

Organic & Biomolecular Chemistry

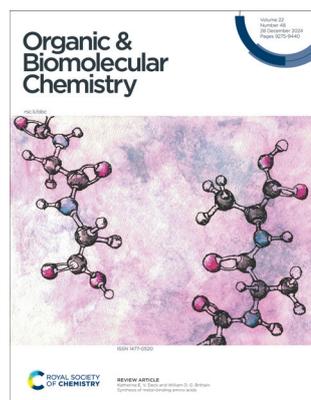
An international journal of synthetic, physical and biomolecular organic chemistry

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 22(48) 9275-9440 (2024)



Cover

See Katherine E. V. Deck and William D. G. Brittain, pp. 9283–9318.

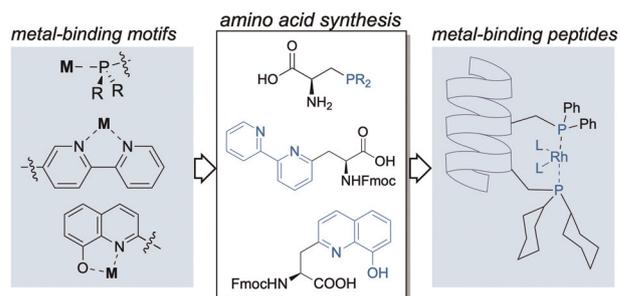
Cover image created and reproduced by permission of Katherine Deck from *Org. Biomol. Chem.*, 2024, **22**, 9283.

REVIEWS

9283

Synthesis of metal-binding amino acids

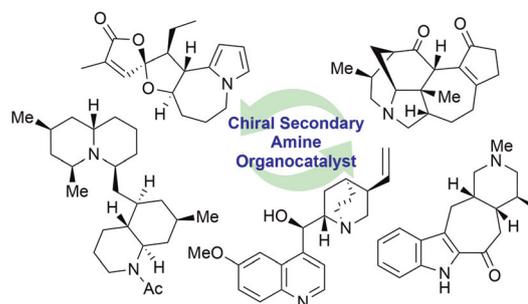
Katherine E. V. Deck* and William D. G. Brittain*



9319

Recent advances in the total synthesis of alkaloids using chiral secondary amine organocatalysts

Yuta Nakashima, Kenta Rakumitsu and Hayato Ishikawa*



**GOLD
OPEN
ACCESS**

EES Solar

**Exceptional research on solar
energy and photovoltaics**

Part of the EES family

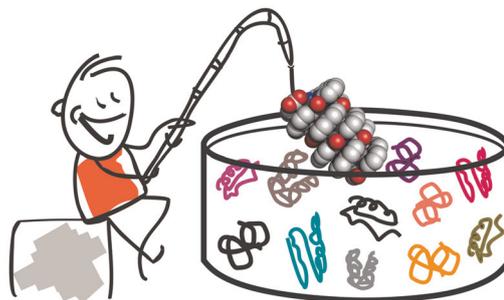
**Join
in** | Publish with us
rsc.li/EESSolar

COMMUNICATIONS

9342

Interrogating the potential of helical aromatic foldamers for protein recognition

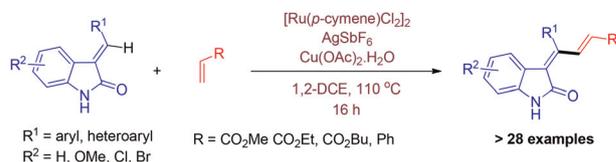
Sunbum Kwon, Vasily Morozov, Lingfei Wang, Pradeep K. Mandal, Stéphane Chaignepain, Céline Douat and Ivan Huc*



9348

Ruthenium-catalyzed Heck coupling of 3-arylidene-oxindoles with alkenes: a facile synthesis of 3-allylidene-2(3H)-oxindoles

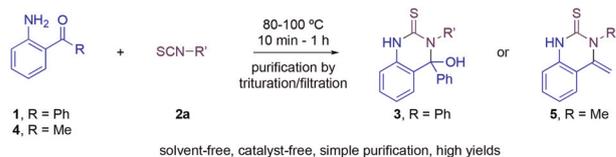
Mohan Prabhakaran, Ramesh Sanjana and Kanniyappan Parthasarathy*



9353

A solvent-free and catalyst-free reaction of o-aminobenzophenone with aryl isothiocyanates: expedient access to congested 4-phenyl-4-hydroxyquinazolin-2-thione derivatives

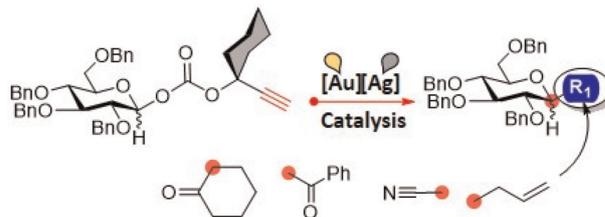
Le Anh Nguyen, Thi Thu Tram Nguyen, Quoc Anh Ngo,* Pascal Retailleau and Thanh Binh Nguyen*



9357

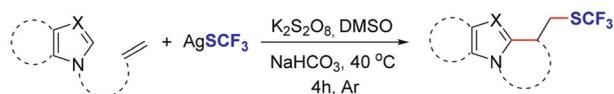
[Au]/[Ag]-catalysed synthesis of non-hydrolysable C-glycosides

Saptashwa Chakraborty, Daksh Telang, Bijoyananda Mishra and Srinivas Hotha*



COMMUNICATIONS

9361



X = N, C

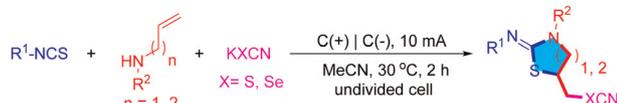
33 examples
up to 81% yield

- Metal free
- Mild reaction conditions
- Gram scale reaction
- High atom economy

Silver-mediated radical cascade trifluoromethylthiolation/cyclization of benzimidazole derivatives with AgSCF₃

Pan Liu, Yang Geng, Dapeng Zou,* Yangjie Wu* and Yusheng Wu*

9366



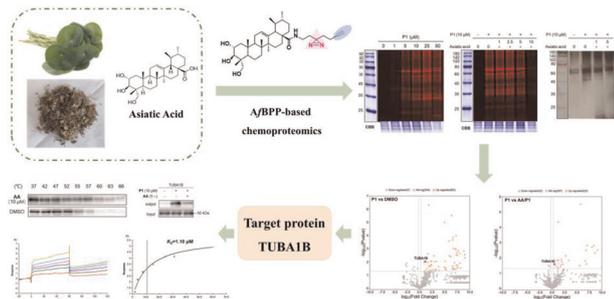
- One-pot
- External oxidant-free
- External metal-free
- External electrolyte-free
- Mild conditions
- Large-scale synthesis

Electrochemical one-pot cascade synthesis of thio(seleno)cyanato-substituted thiazolidine-2-imines without external electrolyte

Xiao Yu, Liqiang Hao, Xian Liu, Shengkui Jin, Yangchen Li, Yiping Liu* and Yafei Ji*

PAPERS

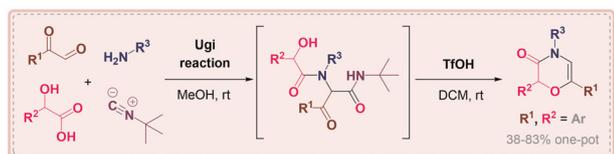
9371



Identification of α -tubulin alpha-1B chain as a target of asiatic acid using chemical proteomics in HepG2 hepatoma cells

Hong Yang, Bingbing Yang, Yu Teng, Jun Ge,* Xinchi Feng* and Yulin Tian*

9379



Triflic acid-promoted post-Ugi condensation for the assembly of 2,6-diarylmorpholin-3-ones

Niyaz Amire, Kamila M. Almagambetova, Assel Turlykul, Aidyn Taishybay, Gulzat Nuroldayeva, Andrey Belyaev, Anatoly A. Peshkov, Darkhan Utepbergenov and Vsevolod A. Peshkov*

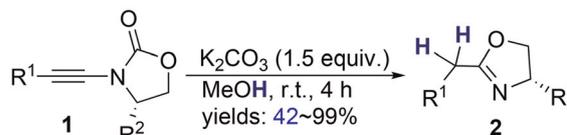


PAPERS

9388

Base-promoted tandem ring-opening/ring-closing of *N*-alkynyl-2-oxazolidinones enables facile synthesis of 2-oxazolines

Xingyuan Ye, Peng Bao, Yan Pan, Han Xiao, Qiuwen Li and Guangke He*



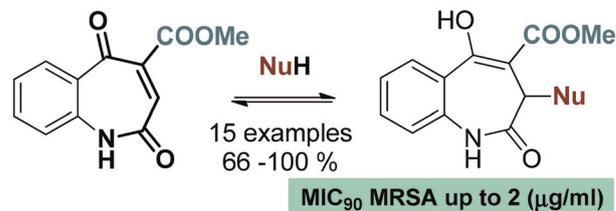
$R^1 = H$, aryl, alkenyl, and heteroaryl; $R^2 =$ Aryl and alkyl

- up to 99% yield
- without column chromatography
- ambient conditions
- late-stage functionalization
- gram-scale synthesis
- good functionality tolerance

9394

A novel 1-benzoazepine-derived Michael acceptor and its hetero-adducts active against MRSA

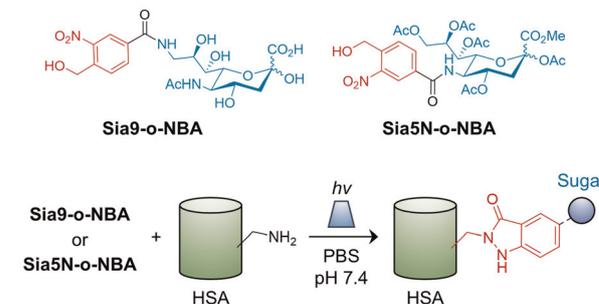
Olga Caletková,* Lucia Pinčková, Jana Nováčiková, Róbert Gyepes, Petra Olejníková, Peter Pôbiš, Helena Kandárová and Dušan Berkeš*



9403

Non-natural sialic acid derivatives with *o*-nitrobenzyl alcohol substituents for light-mediated protein conjugation and cell imaging

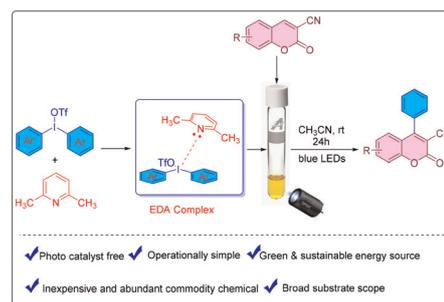
Guo-Biao Zhu, Chen Guo, Xue-Lian Ren, Ming-Zhe Li, Di-Ya Lu, Xi-Le Hu,* He Huang,* Tony D. James* and Xiao-Peng He*



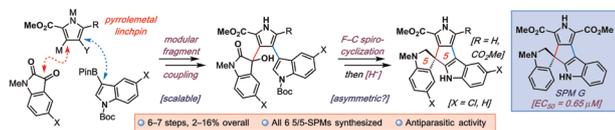
9408

Novel electron donor–acceptor (EDA) complex promoted arylation of 2-oxo-2*H*-chromene-3-carbonitriles under visible light irradiation

Tanmoy Sahoo, Dasari Vijaya Prasanna, B. Sridhar and B. V. Subba Reddy*



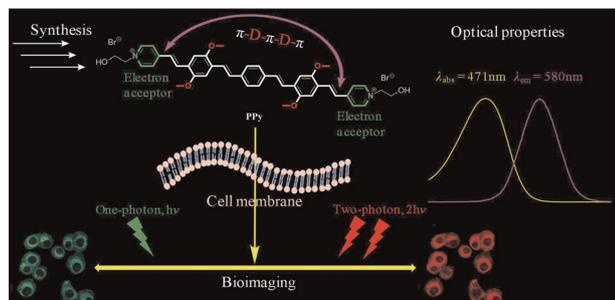
9413



Synthesis of the 5/5-spiroindimicin alkaloids: development of a general synthetic approach and biological investigations

Ankush Banerjee, Tiffany A. Brisco, Sneha Ray, Arani Datta, Xiaoyu Zhang, Zhen Zhang, Alexander A. Busse, Hanspeter Niederstrasser, Kristy Sumida, Bruce A. Posner, Dawn M. Wetzel, Margaret A. Phillips and Myles W. Smith*

9426



Synthesis, optical properties, and two-photon bioimaging evaluation of novel fluorescent cationic molecules with symmetrical long conjugated all-*trans* structures

Qiong Huang, Zhi-Bin Cai,* Sheng-Li Li, Li-Jun Chen, Qing Ye and Yu-Peng Tian

