

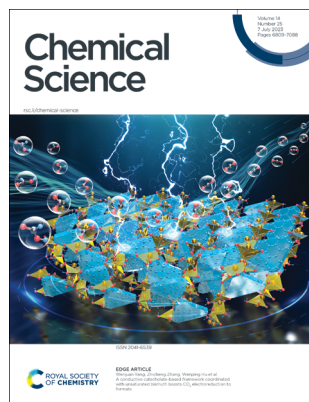
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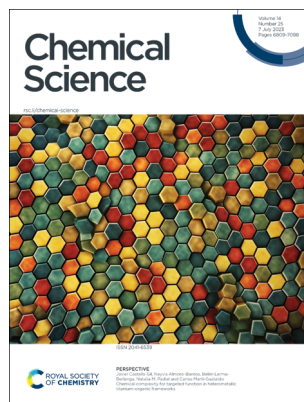
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See Wenjuan Yang, Zhicheng Zhang, Wenping Hu *et al.*, pp. 6860–6866.
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Inside cover
See Carlos Martí-Gastaldo *et al.*, pp. 6826–6840.
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EDITORIAL

6820

Addressing the sustainability challenges for polymers in liquid formulations

Caroline Louise Kelly

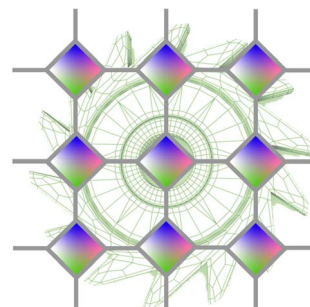


PERSPECTIVES

6826

Chemical complexity for targeted function in heterometallic titanium–organic frameworks

Javier Castells-Gil, Neyvis Almora-Barrios, Belén Lerma-Berlanga, Natalia M. Padial and Carlos Martí-Gastaldo*



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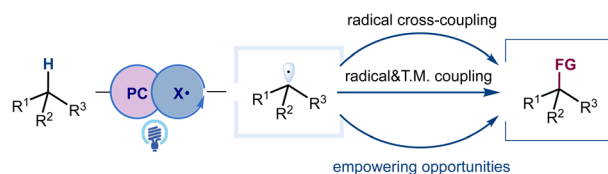


PERSPECTIVES

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Resurgence and advancement of photochemical hydrogen atom transfer processes in selective alkane functionalizations

Liang Chang, Shun Wang, Qing An, Linxuan Liu, Hexiang Wang, Yubo Li, Kaixuan Feng and Zhiwei Zuo*

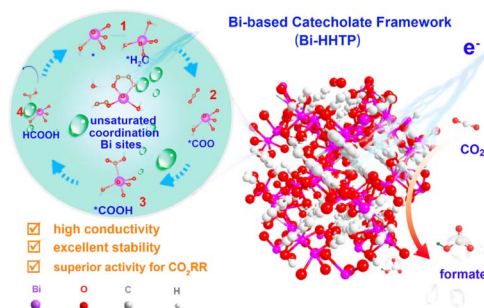


EDGE ARTICLES

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A conductive catechol-based framework coordinated with unsaturated bismuth boosts CO₂ electroreduction to formate

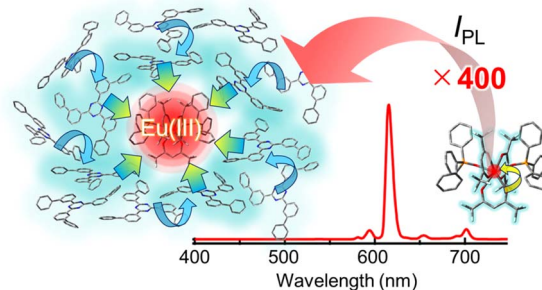
Zengqiang Gao, Man Hou, Yongxia Shi, Li Li, Qisheng Sun, Shuyuan Yang, Zhiqiang Jiang, Wenjuan Yang,* Zhicheng Zhang* and Wenping Hu*



6867

Highly efficient light harvesting of a Eu(III) complex in a host-guest film by triplet sensitization

Shiori Miyazaki, Kenichi Goushi, Yuichi Kitagawa, Yasuchika Hasegawa, Chihaya Adachi, Kiyoshi Miyata* and Ken Onda*



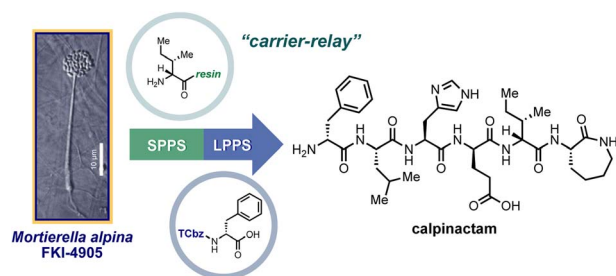
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Disulfide radical anion as a super-reductant in biology and photoredox chemistry

Qilei Zhu,* Cyrille Costentin, JoAnne Stubbe and Daniel G. Nocera*



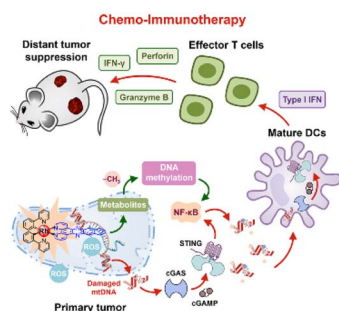
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Development of a nitrogen-bound hydrophobic auxiliary: application to solid/hydrophobic-tag relay synthesis of calpinactam

Hiroki Nakahara, Goh Sennari, Yoshihiko Noguchi, Tomoyasu Hirose* and Toshiaki Sunazuka*

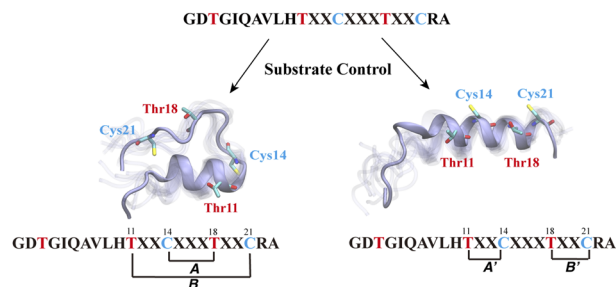
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Activation of the cGAS-STING pathway by a mitochondrial DNA-targeted emissive rhodium(III) metallointercalator

Yue Zheng, Xiao-Xiao Chen, Dong-Yang Zhang, Wen-Jin Wang, Kun Peng, Zhi-Yuan Li, Zong-Wan Mao* and Cai-Ping Tan*

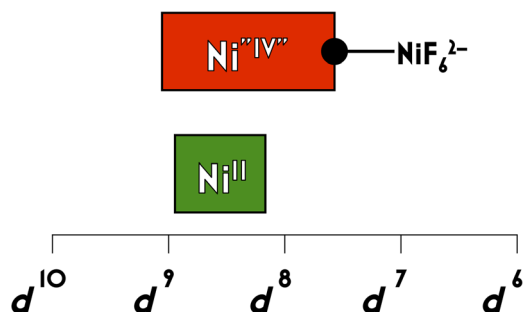
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Sequence controlled secondary structure is important for the site-selectivity of lanthipeptide cyclization

Xuenan Mi, Emily K. Desormeaux, Tung T. Le, Wilfred A. van der Donk* and Diwakar Shukla*

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Scrutinizing formally Ni^{IV} centers through the lenses of core spectroscopy, molecular orbital theory, and valence bond theory

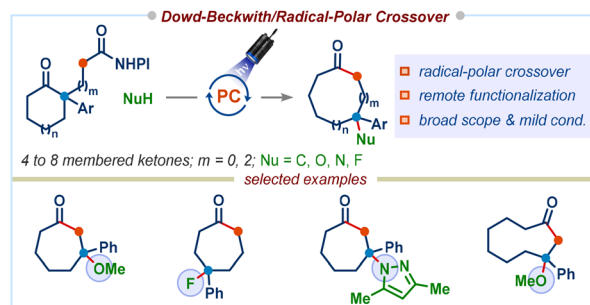
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Photocatalyzed Dowd–Beckwith radical-polar crossover reaction for the synthesis of medium-sized carbocyclic compounds

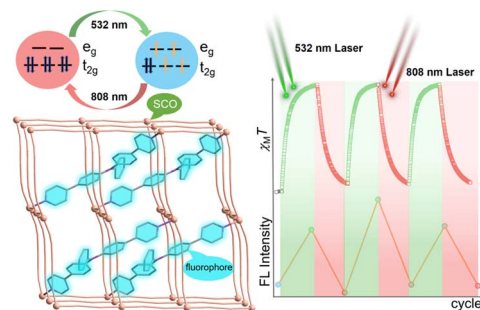
Tushar Singha, Ganesh Arjun Kadam and Durga Prasad Hari*



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Manipulating fluorescence by photo-switched spin-state conversions in an iron(II)-based SCO-MOF

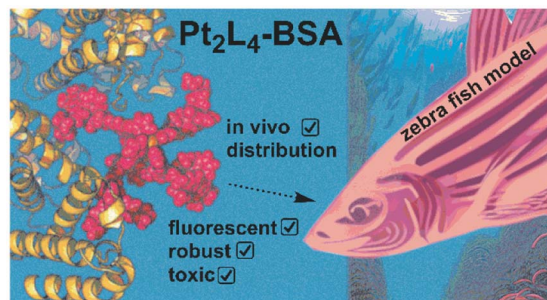
Fei-Fei Yan, Wen-Jing Jiang, Nian-Tao Yao, Pan-Dong Mao, Liang Zhao, Hui-Ying Sun, Yin-Shan Meng and Tao Liu*



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In vivo biodistribution of kinetically stable Pt₂L₄ nanospheres that show anti-cancer activity

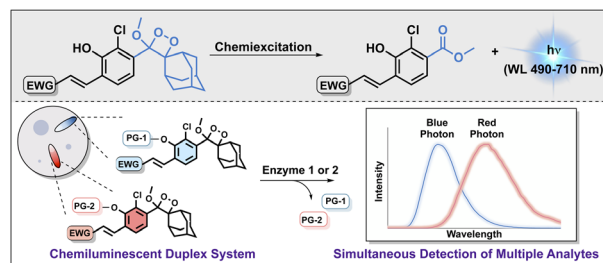
Eduard O. Bobylev, Renzo A. Knol, Simon Mathew, David A. Poole, III, Ioli Kotsogianni, Nathaniel I. Martin, Bas de Bruin, Alexander Kros* and Joost N. H. Reek*



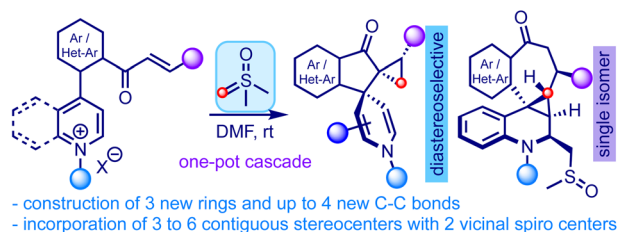
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Chemiluminescent duplex analysis using phenoxy-1,2-dioxetane luminophores with color modulation

Sara Gutkin, Rozan Tannous, Qais Jaber, Micha Fridman and Doron Shabat*



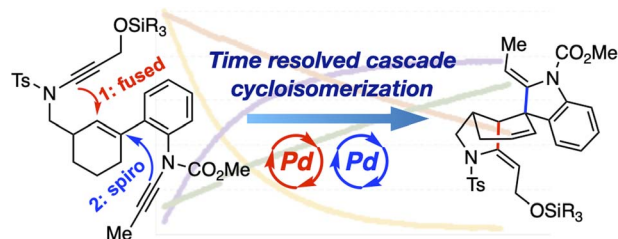
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An interrupted Corey–Chaykovsky reaction of designed azaarenium salts: synthesis of complex polycyclic spiro- and fused cyclopropanoids

Bara Singh, Arshad J. Ansari, Nirmal Malik and S. S. V. Ramasastry*

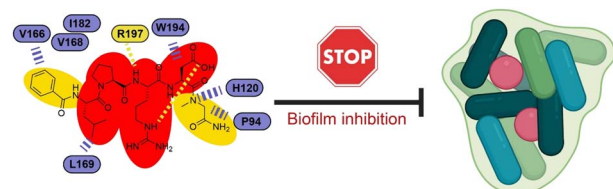
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Sequencing palladium-catalyzed cycloisomerization cascades in a synthesis of the gelsemine core

Guoduan Liang and Edward A. Anderson*

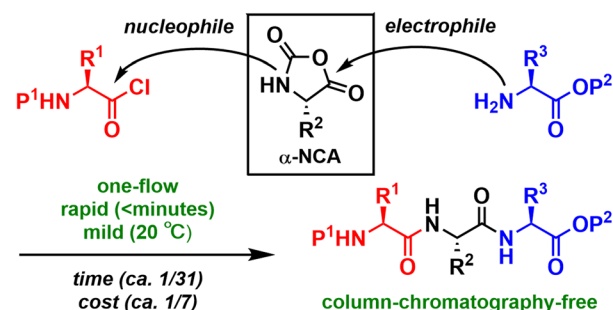
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Substrate-derived Sortase A inhibitors: targeting an essential virulence factor of Gram-positive pathogenic bacteria

Helal Abujubara, Jordi C. J. Hintzen, Shadi Rahimi, Ivan Mijakovic, Daniel Tietze and Alesia A. Tietze*

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Rapid and column-chromatography-free peptide chain elongation via a one-flow, three-component coupling approach

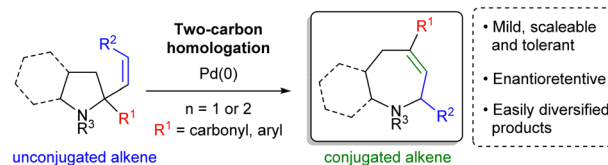
Naoto Sugisawa, Akira Ando and Shinichiro Fuse*



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Stereoselective two-carbon ring expansion of allylic amines via electronic control of palladium-promoted equilibria

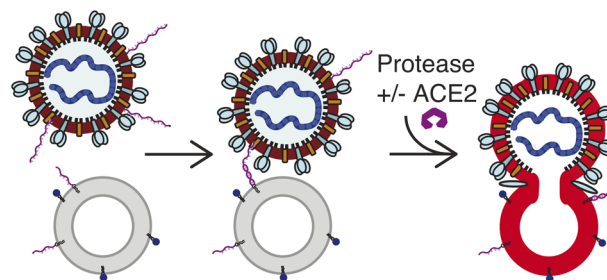
Charles P. Mikan, Aidan Matthews, Daniel Harris, Charlotte E. McIvor, Paul G. Waddell, Mark T. Sims and Jonathan P. Knowles*



6997

The ACE2 receptor accelerates but is not biochemically required for SARS-CoV-2 membrane fusion

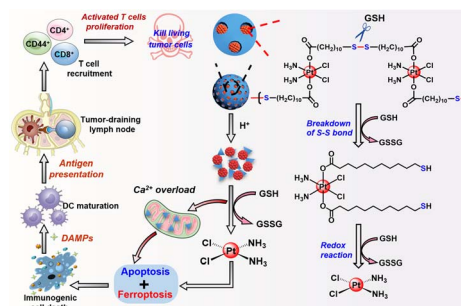
Marcos Cervantes, Tobin Hess, Giorgio G. Morbioli, Anjali Sengar and Peter M. Kasson*



7005

In situ oxidative polymerization of platinum(IV) prodrugs in pore-confined spaces of CaCO₃ nanoparticles for cancer chemoimmunotherapy

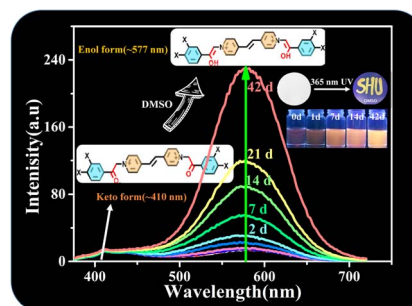
Fangmian Wei, Libing Ke, Siyuan Gao, Johannes Karges, Jinqian Wang, Yu Chen, Liangnian Ji and Hui Chao*



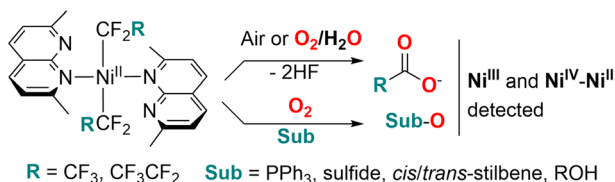
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Isomerization-induced fluorescence enhancement of two new viologen derivatives: mechanism insight and DFT calculations

Xiuping Yin, Xinxing Li, Xuyi Li, Malgorzata Biczysko, Shourong Zhu, Jiaqiang Xu and Yue-Ling Bai*



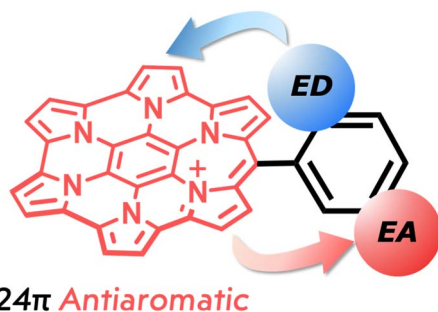
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Oxygenation by O₂ via Ni long-chain perfluoroalkyl complexes

Oxygen transfer reactivity mediated by nickel perfluoroalkyl complexes using molecular oxygen as a terminal oxidant

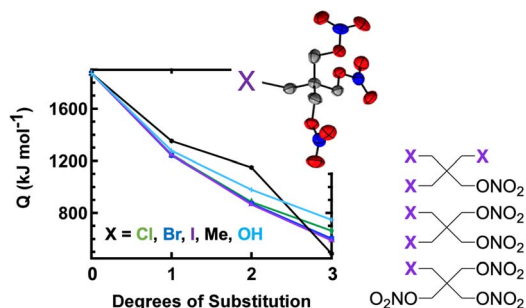
Shubham Deolka, R. Govindarajan, Eugene Khaskin, Serhii Vasylevskyi, Janet Bahri, Robert R. Fayzullin, Michael C. Roy and Julia R. Khusnutdinova*

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Substituent effects on paratropicity and diatropicity in π -extended hexapyrrolohexaazacoronene

Masayoshi Takase,* Toranosuke Takata, Kosuke Oki, Shigeki Mori and Hidemitsu Uno*

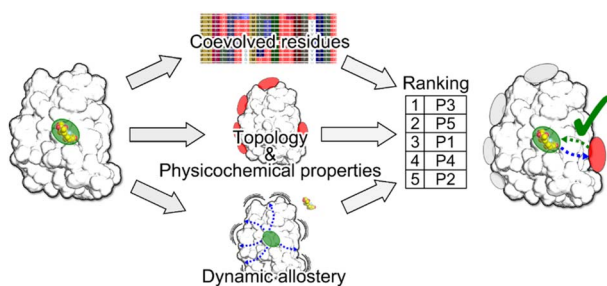
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Halogenated PETN derivatives: interplay between physical and chemical factors in explosive sensitivity

Nicholas Lease,* Kyle D. Spielvogel, Jack V. Davis, Jeremy T. Tisdale, Lisa M. Klamborowski, M. J. Cawkwell and Virginia W. Manner

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Combining structural and coevolution information to unveil allosteric sites

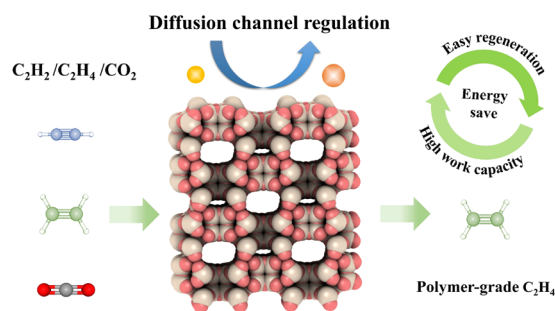
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Deep removal of trace C_2H_2 and CO_2 from C_2H_4 by using customized potassium-exchange mordenite

Hongwei Chen, Binyu Wang, Bin Zhang, JiuHong Chen, Jiabao Gui, Xiufeng Shi, Wenfu Yan, Jinping Li and Libo Li*



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Near-infrared AIEgens with high singlet-oxygen yields for mitochondria-specific imaging and antitumor photodynamic therapy

Shasha Zhang, Wenfang Yang, Xiao Lu, Xinyi Zhang, Zhichao Pan, Da-Hui Qu, Dong Mei,* Ju Mei* and He Tian

