

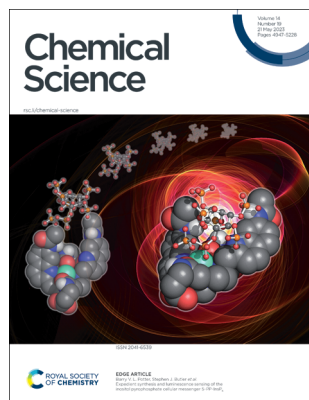
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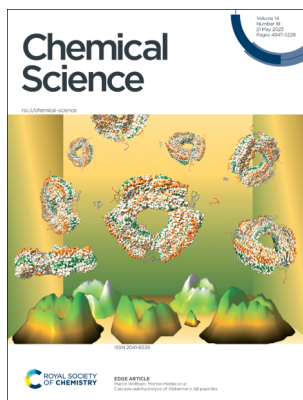
IN THIS ISSUE

ISSN 2041-6539 CODEN CSHCBM 14(19) 4947–5228 (2023)



Cover

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Inside cover

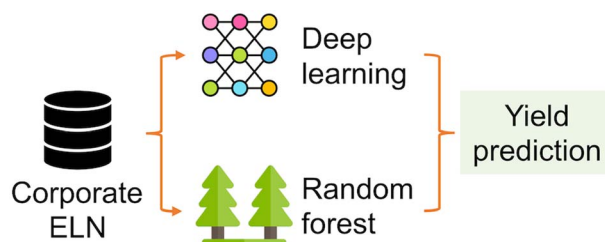
See Martin Wolfram, Morten Meldal *et al.*, pp. 4986–4996. Image reproduced by permission of Morten Meldal from *Chem. Sci.*, 2023, **14**, 4986.

COMMENTARY

4958

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

Latimah Bustillo and Tiago Rodrigues*

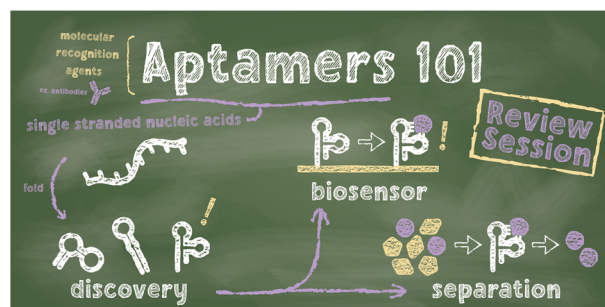


REVIEW

4961

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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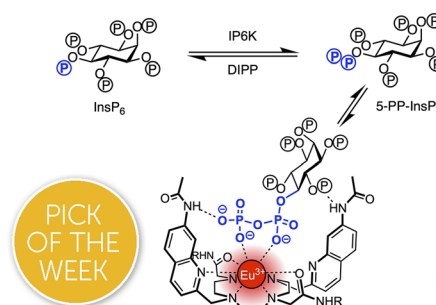


EDGE ARTICLES

4979

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

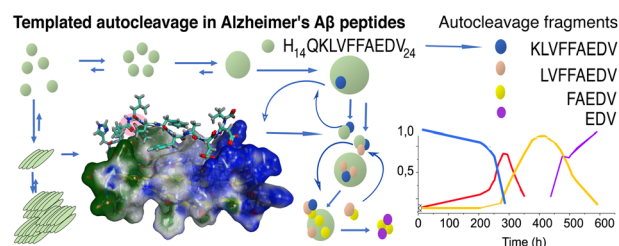
Megan L. Shipton, Fathima A. Jamion, Simon Wheeler, Andrew M. Riley, Felix Plasser, Barry V. L. Potter* and Stephen J. Butler*



4986

Cascade autohydrolysis of Alzheimer's A β peptides

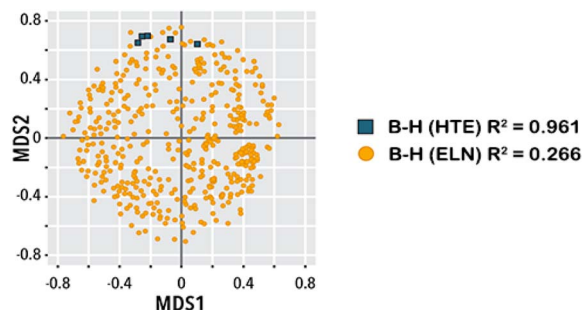
Martin Wolfram,* Manish K. Tiwari, Tue Hassenkam, Ming Li, Morten J. Bjerrum and Morten Meldal*



4997

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

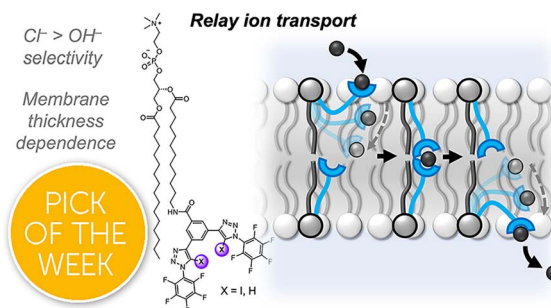
Mandana Saebi, Bozhao Nan, John E. Herr, Jessica Wahlers, Zhichun Guo, Andrzej M. Zurański, Thierry Kogej, Per-Ola Norrby, Abigail G. Doyle, Nitesh V. Chawla* and Olaf Wiest*

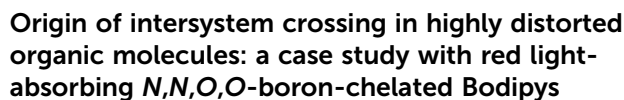


5006

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

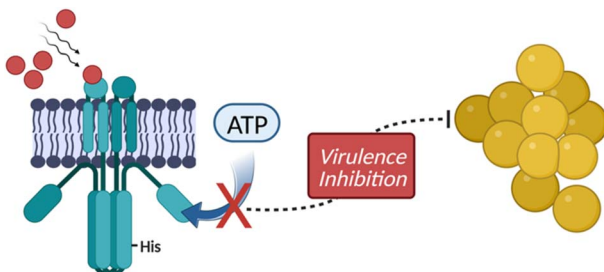
Toby G. Johnson, Andrew Docker, Amir Sadeghi-Kelishadi and Matthew J. Langton*





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

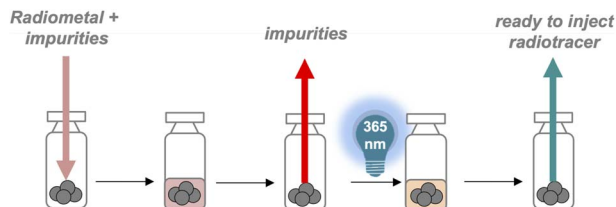
5028



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

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

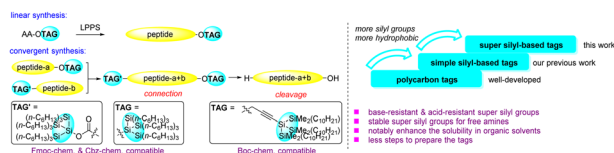
5038



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*

5051



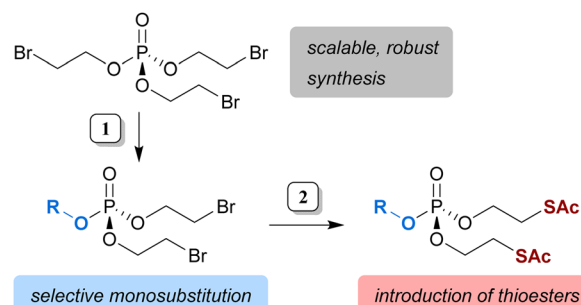
Super silyl-based stable protecting groups for both the C- and N-terminals of peptides: applied as effective hydrophobic tags in liquid-phase peptide synthesis

An Wu* and Hisashi Yamamoto*

5062

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

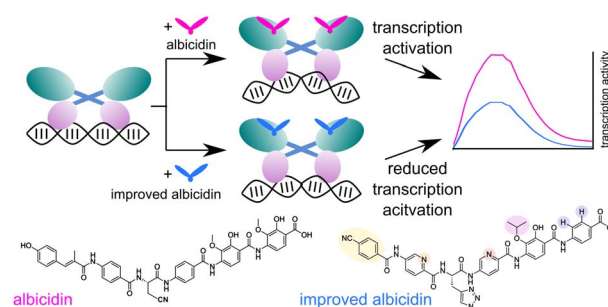
Lloyd D. Murphy, Kathryn E. Huxley, Ava Wilding, Cyane Robinson, Quentin P. O. Foucart and Lianne I. Willems*



5069

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

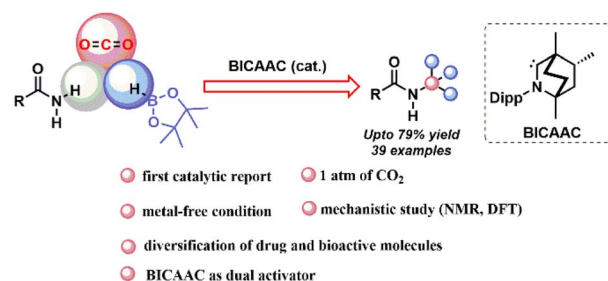
Simone Kosol, Lida Rostock, Jonas Barsig, Theresa Tabarelli, Kay Hommernick, Marcel Kulike, Tobias Eulberg, Maria Seidel, Iraj Behroz, Leonardo Kleebauer, Stefan Grätz, Andi Mainz and Roderich D. Süssmuth*



5079

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

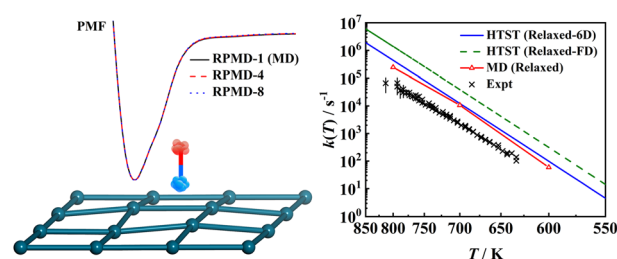
Nimisha Gautam, Ratan Logdi, Sreejyothi P., Antara Roy, Ashwani K. Tiwari* and Swadhin K. Mandal*



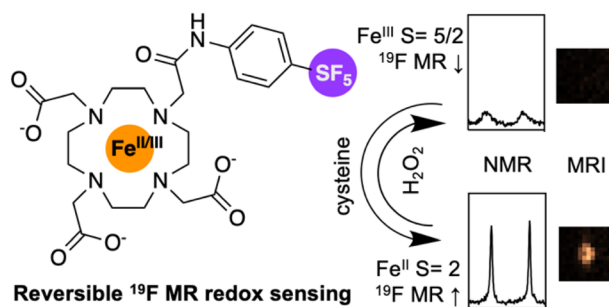
5087

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*



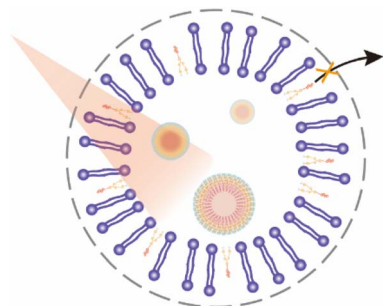
5099



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*

5106

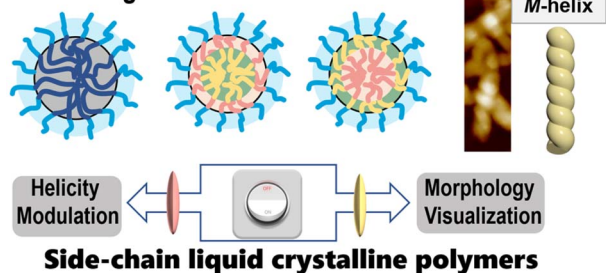


A self-assembled nanophotosensitizer targets lysosomes and induces lysosomal membrane permeabilization to enhance photodynamic therapy

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

5116

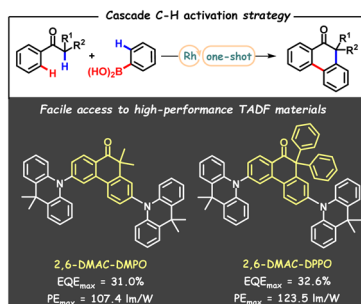
Controlling the Chiral Communication



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*

5125



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

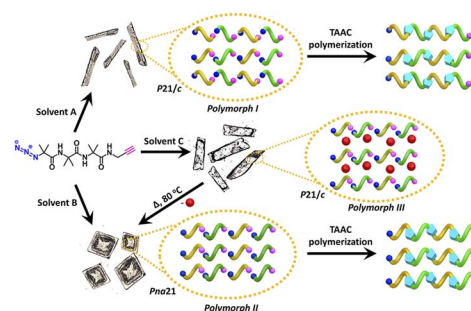
Yunxi Zhang, Zhengmei Huang, Yudong Yang, Jiahui Liu, Yang Tian, Zhengyang Bin* and Jingsong You*



5132

Rational design and topochemical synthesis of polymorphs of a polymer

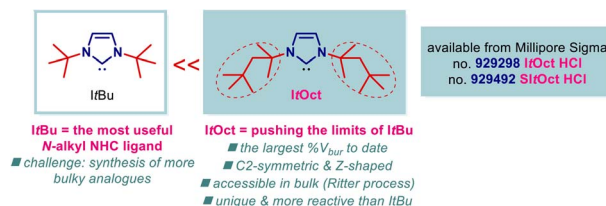
Vignesh Athiyarath, Liby Ann Mathew, Yakai Zhao, Ravichandran Khazeber, Upadrasta Ramamurty and Kana M. Sureshan*



5141

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

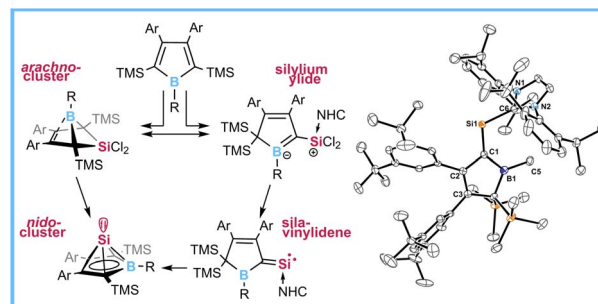
Md. Mahbubur Rahman, Guangrong Meng, Elwira Bisz, Błażej Dziuk, Roger Lalancette, Roman Szostak and Michał Szostak*



5148

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

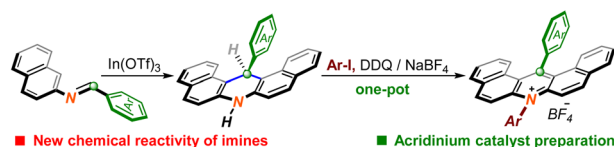
Julijan Sarcevic, Tobias Heitkemper, Paul Niklas Ruth, Leonard Naß, Maximilian Kubis, Dietmar Stalke and Christian P. Sindlinger*



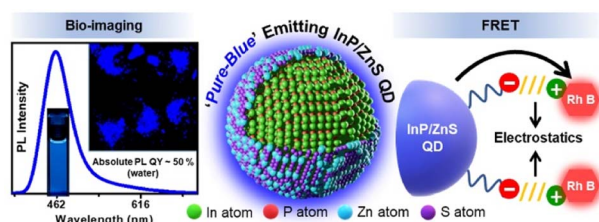
5160

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*



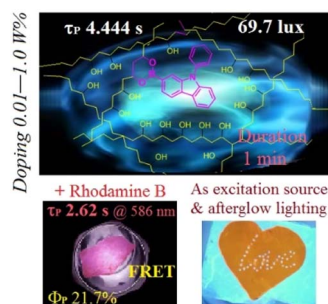
5167



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

Pradyut Roy, Mishika Virmani and Pramod P. Pillai*

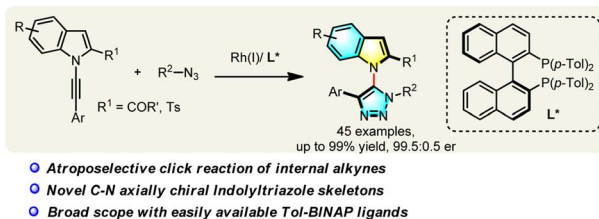
5177



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*

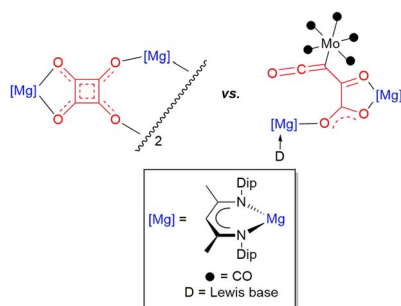
5182



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*

5188



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

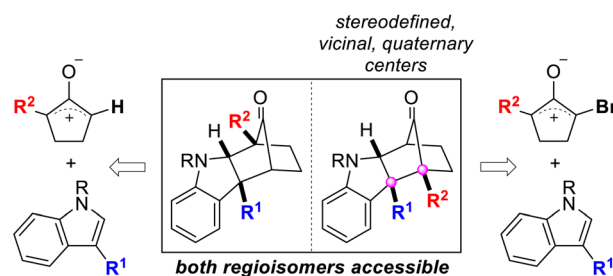
K. Yuvaraj, Jeremy C. Mullins, Thayalan Rajeshkumar, Iskander Douair, Laurent Maron* and Cameron Jones*



5196

Regiodivergent (3 + 2) annulation reactions of oxyallyl cations

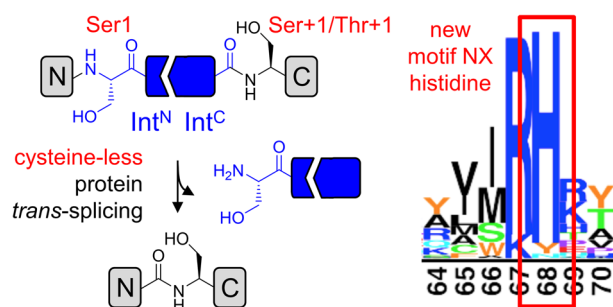
Zachary Protich, Leah L. Lowder, Russell P. Hughes* and Jimmy Wu*



5204

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

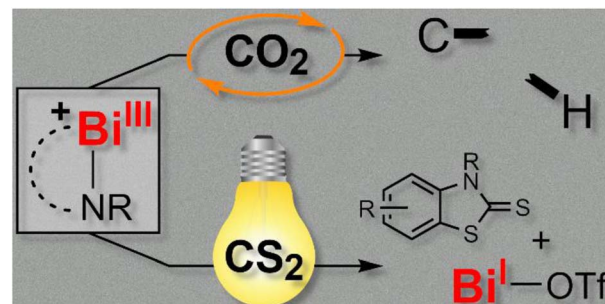
Tim Pasch, Alexander Schröder, Sabrina Kattelmann, Miriam Eisenstein, Shmuel Pietrokovski*, Daniel Kümmel* and Henning D. Mootz*



5214

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*



5220

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*

