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IN THIS ISSUE

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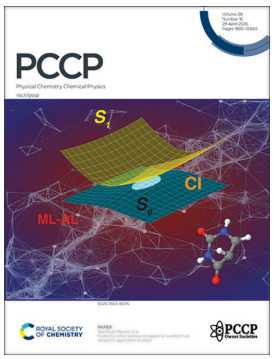

Cover
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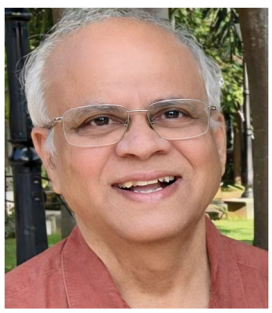
Inside cover
See Osamu Takahashi *et al.*, pp. 9910–9916. Image reproduced by permission of Osamu Takahashi from *Phys. Chem. Chem. Phys.*, 2026, **28**, 9910.

PROFILE

Atomic and molecular collisions: classical and quantum dynamics, chaos and fractals, periodic orbits, quantum mechanical resonances, gas-surface scattering, atomic and molecular clusters, atoms and molecules under confinement: a kaleidoscopic view

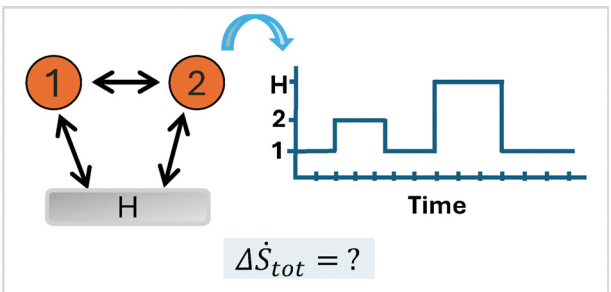
Narayanasami Sathyamurthy



REVIEWS

Identification and quantification of irreversibility in stochastic systems

Aishani Ghosal and Gili Bisker*



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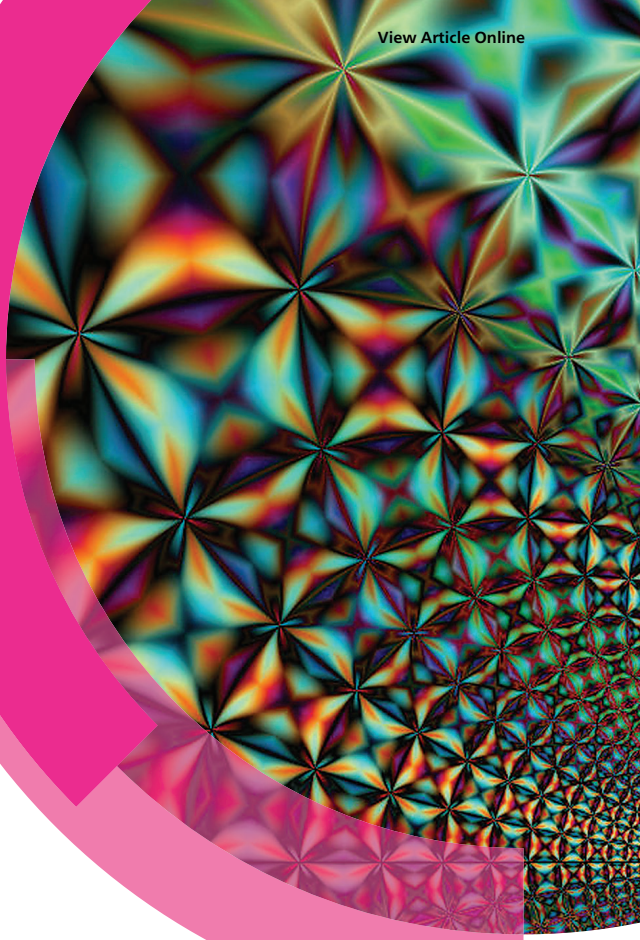

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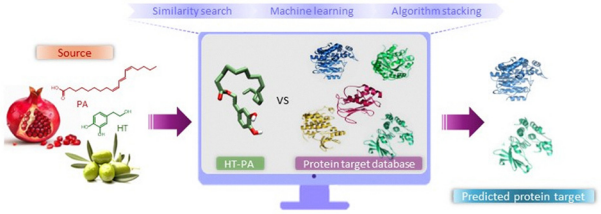

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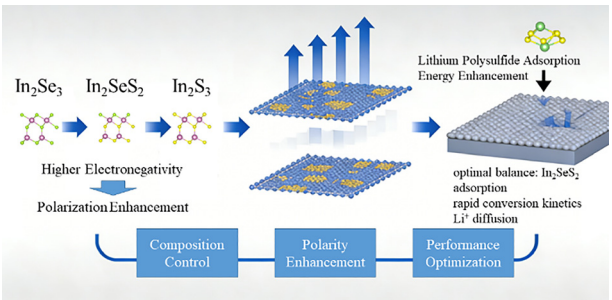

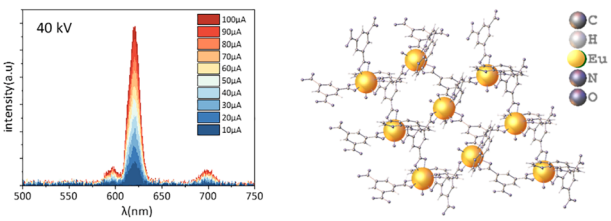

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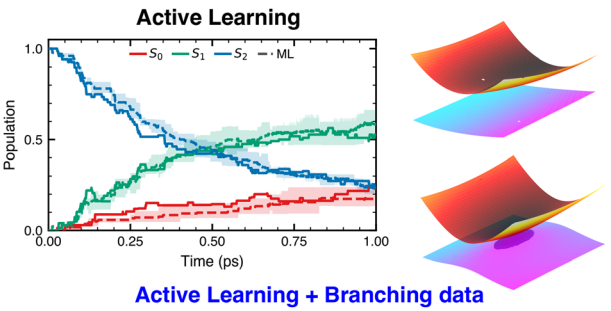

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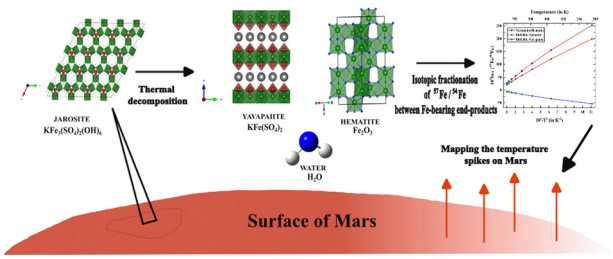

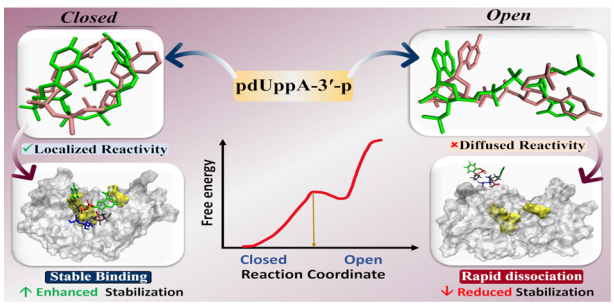

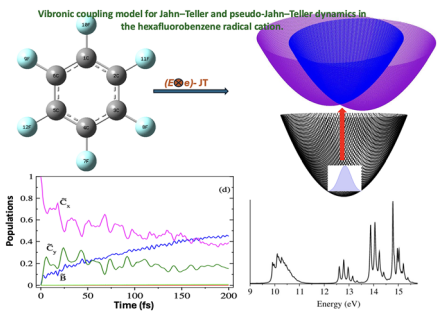

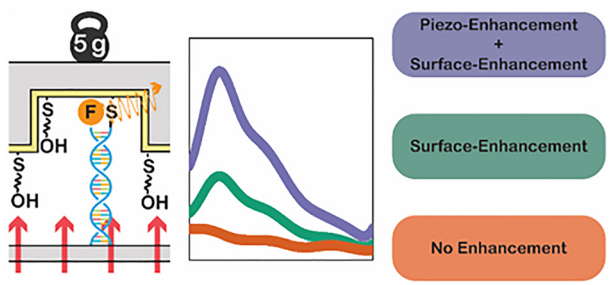

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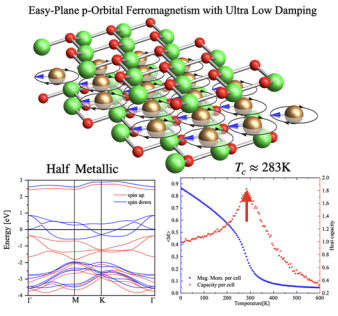

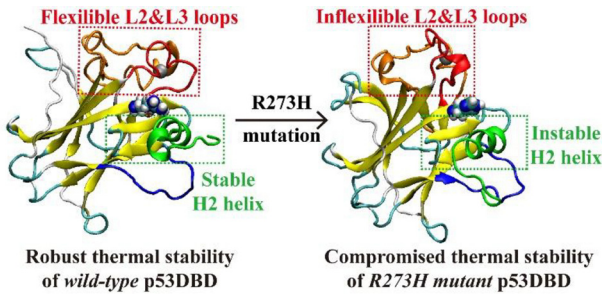

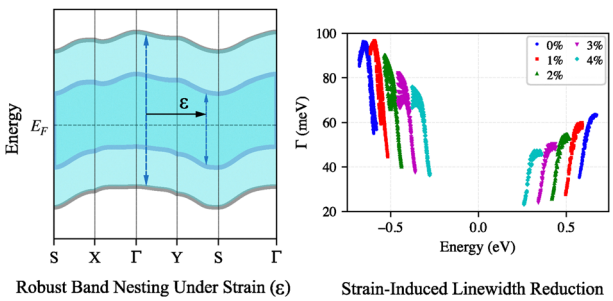

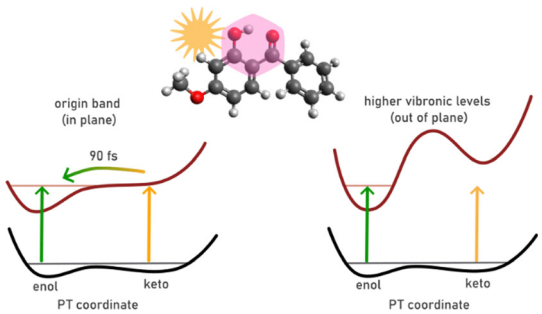

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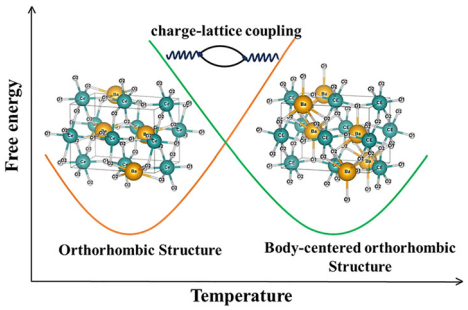

Exploring the role of charge–lattice coupling in the structural phase transition in $BaCeO_3$

Nikita Jain, Payal Ratnawat, Archna Sagdeo* and Pankaj R. Sagdeo

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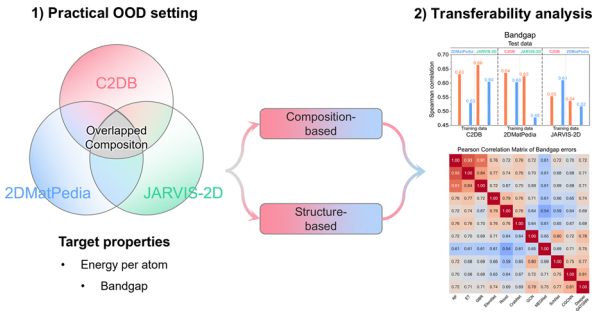

Comparative assessment of composition- and structure-based surrogate models across 2D materials databases

Inhyo Lee, Hyeokjae Chae, Jongwon Park, Jihye Shin, Hugon Lee* and Seunghwa Ryu*

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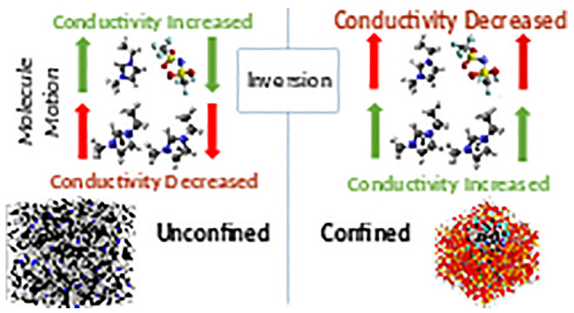

Molecular dynamics study of [EMIM][TFSI]/(Li/Na)TFSI ionic liquids confined in silica pores

Samanvitha Kunigal Vijaya Shankar, Chris Ewels, Jean Le Bideau and Yann Claveau*

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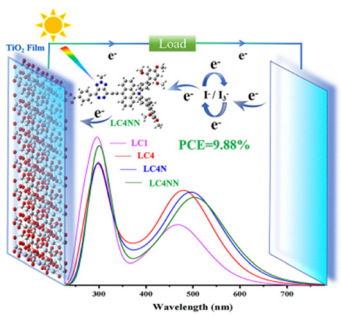

Optoelectronic performance of anthracene-based dyes with modified Hagfeldt donors in dye-sensitized solar cells

Haoyu Fan, Songfeng Li, Xiang Meng, Weiwei Pei, Tao Liu, Minxuan Wang and Yuanzuo Li*

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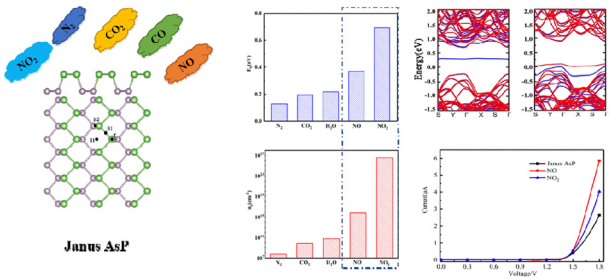

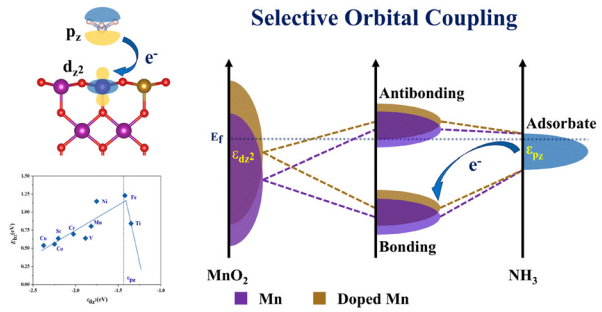

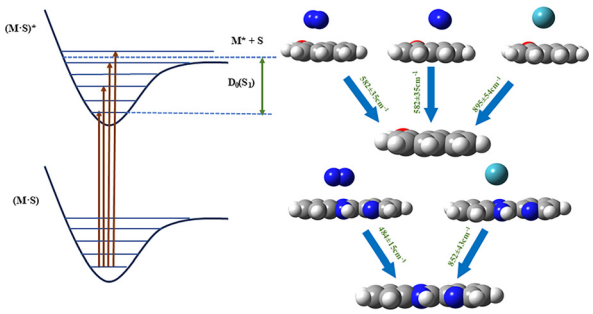

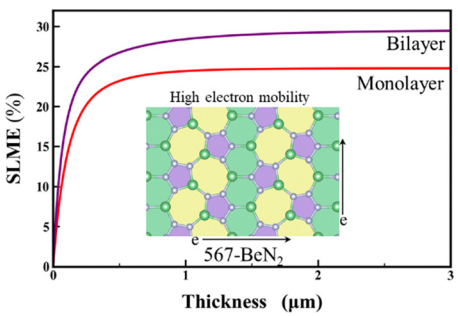

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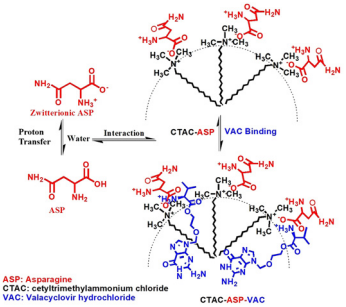

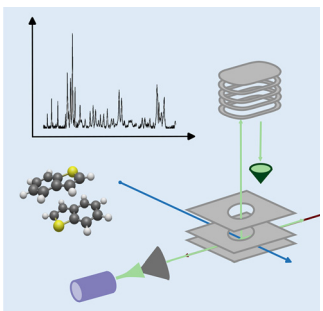

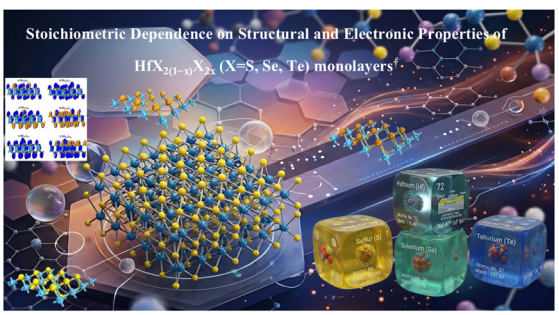

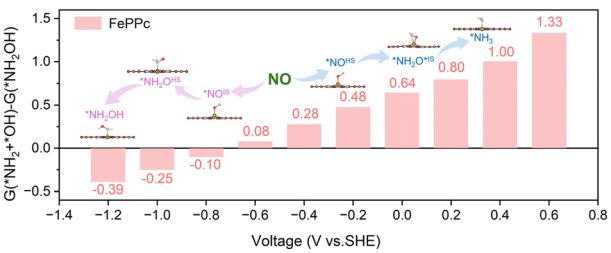

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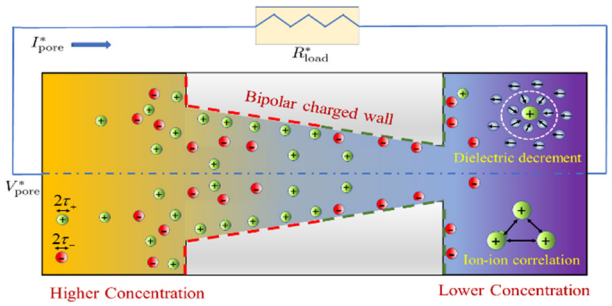
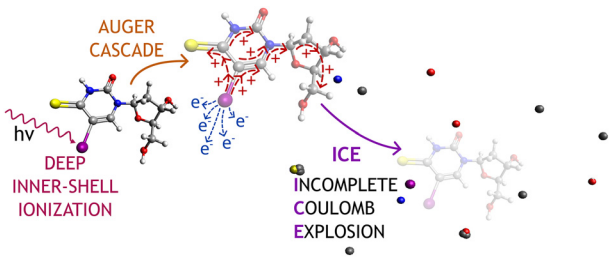


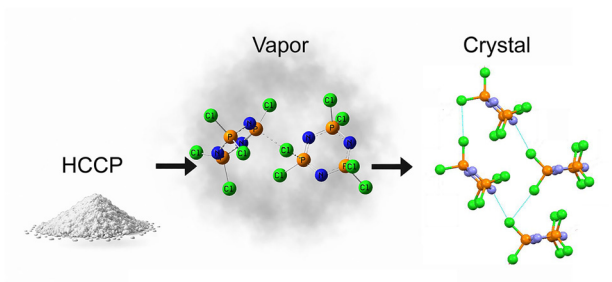
Impact of multivalent ions on osmotic power generation in a bipolar conical pore: a numerical analysis based on modified electrokinetic models

Shakyajit Paik and Somnath Bhattacharyya*



Dissociation of halogenated deoxyuridines as potential radiosensitizers, induced by deep inner-shell photoionization – experiment and modeling

Kerttu-Inkeri Pusa,* Edwin Kukk, Marta Berholts, Tatiana Marchenko, Iyas Ismail, Denis Céolin, Marc Simon and Oksana Travnikova*



Hexachlorocyclotriphosphazene: macromolecular assemblies in vapor and crystalline phases. experimental and computational approach

Semyon S. Egorov,* Elena Yu. Tupikina and Artem A. Selyutin