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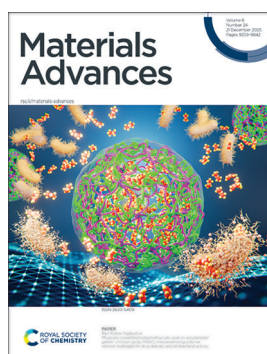
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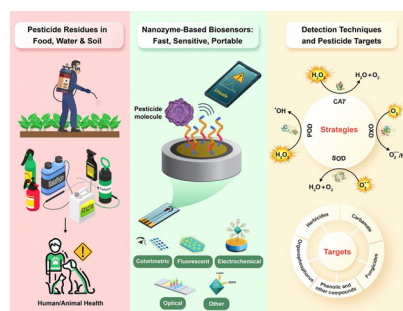
See Ravi Kumar Pujala *et al.*, pp. 9391–9406.
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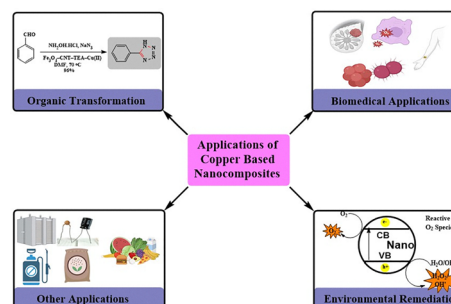
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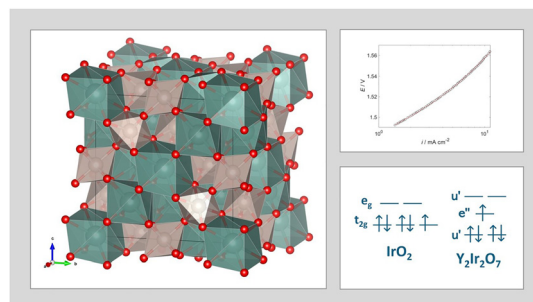
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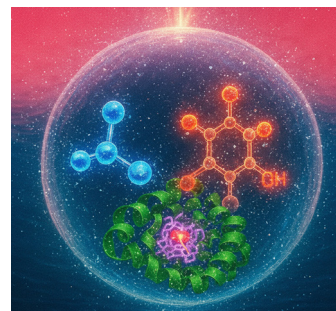


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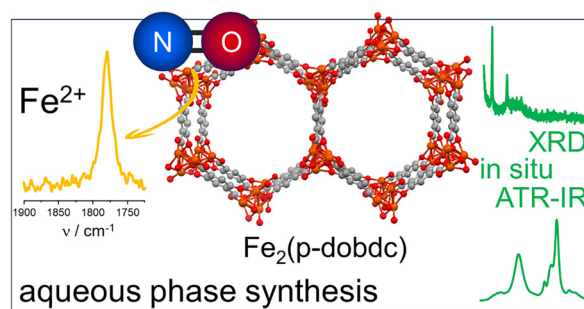
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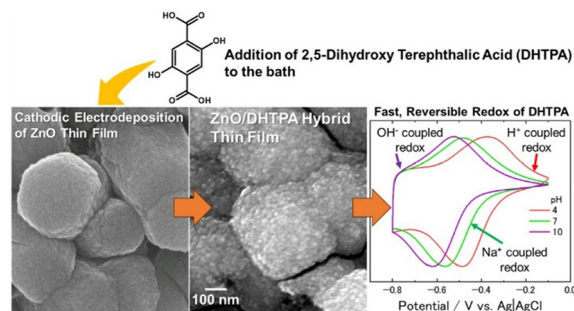
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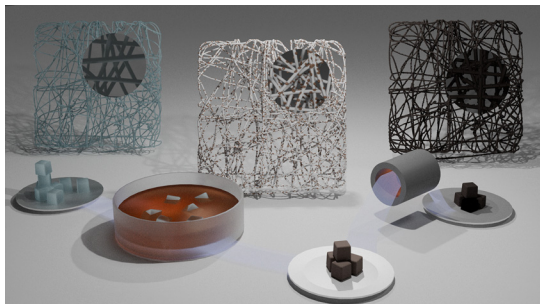
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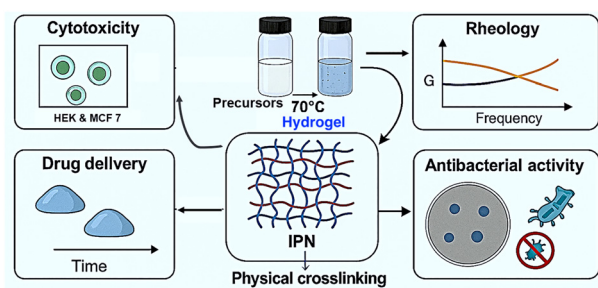


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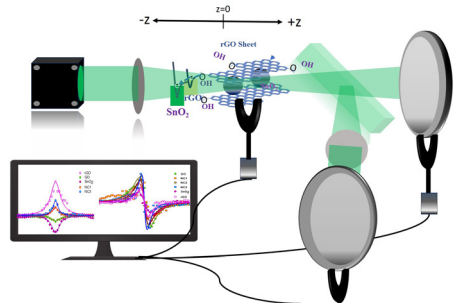
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Physically crosslinked poly(methacrylic acid-co-acrylamide)/gelatin-chitosan (poly-MAGC) interpenetrating polymer network hydrogels for drug delivery and antibacterial activity

Anilkumar Yamala, Rathangpani Pandit, Ravi Kumar Kanaparthy, Prasanna Katti, Sivakumar Vallabhapurapu* and Ravi Kumar Pujala*

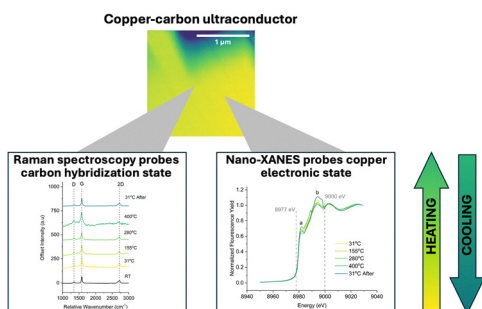
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Pulak Das Gupta, Md Kamal Uddin,* Suptajoy Barua, Umma Sumaia Akter Meem, Md. Jubair Ahmed Surov, Tanvir Ahmed, Md Wahadoszamen, Rumana A. Jahan and Ishtiaque M. Syed

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Investigating the mechanism of copper-carbon interactions in ultraconductor materials *via in situ* thermal X-ray and Raman spectroscopy

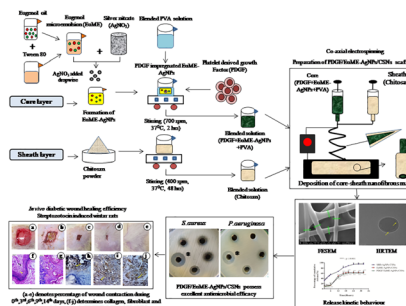
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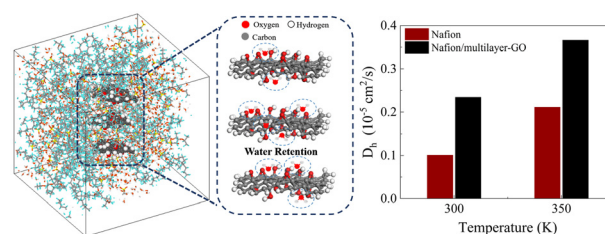
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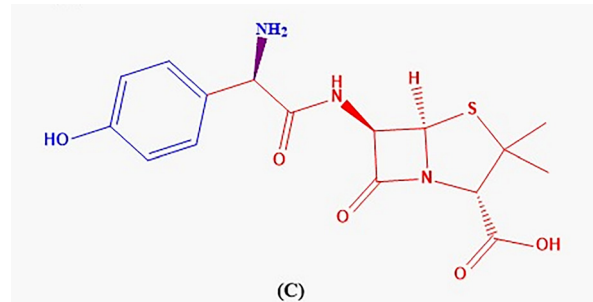
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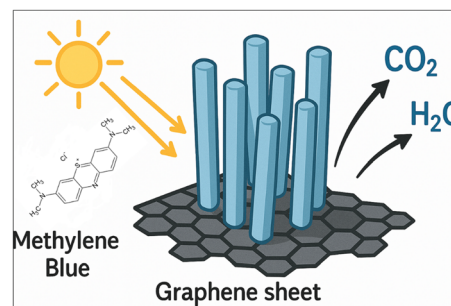
Hadeel M. Banbela, Reema H. Aldahiri, Amrajaa S. Abubakr, Magda F. Mohamed and Safaa S. Hassan*



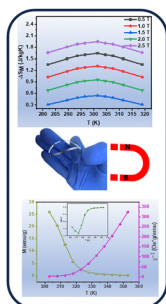
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Laura Khamkhash, Alima Bazanova, Kuralay Rustembekzy, Bachir Yaou Balarabe and Timur Sh. Atabaev*



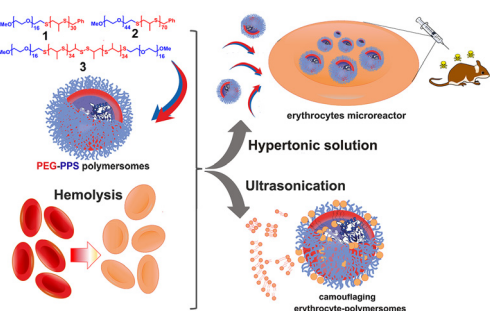
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Anjana Vinod, D. Arvindha Babu, Manivel Raja Muthuvel, S. Srinath and W. Madhuri*

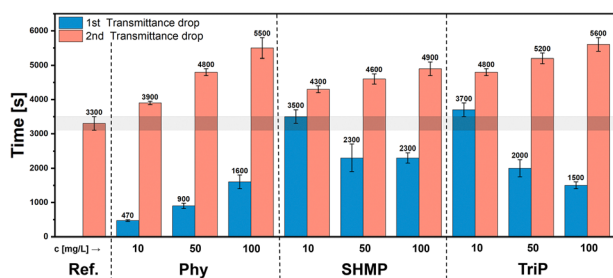
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Enzyme-containing double layer polymersomes coated by erythrocytes as a biomimetic nanoscavengers for *in vivo* protection from toxicants

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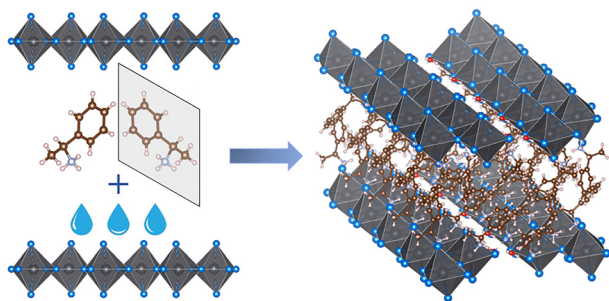
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Yannick H. Emminger, Annika Bastian, Luca Ladner, Tobias Steiner and Cristina Ruiz-Agudo*

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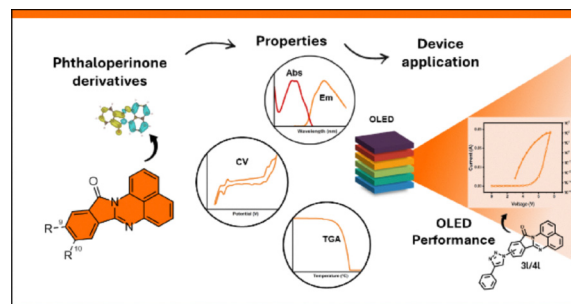
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A thorough and comprehensive study of novel phthaloperinone derivatives: from synthesis and property evaluation to applications in light-emitting diodes

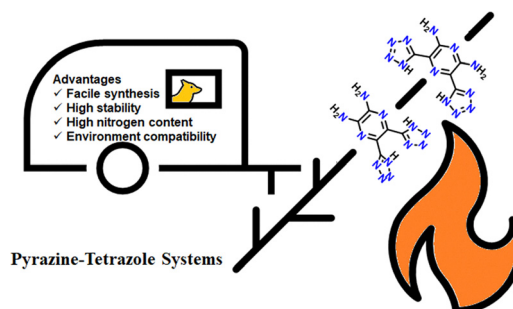
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Design and synthesis of thermally robust pyrazine–tetrazole hybrids as high-nitrogen energetic materials

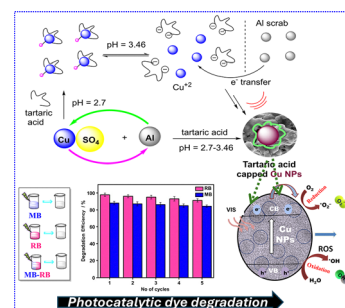
Jatinder Singh, Richard J. Staples and Jean'ne M. Shreeve*



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Redox-driven synthesis of stable copper nanoparticles *via* metal displacement and their application in organic dye degradation

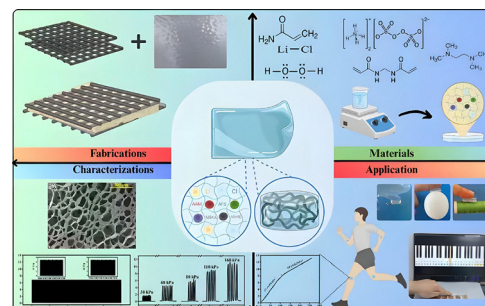
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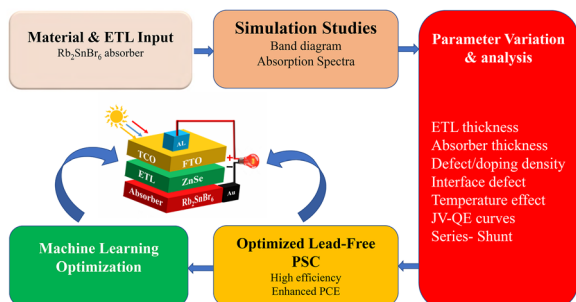
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Flexible fabric-integrated PAAm–LiCl hydrogel pressure sensor for wearable and soft robotics applications

Liza Liza, Md Homaune Kabir, Mohashin Kabir, Md Nuramurtada Rafi, Xu Ruidong, Md Ashikur Rahman, Tarikul Islam* and Tian Mingwei*



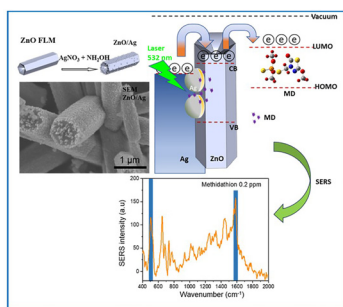
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Simulation and machine learning driven optimization of Rb_2SnBr_6 -based lead-free perovskite solar cells using diverse ETLs for enhanced photovoltaic performance

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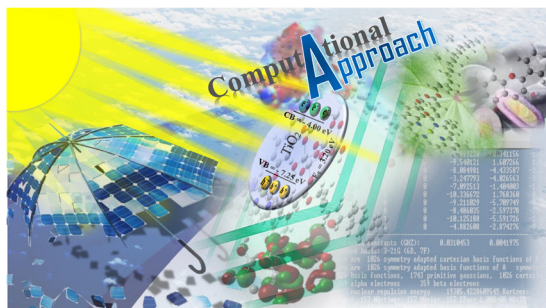
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Fabrication and the highly sensitive SERS performance of Ag-decorated ZnO flower-like microrods for methidathion detection

Nguyen Dac Dien, Thi Thu Ha Pham,* Xuan Hoa Vu, Ngo Thi Lan, Tran Thu Trang, Pham Thi Nga, Pham The Chinh, Truong Xuan Vuong, Thi Thu Thuy Nguyen, Cao Thanh Hai, Tran Thi Kim Chi, Tran Thi Huong Giang, Pham Thanh Binh, Nguyen Trong Nghia and Nguyen Duc Toan

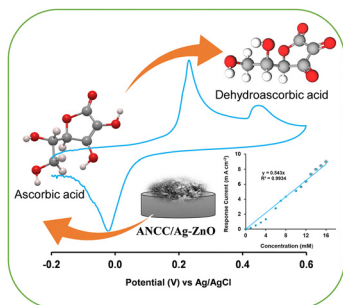
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Optimizing DSSC dyes: investigating synergistic interactions of chlorophyll *b* and anthocyanin with TiO_2 through TD-DFT methodology

Muneer Hussain,* Tahmineh Jalali,* Leila Maftoon-Azad and Shahriar Osfouri

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The efficiency of an aminated nanocrystalline cellulose stabilized binary Ag–ZnO nanocomposite as an electrode platform for electrochemical sensing of ascorbic acid

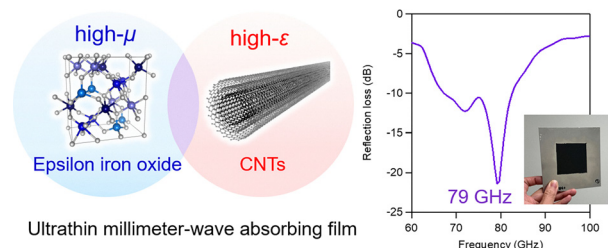
Md. Mahabur Rahman, Md. Sohel Rana, Hideto Minami, Md. Mahbubor Rahman, Md. Abdur Rahman, Md. Ashraf Alam and Hasan Ahmad*



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Ultrathin millimeter-wave-absorbing film for automotive radars based on an epsilon iron oxide/carbon nanotube composite material

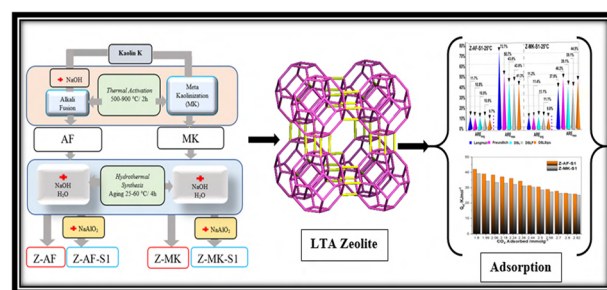
Asuka Namai,* Marie Yoshikiyo, Jessica MacDougall, Takashi Ono, Takahiro Asai, Masayuki Hara, Momoe Kanai, Takayuki Yoshida, Yasuto Miyamoto, Kenji Sakane, Shinji Kurahashi, Toshifumi Nishio and Shin-ichi Ohkoshi*



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Cameroonian natural clay derived Linde type LTA zeolite: demystifying and understanding the impact of the synthesis process on adsorption efficiency

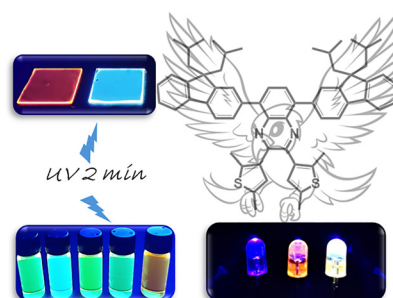
Cyrille Ghislain Fotsop, Alexandra Lieb and Franziska Scheffler*



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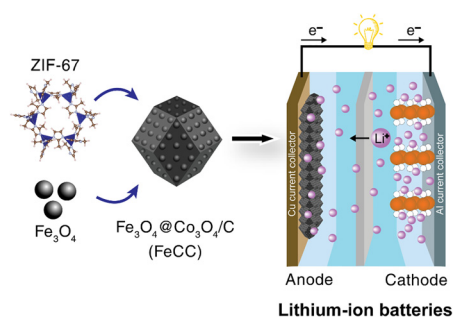
Liudmila Loghina,* Jiri Jancalek, Jakub Houdek, Zuzana Zmrhalova, Roman Jambor and Miroslav Vlcek



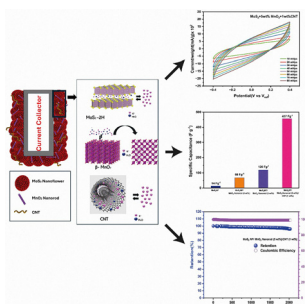
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Optimization of the carbonization temperature and composition of FeCC composites for enhanced lithium-ion battery anode performance

Do Thao Anh, Nguyen Bao Tran, Quang Ngoc Tran, Hanh Kieu Thi Ta, Bach Thang Phan, Tuan Loi Nguyen and Nhu Hoa Thi Tran*



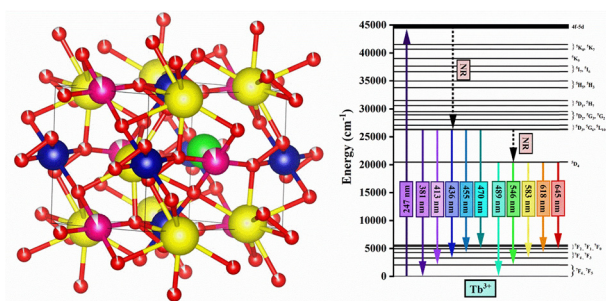
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Hierarchical integration of a MoS₂ nanoflower/MnO₂ nanorod/CNT ternary composite electrode for high capacitance and long-term cycling stability

Md. Arif Hossain Chowdhury Anik, T. M. A. Iqbal Bin Belal, Md Shafayatul Islam, Koushik Roy Chowdhury, Mrinmoy Brahma, Shad Inquiad Mim, Aninda Nafis Ahmed* and Ahmed Sharif*

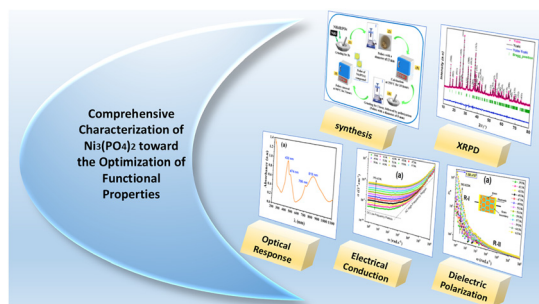
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Negative thermal quenching and optically stable Tb³⁺-doped tungstate phosphor for high temperature lighting and advanced thermometry applications

R. Kiran, S. Masilla Moses Kennedy, A. Princy, M. I. Sayyed, Aljawhara H. Almuqrin and Sudha D. Kamath*

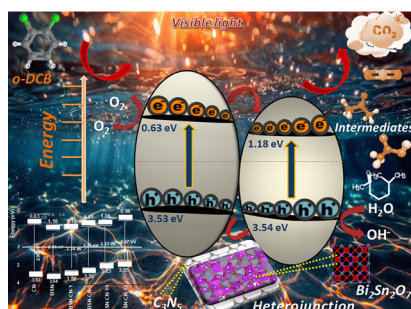
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Investigation of electronic parameters, carrier transport mechanisms *via* the correlated barrier hopping model, electrothermal NTCR effects, and polarization contributions to the dielectric response of Ni₃(PO₄)₂ orthophosphates synthesized by the sintering process

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Enhanced synergistic photocatalysis: a thorough investigation of Bi₂Sn₂O₇/C₃N₅ heterojunctions

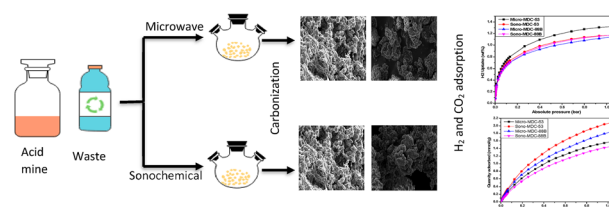
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Synthesis of iron-based metal–organic frameworks and carbon derivatives *via* unconventional synthetic methods and waste precursors with potential for gas storage

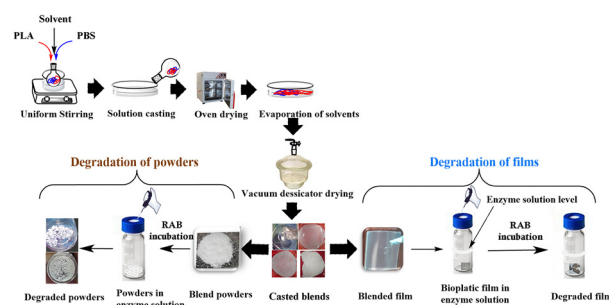
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Shreetam Parida, Nivethitha Ashok and Rajendra Kurapati*



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Kanwal Bashir, Adnan Mujahid and Adeel Afzal*

