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Introduction to Materials and Devices for the Energy Transition in Latin America

Ana Flávia Nogueira,* Gustavo Doubek and Hudson Zanin

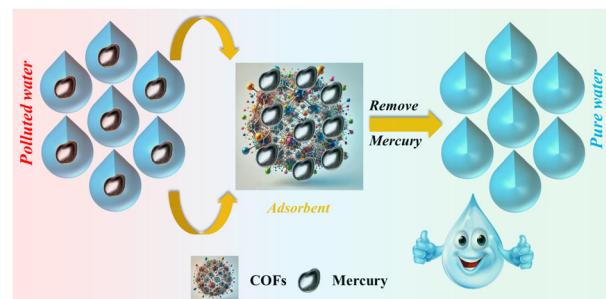


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Mercury in aquatic environments: toxicity and advances in remediation using covalent organic frameworks

Kawan F. Kayani* and Sewara J. Mohammed



Environmental Science: Atmospheres

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Elemental answers



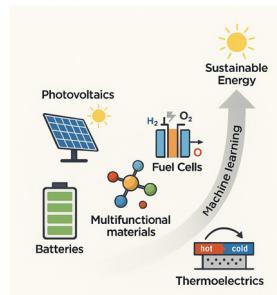
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Bridging current and future innovations to unlock the potential of multifunctional materials for sustainable energy applications

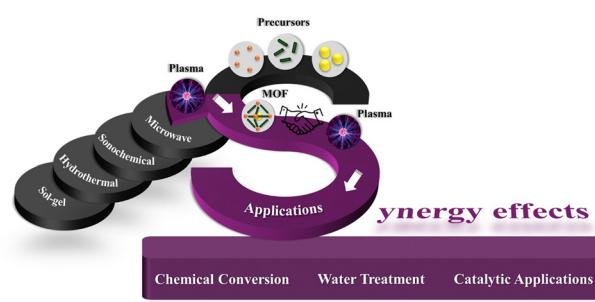
Aparna Ashok, Jitendra Pal Singh, Anuj Kumar and Neeru Bhagat*
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Unveiling the synergy between plasma and metal–organic frameworks for next-generation materials: an overview

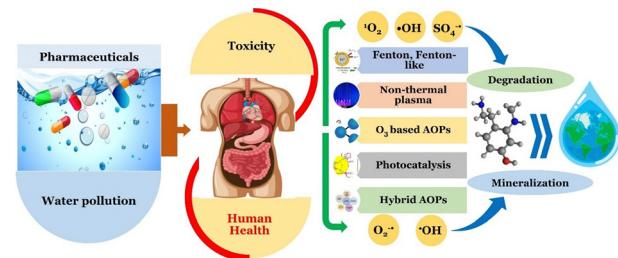
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Kosar Hikmat Hama Aziz,* Fryad S. Mustafa, Mozart A. H. Karim and Sarkawt Hama

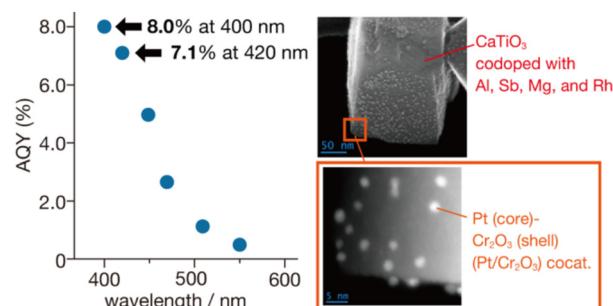


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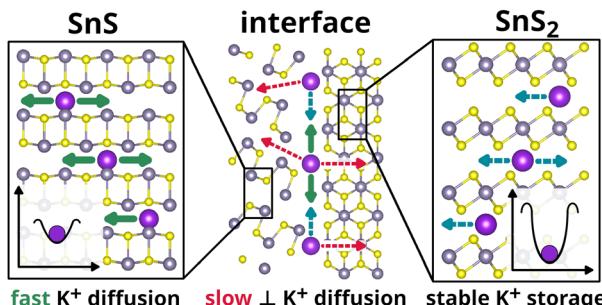
Visible-light-driven hydrogen evolution using calcium titanate codoped with aluminium, antimony, magnesium, and rhodium, loaded with a platinum (core)–chromia (shell) cocatalyst

Tomoya Ota, Ryota Tomizawa, Tomoya Nagano, Koji Hayashi and Shigeru Ikeda*



COMMUNICATIONS

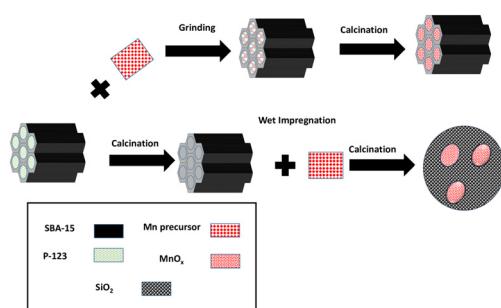
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Christoph Kirsch, Daniel Sebastiani and Pouya Partovi-Azar*

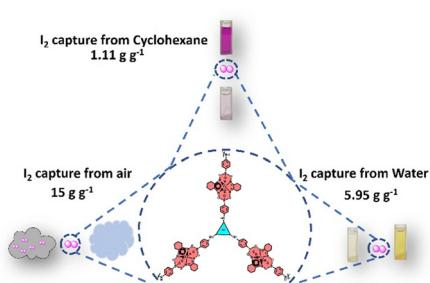
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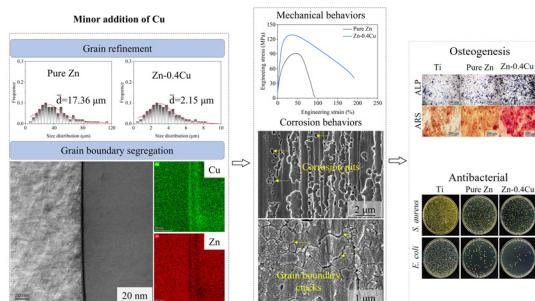
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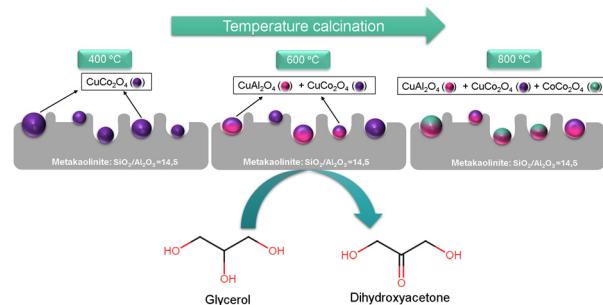


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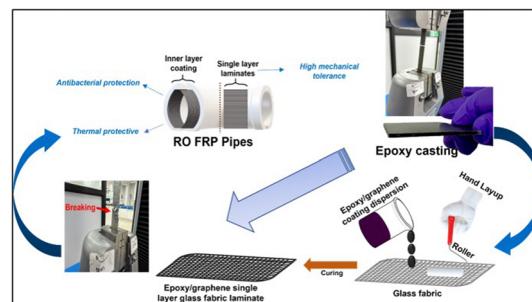
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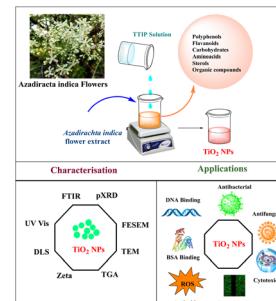
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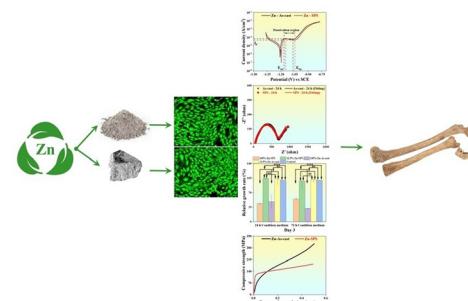
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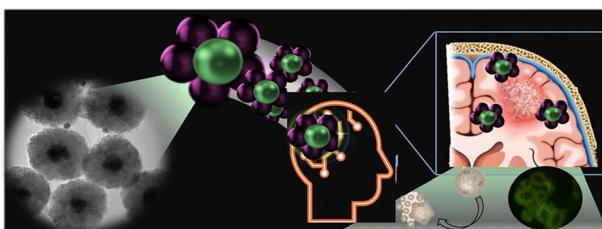
Microstructural, mechanical, corrosion, and biological behavior of spark plasma sintered commercially pure zinc for biomedical applications

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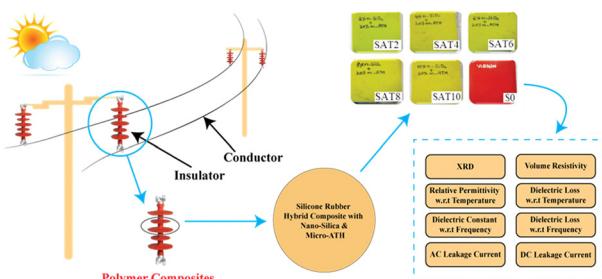
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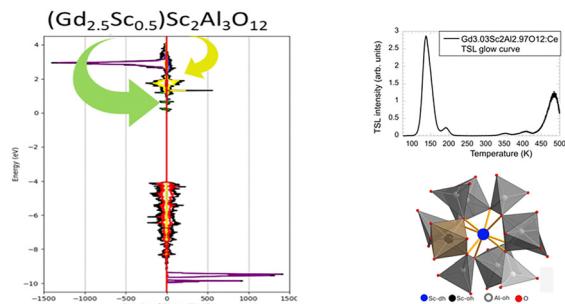
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Exploring the dielectric properties of HTV silicone rubber based hybrid composites in a multi-stress aging environment

Fateha Aiman, Abraiz Khattak, Arooj Rashid,* Safi Ullah Butt, Tahira Arshad, Yasin Khan, Khalid Hamad AlKhalid and Abdulrehman Al-Arainy

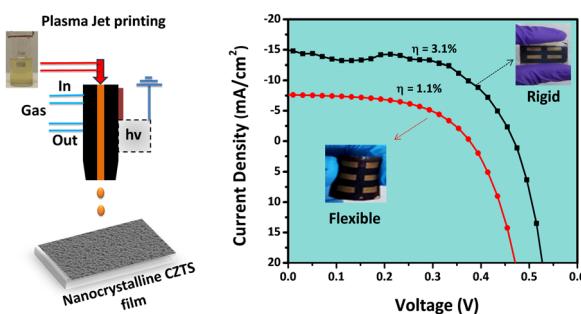
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M. Dhanasekar, Stenny Benny, Avishhek Dey,* Satheesh Krishnamurthy* and S. Venkataprasad Bhat*

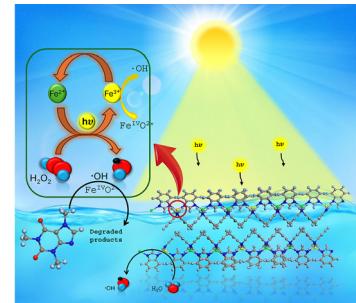


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A hypervalent metal MOF catalyst as an avenue to go beyond heterogeneous Fenton-like processes for organic contaminant removal in water

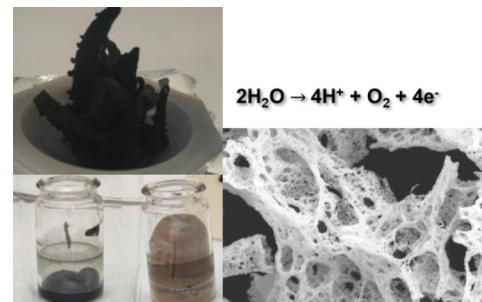
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Exploring the combustion synthesis for yttrium ruthenate pyrochlores as OER electrocatalysts

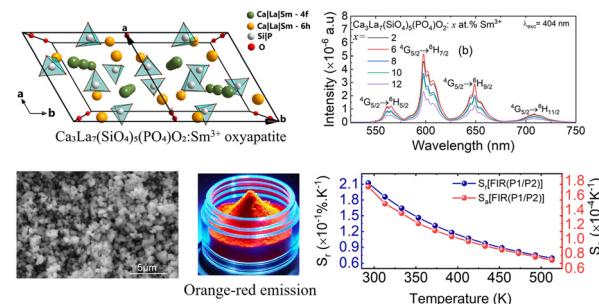
Megan Heath,* Elise Fosdal Closs, Svein Sunde and Frode Seland



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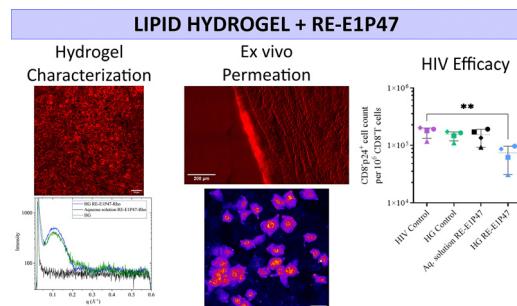
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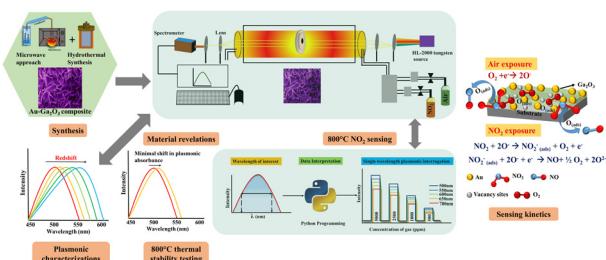
A lipid hydrogel to transport and release an anti-HIV-1 peptide into vaginal mucosa

Noèlia Loza-Rodríguez,* Aina Millán-Sánchez, Aleix Benítez, Ramon Pons, María José Gómara, Isabel Haro, Meritxell Genescà and Olga López*



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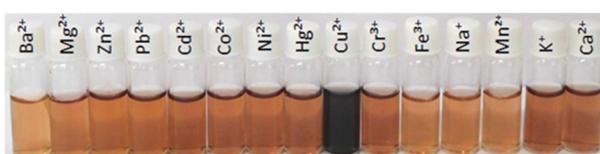
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Plasmonically optimized gold–gallia nanocomposites: a novel approach for high-temperature NO_2 detection

L. Keerthana, Mushtaq Ahmad Dar, R. Sivasubramanian and Gnanaprakash Dharmalingam*

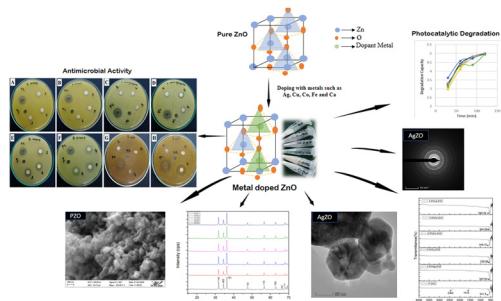
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Onsite naked-eye detection and quantification of $\text{Cu}^{(II)}$ ions in drinking water using N-doped carbon nanodots

Nidhisha V. and Renuka Neeroli Kizhakayil*

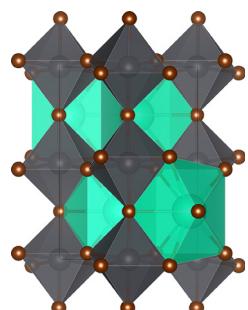
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Tuning the antimicrobial and photocatalytic activity of nano-ZnO by metal doping

Md. Atikur Rahman, Md. Tanvir Hossain, Md Farid Ahmed, Muhammad Shahriar Bashar, Subarna Sandhani Dey, Samina Ahmed* and Md. Sahadat Hossain*

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The role of primary and secondary electrons in scanning transmission electron microscopy of hybrid perovskites: the CsPbBr_3 case

P. E. Trevisanutto,* S. Taioli, M. Dapor, C. S. Allen and G. Teobaldi

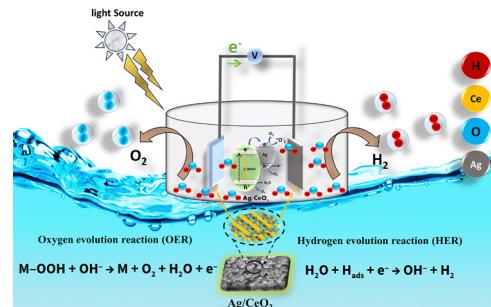


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Oxygen vacancies induced low overpotentials of Ag/CeO₂ for electrocatalytic evolution of oxygen and hydrogen

Ajit Kumar Dhanka, Mayank Tiwari, Prashant Kumar Bhartiya, Balaram Pani, Nityananda Agasti* and Debabrata Mishra*



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Phyto-mechanochemical synthesis of an Ag@GO/CNT catalyst: enhanced hydrogen production via a continuous flow system

Fatimah AlSulami, Merfat M. Alsabban, Hadeel M. Banbela, Noushi Zaidi, Sadaf Habib, Dina Hajjar, Arwa A Makki, Ismat Bibi, Tariq Javed, Aysha Afzal and Muhammad Babar Taj*

