

ChemComm

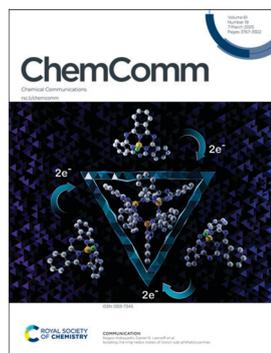
Chemical Communications

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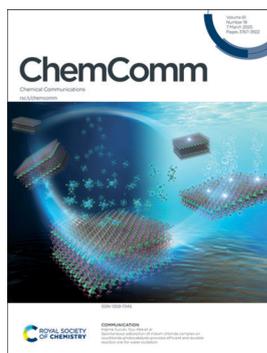
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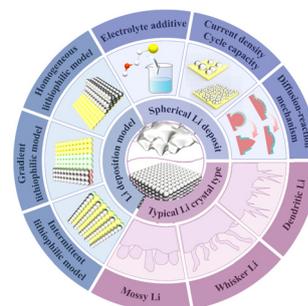
Inside cover
See Hajime Suzuki, Ryu Abe *et al.*, pp. 3836–3839. Image reproduced by permission of Ryu Abe from *Chem. Commun.*, 2025, **61**, 3836.

HIGHLIGHT

3777

The nucleation and growth mechanism of spherical Li for advanced Li metal anodes – a review

Mengting Wang, Xingtong Guo, Rui Luo, Xiaonuo Jiang, Yongfu Tang* and Tao Wei*

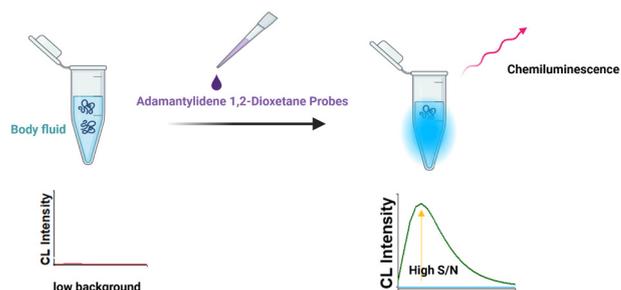


FEATURE ARTICLES

3794

Sensitive detection of fluid biomarkers using adamantylidene 1,2-dioxetane based chemiluminescent probes

Wen-Jing Pan, Jialiang Wu and Shuai Xu*



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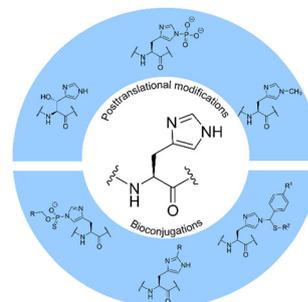


FEATURE ARTICLES

3805

Chemical tools for probing histidine modifications

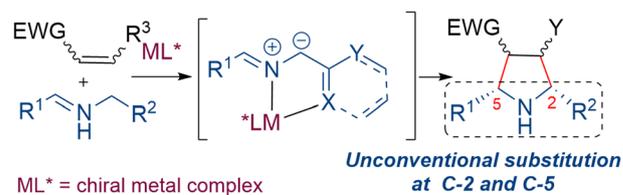
Nurgül Bilgin, Jordi C. J. Hintzen and Jasmin Mecinović*



3821

Metal catalyzed asymmetric 1,3-dipolar cycloaddition of azomethine ylides: structural diversity at the dipole partner

Juan Carlos Carretero, Nuria Rodriguez* and Javier Adrio*

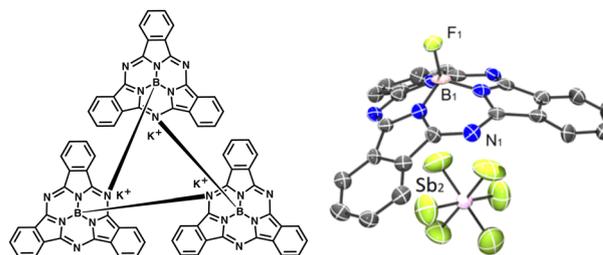


COMMUNICATIONS

3832

Isolating the ring-redox states of boron sub-phthalocyanines

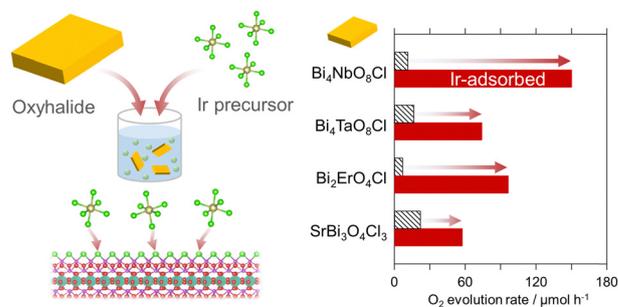
Wen Zhou, Declan McKearney, Yusuke Okada, Nagao Kobayashi* and Daniel B. Leznoff*



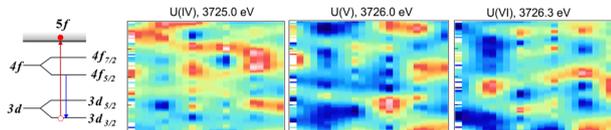
3836

Spontaneous adsorption of iridium chloride complex on oxychloride photocatalysts provides efficient and durable reaction site for water oxidation

Hajime Suzuki,* Kengo Minamimoto, Yusuke Ishii, Yudai Furuta, Osamu Tomita, Akinobu Nakada, Shunsuke Nozawa and Ryu Abe*

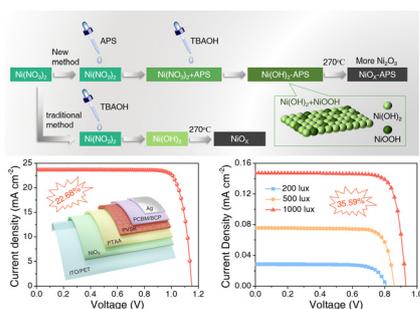


3840

HERFD-XRF at U M₄ edgeAdvanced 2D XRF imaging of uranium oxidation states using HERFD at the U M₄ edge

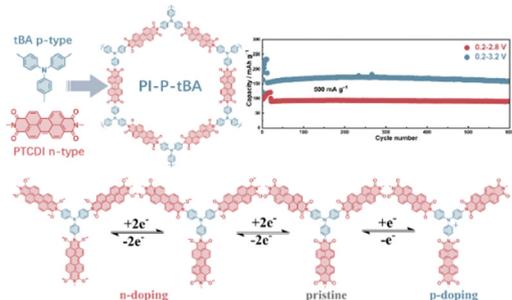
Elena F. Bazarkina, Kimberly V. Lau, Anthony Chappaz, Evgeny Bastrakov, Barbara Etschmann, Joël Brugger, Madeline Marshall, Frances M. Meyer, Christopher J. Boreham, Lucia Amidani and Kristina O. Kvashnina*

3844

Highly conductive and homogeneous NiO_x nanoparticles for stable and efficient flexible perovskite solar cells

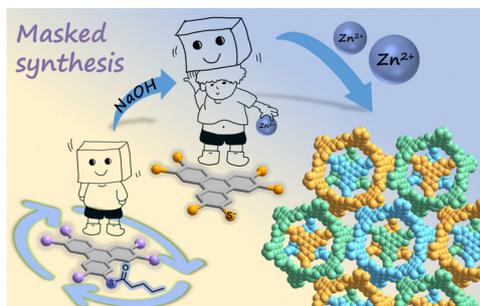
Junjun Jin, Jitao Shang, Zhenkun Zhu, Tonghui Guo, Yanghou Wang, Lijun Chen, Yidong Ming, Jinhua Li, Guanqi Tang* and Qidong Tai*

3848

An extended π -conjugated bipolar polymer cathode for rechargeable magnesium batteries: high capacity contributed by n- and p-doping and charge delocalization

Shuai Cui, Zhen Qin, Hongda Gui, Ting Li,* Daohong Zhang* and Fei Xu*

3852



A single-crystal 3D Zn-tetrathiolate connected metal–organic framework

Jian-Rong Li, Jieying Hu, Long Jiang, Yonghe He, Wei-Ming Liao, Xianghua Yang, Lai-Hon Chung* and Jun He*

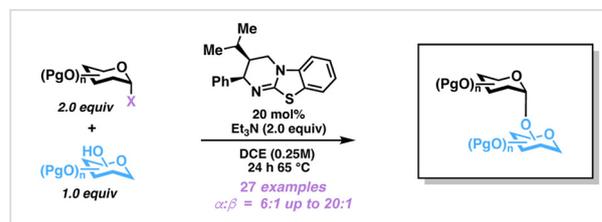


COMMUNICATIONS

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Isothiourea – catalyzed α -selective glycosylations

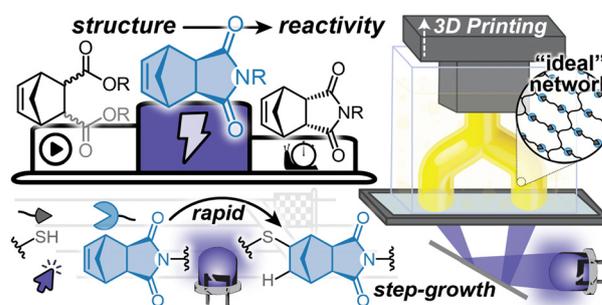
Bhaswati Ghosh, Charles Enlow, Zhichen Ma, Ashley N. Warden and Abram J. Axelrod*



3860

Relating norbornene composition-to-reactivity for thiol-ene photopolymerizations and 3D printing

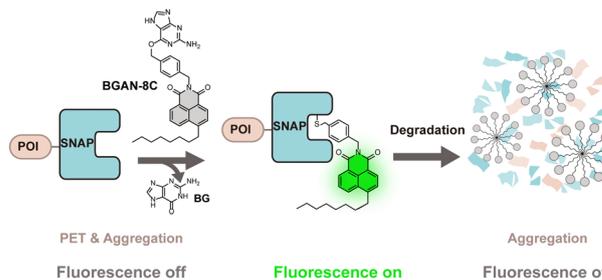
Yutong Liu, Henry L. Cater, Elizabeth A. Recker and Zachariah A. Page*



3864

Naphthalimide-derived fluorogenic SNAP probe for real-time monitoring of protein degradation

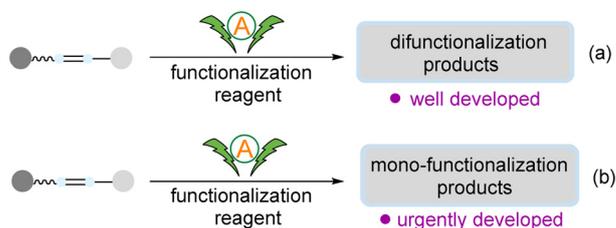
Xuelian Zhou, Lu Miao,* Yonghui Chen, Jinjing Shi, Qinglong Qiao* and Zhaochao Xu*



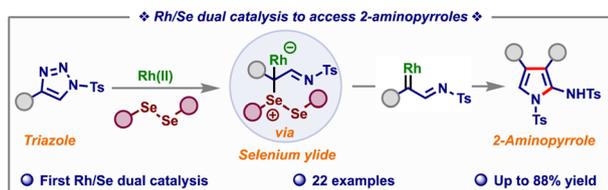
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An electrocatalytic mono-functionalization of alkenes towards alkenyl selenium sulfonates

Zhiheng Zhao, Hongyan Yan and Lijun Gu*



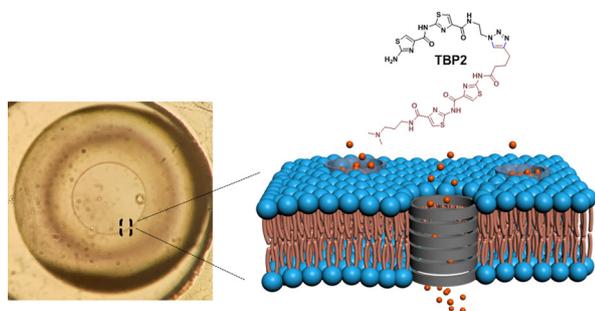
3872



Rhodium/selenium dual catalysis for accessing 2-aminopyrroles from *N*-sulfonyl-1,2,3-triazoles

Kuntal Pal, Om Prakash Dash and Chandra M. R. Volla*

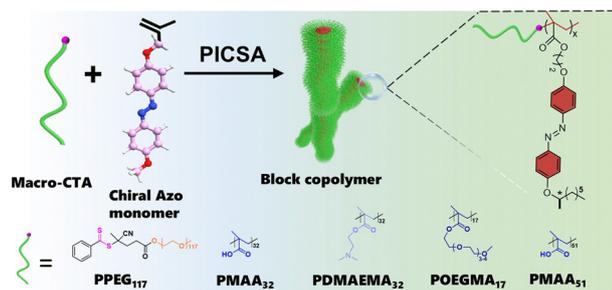
3876



Ion transport and membrane channel formation using a peptidomimetic in droplet interface bilayers

Raj Paul, Debasish Dutta, Mark I. Wallace* and Jyotirmayee Dash*

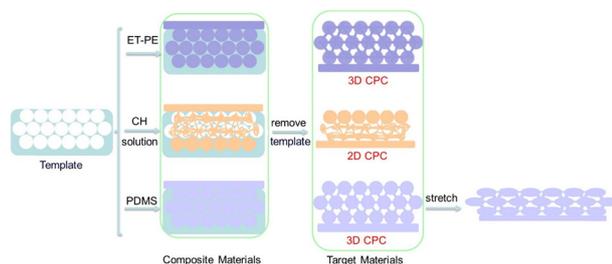
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Construction of liquid-crystalline assemblies with tunable chiroptical properties through tailoring solvophilic chains in polymerization-induced chiral self-assembly

Zhenyang Zhou, Xiaoxiao Cheng,* Zeyu Tang, Yuqing Wang, Zixiang He and Wei Zhang*

3884



Template-based synthesis of novel polymeric colloidal photonic crystals

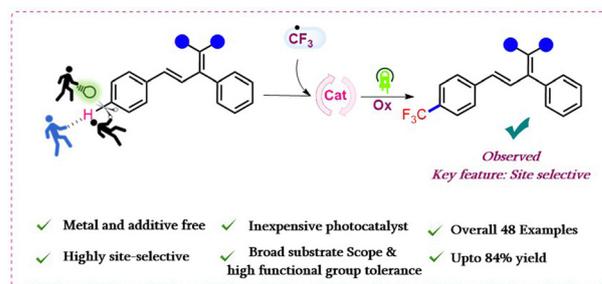
Shunan Xu, Qingyao Liu, Yuanhui Wang, Zhihao Ji, Zhengshuai Lian, Hongzi Tan,* Jin Zhou* and Chuan Wang*



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A radical approach towards polarity-reversed *para*-substitution of electron-deficient arenes

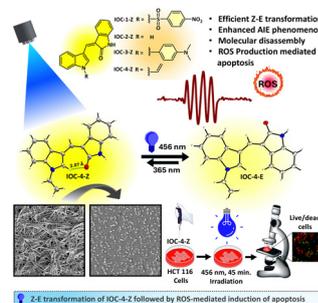
Shashank Singh, Arindam Kundu, Claire Empel, René Michael Koenigs* and Ravi P. Singh*



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Visible light-induced photoisomerization of indole–oxindole constructs: molecular disassembly and ROS-mediated apoptosis

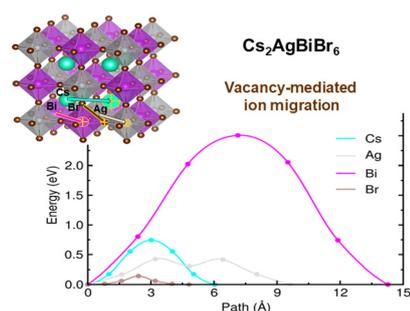
Kartikay Tyagi, Tejal Dixit and V. Venkatesh*



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Revealing the role of intrinsic point defects in the stability of halide double perovskite Cs₂AgBiBr₆

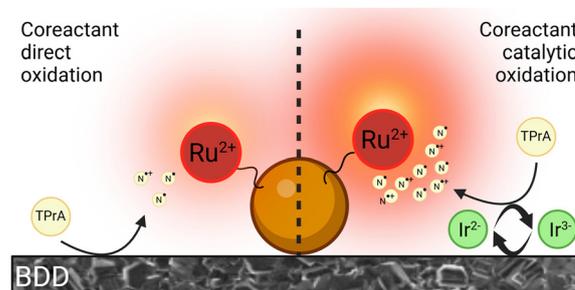
Il-Chol Ri, Chun-Son Ri, Song-Hyon Yu, Son-Hyok Jo, Song-Hyok Choe and Chol-Jun Yu*



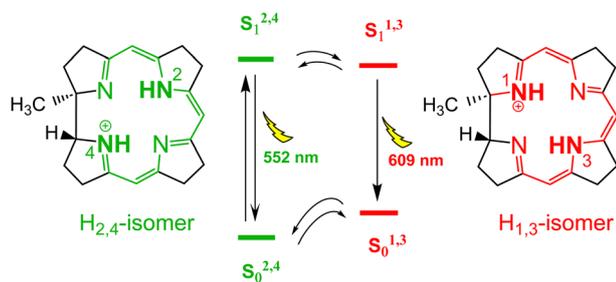
3900

Overcoming kinetic barriers of remote electrochemiluminescence on boron-doped diamond *via* catalytic coreactant oxidation

Alessandro Fracassa, Chiara Mariani, Andrea Fiorani, Yasuaki Einaga, Conor F. Hogan, Francesco Paolucci, Neso Sojic, Paul S. Francis* and Giovanni Valentini*



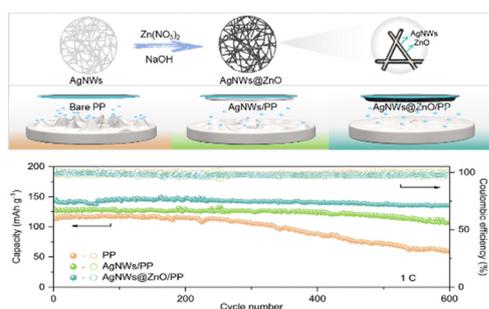
3904



H/D-Isotope sensitive dual fluorescence of the corrin-ligand of vitamin B₁₂

Steffen Jockusch* and Bernhard Kräutler*

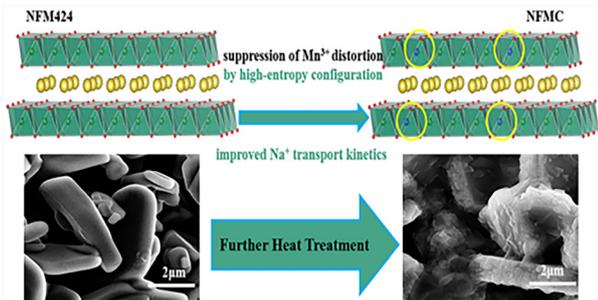
3908



3D dual-gradient lithiophilic AgNWs@ZnO modified separator for boosting stable lithium metal batteries

Mengyu Gao, Qi Zhang, Yuan Tian* and Cheng Wang

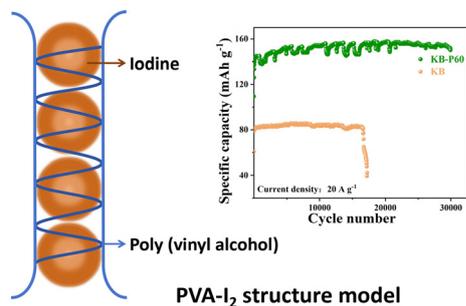
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Preparation of sodium-ion cathode materials with excellent performance using a Co₃O₄-modified conformation strategy

Ye Liu, Rui Luo, Jiahao Lu, Rentian Chen, Yuxin Zhung and Tao Wei*

3916



Impressive improvement of zinc–iodine battery performance by doping poly(vinyl alcohol) into the cathode

Yang Wang,* Kaiming Zhou, Zhihan Sun, Shaojie Zhang, Xuan Zhang, Zhou Jiang and Danyang Liu*

