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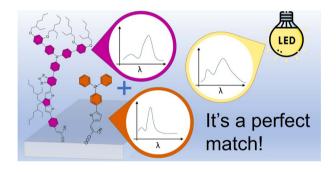
See Laurent Vial, Julien Leclaire et al., pp. 7126-7135. Image reproduced by permission of Laurent Vial from Chem. Sci., 2023, 14, 7126.

COMMENTARY

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A focus on sustainable energy management for selfpowered IoT devices via indoor photovoltaics

Pablo Docampo*



PERSPECTIVE

Fine tuning of electrosynthesis pathways by modulation of the electrolyte solvation structure

Florian Dorchies and Alexis Grimaud*

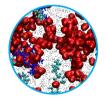
Electrochemical Interface

Double layer Hydrophilicity/hydrophobicity Substrate/product adsorptions



Bulk Electrolyte

Substrate/product solvations Hydrogen bonding Nanostructuring



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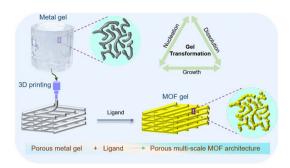
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Gel transformation as a general strategy for fabrication of highly porous multiscale MOF architectures

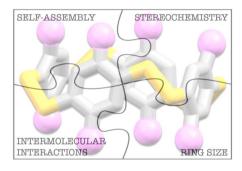
Zhang Liu, Javier Lopez Navas, Wei Han,* Manuel Ricardo Ibarra, Joseph Kai Cho Kwan and King Lun Yeung*



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Self-assembly of achiral building blocks into chiral cyclophanes using non-directional interactions

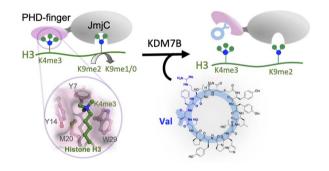
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Cyclic peptides target the aromatic cage of a PHDfinger reader domain to modulate epigenetic protein function

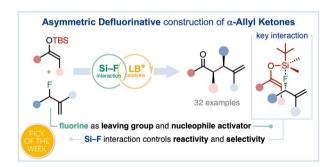
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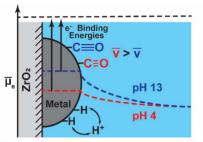
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Catalytic asymmetric defluorinative allylation of silyl enol ethers

Jordi Duran, Javier Mateos, Albert Moyano and Xavier Companyó*



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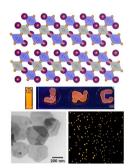


IR & AP-XPS Reveal Spontaneous Polarization

Metal nanoparticles supported on a nonconductive oxide undergo pH-dependent spontaneous polarization

Thejas S. Wesley, Max J. Hülsey, Karl S. Westendorff, Noah B. Lewis, Ethan J. Crumlin,* Yuriy Román-Leshkov* and Yogesh Surendranath*

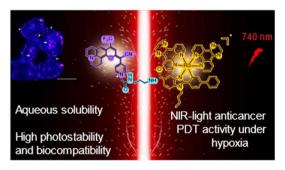
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2D nanosheets of layered double perovskites: synthesis, photostable bright orange emission and photoluminescence blinking

Aditya Bhardwaj, Kaushik Kundu, Ranjan Sasmal, Paribesh Acharyya, Jayita Pradhan, Simanta Kalita, Sarit S. Agasti* and Kanishka Biswas*

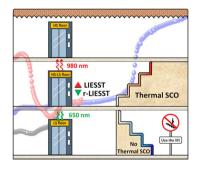
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A near-infrared light-activatable Ru(II)-coumarin photosensitizer active under hypoxic conditions

Enrique Ortega-Forte, Anna Rovira, Marta López-Corrales, Alba Hernández-García, Francisco José Ballester, Eduardo Izquierdo-García, Mireia Jordà-Redondo, Manel Bosch, Santi Nonell, María Dolores Santana, José Ruiz,* Vicente Marchán* and Gilles Gasser*

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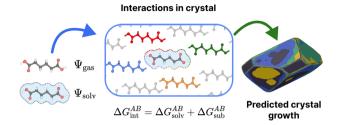
Bidirectional photoswitchability in an iron(III) spin crossover complex: symmetry-breaking and solvent effects

Raúl Díaz-Torres, Guillaume Chastanet, Eric Collet, Elzbieta Trzop, Phimphaka Harding* and David J. Harding*

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CrystalClear: an open, modular protocol for predicting molecular crystal growth from solution

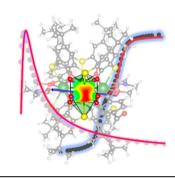
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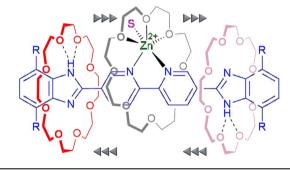
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A translationally active ligand based on a [2]rotaxane molecular shuttle with a 2,2'-bipyridyl core

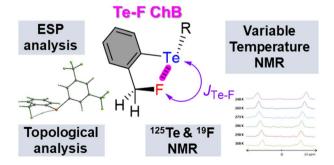
Ayan Dhara, Anton Dmitrienko, Rahaf N. Hussein, Ariel Sotomayor, Benjamin H. Wilson and Stephen J. Loeb*



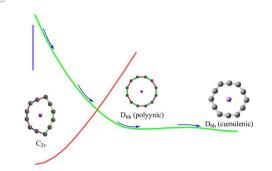
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Evidence for and evaluation of fluorine-tellurium chalcogen bonding

Robin Weiss, Emmanuel Aubert, Loic Groslambert, Patrick Pale* and Victor Mamane*



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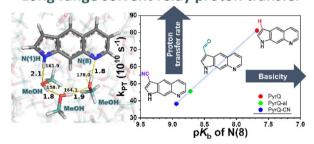


Can anions possess bound doubly-excited electronic states?

Shi-Jie Hou, Yi-Fan Yang,* Zhong-hua Cui* and Lorenz S. Cederbaum*

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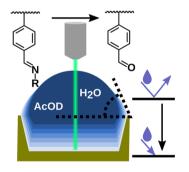
Long range solvent relay proton transfer



Long-range hydrogen-bond relay catalyses the excited-state proton transfer reaction

Kai-Hsin Chang, Yu-Chiang Peng, Kuan-Hsuan Su, Yi-Hsien Lin, Jiun-Chi Liu, Ying-Hsuan Liu, Chao-Hsien Hsu, Hsiao-Ching Yang* and Pi-Tai Chou*

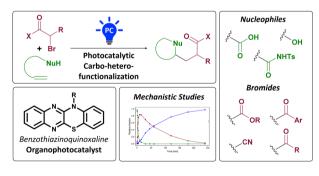
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Molecular *in situ* monitoring of the pH-triggered response in adaptive polymers by two-dimensional Raman micro-correlation-spectroscopy

Julian Hniopek, Josefine Meurer, Stefan Zechel, Michael Schmitt, Martin D. Hager* and Jürgen Popp*

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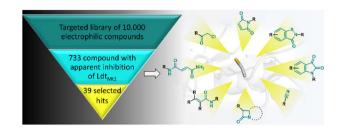
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David M. Fischer, Manuel Freis, Willi M. Amberg, Henry Lindner and Erick M. Carreira*

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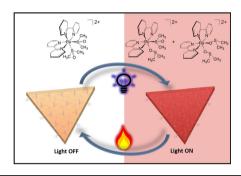
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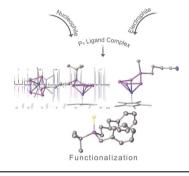
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Controlled introduction of functional groups at one P atom in $[Cp*Fe(\eta^5-P_5)]$ and release of functionalised phosphines

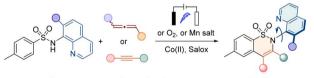
Stephan Reichl, Felix Riedlberger, Martin Piesch, Gábor Balázs, Michael Seidl and Manfred Scheer*



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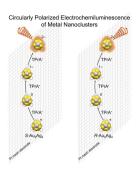
Cobalt-catalyzed enantioselective C-H/N-H annulation of aryl sulfonamides with allenes or alkynes: facile access to C-N axially chiral sultams

Xiao-Ju Si, Xiaofang Zhao, Jianli Wang, Xinhai Wang, Yuanshuo Zhang, Dandan Yang,* Mao-Ping Song and Jun-Long Niu*



- ♦ simple Co^{II}/Salox system
 electrochemistry
 C-H activation of sulfonamides
- · compatibility of allenes and alkynes ◆ 121 examples

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Bright near-infrared circularly polarized electrochemiluminescence from Au₉Ag₄ nanoclusters

Lirong Jiang, Mengmeng Jing, Bing Yin, Wenjun Du, Xiaojian Wang, Ying Liu, Shuang Chen* and Manzhou Zhu*

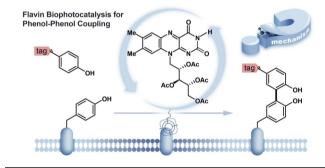
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pH-tunable membrane-active polymers, NCMNP2a-x, and their potential membrane protein applications

Thi Kim Hoang Trinh, Andres Jorge Cabezas, Soumil Joshi, Claudio Catalano, Abu Bakkar Siddique, Weihua Qiu, Sanket Deshmukh, Amedee des Georges and Youzhong Guo*

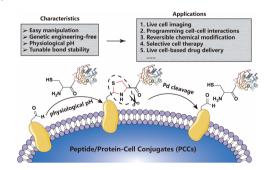
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Targeted proximity-labelling of protein tyrosines *via* flavin-dependent photoredox catalysis with mechanistic evidence for a radical-radical recombination pathway

Taylor O. Hope, Tamara Reyes-Robles, Keun Ah Ryu, Steven Mauries, Nicole Removski, Jacinthe Maisonneuve, Rob C. Oslund,* Olugbeminiyi O. Fadeyi* and Mathieu Frenette*

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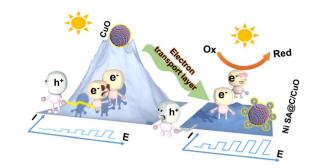
Catalyst-free thiazolidine formation chemistry enables the facile construction of peptide/protein—cell conjugates (PCCs) at physiological pH

Xiangguan Liu, Youyu Wang, Bangce Ye* and Xiaobao Bi*

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Engineering the microenvironment of electron transport layers with nickle single-atom sites for boosting photoelectrochemical performance

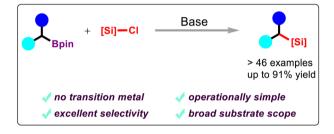
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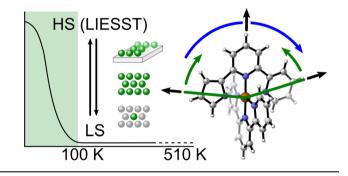
Man Tang, Wenyan Zhu, Huaxing Sun, Jing Wang, Su Jing,* Minyan Wang,* Zhuangzhi Shi and Jiefeng Hu*



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Defying the inverse energy gap law: a vacuumevaporable Fe(II) low-spin complex with a long-lived LIESST state

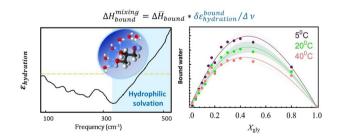
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Local solvation structures govern the mixing thermodynamics of glycerol-water solutions

Debasish Das Mahanta, Dennis Robinson Brown, Simone Pezzotti, Songi Han, Gerhard Schwaab, M. Scott Shell* and Martina Havenith*



CORRECTION

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Correction: The influence of chirality on the behavior of oligonucleotides inside cells: revealing the potent cytotoxicity of G-rich L-RNA

Chen-Hsu Yu and Jonathan T. Sczepanski*