Open Access Article. Published on 30 July 2025. Downloaded on 12/6/2025 4:14:58 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry

rsc.li/obc

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 23(30) 7015–7212 (2025)

Cover
See Tanurima Bhaumik, Raju Dey, Susanta Kumar Manna *et al.*, pp. 7124–7131.

Image reproduced by permission of Rabindra Nath Sana, Sudipta Chakraborty, Vageesh M., Soumen Adak, Tanurima Bhaumik, Raju Dey and Susanta Kumar Manna from *Org. Biomol. Chem.*, 2025, **23**, 7124.

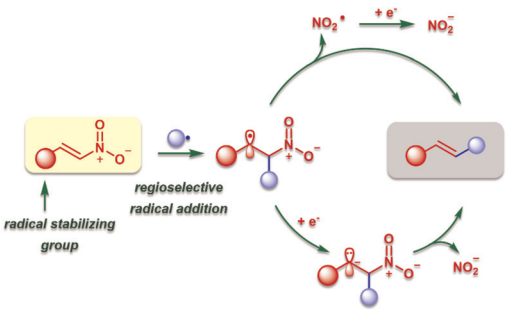
Cover image designed by Soumen Adak. Images of microbes *via* Adobe Stock.

REVIEWS

7023

Denitrative radical-induced coupling reactions of nitroalkenes

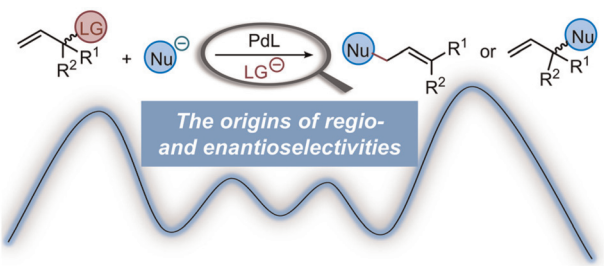
Alessandro Palmieri and Marino Petrini*



7037

Computational insights into the origins of regio- and enantioselectivities in palladium-catalyzed allylic substitution reactions

Hongli Wu, Deng Pan, Xueyuan Yan and Genping Huang*



ROYAL SOCIETY OF CHEMISTRY

View Article Online

GOLD OPEN ACCESS

EES Batteries

Exceptional research on batteries and energy storage

Part of the EES family

Join in | Publish with us

rsc.li/EESBatteries

Registered charity number: 207890

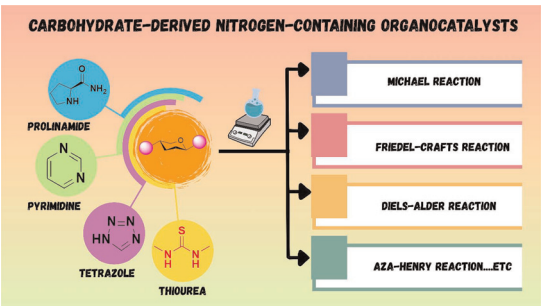
Open Access Article. Published on 30 July 2025. Downloaded on 12/6/2025 4:14:58 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

REVIEWS

7048

Sweet synthesis, precise outcomes: asymmetric catalysis using carbohydrate-based organocatalysts

Samson Lalhmangaihzuala and Khiangte Vanlaldinpuia*

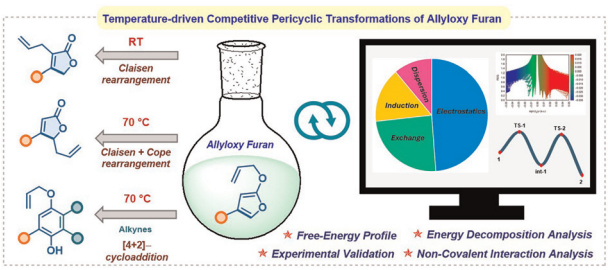


COMMUNICATIONS

7110

Insights into the temperature-driven competitive pericyclic transformations of allyloxy furan

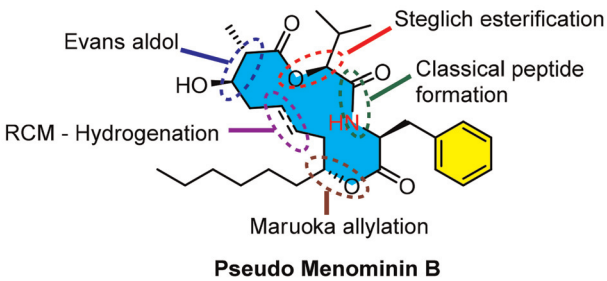
Rishu, Dinesh Kumar Gopalakrishnan, Janakiram Vaitla* and Tarak Karmakar*



7115

Stereoselective total synthesis of cytotoxic cyclodepsipeptide menominin B: call for revision of the proposed structure

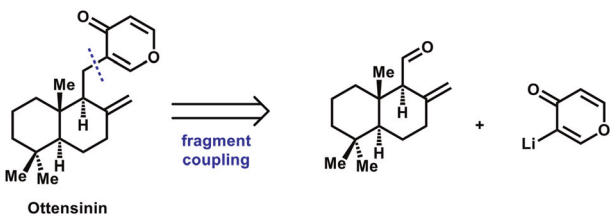
Siva Ramakrishna Paipuri, Padyabharati Nayak, Resmi Kattukaran Raman, Sai Balaji Andugulapati and Srihari Pabbaraja*



7120

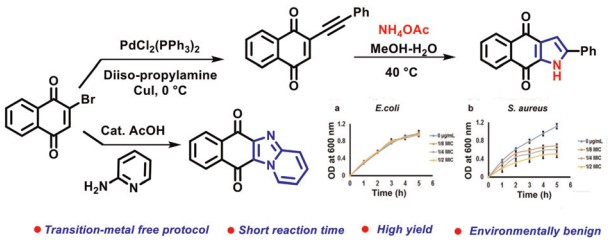
Asymmetric synthesis and biological evaluation of ottensinin and its analogues

Jun-Ting Liang, Zichen Xu, Yong-Bin Xie, Wen-Tao Chen, Yu-Tao He* and Ya-Jian Hu*



Open Access Article. Published on 30 July 2025. Downloaded on 12/6/2025 4:14:58 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

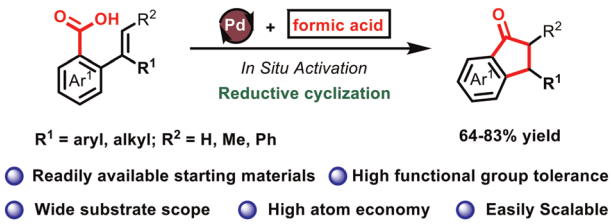
7124



Synthesis and biological evaluation of naphthoquinone-fused pyrrole and imidazopyridinedione heterocycles

Rabindra Nath Sana, Sudipta Chakraborty, Vageesh M., Soumen Adak, Tanurima Bhaumik,* Raju Dey* and Susanta Kumar Manna*

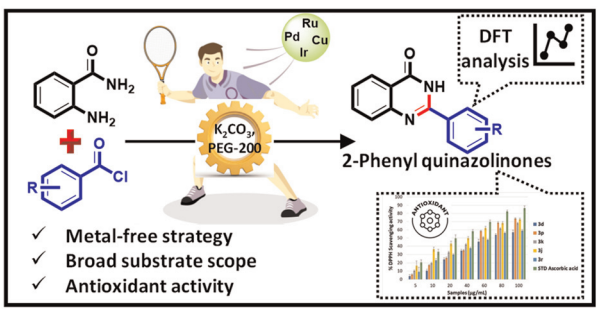
7132



Palladium-catalyzed reductive cyclization of *ortho*-vinyl benzoic acids to access 1-indanones

Zirun Wang, Chenglong Li, Bin Zheng, Qihang Tan, Qiang Wu, Long Liu,* Jacek E. Nycz,* Tianzeng Huang and Tieqiao Chen*

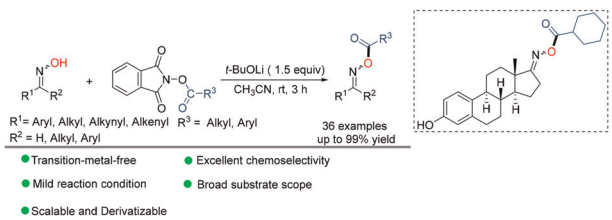
7138



Base-promoted transition-metal-free synthesis of quinazolinones with antioxidant activity

Maruboina Hemanth Kumar, Harini G. Sampatkumar, Sanjana S. Talekar, Manoj V. Mane, Vaishnavi Shashidhara, Madhavarani Alwarsamy, B. S. Sasidhar, Ling Shing Wong, Manjula Subramaniam, Meenakshi Verma, Shifa Wang, Asad Syed* and Siddappa A. Patil*

7145



Lithium *tert*-butoxide-mediated efficient transesterification of *N*-hydroxyphthalimide esters toward oxime functionalization

Jiangfei Chen,* Yi-Lin Qu, Hongyan Hao, Cheng Yao, Yu-Rou Wang, Dayun Huang,* ChenShu Dai and Shengrong Guo

This journal is © The Royal Society of Chemistry 2025

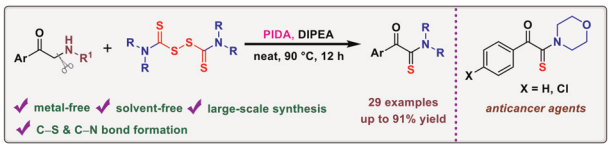
Open Access Article. Published on 30 July 2025. Downloaded on 12/6/2025 4:14:58 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

7152

Synthesis of α-keto thioamides *via* oxidative thioamidation of α-amino carbonyls using hypervalent iodine under neat conditions

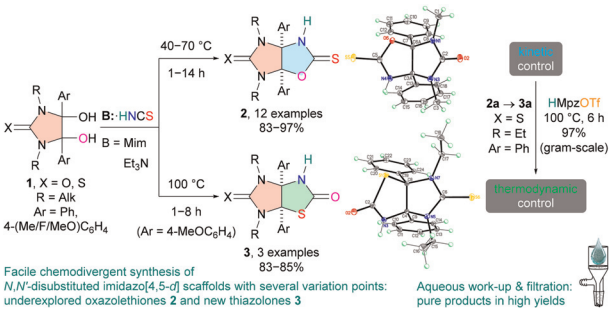
Sudip Mondal, Subhankar Sarkar, Anindita Mukherjee, Sougata Santra, Grigory V. Zyryanov and Adinath Majee*



7157

Multi-purpose thiocyanate protic ionic liquids in chemodivergent transformations of imidazolidin-2-(thi)one-based diols

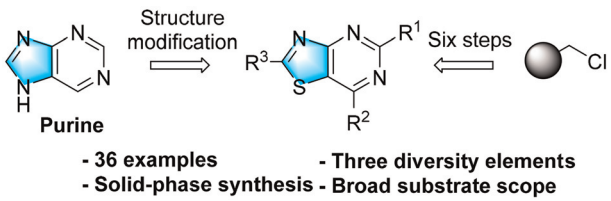
Valery P. Ermolaev, Nina K. Ratmanova,* Vladimir V. Baranov, Irina I. Levina, Victor N. Khrustalev, Olga A. Ivanova, Angelina N. Kravchenko, Igor V. Trushkov and Ivan A. Andreev*



7165

Synthesis of thiazolo[4,5-*d*]pyrimidine derivatives based on purine *via* solid-phase synthesis

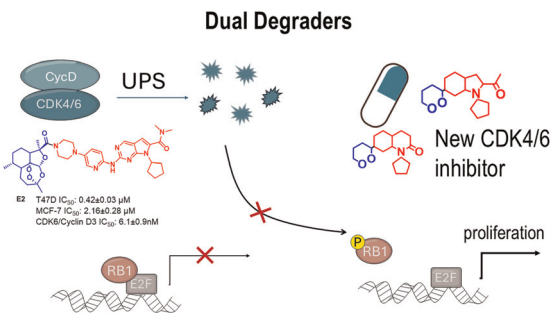
Jimin Moon, Hyojin Lee, Jungtae Kim, Shuanghui Hua, GeonHo Yoon, Hyeokjin Lee, Sugyeong Seo, Yoojin Joo, Heong-Seop Yim* and Taeho Lee*



7172

Design of pyrrolo[2,3-*d*]pyrimidine-endoperoxide hybrids as first-in-class dual degraders of cyclin D1/3 and CDK4/6 with potent antiproliferative effects

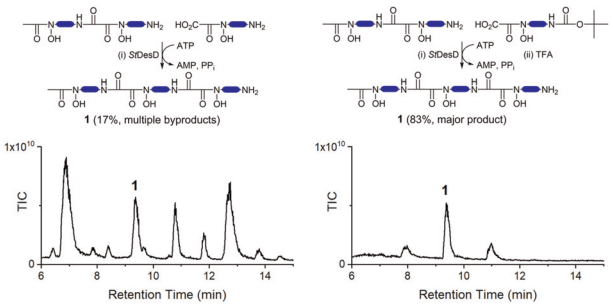
Zhen Cui, Yuanli Yang, Changqi Wang, Jiayi Zhu, Haowei Jiao, Lu Wang, Silong Zhang,* Huan He* and Hang Zhong*



Open Access Article. Published on 30 July 2025. Downloaded on 12/6/2025 4:14:58 AM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

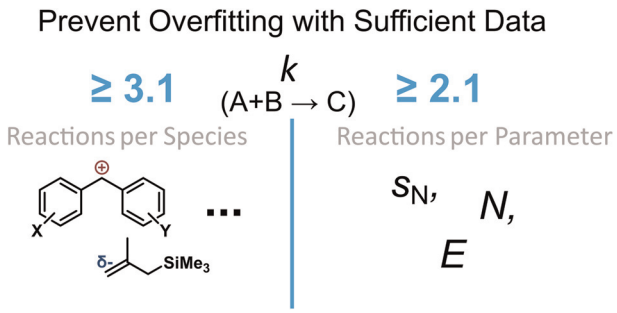
7181



Directing the chemoenzymatic assembly of desferrioxamine B as a single product using *N-tert*-butoxycarbonyl-protected substrates

Todd E. Markham, Athavan Sresutharsan, Callum A. Rosser and Rachel Codd*

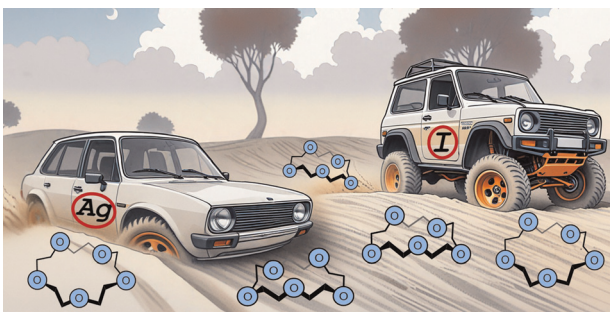
7188



Revisiting Mayr's reactivity database: expansion, sensitivity analysis, and uncertainty quantification

Moritz K.-E. Wolff, Armin R. Ofial and Jonny Proppe*

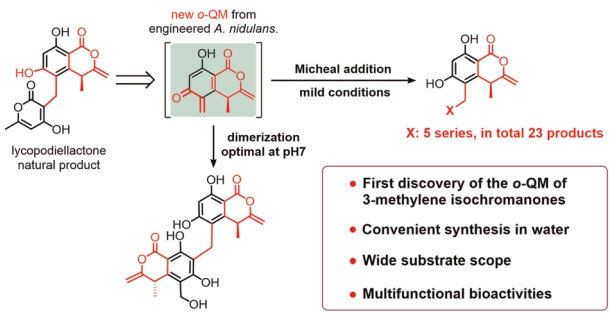
7197



Comparative study of the retention of catalytic activity of halonium and chalconium cations in the presence of crown ethers

Ivan O. Putnin, Alexandra A. Sysoeva,* Aleksey V. Kovalenko and Dmitrii S. Bolotin*

7206



Click-like *ortho*-quinone methide trapping using rare 3-methylene isochromanones for a series of multifunctional pseudo-natural products

Yi Wang, Dan Li, Hongping Long, Furong Liu, Guitao Bai, Kangping Xu and Xia Yu*

This journal is © The Royal Society of Chemistry 2025