

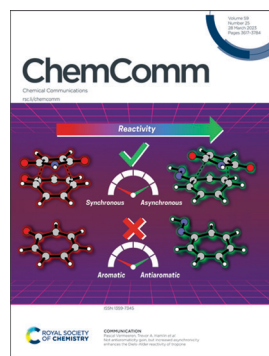
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ISSN 1359-7345 CODEN CHCOFS 59(25) 3617-3784 (2023)



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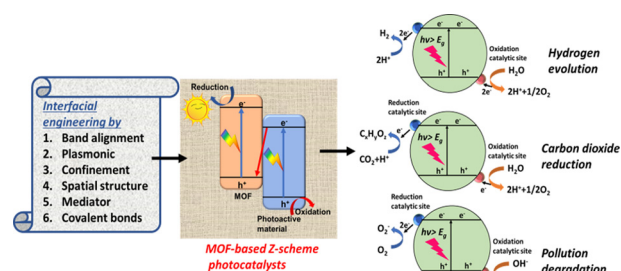
See Pascal Vermeeren, Trevor A. Hamlin *et al.*, pp. 3703–3706. Image reproduced by permission of Trevor A. Hamlin from *Chem. Commun.*, 2023, 59, 3703.

HIGHLIGHTS

3627

Metal–organic frameworks in photocatalytic Z-scheme heterojunctions: an emerging technology

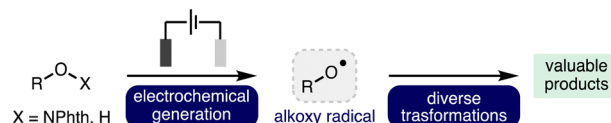
Amrita Chatterjee, Linyang Wang and Pascal Van Der Voort*



3655

Electrochemical generation and utilization of alkoxy radicals

Albara A. M. A. El Gehani, Hussain A. Maashi, James Harnedy and Louis C. Morrill*



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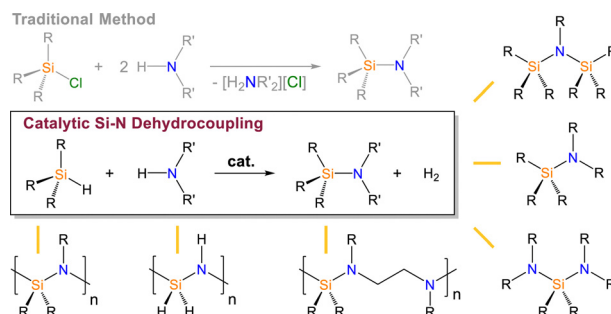


FEATURE ARTICLES

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Sustainable preparation of aminosilane monomers, oligomers, and polymers through Si–N dehydrocoupling catalysis

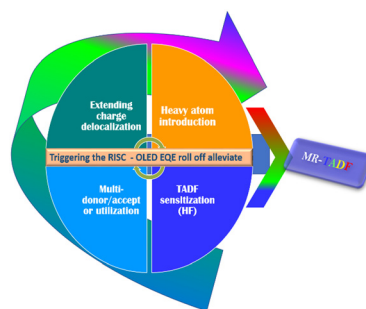
Brock E. Leland, Joydeb Mondal and Ryan J. Trovitch*



3685

Multiresonant TADF materials: triggering the reverse intersystem crossing to alleviate the efficiency roll-off in OLEDs

Kenkera Rayappa Naveen, Paramasivam Palanisamy, Mi Young Chae* and Jang Hyuk Kwon*

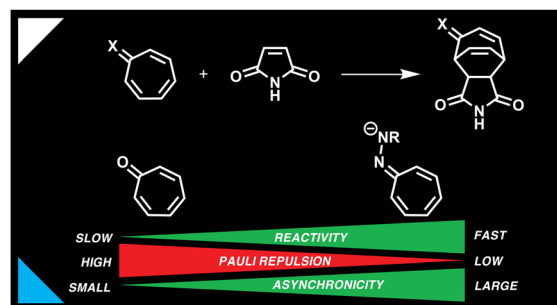


COMMUNICATIONS

3703

Not antiaromaticity gain, but increased asynchronicity enhances the Diels–Alder reactivity of tropone

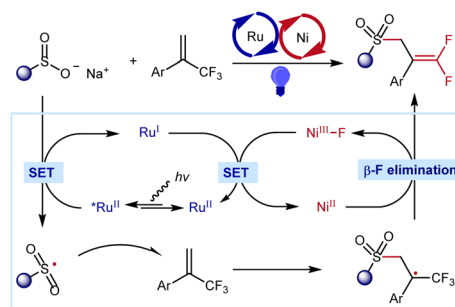
Eveline H. Tiekink, Pascal Vermeeren* and Trevor A. Hamlin*



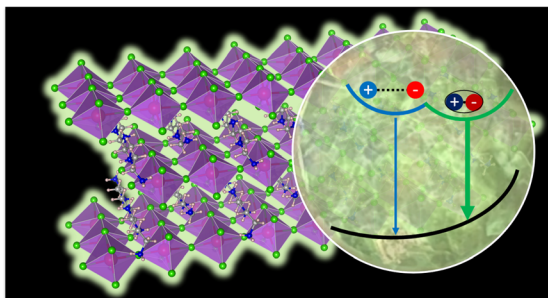
3707

Photo/Ni dual-catalyzed radical defluorinative sulfonylation to synthesize *gem*-difluoro allylsulfones

Yiran Xu, Shengchun Wang, Zhao Liu, Mian Guo* and Aiwen Lei*



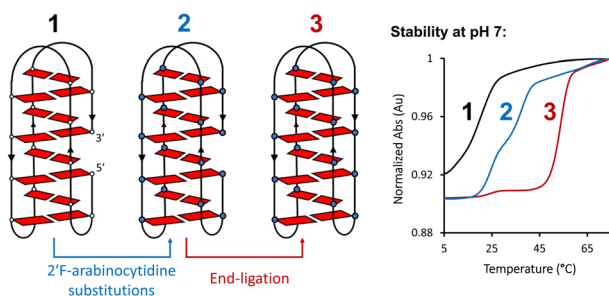
3711



One-dimensional organic metal halide nanoribbons with dual emission

Sujin Lee, Rijan Karkee, Azza Ben-Akacha, Derek Luong, J. S. Raaj Vellore Winfred, Xinsong Lin, David A. Strubbe* and Biwu Ma*

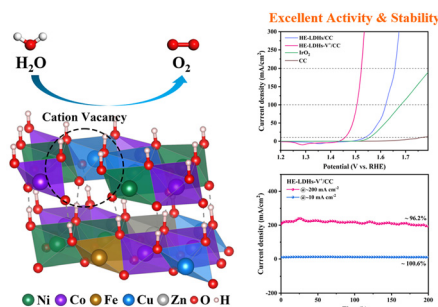
3715



End-ligation can dramatically stabilize i-motifs at neutral pH

Roberto El-Khoury and Masad J. Damha*

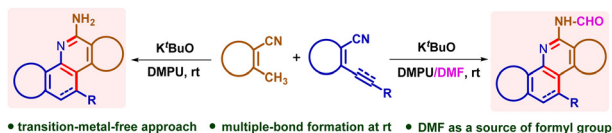
3719



Engineering cation vacancies in high-entropy layered double hydroxides for boosting the oxygen evolution reaction

Junchuan Yao, Fangqing Wang, Wenjun He, Ying Li, Limin Liang, Qiuyan Hao* and Hui Liu*

3723



A unified approach to benzo[c]phenanthridines via the cascade dual-annulation/formylation of 2-alkynyl/alkenylbenzonitriles

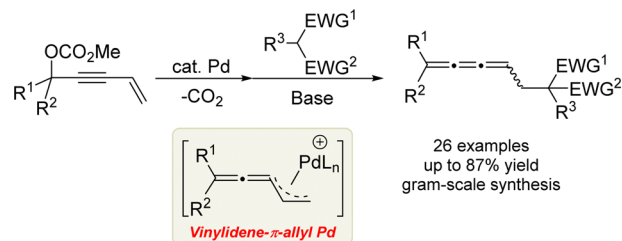
Shalini Verma, Manoj Kumar and Akhilesh K. Verma*



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Reactivity of vinylidene- π -allyl palladium(II) species

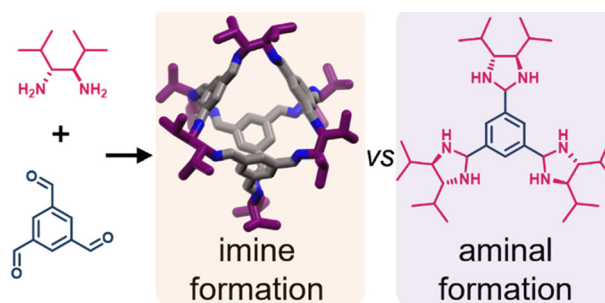
Can Li, Zhengnan Zhou, Yuling Li, Yinlong Guo* and Shengming Ma*



3731

Competitive amination during the synthesis of a highly soluble, isopropyl-decorated imine porous organic cage

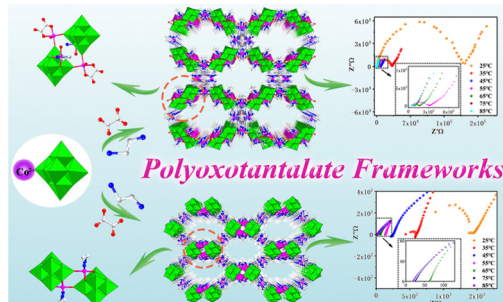
Rachel J. Kearsey, Andrew Tarzia, Marc A. Little, Michael C. Brand, Rob Clowes, Kim E. Jelfs, Andrew I. Cooper* and Rebecca L. Greenaway*



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Oxalate-assisted assembly of two polyoxotantalate supramolecular frameworks with proton conduction properties

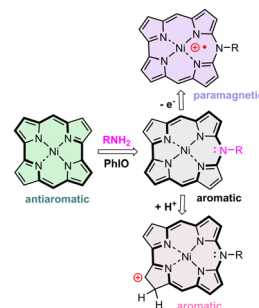
Yong Yu, Rong-Da Lai, Cai Sun, Yan-Qiong Sun, Qing-Xin Zeng, Xin-Xiong Li* and Shou-Tian Zheng*



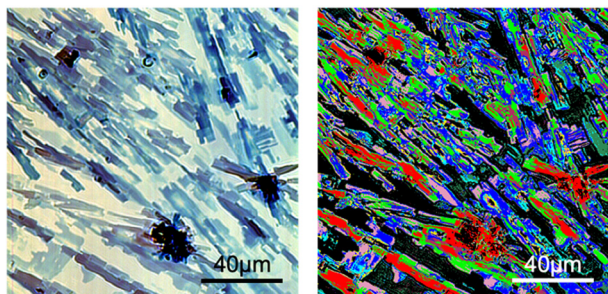
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Oxidative insertion of amines into conjugated macrocycles: transformation of antiaromatic norcorrole into aromatic azacorrole

Sha Li, Yahan Sun, Xiaofang Li,* Oskar Smaga, Sebastian Koniarz, Miłosz Pawlicki and Piotr J. Chmielewski*



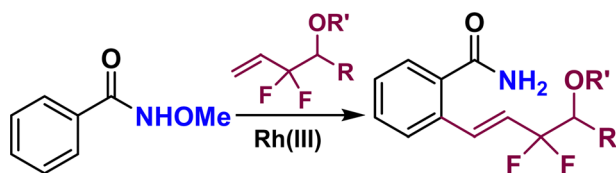
3743



Colorimetric response in polydiacetylene at the single domain level using hyperspectral microscopy

Jiali Chen, Jianlu Zheng, Yuge Hou and Kaori Sugihara*

3747

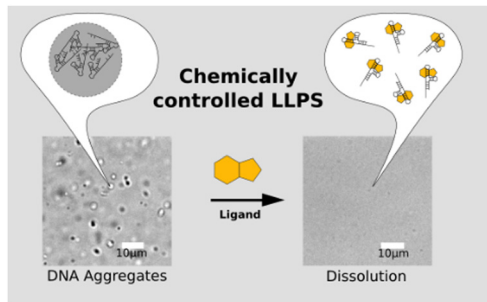


- Total 34 examples
- Redox neutrality
- Broad substrate scope
- gram-scale synthesis

Rh(III)-catalyzed redox-neutral C–H alkenylation of benzamides with *gem*-difluorohomoallylic silyl ethers *via* β -H elimination

Xueli Cui, Jing Qu, Jianfeng Yi, Weiqiang Sun, Jinhui Hu, Suqin Guo, Jing-Wei Jin, Wen-Hua Chen,* Wing-Leung Wong* and Jia-Qiang Wu*

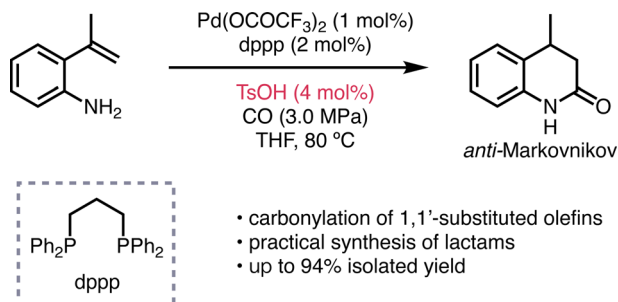
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Chemical control of phase separation in DNA solutions

Samuel Hauf and Yohei Yokobayashi*

3755



Hydrogen-free palladium-catalyzed intramolecular anti-Markovnikov hydroaminocarbonylation of 2-(1-methylvinyl)anilines

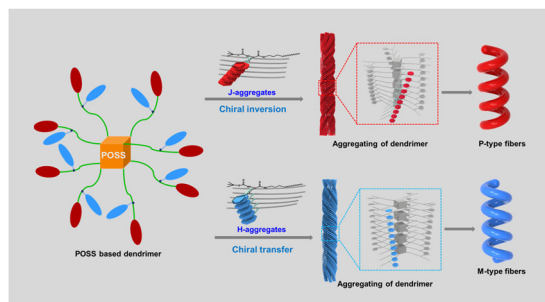
Tong Ru, Yingtang Ning, Ding Liu, Yuan Tao, Jiaqi Wang and Fen-Er Chen*



3759

Controllable chiral inversion via thioether bond-activated *J*- and *H*-aggregation transformation

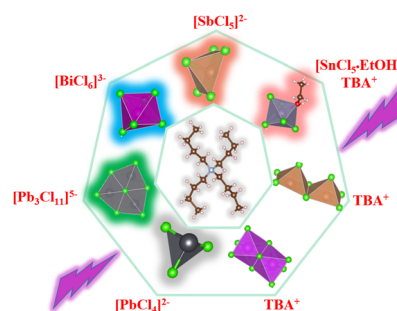
Huiwen He, Kai Zheng, Junnan Du, Hao Zheng, Jing He, Meng Ma, Yanqin Shi, Si Chen* and Xu Wang*



3763

Photophysical properties of tetrabutylammonium metal chlorides with different inorganic frameworks

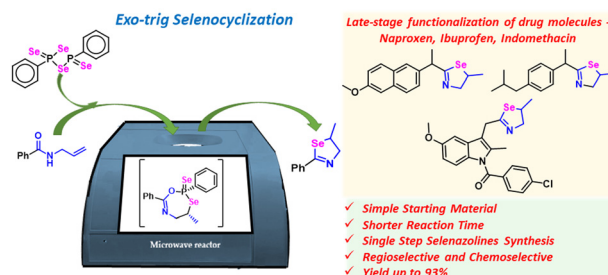
Qichuan Hu, Jing Liu, Hailong Yu, Hanqi Xu, Jinyang Yu and Wenzhi Wu*



3767

Exo-trig selenocyclization of secondary allylic carboxamides using Woollins' reagent: en route to 2,5-disubstituted selenazolines

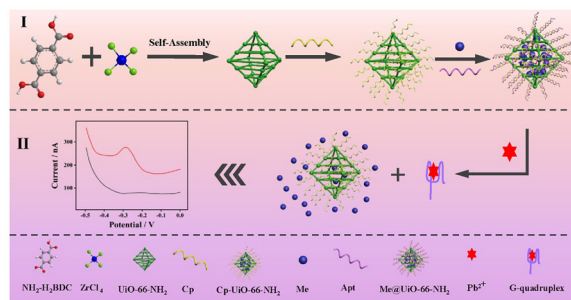
Priyanka N. Makhal, Srinivas Reddy Dannarm, Arbaz Sujat Shaikh, Rezwan Ahmed, Shrilekha Chilvery, Lahu N. Dayare, Rajesh Sonti, Chandraiah Godugu and Venkata Rao Kaki*



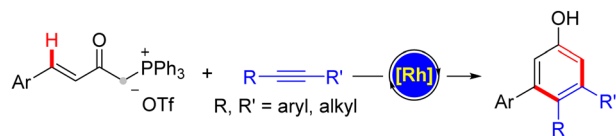
3771

Homogeneous voltammetric sensing strategy for lead ions based on aptamer gated methylthionine chloride@UiO-66-NH₂ framework as smart target-stimulated responsive nanomaterial

Tingting Liu, Ruiyong Zhou, Conglin Zhang, Yinhui Yi and Gangbing Zhu*



3775

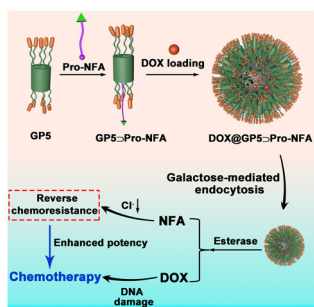


• [4+2] annulation • Good functional group tolerance • 27 examples

Synthesis of 3,4,5-trisubstituted phenols via Rh(III)-catalyzed alkenyl C–H activation assisted by phosphonium cations

Yan Mao, Wenxi Chen, Changchang Li, Lin Miao, Yanfei Lin, Fei Ling,* Zhangpei Chen* and Jinzhong Yao*

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Supramolecular nanoprodrug based on a chloride channel blocker and glycosylated pillar[5]arenes for targeted chemoresistance cancer therapy

Ke Yang, Ke Ma, Manman Yang, Yinghua Lv, Yuxin Pei and Zhichao Pei*

