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See Koki Ikemoto, Hiroyuki Isobe *et al.*, pp. 3045–3050. Image reproduced by permission of Koki Ikemoto, Misato Akiyoshi and Hiroyuki Isobe from *Chem. Sci.*, 2025, **16**, 3045.



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See Heidy M. Quitián-Lara, Felipe Fantuzzi, Albeiro Restrepo *et al.*, pp. 3051–3065. Image reproduced by permission of Felipe Fantuzzi from *Chem. Sci.*, 2025, **16**, 3051.

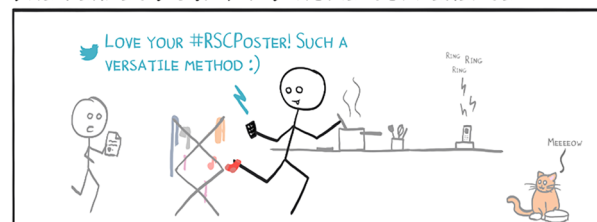
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Natalie Cotterell, Patrick A. J. M. de Jongh, Timothy Noël, Tanja Junkers, C. Malla Reddy, Athina Anastasaki and Edward Randviir

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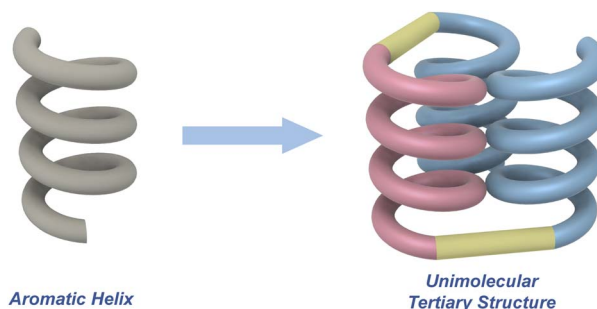


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A focus on a complex abiotic tertiary structure

Yulong Zhong and Bing Gong*



Aromatic Helix

Unimolecular Tertiary Structure



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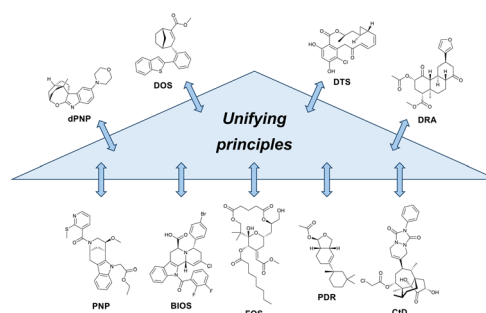
**Fundamental questions
Elemental answers**

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Unifying principles for the design and evaluation of natural product-inspired compound collections

Frederik Simonsen Bro and Luca Laraia*

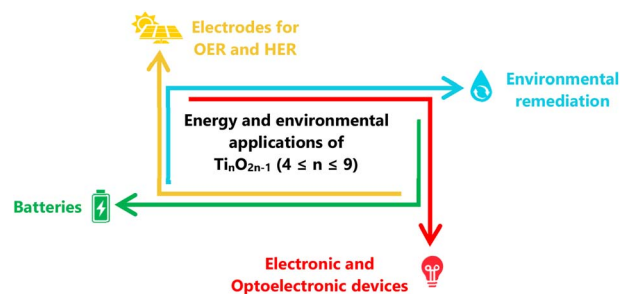


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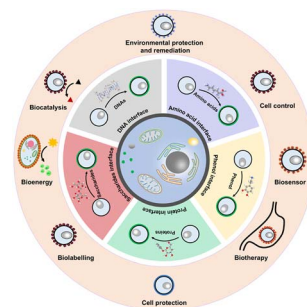
S. Amanda Ekanayake, Haoxin Mai, Dehong Chen and Rachel A. Caruso*



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Natural biomolecules for cell-interface engineering

Tong-Kai Zhang, Zi-Qian Yi, Yao-Qi Huang,* Wei Geng* and Xiao-Yu Yang*

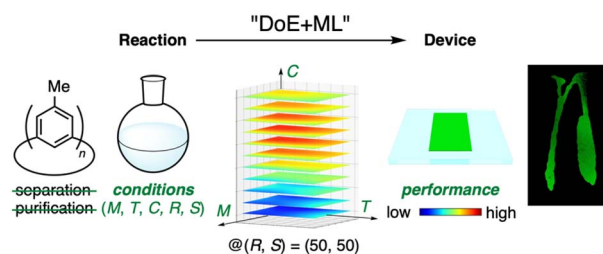


EDGE ARTICLES

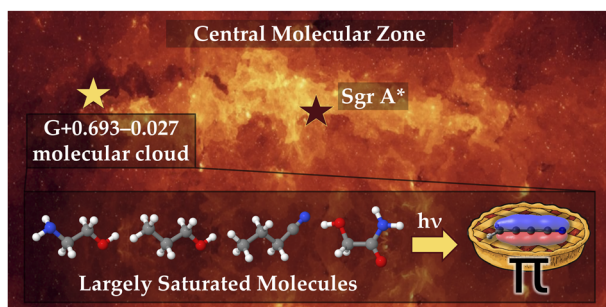
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Optimising reaction conditions in flasks for performances in organic light-emitting devices

Koki Ikemoto,* Misato Akiyoshi, Ayano Kobayashi, Hiroshi Kita, Hideo Taka and Hiroyuki Isobe*



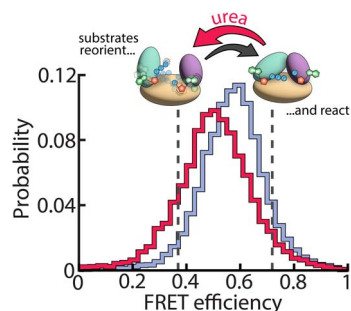
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More π , please: What drives the formation of unsaturated molecules in the interstellar medium?

Jhoan Londoño-Restrepo, Santiago Gómez, Heidy M. Quitián-Lara,* Felipe Fantuzzi* and Albeiro Restrepo*

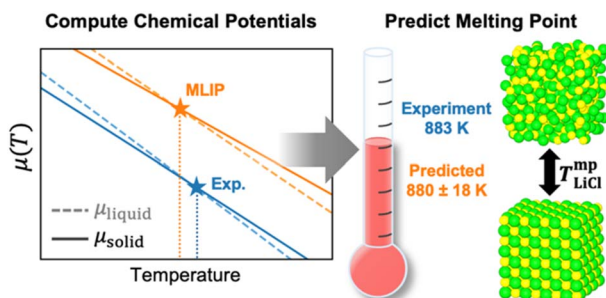
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Interplay between conformational dynamics and substrate binding regulates enzymatic activity: a single-molecule FRET study

David Scheerer,* Dorit Levy, Remi Casier, Inbal Riven, Hisham Mazal and Gilad Haran*

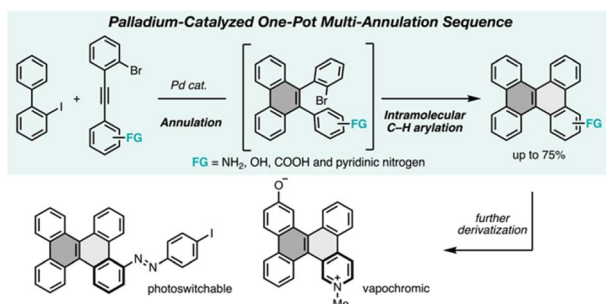
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Computing chemical potentials with machine-learning-accelerated simulations to accurately predict thermodynamic properties of molten salts

Luke D. Gibson,* Rajni Chahal and Vyacheslav S. Bryantsev*

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Rapid access to functionalized nanographenes through a palladium-catalyzed multi-annulation sequence

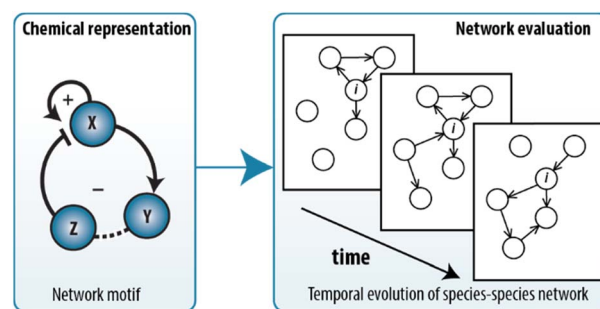
Takehisa Maekawa* and Kenichiro Itami*



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Identify structures underlying out-of-equilibrium reaction networks with random graph analysis

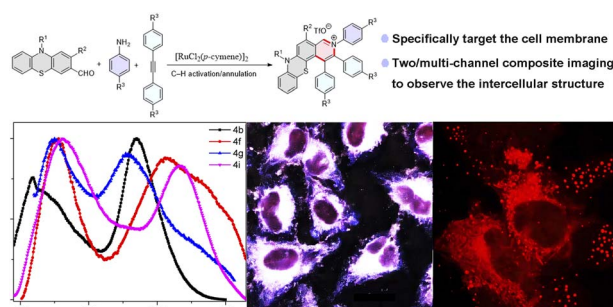
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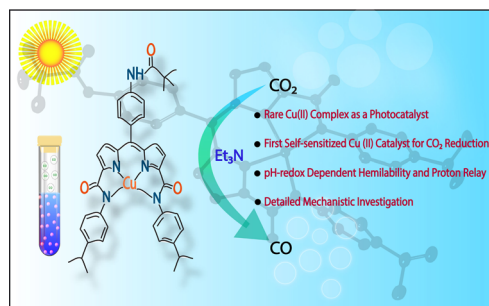
Junxiang Liu, Kangmin Wang, Liqiu Wan, Xianhui Yang and Bijin Li*



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Self-sensitized Cu(II)-complex catalyzed solar driven CO₂ reduction

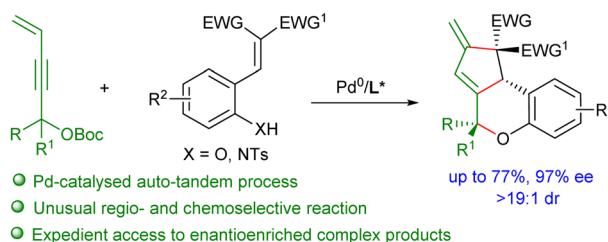
Soumadip Das, Aritra Roy, Navonil Chakrabarti, Narottam Mukhopadhyay, Aniruddha Sarkar and Sayam Sen Gupta*



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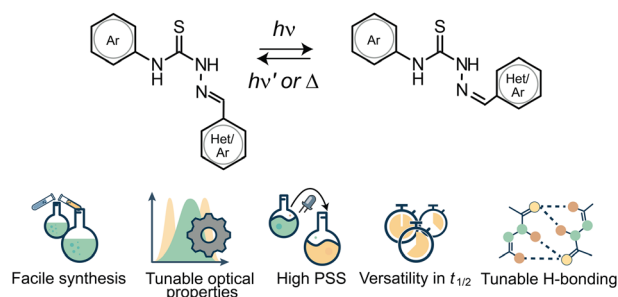
Palladium-catalysed asymmetric cascade transformations of 4-alken-2-ynyl carbonates to construct complex frameworks

Ze-Liang He, Li Li, Zhi-Chao Chen,* Wei Du and Ying-Chun Chen*



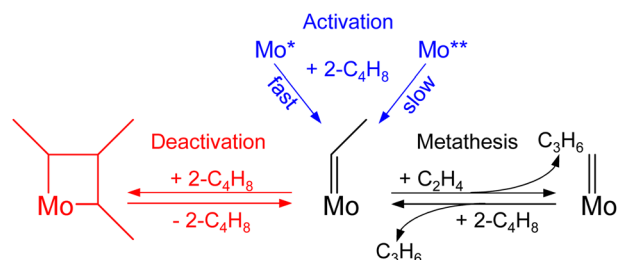
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**Thiosemicarbazones as versatile photoswitches with light-controllable supramolecular activity**

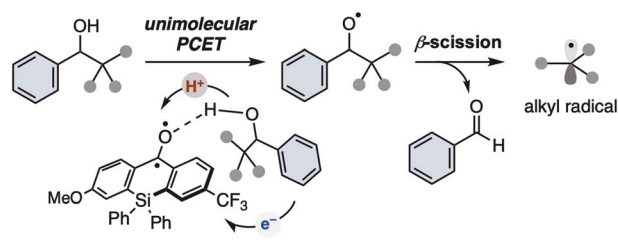
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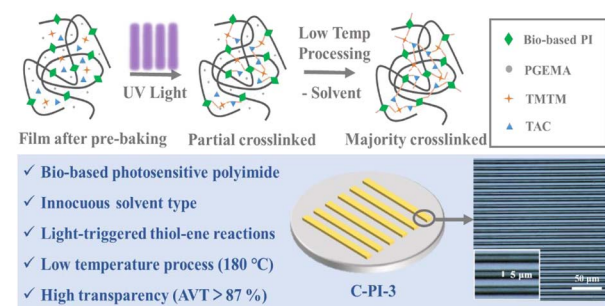
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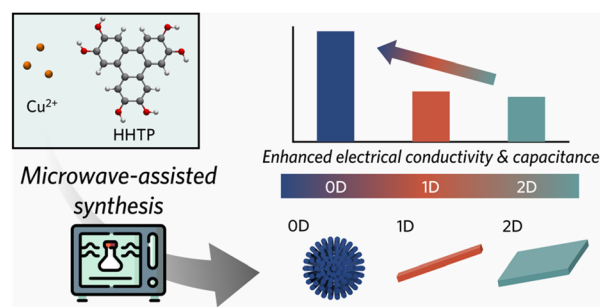
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From 0D to 2D: microwave-assisted synthesis of electrically conductive metal–organic frameworks with controlled morphologies

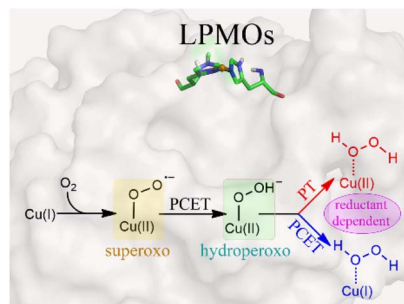
Xiaoyu Fang, Ji Yong Choi, Chenwei Lu, Elizabeth Reichert, Hoai T. B. Pham and Jihye Park*



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Theoretical study of the *in situ* formation of H_2O_2 by lytic polysaccharide monooxygenases: the reaction mechanism depends on the type of reductant

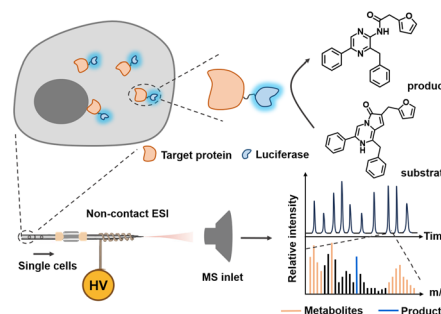
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Multi-dimensional bio mass cytometry: simultaneous analysis of cytoplasmic proteins and metabolites on single cells

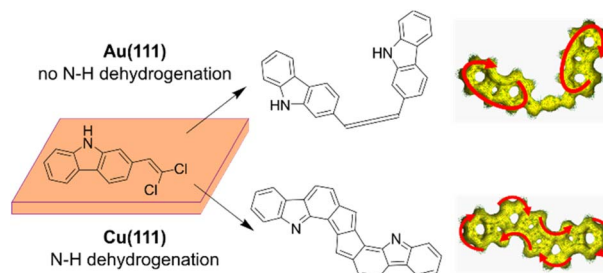
Shaojie Qin, Xinyi Zhang, Yi Zhang, Daiyu Miao, Wensheng Wei and Yu Bai*



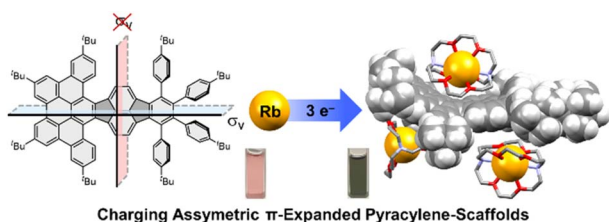
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Competing pathways to aromaticity governed by amine dehydrogenation and metal–organic complexation in on-surface synthesis

Andrés Lombana, Songpol Chaunchaiyakul, Olivier Chuzel,* Denis Hagebaum-Reignier, Jean-Luc Parrain,* Franck Bocquet, Laurent Nony, Christian Loppacher, Federica Bondino, Elena Magnano, Hiroshi Imada, Emiko Kazuma, Yousoo Kim, Luca Giovannelli* and Sylvain Clair*



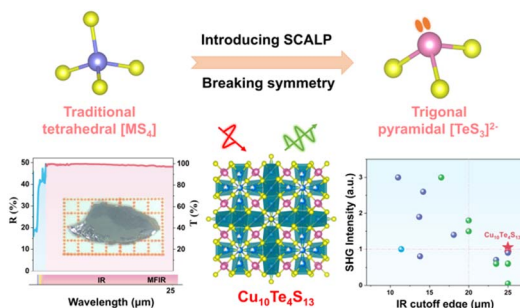
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Stepwise reduction of an asymmetric π -expanded pyracylene towards the crystalline radical trianion

Yikun Zhu, Jan Borstelmann, Christian Neiss, Zheng Wei, Andreas Göring, Milan Kivala* and Marina A. Petrukhina*

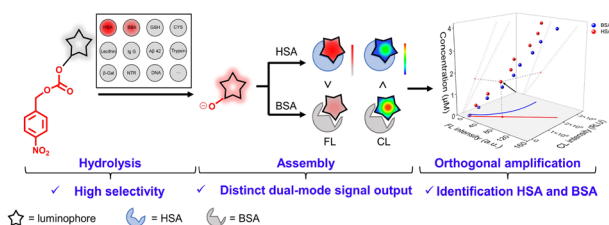
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Exploring new horizons in mid-to-far infrared nonlinear optical crystals: the significant potential of trigonal pyramidal $[TeS_3]^{2-}$ functional units

Bo Zhang, Sheng-Hua Zhou,* Bing-Xuan Li, Xin-Tao Wu, Hua Lin* and Qi-Long Zhu*

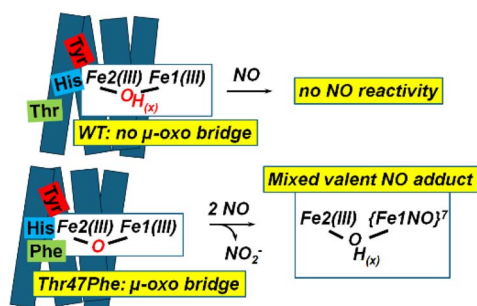
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A two-dimensional fluorescence and chemiluminescence orthogonal probe for discriminating and quantifying similar proteins

Juan Li, Xiuyan Zhao, Yutao Zhang,* Yao Lu, Haoyun Xue, Dan Li, Qiang Liu, Chenxu Yan, Weijie Chi, Xingqing Xiao,* Wei-Hong Zhu and Zhiqian Guo*

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A single outer-sphere amino-acid substitution turns on the NO reactivity of a hemerythrin-like protein

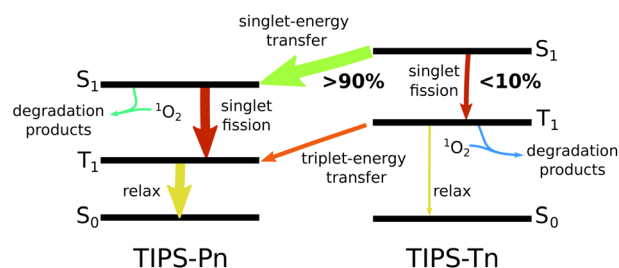
Therese Albert, Natasha Pence, Fangfang Zhong, Ekaterina V. Pletneva and Pierre Moënné-Loccoz*



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Photodegradation reveals that singlet energy transfer impedes energy-gradient-driven singlet fission in polyacene blends

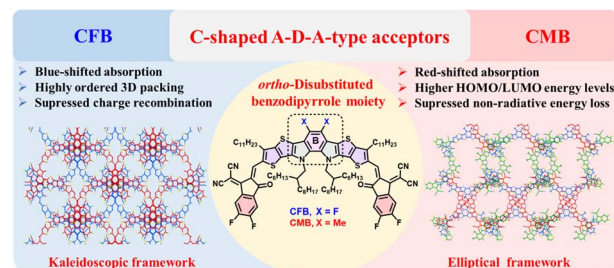
Alexandra N. Stuart,* Jessica M. de la Perrelle, David M. Huang* and Tak W. Kee*



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Fluorinated and methylated *ortho*-benzodipyrrole-based acceptors suppressing charge recombination and minimizing energy loss in organic photovoltaics

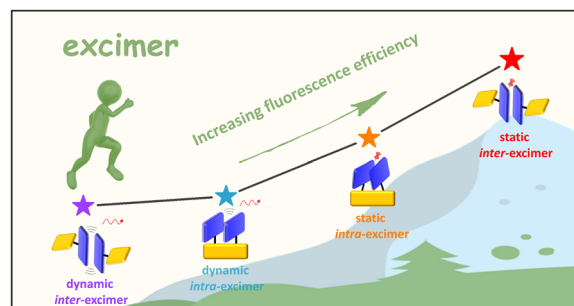
Yan-Bo Wang, Chia-Lin Tsai, Yung-Jing Xue, Bing-Huang Jiang, Han-Cheng Lu, Jun-Cheng Hong, Yu-Chi Huang, Kuo-Hsiu Huang, Su-Ying Chien, Chih-Ping Chen and Yen-Ju Cheng*



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A comparative investigation on excimer fluorescence toward its bright future

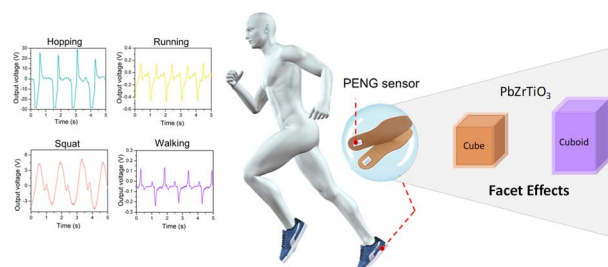
Shiyin Wang, Haichao Liu,* Shuaiqiang Zhao, Qiaolin Wu, Zhiqiang Yang, Daojie Yang, Yingbo Lv, Qing Su, Shi-Tong Zhang and Bing Yang*



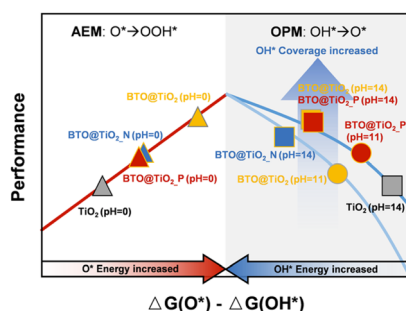
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Synthesis of shape-tunable PbZrTiO₃ nanocrystals with lattice variations for piezoelectric energy harvesting and human motion detection

Ya-Ju Chuang, Arnab Pal, Bo-Hao Chen, Satyaranjan Jena, Sreerag Suresh, Zong-Hong Lin* and Michael H. Huang*



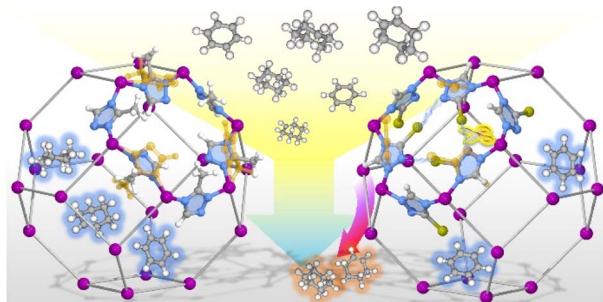
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Unravelling the pH-dependent mechanism of ferroelectric polarization on different dynamic pathways of photoelectrochemical water oxidation

Xing Ji, Zhouhao Zhu, Ming Zhou, Ying Zhang, Liyong Gan,^{*} Yunhuai Zhang^{*} and Peng Xiao^{*}

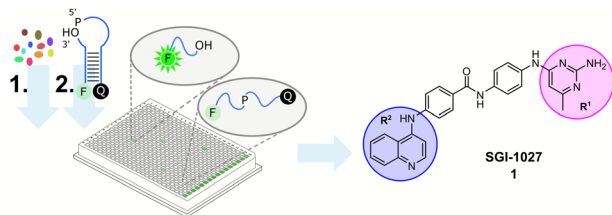
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Introducing halogen-bonded gates into zeolitic frameworks for efficient benzene/cyclohexene/cyclohexane separation

Zi-Jun Liang, Fang-Di Dong, Le Ye, Kai Zheng, Ding-Yi Hu, Xi Feng, Wen-Yu Su, Zhi-Shuo Wang, Mu-Yang Zhou, Zi-Luo Fang, Dong-Dong Zhou,^{*} Jie-Peng Zhang^{*} and Xiao-Ming Chen

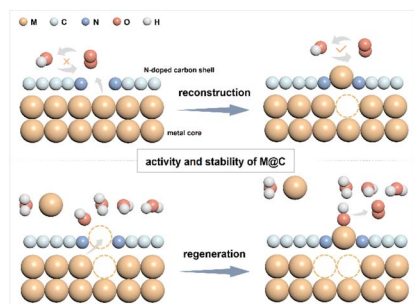
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Potent inhibitors of the human RNA ligase Rlig1 highlights its role in RNA integrity maintenance under oxidative cellular stress

Lisa A. Schlör, Maya Peußner, Silke Müller and Andreas Marx^{*}

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Activity and stability origin of core-shell catalysts: unignorable atomic diffusion behavior

Yuanyuan Xue, Letian Chen, Lijuan Zhang, Gengfeng Zheng,^{*} Xu Zhang^{*} and Zhen Zhou^{*}

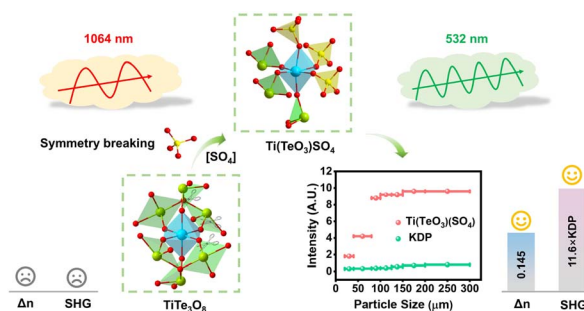


EDGE ARTICLES

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Different p-block elements induce $C_3[111]$ octahedral distortion in titanium to generate an intense nonlinear effect

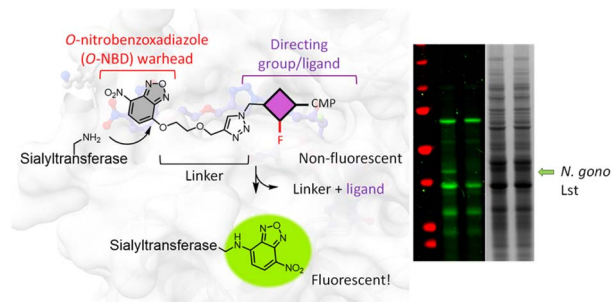
Zhenhua Li, Zhengli Liang, Jiahao Wan, Lehui Liu, Chunxiang Wu, Ping Wang, Xingxing Jiang,* Zheshuai Lin and Hongming Liu*



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Affinity-based covalent sialyltransferase probes enabled by ligand-directed chemistry

Jun Yang Ong, Erianna I. Alvarado-Melendez, Joshua C. L. Maliepaard, Karli R. Reiding and Tom Wennekes*



CORRECTION

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Correction: Peptide macrocyclisation via intramolecular interception of visible-light-mediated desulfurisation

Frances R. Smith, Declan Meehan, Rhys C. Griffiths, Harriet J. Knowles, Peiyu Zhang, Huw E. L. Williams, Andrew J. Wilson and Nicholas J. Mitchell*

