nanocomposites as an electrode for supercapacitive applications

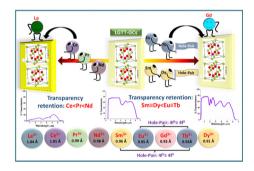
Rutuja A. Chavan, Desta M. Ulisso, Akash S. Rasal, Jia Yaw Chang and Anil Vithal Ghule*



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The effect of rare earth (RE3+) ionic radii on transparent lanthanide-tellurite glass-ceramics: correlation between 'hole-formalism' and crystallization

Pritha Patra, K. Jayanthi, Fabian Margit, Shweta R. Keshri, Sandip Bysakh, Kaushik Biswas, Nitya Nand Gosvami, N. M. Anoop Krishnan, Amarnath R. Allu and K. Annapurna*



CORRECTION

Correction: Cellulose-assisted electrodeposition of zinc for morphological control in battery metal recycling

B. W. Hoogendoorn, M. Parra, A. J. Capezza, Y. Li, K. Forsberg, X. Xiao* and R. T. Olsson*