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ISSN 2633-5409 CODEN MAADC9 7(6) 3021-3450 (2026)



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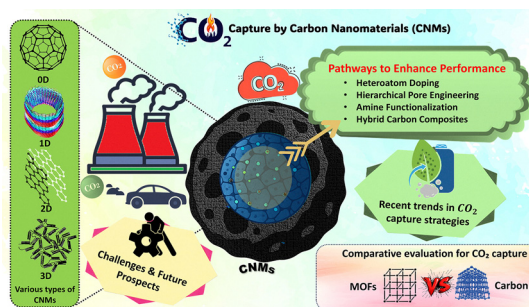
See Mihai Irimia-Vladu *et al.*, pp. 3147–3165. Image reproduced by permission of Mihai Irimia-Vladu from *Mater. Adv.*, 2026, 7, 3147.

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Tailoring carbon nanomaterial architectures for CO₂ capture: structure–property relationships, surface engineering, and future perspectives

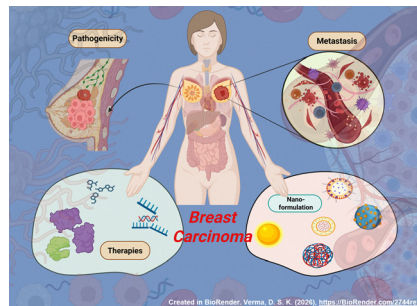
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REVIEWS

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Multifaceted advances in TiO₂-based photocatalysts for PFAS degradation: a critical review of mechanisms, modifications, and challenges

Avtar Singh* and Thiagarajan Soundappan

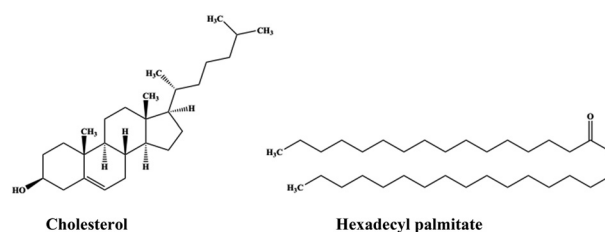


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Natural, small molecule aliphatics (cholesterol and hexadecyl palmitate) as dielectrics for low-voltage organic field effect transistors

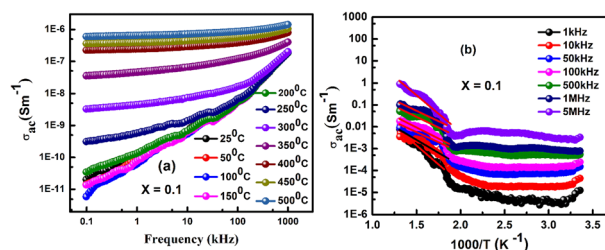
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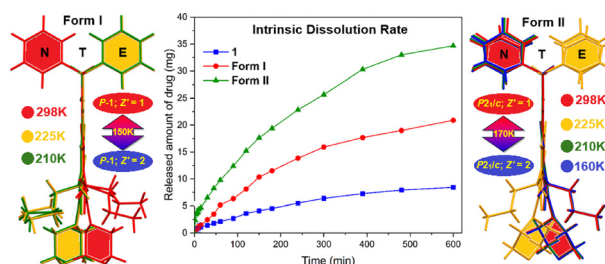
Swati Panda and S. K. Parida*



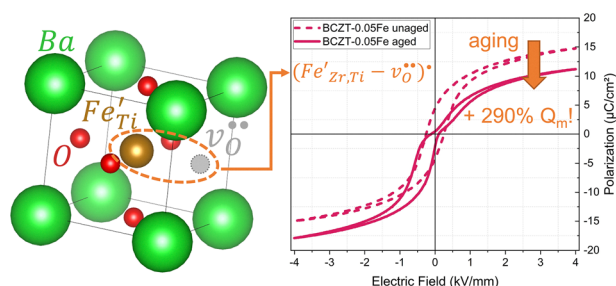
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Quasi-isostructural order–disorder phase transitions and anisotropic thermal expansions in polymorphic crystals of a biologically active molecule with distinct solubility and dissolution rate

Aditya Verma, Sourabh, Anil Kumar and Parthapratim Munshi*



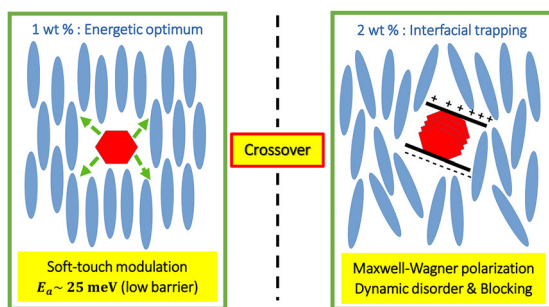
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Anna M. Paulik, Anamaria Mihaljević, Kriti Batra, Arpad M. Rostas, Emre Erdem and Jurij Koruza*

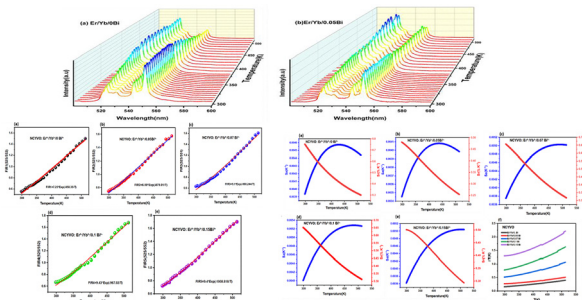
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Bulk charge-transfer coupling and tunable dielectric relaxation in benzoquinone-doped nematic liquid crystals

Yosr Turki,* Bochra Bejaoui, Ali Benali, Mohamed Mastouri, Nouredine Raouafi and Youssef Arfaoui

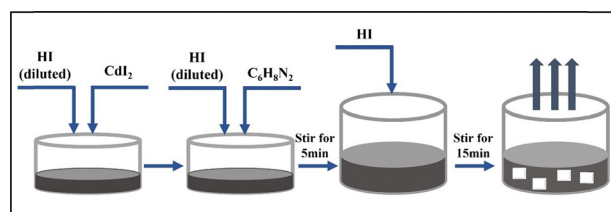
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Bi^{3+} -sensitized up-conversion luminescence and non-contact optical thermometry in $\text{NaCaYV}_2\text{O}_8:\text{Er}^{3+}/\text{Yb}^{3+}$ phosphors

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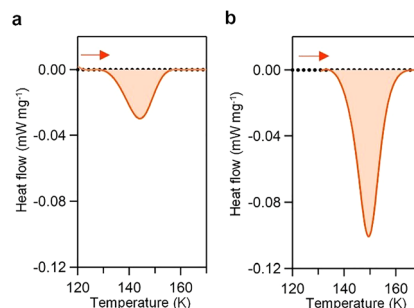
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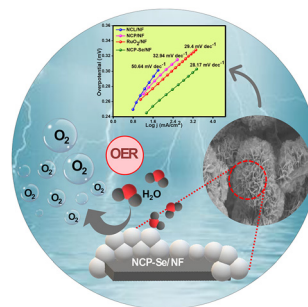
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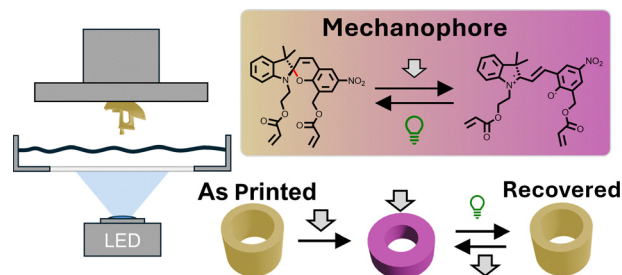
Dipti Prava Sahoo, Upali Aparajita Mohanty, Kundan Kumar Das, Ritik Mohanty and Kulamani Parida*



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3D DLP printed mechanochromic materials for visual signaling

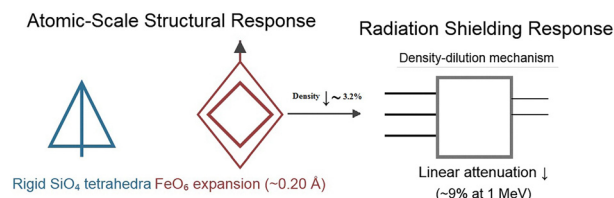
Finn Kröger, Christoph A. Spiegel and Eva Blasco*



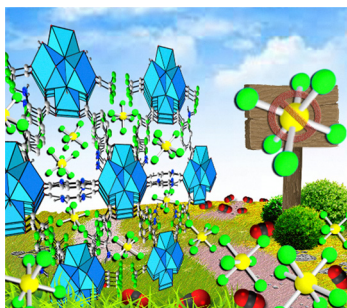
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Thermal and gamma-ray-induced density dilution in orthoferrosilite (FeSiO_3): implications for photon shielding stability

Z. Y. Khattari



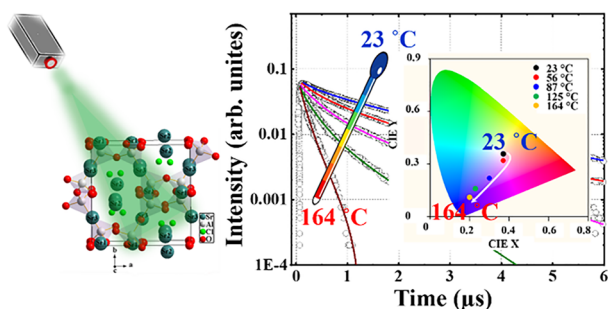
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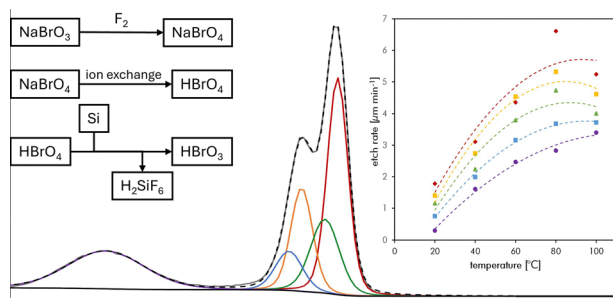
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Simon N. Ogugua,* Robin E. Kroon and Hendrik C. Swart*

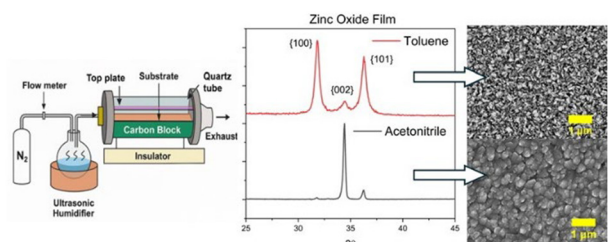
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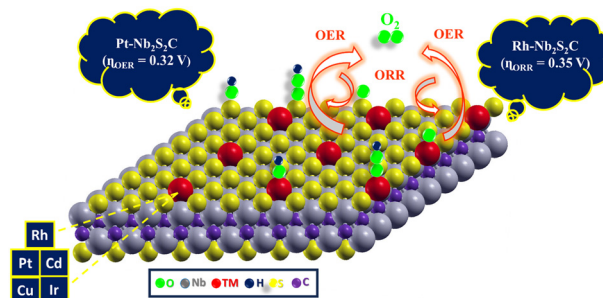
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Transition metal-embedded Nb₂S₂C as a high-performance bifunctional electrocatalyst for the OER and ORR: insights from DFT simulations

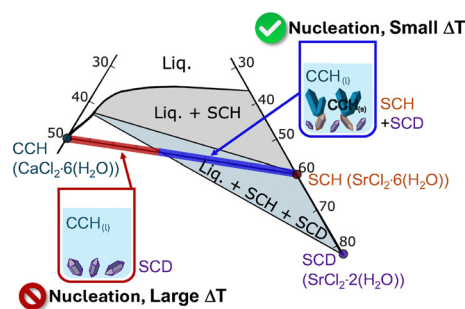
K. Simmy Joseph, Brahmananda Chakraborty* and Shweta Dabhi*



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Reaction and recovery of nucleation particle strontium chloride hexahydrate in calcium chloride hexahydrate

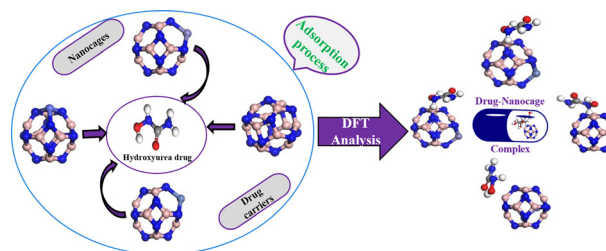
Denali Ibbotson and Patrick J. Shamberger*



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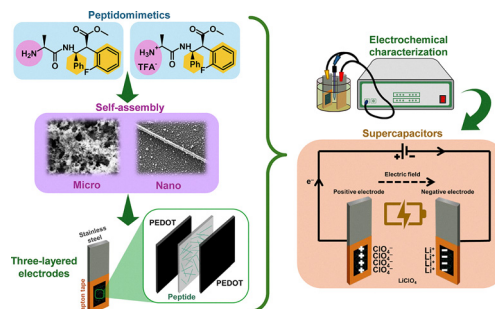
Samiron Kumar Saha,* Maliha Nishat, Md. Rayhan Mostofa, Md. Abul Hasnat, Md. Atikur Rahman and Md. Hafijur Rahman



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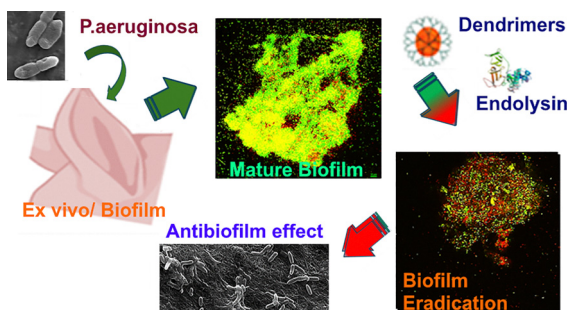
Self-assembled α/β-dipeptides as dielectrics to improve the behavior of multilayered conducting polymer pseudocapacitors

Dulce A. Quintana-Romero, Adrián Fontana-Escartín,* María Luisa Gelmi,* Merve Gul, María M. Pérez-Madrigal, Raffaella Bucci* and Carlos Alemán*



PAPERS

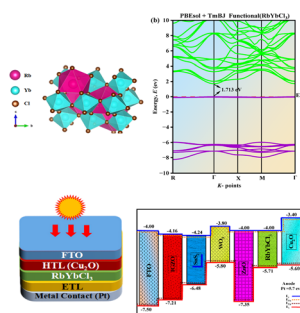
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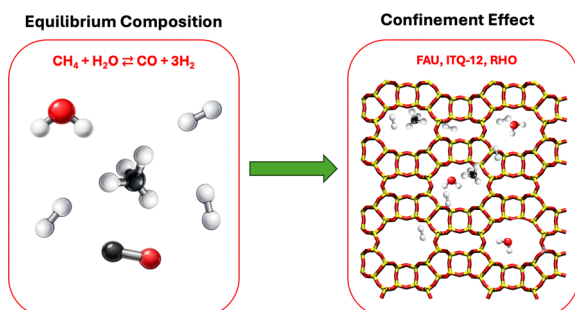
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Harnessing the untapped potential of a lanthanide-based perovskite (RbYbCl_3) absorber: from material properties to device implementation

Md. Sajjadur Rahman, Akram Hossan Mahedi, Mohammad Yasin Hayat Khan, Md. Tarekuzzaman, Md. Hasan Mia, Sohail Ahmad, Md. Rasheduzzaman and Md. Zahid Hasan*

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Confinement-driven equilibrium shifts in steam methane reforming: a monte carlo study in zeolites

Botagoz Zhakisheva, Juan José Gutiérrez-Sevillano,* Patrick J. Merkling and Sofia Calero*

CORRECTION

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Correction: Influence of alkali metal ions on the defect induced photoluminescence properties of double tungstate compounds $\text{ACe}(\text{WO}_4)_2$ (A = Li, Na, K): experimental and *ab initio* theoretical study

Nibedita Haldar* and Tanmoy Mondal

