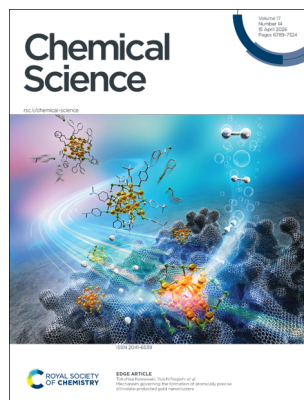


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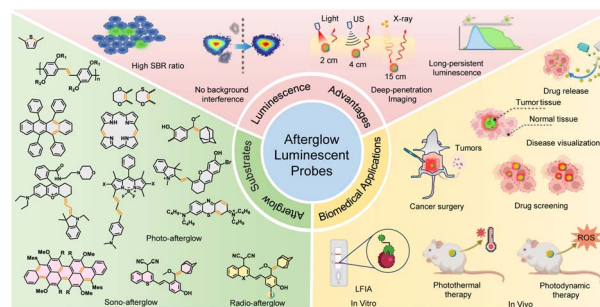
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PERSPECTIVES

6805

Deep excitation afterglow luminescent probes for biomedical applications

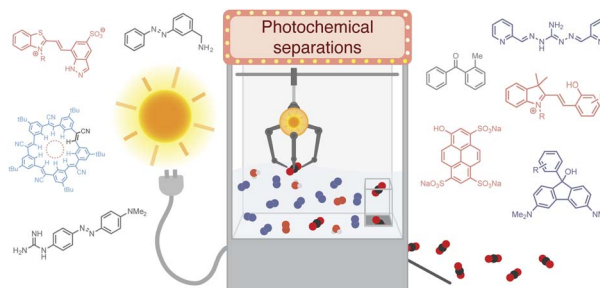
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6835

Organic photochemistry for direct light-driven separations

Ariel Y. Wang, Bayu I. Z. Ahmad, Carolyn Ma, Phillip J. Milner* and Richard Y. Liu*



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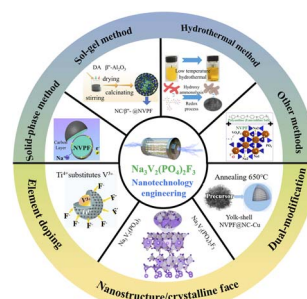
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REVIEWS

6848

Nanotechnology engineering of polyanionic $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ cathodes toward high-performance sodium-ion batteries

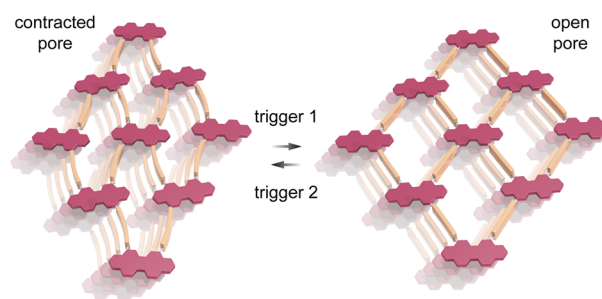
Jiahao Chen, Xingjie Wu, Zhiyong Luo, Xinxian Ren, Junhao Chen, Minjie Chen, Chunliu Xu,* Yao Xiao* and Weiqing Yang*



6883

Dynamic covalent organic frameworks

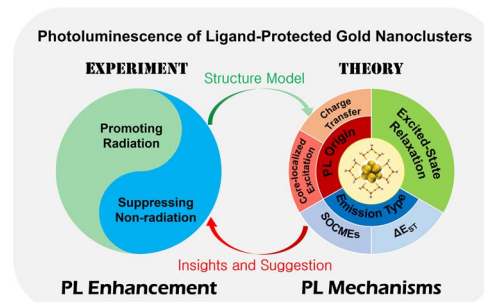
Ling Zhang and Florian Auras*



6907

Photoluminescence of ligand-protected gold nanoclusters: progress in experimental and theoretical studies

Kang Li, Pu Wang* and Yong Pei*

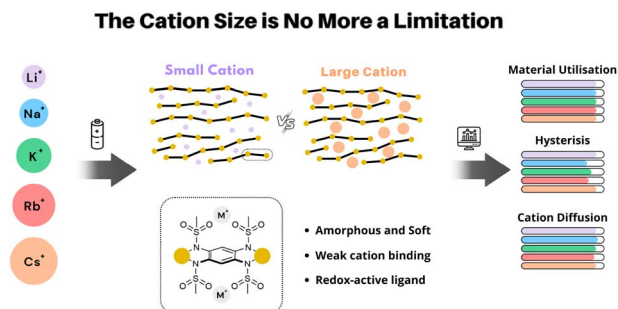


EDGE ARTICLES

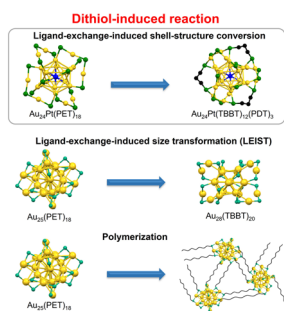
6924

Decoupling ion size from electrochemistry: cation-size-independent accommodation of Li^+ to Cs^+ in an amorphous sulfonamide coordination polymer

Robert Markowski, Darsi Rambabu, Augustin Ramackers and Alexandru Vlad*



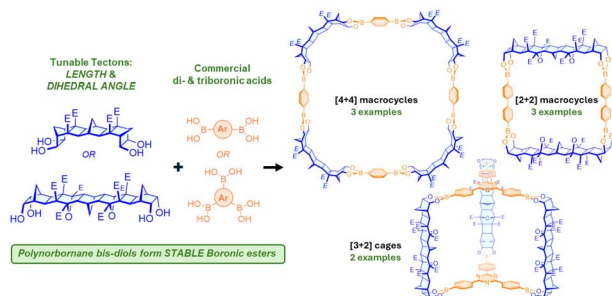
6931



Mechanism governing the formation of atomically precise dithiolate-protected gold nanoclusters

Sara Yoshikawa, Tokuhiwa Kawawaki,* Sakiat Hossain and Yuichi Negishi*

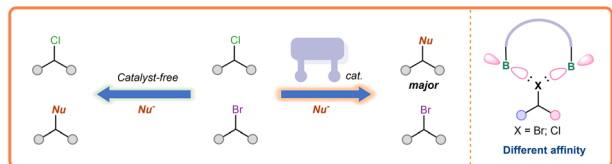
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A new class of customisable stable boronic ester assemblies

D. Coomber, O. Rusli, H. Sharma, H. E. Lee, J. D. Evans, N. J. Rijs, C. Hua and F. Pfeffer*

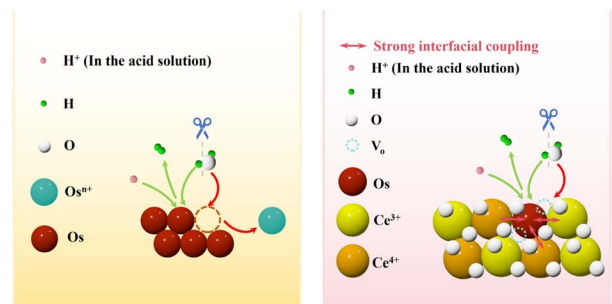
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Modulating halide leaving-group trends through recognition by bisboranes

Tong-Tong Liu, Xiao-Wen Li, Yun-Shu Cui, Zi-Hao Deng, Feng Liu,* Dan-Dan Zhai* and Zhang-Jie Shi*

6956



Atomic-level interface engineering enables efficient and durable acidic hydrogen evolution of osmium at large current densities

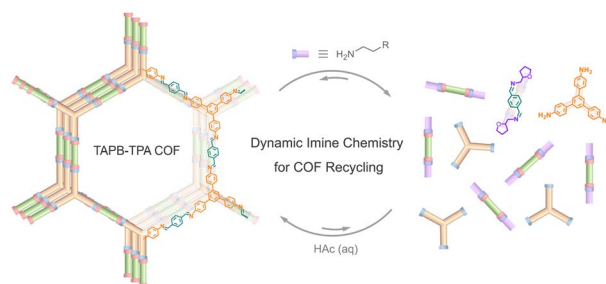
Qianyi Lin, Jun Yu,* Mansheng Liao, Weidong Liang, Yayun Hong, Huiqi Li, Zhongxin Song and Lei Zhang*



6964

Chemical recycling of imine-linked covalent organic frameworks

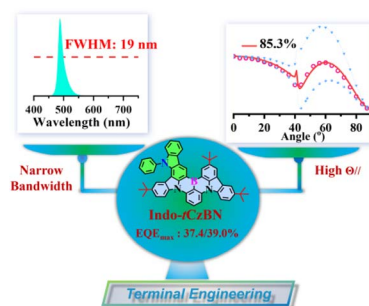
Yimiao Jing, Jie Wang, Yu Fang and Zhongshan Liu*



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Single-B/N MR-TADF emitters enhancing electroluminescence efficiency via a "terminal engineering" strategy

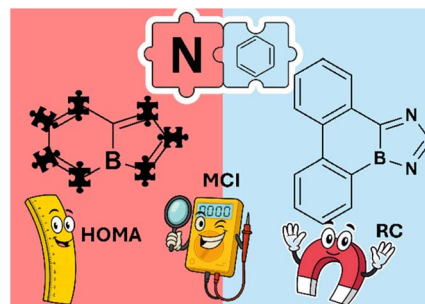
Hengxuan Qi, Hao Liu, Deli Li, Lin Wu,* Jiasen Zhang, Huaxin Li, Ziru Xin, Chao Xia, Ruixiang Peng,* Wenjun Wang, Zujin Zhao,* Wei Li* and Ziyi Ge*



6983

Taming boroloborinines: toward photostable polycyclic antiaromatic hydrocarbons

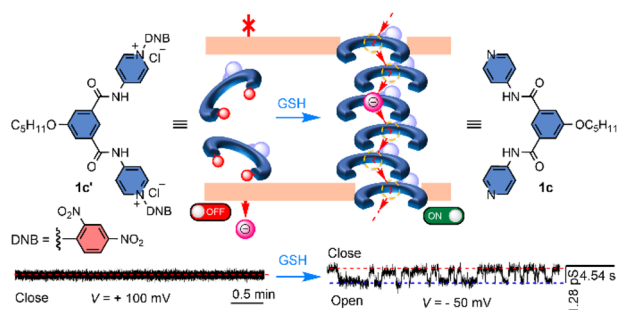
Muhammad Yasir Mehboob, Minu Sheeja, Mahdi Sasar and Cina Foroutan-Nejad*



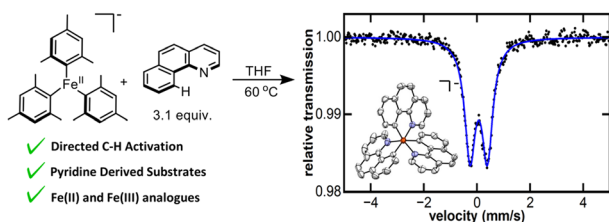
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Glutathione-activatable synthetic channel for hopping-mediated anion transport

Sandip Chattopadhyay, Debraj Ganguly, Triveni Sodnawar and Pinaki Talukdar*



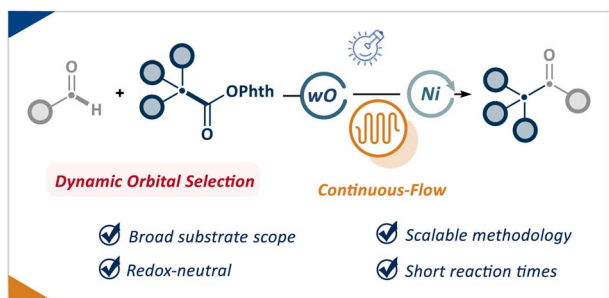
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Iron tris-mesityl: a homoleptic iron(II) ferrate species for directed C–H activation

Aleksa Radović, Maria C. Healy, Arnadeep Datta, Deborshee Das, Likun Cai, Steven Diaz, Achyut Ranjan Gogoi, Nikki J. Wolford, Stephanie H. Carpenter, William W. Brennessel, David McCamant,* Osvaldo Gutierrez* and Michael L. Neidig*

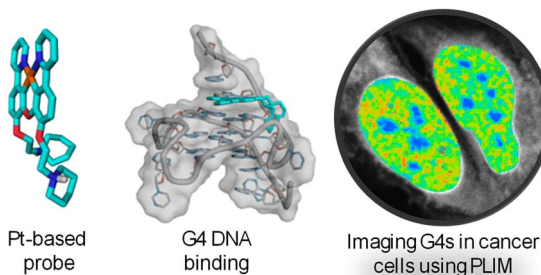
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Continuous flow unlocks modular ketones assembly enabled by dynamic orbital selection

Jiayin Wang, Shuangshuang Zhou, Xinyao Hu, Siyu Pan, Xiaohui Zhuang, Jie Li, Rongbo Tang, Yuanyuan Xie, Bin Sun* and Can Jin*

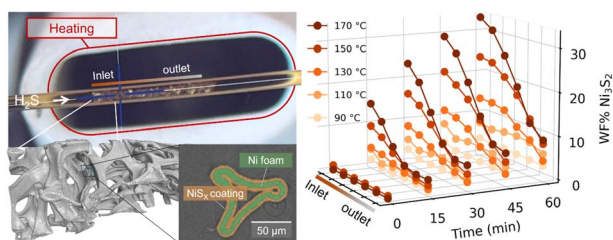
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Platinum-based phosphorescent lifetime probes for the visualisation of G-quadruplex DNA in cells

Adinarayana Bellamkonda, Petr S. Sherin, Timothy Kench, Marina K. Kuimova* and Ramon Vilar*

7027



In situ X-ray diffraction investigation of NiS_x-formation on Ni-foam using chemical vapor deposition with H₂S

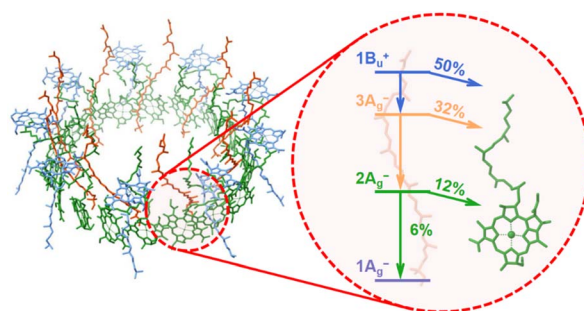
Soffi Ester Sola Olesen, Magnus Kløve, Anders Bæk Borup, Andreas Dueholm Bertelsen, Marcus Viktor Kragh-Schwarz, Thorbjørn Erik Køppen Christensen, Frederik Holm Gjørup, Mads Ry Vogel Jørgensen, Jacopo Catalano,* Anders W. Jensen and Bo B. Iversen*



7037

Dynamic-structural-distortion of spheroidene activates a hidden $3A_g^-$ state mediating carotenoid-to-bacteriochlorophyll energy transfer in a light-harvesting 2 complex

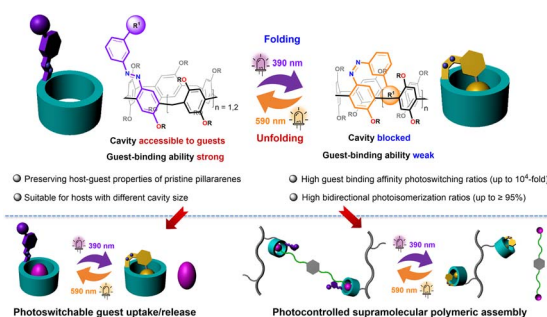
Bo Peng, Mingqing Chen, Tengfei Ma, Yifan Huang, Peng Wang* and Weimin Liu*



7047

Upgrading pillar[n]arenes to reversible photocontrolled self-folding hosts for photoswitchable guest uptake/release and self-assembly

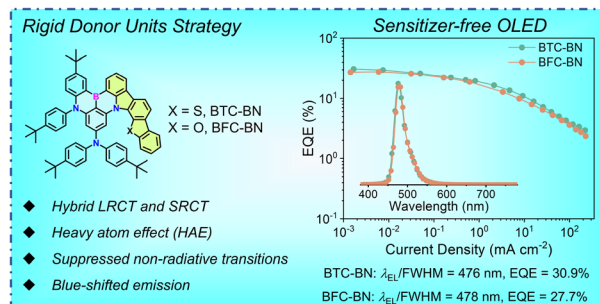
Ao-Ran Liu, Wen-Ping Gong, Qi Jin, Tian-Guang Zhan,* Yu Hai,* Li-Juan Liu and Kang-Da Zhang*



7056

A rigid donor unit strategy enables highly efficient narrowband blue multi-resonance thermally activated delayed fluorescence emitters

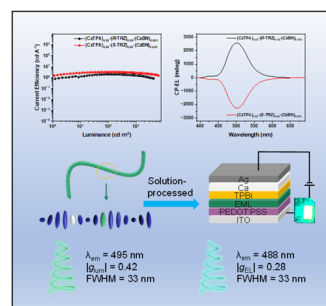
Deli Li,* Simin Jiang, Qingchao Liu, Ruizhe Xu, Guo-Xi Yang, Wei Li,* Shi-Jian Su* and Xuchuan Jiang*



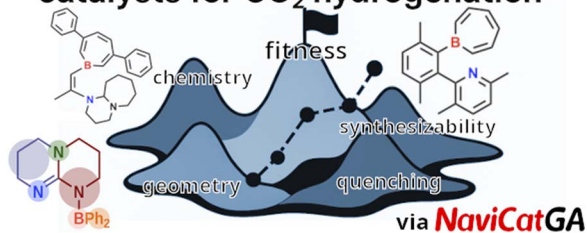
7064

A chiral co-assembled exciplex host achieved extremely outstanding narrowband circularly polarized electroluminescence

Chao Liu, Jun Zeng, Zhenhao Jiang, Yihan Chen,* Junsheng Zhang* and Yixiang Cheng*

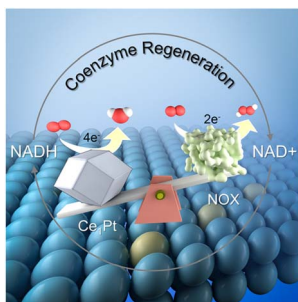


7071

Genetic optimization of FLP catalysts for CO₂ hydrogenationInverse design of frustrated Lewis pairs for direct catalytic CO₂ hydrogenation: refining and expanding design rules

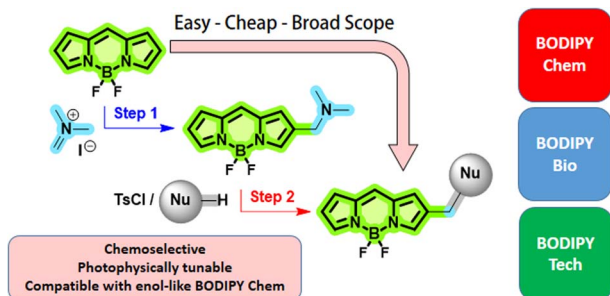
Shubhajit Das, Ruben Laplaza, Thanapat Worakul and Cl  mence Corminboeuf*

7082

Atomic Ce sites promote a four-electron pathway of Pt as NADH oxidase mimics for *in situ* coenzyme regeneration

Yinjun Tang, Yifei Chen, Pengcheng Qi, Ruimin Li, Wenxuan Jiang, Hongcheng Sun, Wenling Gu and Chengzhou Zhu*

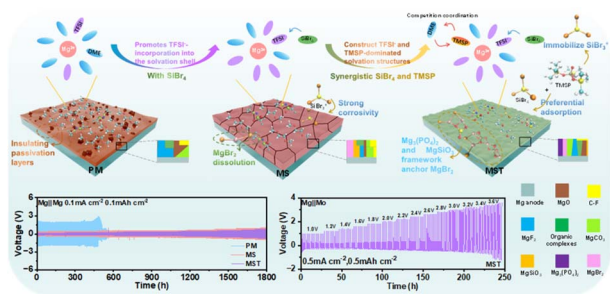
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Pushing the boundaries of BODIPY chemistry: 2-(dimethylamino)methyl BODIPYs as enablers of diversification with nucleophiles

Sergio Serrano-Buitrago, Carla Marcos, Natalia Casado, Andrea Aranda, Florencio Moreno, Jorge Ba  uelos, David Valdivieso Gonz  lez, Iv  n L  pez-Montero, Beatriz L. Maroto* and Santiago de la Moya*

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Synergistic halide and phosphate ester electrolytes for overcoming corrosion and interfacial challenges in magnesium batteries

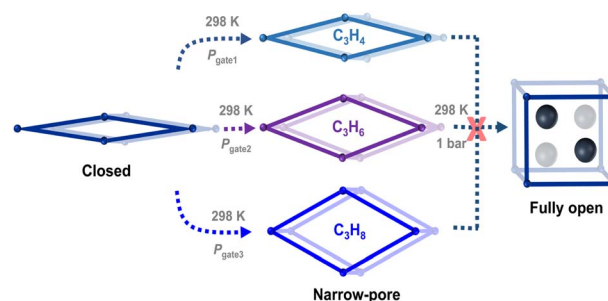
Xuerui Yang,* Yuqi Zhou, Junkun Zhou, Xuan Huang, Xin Ao, Guangni Ding, Xiaowei Huang, Naigen Zhou,* Guanglei Cui* and Yong Yang*



7115

Crystallographic visualization of C₃-hydrocarbon-induced structural transformation and guest encapsulation within a flexible coordination network

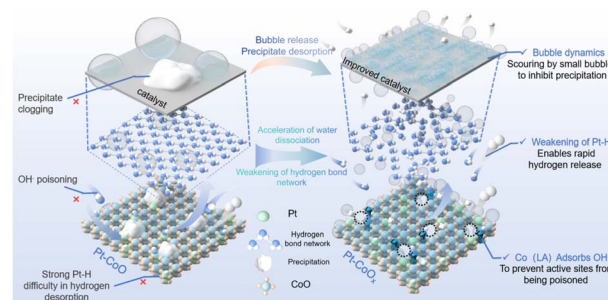
Shao-Jie Qin, Mohana Shivanna, Mei-Yan Gao, Cheng-Hua Deng, Shi-Qiang Wang, Dan Li, Shao-Dan Fu, Shuai Qiu, Bai-Qiao Song* and Qing-Yuan Yang*



7125

Stimulating the Lewis acidity of Pt–O–Co bridges via vacancy engineering for efficient hydrogen evolution in seawater

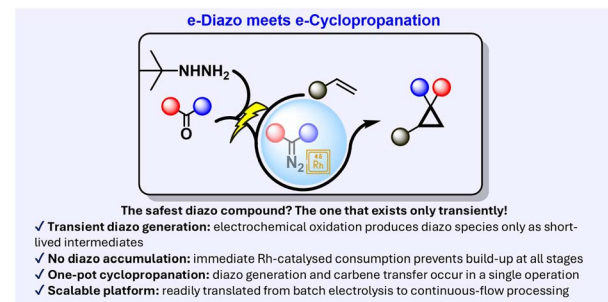
Mengyue Gao, Junfeng Qin,* Rui Zhang, Xu Liu, Yuxin Liu, Yuxin Zhang, Long Song, Jingyi Xie, Jingqi Chi,* Xiaobin Liu* and Lei Wang*



7135

eCyclopropanation – a safe and scalable electrochemical route to cyclopropanes

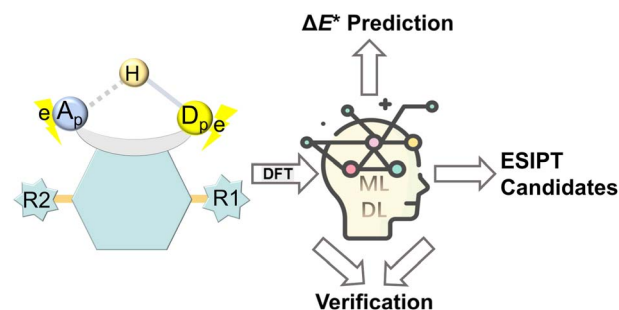
Jamie M. Walsh, Marco Galzignato, Shusuke Hattori, Marylise Triacca and Kevin Lam*



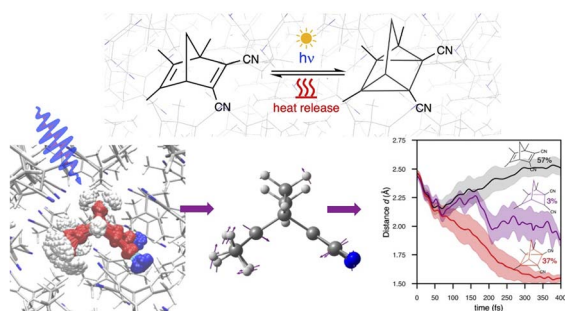
7146

Unveiling key descriptors via machine learning: toward rational molecular design of chromophores with excited-state intramolecular proton transfer

Shengsheng Wei, Zipeng Yang, Chao Yang, Hongmei Zhao, Yang Li, Yuanyuan Guo, Andong Xia* and Zhuoran Kuang*



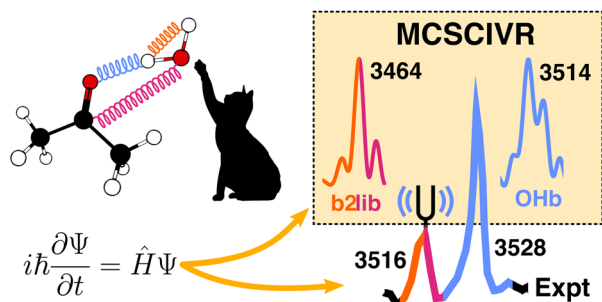
7157



Understanding the photochemistry of a crystalline push–pull norbornadiene photoswitch

Federico J. Hernández,* Jordan M. Cox, Jingbai Li,* Steven Lopez* and Rachel Crespo-Otero*

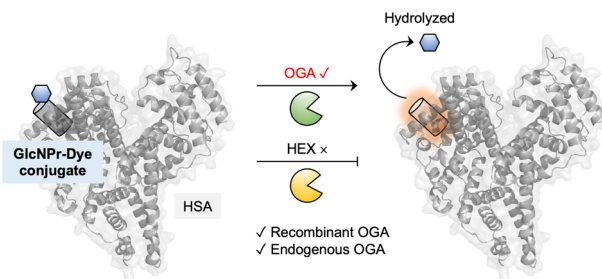
7171



Nuclear quantum effects and vibrational resonances in organic hydrates: theoretical and experimental insights from DMSO monohydrate

Giacomo Botti and Giacomo Mandelli*

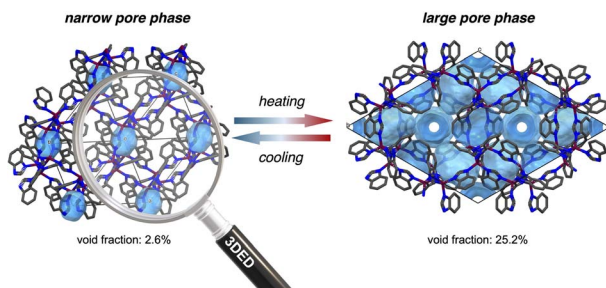
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Protein-encapsulated fluorogenic probes for the selective detection of endogenous O-GlcNAcase (OGA)

Yuan-Hao Wu, Chen Guo, Zi-Ru Ye, Xi-Le Hu, Tony D. James,* Jia Li* and Xiao-Peng He*

7185



Deciphering the guest-free crystal structures and thermal breathing of the flexible metal–organic frameworks ZIF-7 and ZIF-9

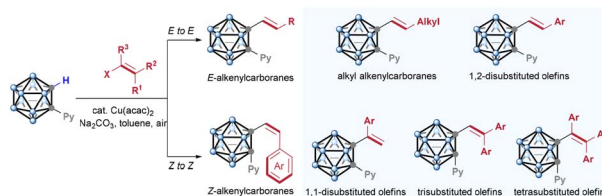
Athanasios Koutsianos, Erik Svensson Grape, Roman Pallach, Julian Keupp, Rochus Schmid, A. Ken Inge and Sebastian Henke*



7194

Stereospecific alkenylation of carboranes: copper-catalyzed access to pyridylcarboranyl alkenes

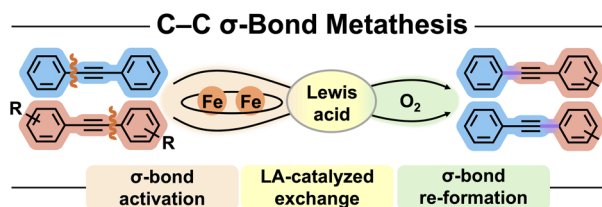
Ping Li, Xiang Li, Liyan Wang, Mengmeng Wang, Deshuang Tu,^{*} Hong Yan,^{*} Jian Lu^{*} and Ju-You Lu^{*}



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Direct metathesis of carbon–carbon σ -bonds at a versatile macrocycle-supported diiron platform

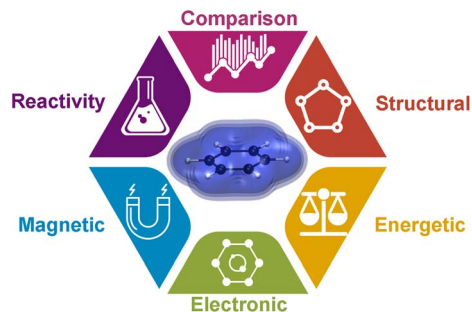
Tianchang Liu, Jared E. Gonder, Ryan P. Murphy, Alexandra M. Bacon, Michael R. Gau and Neil C. Tomson^{*}



7211

How to evaluate aromaticity under pressure? Benzene as a benchmark system

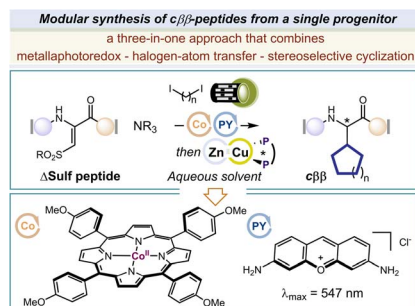
Jochen Eeckhoudt, Alexander Dellwisch, Annelene Plump, Felix Zeller, Tim Neudecker,^{*} Frank De Proft and Mercedes Alonso^{*}



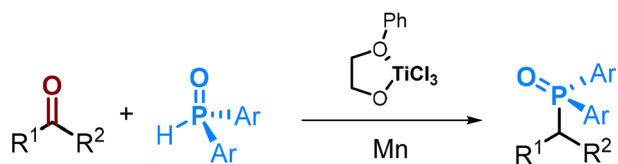
7228

A general route to β,β -carbocyclic sidechains in peptides: an aqueous metallaphotoredox approach driven by green light

Samuel Gary, Pei-Hsuan Chen, Nin Mai and Steven Bloom^{*}



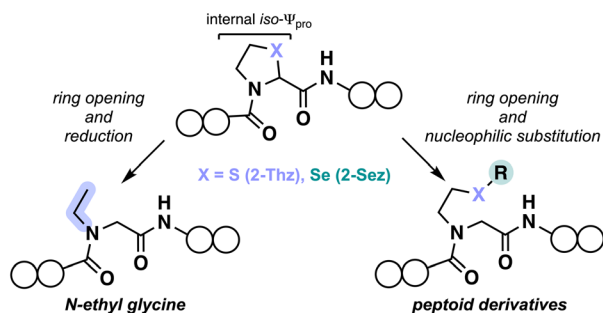
7236



Deoxygenative phosphonation of ketones by titanium

Yuquan Wang, Kai Yin, Xiaobo Pang and Xing-Zhong Shu*

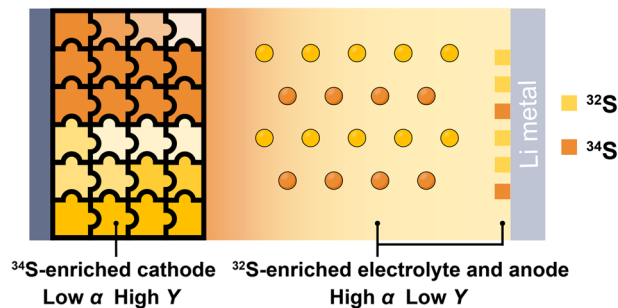
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Iso-pseudoprolines as versatile tools for late-stage peptide backbone modifications

Karen D. Milewska, Brett D. Schwartz, Jemimah R. Canning, Urvi Modak, Flynn C. Attard, Michael G. Gardiner, Damian Van Raad, Thomas Huber and Lara R. Malins*

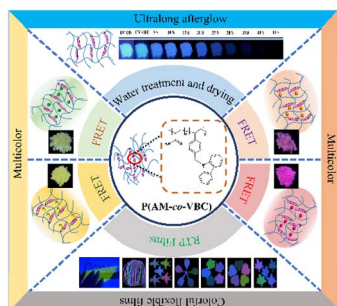
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Electrochemical fractionation of stable sulfur isotopes in a rechargeable lithium–sulfur battery: a revisit from the law of mass conservation

Yu-Hui Zhu* and Sen Xin*

7265



Convenient large-area construction of flexible multicolor polymer-based room temperature phosphorescence materials with second-scale phosphorescence lifetimes

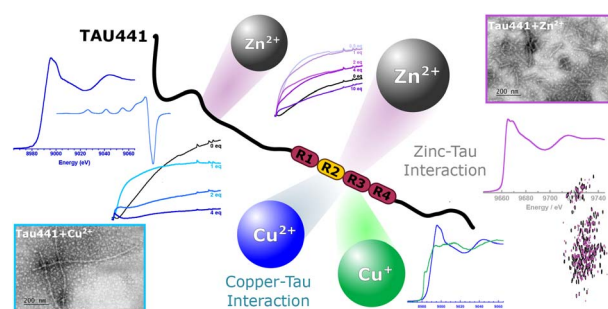
Tianyu Li, Yan Zhu, Shaochen Sun, Yutong Zhou, Zhihui Wang, Fei Li, Farong Tao,* Liping Wang and Guang Li*



7277

Structural insights into copper and zinc binding to tau protein and the impact of metal binding on amyloid aggregation

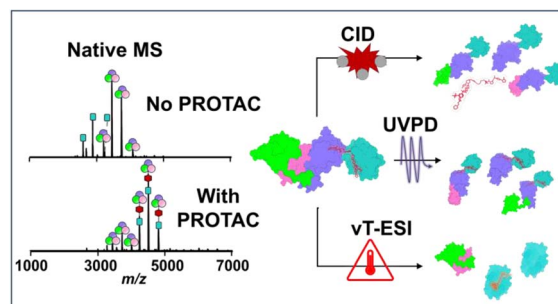
Gerardo U. Juárez-Romero, Xun Sun, Juan Atilio Gerez, Christophe Den Auwer, Gautier Landrot, Maarten Nachtegaal, Roland Riek, Jinghui Luo and Liliana Quintanar*



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Unveiling BCL-xL-specific PROTAC efficiency and dissociation pathways using native mass spectrometry

Mohamed I. Gadallah, Kailyn L. Nonhof, Digant Nayak, Peiyi Zhang, Olivia Dioli, Guangrong Zheng, Shaun K. Olsen, Daohong Zhou and Jennifer S. Brodbelt*



7310

Dinitrogen complexes N_2L_2 ($L = N_2, CO, CS, NO^+, CN^-$)

Yahui Li, Chengxiang Ding, Lianbin Xie, Sudip Pan* and Gernot Frenking*



7321

Correction: Iron tris-mesityl: a homoleptic iron(II) ferrate species for directed C–H activation

Aleksa Radović, Maria C. Healy, Arnadeep Datta, Deborshee Das, Likun Cai, Steven Diaz, Achyut Ranjan Gogoi, Nikki J. Wolford, Stephanie H. Carpenter, William W. Brennessel, David McCamant,* Osvaldo Gutierrez* and Michael L. Neidig*



7322

Correction: Bis(amidophenolate)-supported pnictoranides: Lewis acid-induced electromerism in a bismuth complex

Simon B. H. Karnbrock, Jan F. Köster, Isabelle Becker, Christopher Golz, Franc Meyer, Marti Gimferrer and Manuel Alcarazo*

