

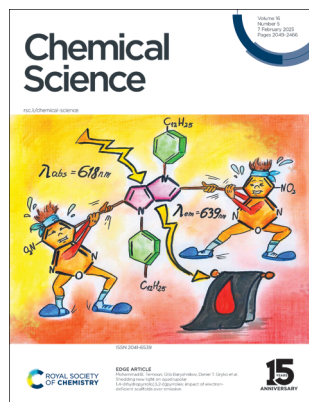
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See Mohammad B. Teimouri, Glib Baryshnikov, Daniel T. Gryko *et al.*, pp. 2170–2179. Image reproduced by permission of Daniel T. Gryko from *Chem. Sci.*, 2025, **16**, 2170. Image created by Dominika Bednarska.



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PERSPECTIVES

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The influential IPr: 25 years after its discovery

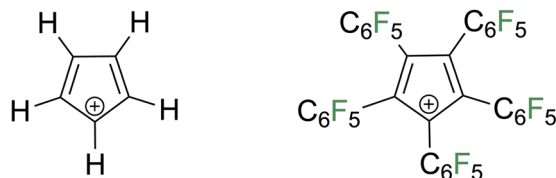
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Sameera Ranasinghe, Caleb D. Martin* and Jason L. Dutton*



A 99 year journey from observation to isolation



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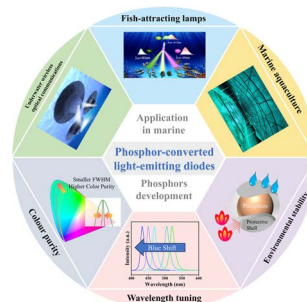
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Fundamental questions
Elemental answers

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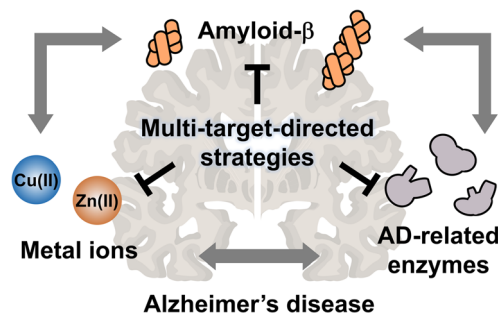
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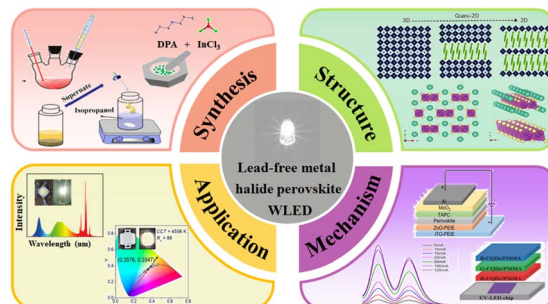
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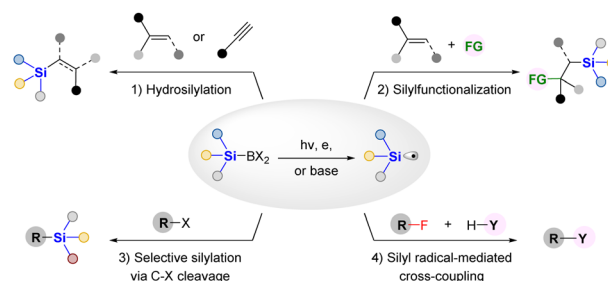
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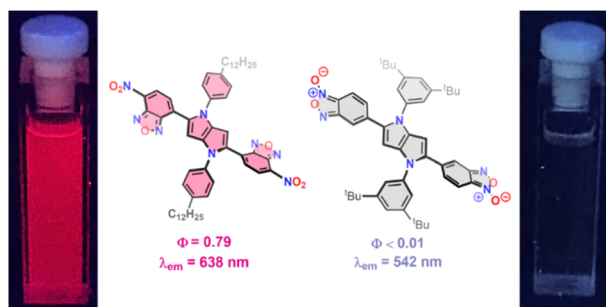
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Recent advances and perspectives in synthetic applications of silylboronates as silyl radical precursors

Zhihua Cai, Qing-Qing Bu, Xi-Yu Wang, Shengchao Yang,* Jian Zhou and Jin-Sheng Yu*



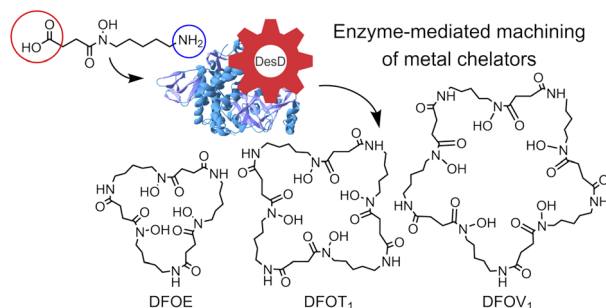
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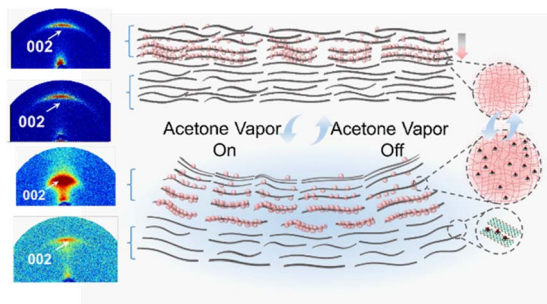
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An elastic siderophore synthetase and rubbery substrates assemble multimeric linear and macrocyclic hydroxamic acid metal chelators

Kate P. Nolan, Callum A. Rosser, James L. Wood, Josep Font, Athavan Sresutharsan, Joseph Wang, Todd E. Markham, Renae M. Ryan and Rachel Codd*

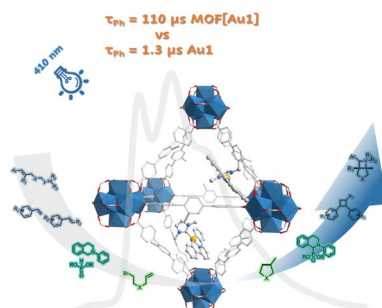
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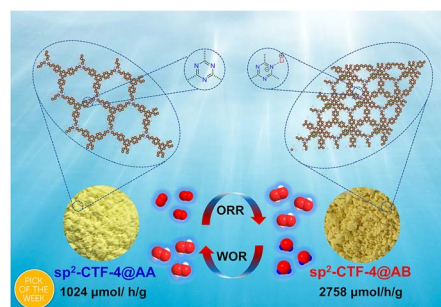
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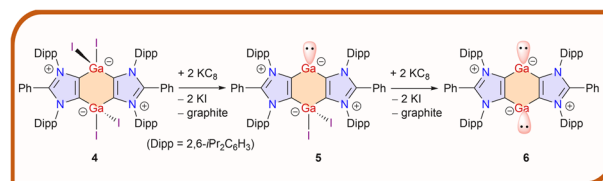
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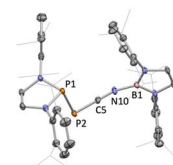
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Metathesis chemistry of inorganic cumulenes driven by B–O bond formation

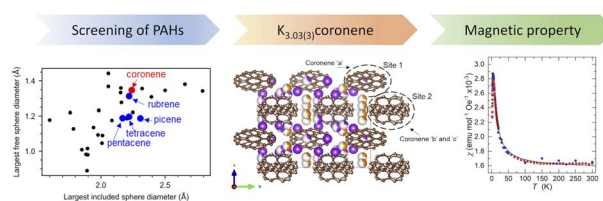
Jianqin Tang, Chenyang Hu, Agamemnon E. Crumpton, Liam P. Griffin, Jose M. Goicoechea* and Simon Aldridge*



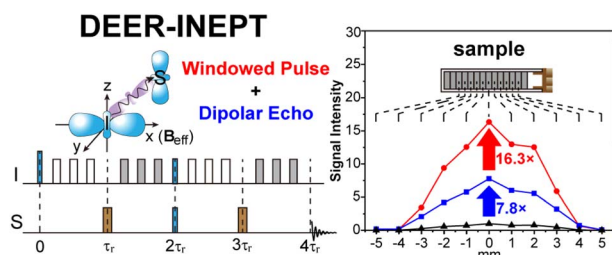
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Multiple cation insertion into a polyaromatic hydrocarbon guided by data and computation

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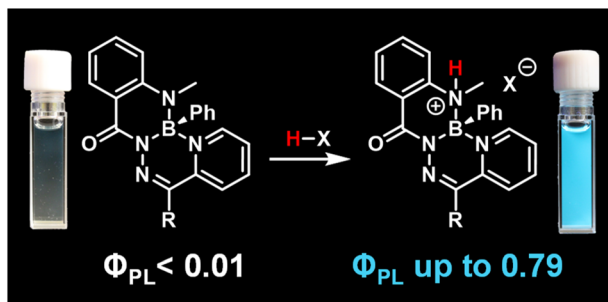
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Highly efficient heteronuclear polarization transfer using dipolar-echo edited R-symmetry sequences in solid-state NMR

Lixin Liang, Kuizhi Chen and Guangjin Hou*

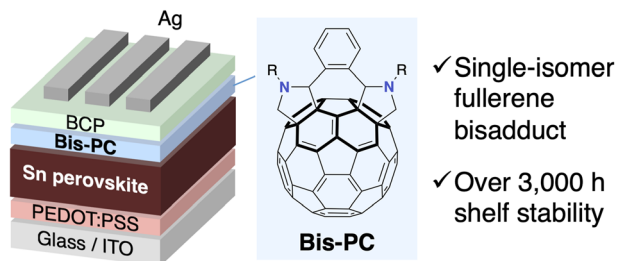
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Ligand protonation leads to highly fluorescent boronium cations

Alexander E. R. Watson, Paul D. Boyle, Paul J. Ragogna* and Joe B. Gilroy*

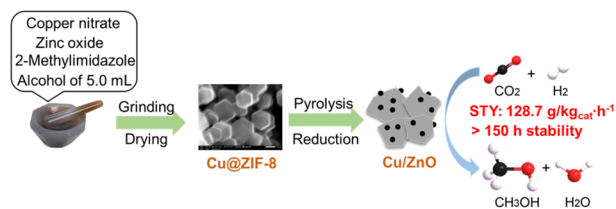
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Single-isomer bis(pyrrolidino)fullerenes as electron-transporting materials for tin halide perovskite solar cells

Tomoya Nakamura,* Takabumi Nagai, Yuki Miyake, Takumi Yamada, Makoto Miura, Hiroyuki Yoshida, Yoshihiko Kanemitsu, Minh Anh Truong, Richard Murdey and Atsushi Wakamiya*

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Fast synthesis of Cu@zeolitic imidazolate framework-8 (ZIF-8) derived Cu/ZnO catalysts via a facile mechanical grinding method for CO₂ hydrogenation to methanol

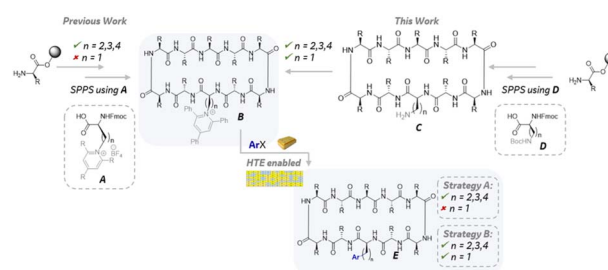
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Late-stage installation and functionalization of alkyl pyridiniums: a general HTE amenable strategy to access diverse aryl alanine containing macrocyclic peptides

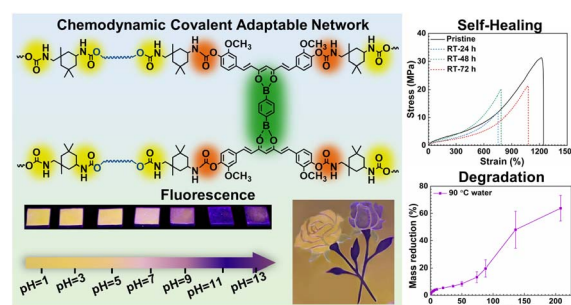
Ahmet Kecec,* Lauren My-Linh Tran, Christopher W. Plummer and Dipannita Kalyani*



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Chemodynamic covalent adaptable network-induced robust, self-healing, and degradable fluorescent elastomers for multicolor information encryption

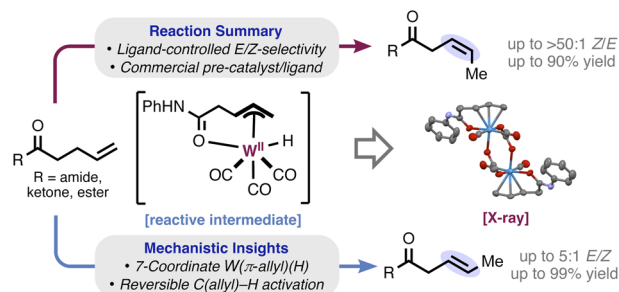
Changyang Li, Xing Su,* Chuanbao Cao, Xiaodong Li and Meishuai Zou*



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Tungsten-catalyzed stereodivergent isomerization of terminal olefins

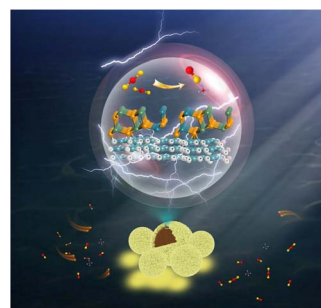
Tanner C. Jenkins, Camille Z. Rubel, Hang Chi Ho, Raul Martin-Montero and Keary M. Engle*



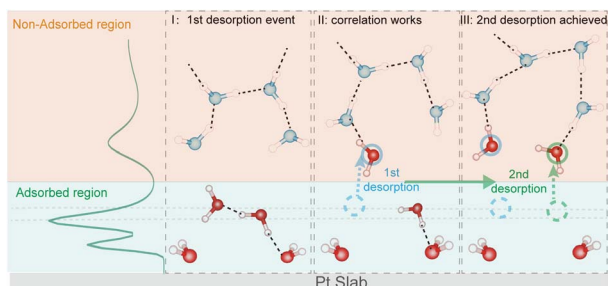
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Hollow core-shell heterojunction TAPB-COF@ZnIn₂S₄ as highly efficient photocatalysts for carbon dioxide reduction

Huitao Fan,* Minglin Hu, Yabing Duan, Luyang Zuo, Ronggui Yu, Zhuwei Li, Qi Liu, Bo Li* and Liya Wang



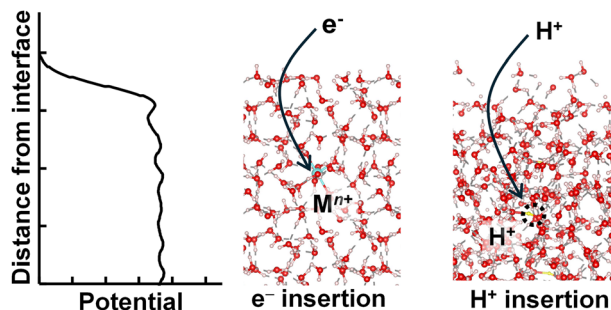
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Spatial correlation of desorption events accelerates water exchange dynamics at Pt/water interfaces

Fei-Teng Wang, Jia-Xin Zhu, Chang Liu, Ke Xiong, Xiandong Liu* and Jun Cheng*

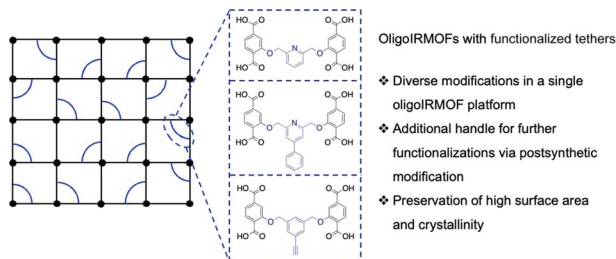
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Absolute standard hydrogen electrode potential and redox potentials of atoms and molecules: machine learning aided first principles calculations

Ryosuke Jinnouchi,* Ferenc Karsai and Georg Kresse

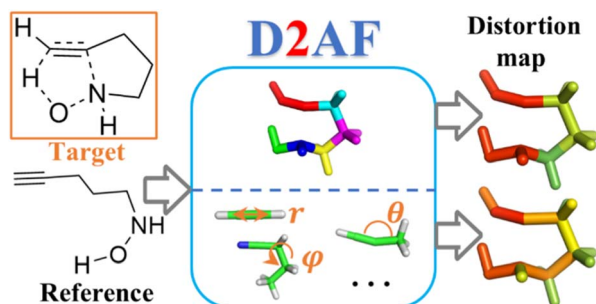
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Metal-organic frameworks generated from oligomeric ligands with functionalized tethers

Hyunyoung Kim and Seth M. Cohen*

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An efficient and flexible approach for local distortion: distortion distribution analysis enabled by fragmentation

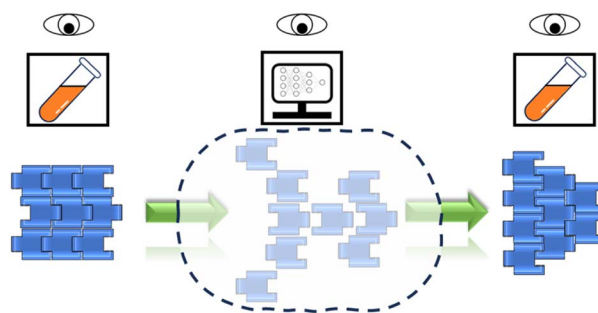
Zeyin Yan, Yunteng Sam Liao, Xin Li and Lung Wa Chung*



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A machine learned potential for investigating single crystal to single crystal transformations in complex organic molecular systems

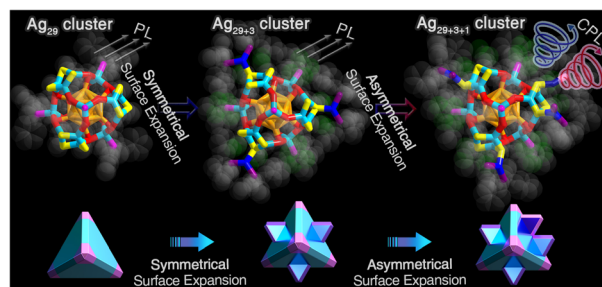
Chengxi Zhao,* Honglai Liu, Da-Hui Qu, Andrew I. Cooper and Linjiang Chen*



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Symmetrical and asymmetrical surface structure expansions of silver nanoclusters with atomic precision

Honglei Shen, Pu Wang, Jiawei Xu, Ziwei Fu, Xi Kang,* Yong Pei* and Manzhou Zhu*

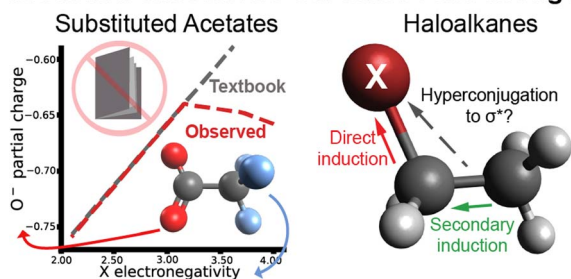


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The inductive effect does not explain electron density in haloacetates: are our textbooks wrong?

Edwin C. Johnson,* Kasimir P. Gregory, Hayden Robertson, Isaac J. Gresham, Andrew R. J. Nelson, Vincent S. J. Craig, Stuart W. Prescott, Alister J. Page, Grant B. Webber and Erica J. Wanless

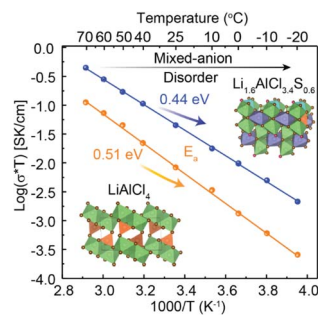
Induction effects: Are our text books wrong?



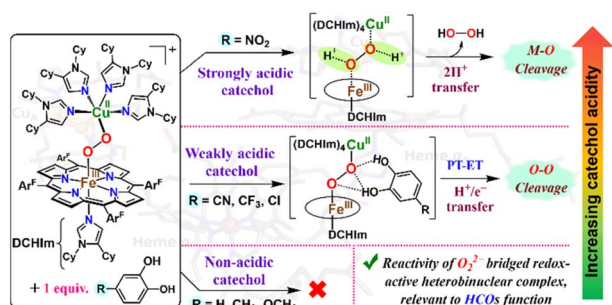
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Li_{1.6}AlCl_{3.4}S_{0.6}: a low-cost and high-performance solid electrolyte for solid-state batteries

Tej P. Poudel, Ifeoluwa P. Oyekunle, Michael J. Deck, Yudan Chen, Dewen Hou, Pawan K. Ojha, Bright O. Ogbolu, Chen Huang, Hui Xiong and Yan-Yan Hu*



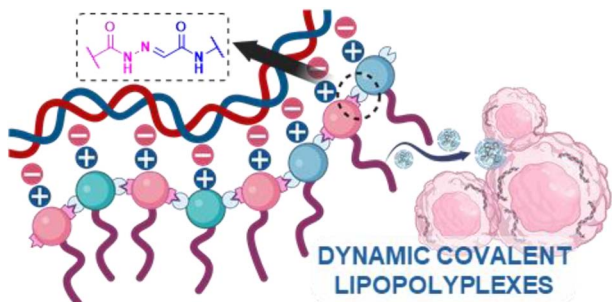
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Reactivity of a heterobinuclear heme-peroxo-Cu complex with *para*-substituted catechols shows a $\text{p}K_a$ -dependent change in mechanism

Sanjib Panda, Suzanne M. Adam, Hai Phan, Patrick J. Rogler, Pradip Kumar Hota, Joshua R. Helms, Brad S. Pierce, Gayan B. Wijeratne* and Kenneth D. Karlin*

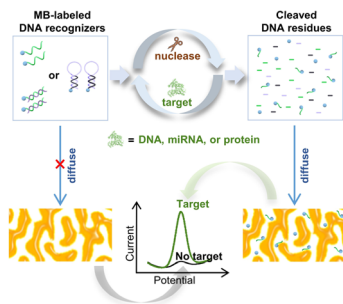
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Amphiphilic dynamic covalent polymer vectors of siRNA

José García Coll, Pauline Trousselier, Sachin Datram Pawar, Yannick Bessin, Laure Lichon, Jeanne Leblond Chain, Emmanuelle Sachon,* Nadir Bettache* and Sébastien Ulrich*

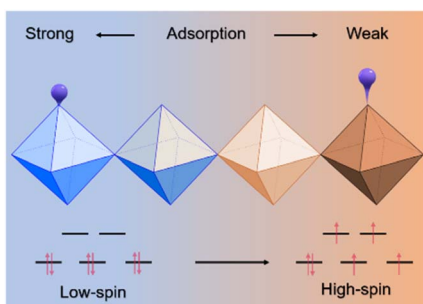
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Exploring the diffusion of DNA strands into nanoporous structures for establishing a universal electrochemical biosensor

Cong-Lin Zhao, Runlei Gao, Yinzhen Niu, Bin Cai* and Ye Zhu*

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Spin effects in regulating the adsorption characteristics of metal ions

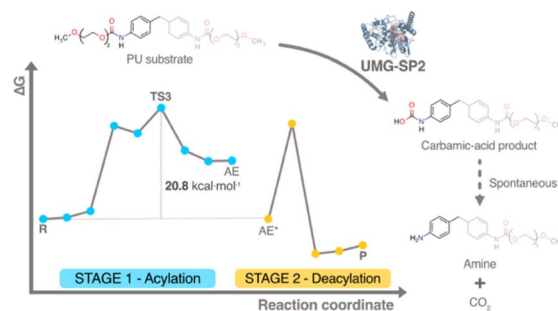
Cunyuan Gao, Shiyu Zhen, Yutong Wang, Lingwei Wang, Yang Cao, Jinhua Zhan, Liang Zhang* and Bin Cai*



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Unveiling the enzymatic pathway of UMG-SP2 urethanase: insights into polyurethane degradation at the atomic level

P. Paiva, L. M. C. Teixeira, R. Wei, W. Liu, G. Weber, J. P. Morth, P. Westh, A. R. Petersen, M. B. Johansen, A. Sommerfeldt, A. Sandahl, D. E. Otzen, P. A. Fernandes and M. J. Ramos*



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Catalysis of a LiF-rich SEI by aromatic structure modified porous polyamine for stable all-solid-state lithium metal batteries

Lijie Dai, Min Cai, Xuanyi Zhou, Weizhong Liang, Zishao Zhao, Zixiang Xia, Fenfen Huang, Jie Jiang,* Wenjuan Jiang,* Biao Zhang* and Zengsheng Ma

