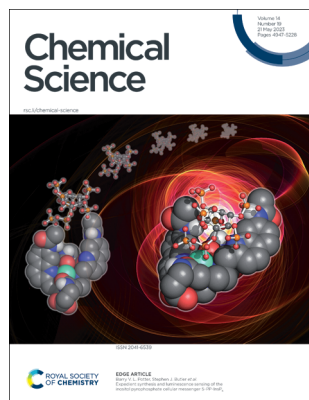
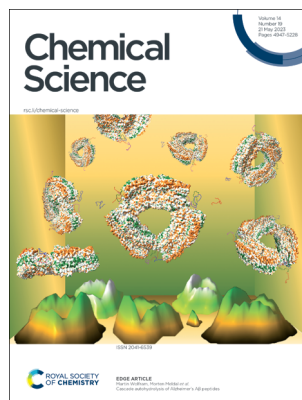


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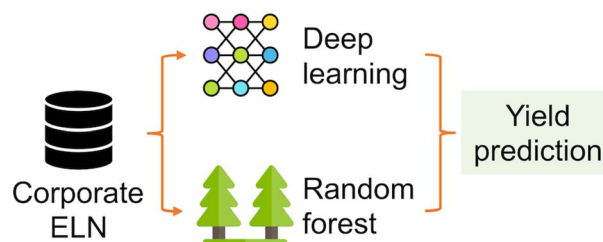
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See Martin Wolfram, Morten Meldal *et al.*, pp. 4986–4996. Image reproduced by permission of Morten Meldal from *Chem. Sci.*, 2023, 14, 4986.

COMMENTARY

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A focus on the use of real-world datasets for yield prediction

Latimah Bustillo and Tiago Rodrigues*

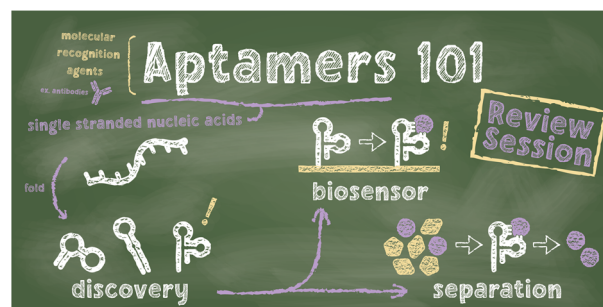


REVIEW

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Aptamers 101: aptamer discovery and *in vitro* applications in biosensors and separations

Lucy F. Yang, Melissa Ling, Nataly Kacherovsky and Suzie H. Pun*



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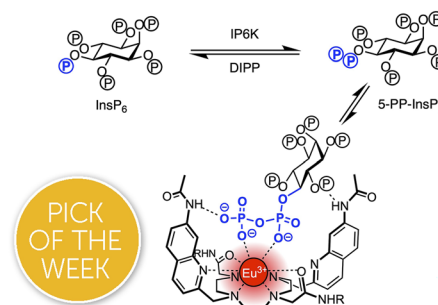
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Expedient synthesis and luminescence sensing of the inositol pyrophosphate cellular messenger 5-PP-InsP₅

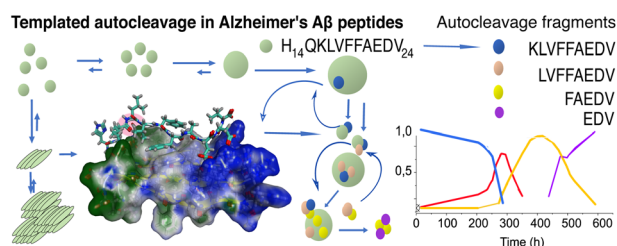
Megan L. Shipton, Fathima A. Jamion, Simon Wheeler, Andrew M. Riley, Felix Plasser, Barry V. L. Potter* and Stephen J. Butler*



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Cascade autohydrolysis of Alzheimer's Aβ peptides

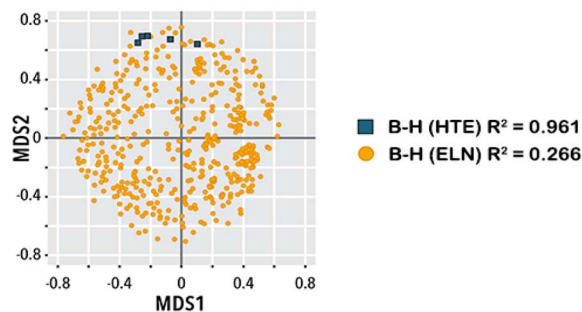
Martin Wolfram,* Manish K. Tiwari, Tue Hassenkam, Ming Li, Morten J. Bjerrum and Morten Meldal*



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On the use of real-world datasets for reaction yield prediction

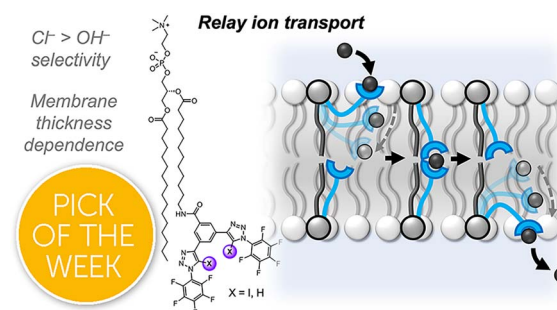
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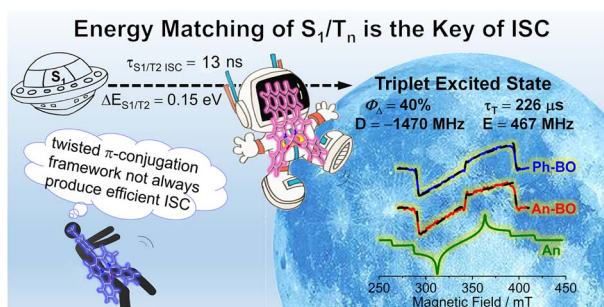
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Halogen bonding relay and mobile anion transporters with kinetically controlled chloride selectivity

Toby G. Johnson, Andrew Docker, Amir Sadeghi-Kelishadi and Matthew J. Langton*



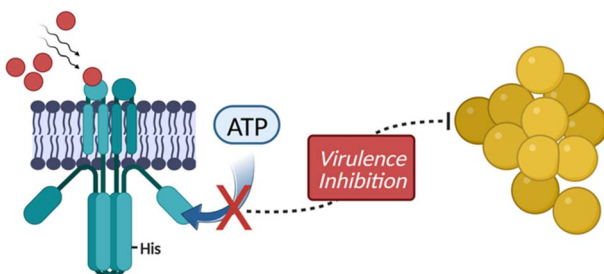
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Origin of intersystem crossing in highly distorted organic molecules: a case study with red light-absorbing *N,N,O,O*-boron-chelated Bodipys

Xue Zhang, Andrey A. Sukhanov, Xi Liu, Maria Taddei, Jianzhang Zhao,* Anthony Harriman,* Violeta K. Voronkova,* Yan Wan,* Bernhard Dick* and Mariangela Di Donato*

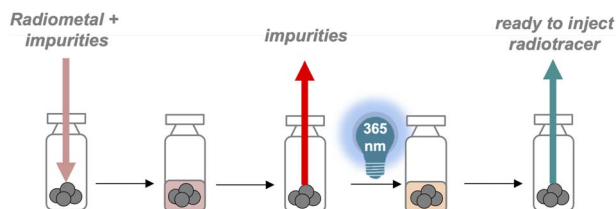
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Targeting multidrug resistant *Staphylococcus* infections with bacterial histidine kinase inhibitors

Adeline Espinasse, Manibarsha Goswami, Junshu Yang, Onanong Vorasin, Yinduo Ji* and Erin E. Carlson*

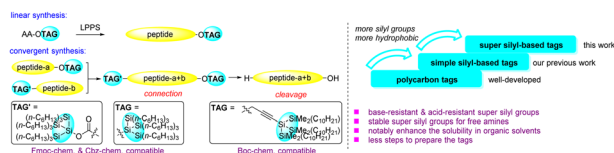
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Radiometallation and photo-triggered release of ready-to-inject radiopharmaceuticals from the solid phase

Dariusz Śmitowicz, Shawn Eisenberg, Shin Hye Ahn, Angus J. Koller, Philip P. Lampkin and Eszter Boros*

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Super silyl-based stable protecting groups for both the C- and N-terminals of peptides: applied as effective hydrophobic tags in liquid-phase peptide synthesis

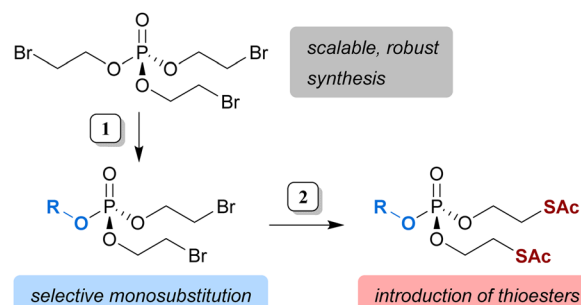
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Synthesis of biolabile thioalkyl-protected phosphates from an easily accessible phosphotriester precursor

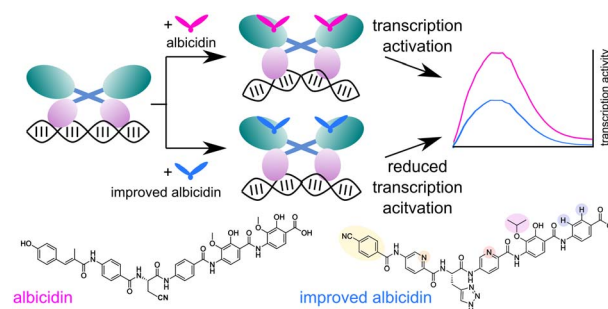
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Transcription activation by the resistance protein AlbA as a tool to evaluate derivatives of the antibiotic albicidin

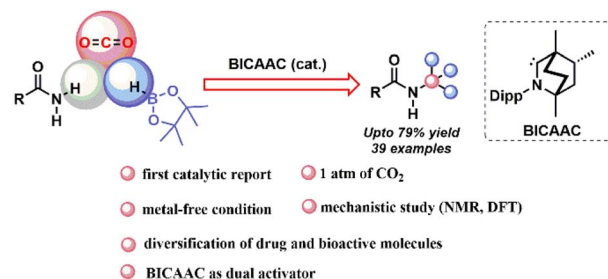
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Bicyclic (alkyl)(amino)carbene (BICAAC) in a dual role: activation of primary amides and CO₂ towards catalytic N-methylation

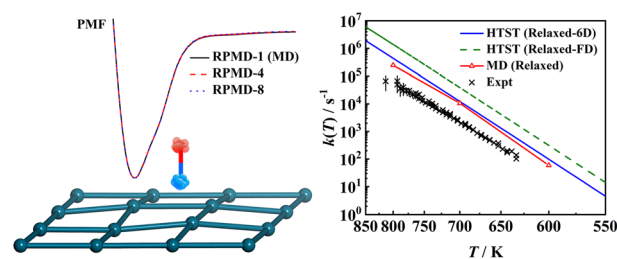
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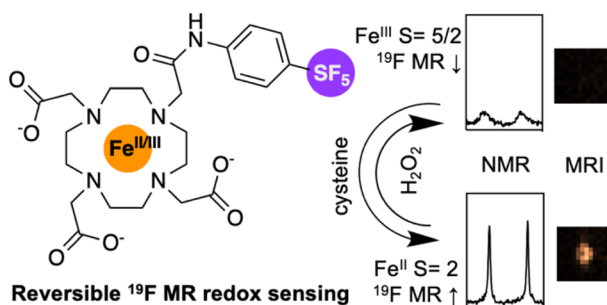
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First-principles surface reaction rates by ring polymer molecular dynamics and neural network potential: role of anharmonicity and lattice motion

Chen Li, Yongle Li* and Bin Jiang*



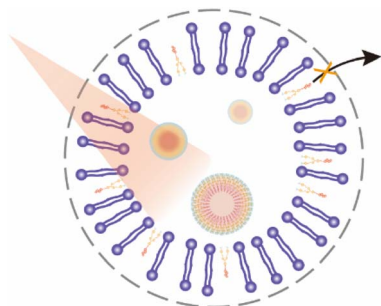
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An Fe complex for ^{19}F magnetic resonance-based reversible redox sensing and multicolor imaging

Rahul T. Kadakia, Raphael T. Ryan, Daniel J. Cooke and Emily L. Que*

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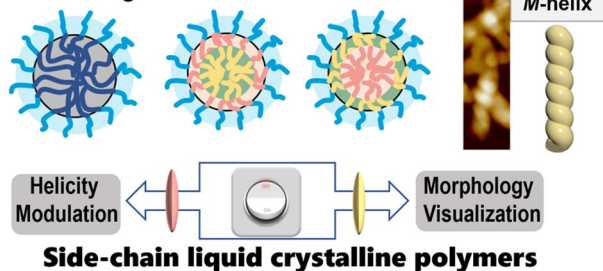


A self-assembled nanophotosensitizer targets lysosomes and induces lysosomal membrane permeabilization to enhance photodynamic therapy

Youyou Li, Wenbo Han, Deyan Gong, Taokun Luo, Yingjie Fan, Jianming Mao, Wenwu Qin and Wenbin Lin*

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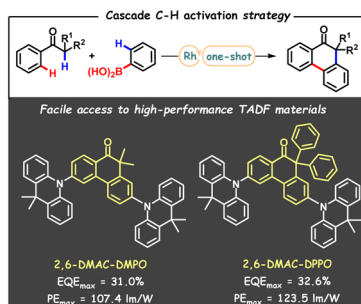
Controlling the Chiral Communication



Conformationally supramolecular chirality prevails over configurational point chirality in side-chain liquid crystalline polymers

Xiaoxiao Cheng, Yijing Gan, Gong Zhang, Qingping Song,* Zhengbiao Zhang* and Wei Zhang*

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Molecular engineering of locked alkyl aryl carbonyl-based thermally activated delayed fluorescence emitters via a cascade C-H activation process

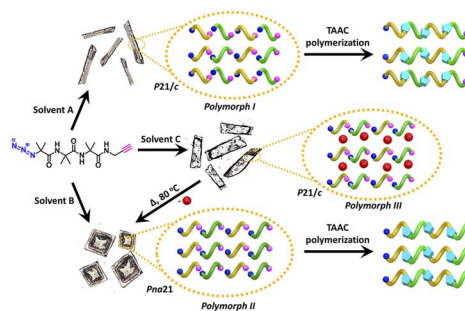
Yunxi Zhang, Zhengmei Huang, Yudong Yang, Jiahui Liu, Yang Tian, Zhengyang Bin* and Jingsong You*



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Rational design and topochemical synthesis of polymorphs of a polymer

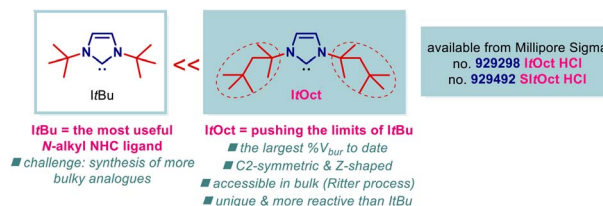
Vignesh Athiyarath, Liby Ann Mathew, Yakai Zhao, Ravichandran Khazeber, Upadrasta Ramamurty and Kana M. Sureshan*



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ItOct (ItOctyl) – pushing the limits of ItBu: highly hindered electron-rich N-aliphatic N-heterocyclic carbenes

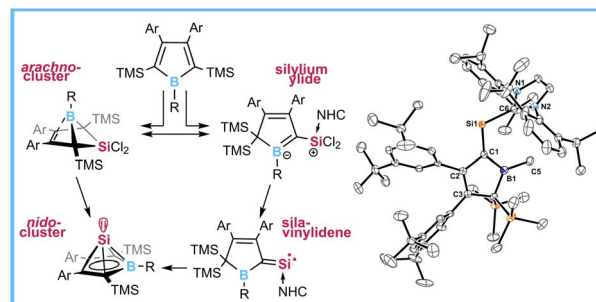
Md. Mahbubur Rahman, Guangrong Meng, Elwira Bisz, Błażej Dziuk, Roger Lalancette, Roman Szostak and Michal Szostak*



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A donor-supported silavinylidene and silylium ylides: boroles as a flexible platform for versatile Si(II) chemistry

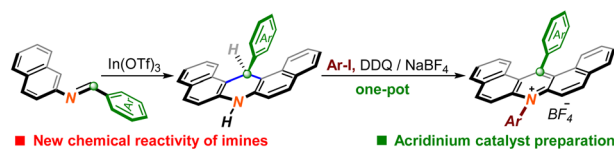
Julijan Sarcevic, Tobias Heitkemper, Paul Niklas Ruth, Leonard Naß, Maximilian Kubis, Dietmar Stalke and Christian P. Sindlinger*



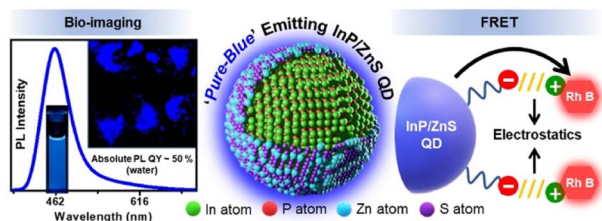
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In(OTf)₃-catalyzed reorganization/cycloaddition of two imine units and subsequent modular assembly of acridinium photocatalysts

Jiang Nan,* Guanjie Huang, Shilei Liu, Jing Wang, Yangmin Ma and Xinjun Luan*



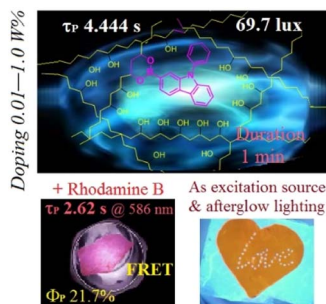
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Blue-emitting InP quantum dots participate in an efficient resonance energy transfer process in water

Pradyut Roy, Mishika Virmani and Pramod P. Pillai*

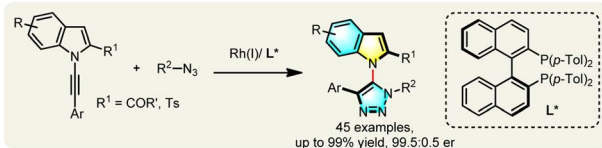
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Rational molecular and doping strategies to obtain organic polymers with ultralong RTP

Yuefa Zhang, Shiguo Zhang, Guanyu Liu, Qikun Sun, Shanfeng Xue* and Wenjun Yang*

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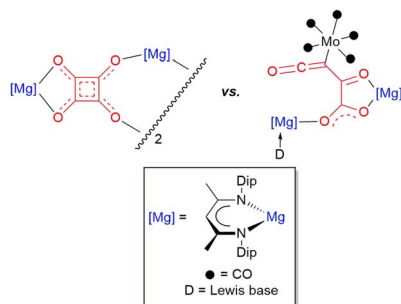


Asymmetric rhodium-catalyzed click cycloaddition to access C–N axially chiral N-triazolyl indoles

Li Zhou, Yankun Li, Shunian Li, Zhenwei Shi, Xue Zhang, Chen-Ho Tung and Zhenghu Xu*

- Atroposelective click reaction of internal alkynes
- Novel C–N axially chiral Indolyltriazole skeletons
- Broad scope with easily available Tol-BINAP ligands

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Molybdenum carbonyl assisted reductive tetramerization of CO by activated magnesium(I) compounds: squarate dianion vs. metallo-ketene formation

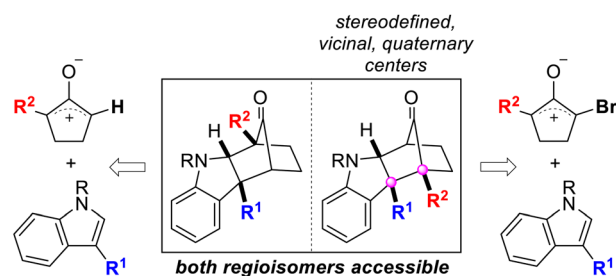
K. Yuvaraj, Jeremy C. Mullins, Thayalan Rajeshkumar, Iskander Douair, Laurent Maron* and Cameron Jones*



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Regiodivergent (3 + 2) annulation reactions of oxyallyl cations

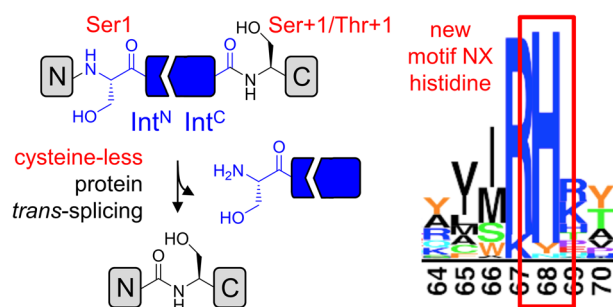
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Structural and biochemical analysis of a novel atypically split intein reveals a conserved histidine specific to cysteine-less inteins

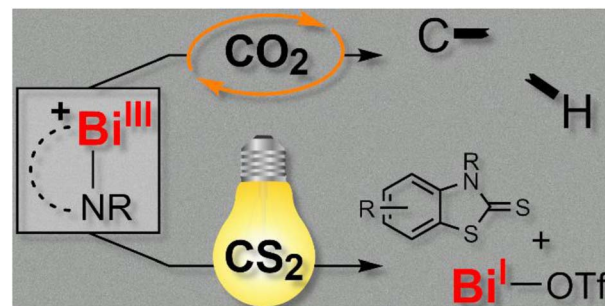
Tim Pasch, Alexander Schröder, Sabrina Kattelmann, Miriam Eisenstein, Shmuel Pietrokovski,* Daniel Kümmel* and Henning D. Mootz*



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Insertion of CO₂ and CS₂ into Bi–N bonds enables catalyzed CH-activation and light-induced bismuthinidene transfer

Kai Oberdorf, Anna Hanft, Xiulan Xie, F. Matthias Bickelhaupt, Jordi Poater* and Crispin Lichtenberg*



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A cheap metal catalyzed ring expansion/cross-coupling cascade: a new route to functionalized medium-sized and macrolactones

Shuai Liu, Pengchen Ma, Lu Zhang, Shenyu Shen, Hong-Jie Miao, Le Liu, K. N. Houk,* Xin-Hua Duan* and Li-Na Guo*

