

Organic & Biomolecular Chemistry

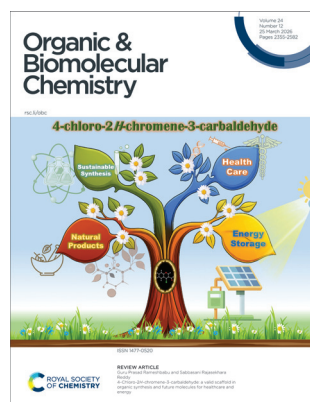
An international journal of synthetic, physical and biomolecular organic chemistry

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Cover

See Guru Prasad Rameshbabu and Sabbasani Rajasekhara Reddy, pp. 2364–2381.

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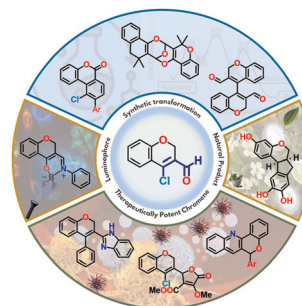
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REVIEWS

2364

4-Chloro-2H-chromene-3-carbaldehyde: a valid scaffold in organic synthesis and future molecules for healthcare and energy

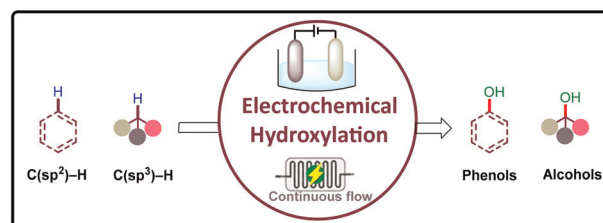
Guru Prasad Rameshbabu and Sabbasani Rajasekhara Reddy*



2382

Advances in electrochemical hydroxylation reactions: mechanistic understanding and synthetic opportunities

Lucky Panwar, Shalini Verma* and Manoj Kumar*



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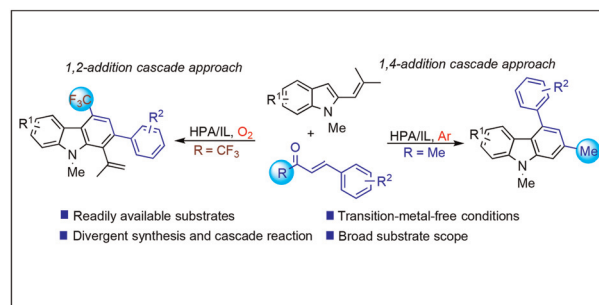
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COMMUNICATIONS

2415

Substrate-controlled divergent synthesis of substituted carbazoles through a cascade reaction of 2-alkenylindoles with α,β -unsaturated ketones

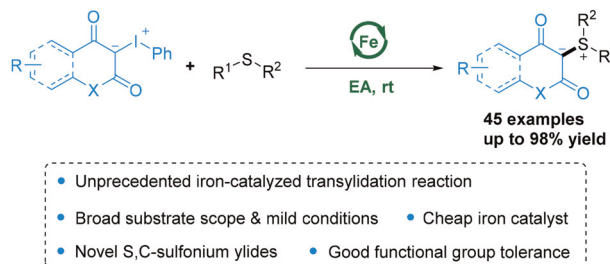
Shizhou Yang, Mingliang Wang, Hong Jiang, Rui Wang,*
Yurou Xing, Shuang Luo and Qinlin Ding



2423

Access to S,C-sulfonium ylides from iodonium ylides *via* iron catalysis

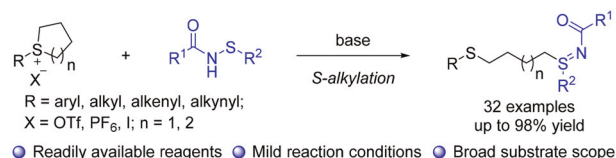
Wanqi Hu, Xingyu Chen and Xiaowei Wu*



2428

Ring-opening S-alkylation of sulfenamides with sulfonium salts

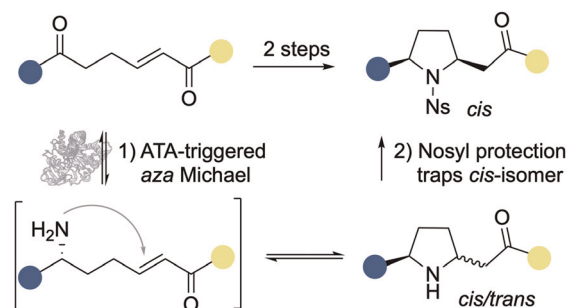
Zeyuan Zhao, Jun Guo, Xiang Wang, Youcan Zhang,*
Tiefeng Xu and Ya Li*



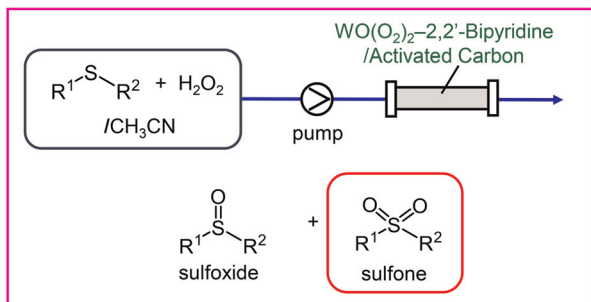
2435

Transaminase-triggered synthesis of 2,5-disubstituted pyrrolidines

Aoife Martin, Lisa Kennedy, Ishita Solanki,
Patricia Fleming, Julia Bruno, Paul Evans,
Marianne Bore Haarr* and Elaine O'Reilly*



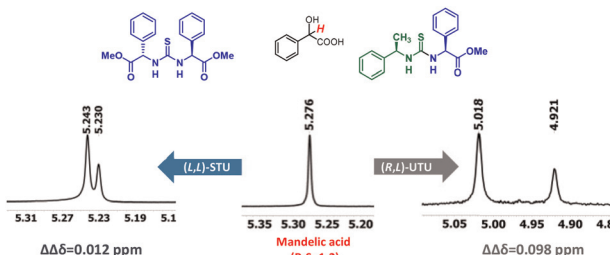
2439



Tungsten-catalyzed continuous-flow oxidation of sulfides to sulfoxes with hydrogen peroxide

Yasushi Okamoto, Kazuhiro Matsumoto, Jun-Chul Choi, Yoshihiro Kon and Ken-ichi Fujita*

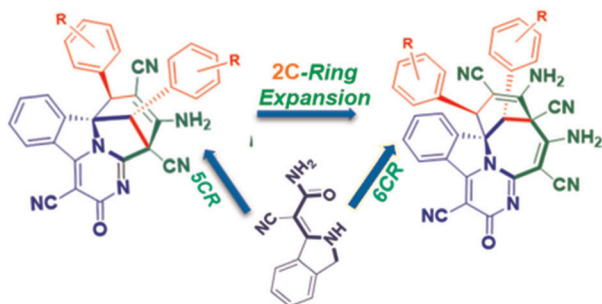
2447



Amino acid derived chiral thioureas: design, synthesis and applications as NMR resolving agents for enantioselective recognition

Astha M. Dwivedi, Raymond J. Butcher and Ashutosh V. Bedekar*

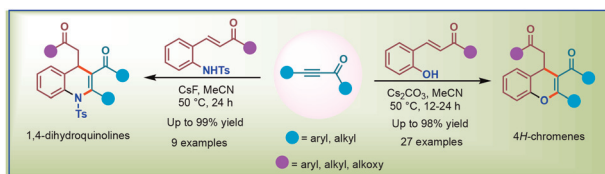
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Multicomponent domino synthesis of 6-azabicyclo[3.2.1]octanes and their cascade ring expansion toward 2-azabicyclo[4.3.1]decenes

Nithya Natarajan, Dhanavardini Mouttousadeappane and Vasuki Gnanasambandam*

2481



Ynones as versatile electrophiles for the divergent synthesis of 4*H*-chromenes and 1,4-dihydroquinolines

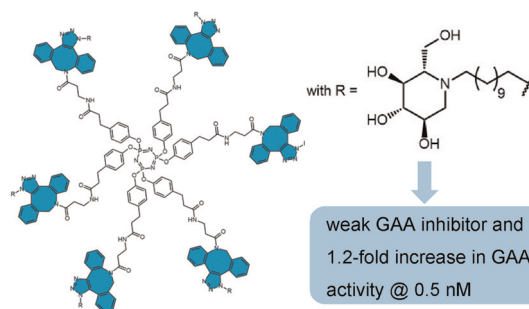
Gitanjali Mishra, Potnuru Indu, Gitanjali Muduli and Barla Thirupathi*



2487

Design of multivalent pharmacological chaperones against Pompe disease *via* metal-free ligation

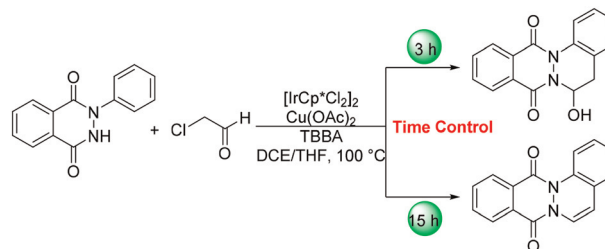
Marc Borie-Guichot, Abdelouahd Oukhrib, My Lan Tran, Cédric-Olivier Turrin, Yves Génisson, Laure Gibot, Stéphanie Ballereau and Cécile Dehoux*



2498

Regioselective iridium(III)-catalyzed C–H cyclization using an acetylene surrogate: direct access to hydroxylated polycyclic phthalazinones

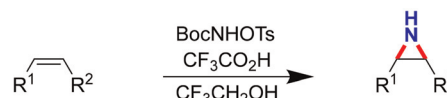
Chao Zhang, Hui Zhang and Lin Dong*



2504

Adapting Bower's intramolecular aziridination reaction allows for a metal-free synthesis of N–H aziridines

Raju Silver, Steven P. Kelley and Shyam Sathyamoorthi*

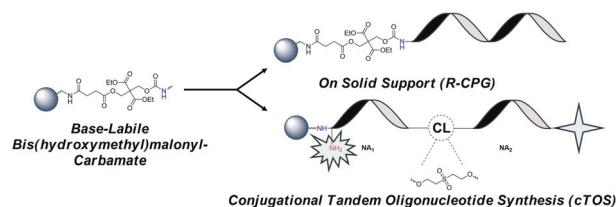


metal-free, scalable, stereospecific syntheses of N-H aziridines

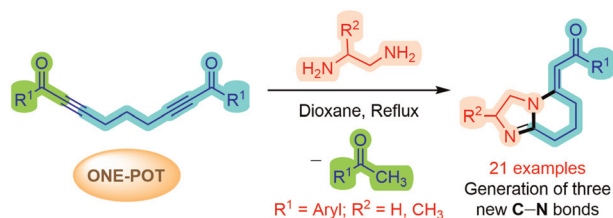
2510

A pre-synthetic conjugation methodology of DNA and RNA: combining on-column conjugation and tandem oligonucleotide synthesis

Jagandeep S. Saraya and Derek K. O'Flaherty*



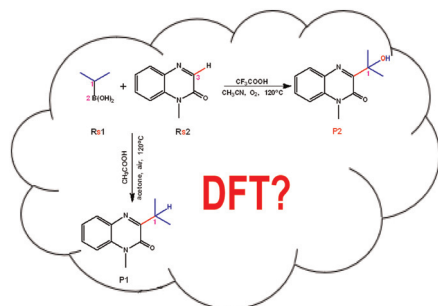
2522



Facile one-pot synthesis of 5-alkylidene-2,3,5,6,7,8-hexahydroimidazo[1,2-a]pyridines

Esra Korkmaz Yurtoglu and Metin Zora*

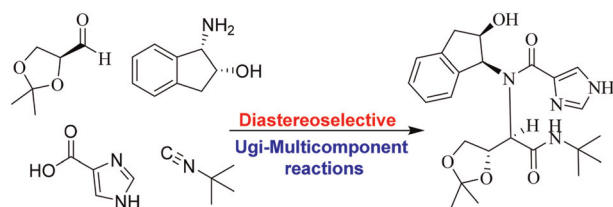
2532



Mechanisms of molecular-oxygen-mediated selective hydroxyalkylation and alkylation of quinoxalin-2(1H)-ones with alkylboronic acid: a DFT investigation

Qian-Mei Hou* and Da-Gang Zhou

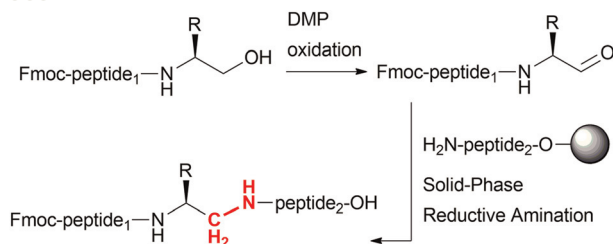
2542



Ugi multicomponent reactions of optically active aldehydes and chiral aminoindanols: diastereoselective synthesis of bisamides relevant to SARS-CoV-2 Mpro inhibitors

Arun K. Ghosh,* Amlan Bhattacharjee, Uttara Jayashankar, Sydney N. Bogan and Andrew D. Mesecar

2559



Peptide-directed solid-phase reductive amination

Maria Grigoropoulou, Dimitrios Tolis, Evrydiki Nierri, Angeliki Georgia Mandrapylia, Dimitrios Gatos, Kleomenis Barlos and Spyridon Mourtas*

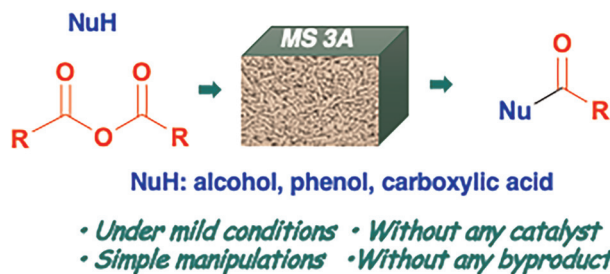


PAPERS

2570

Environmentally benign esterification and disproportionation using activation of acid anhydrides by molecular sieves 3A

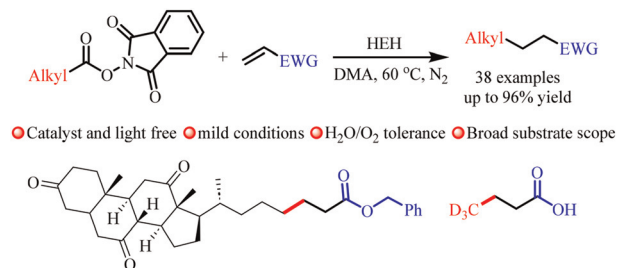
Nana Hatayama, Yuna Yoshioka and Nagatoshi Nishiwaki*



2575

Decarboxylative Giese additions through electron donor–acceptor complexes under transition metal-free conditions

Hao Tian, Cai-Ling Xu, Yi-Fang Li, Yong-Heng Wang, Gen-Long Jiao, Hao Gao* and Rong-Rong He*



CORRECTION

2580

Correction: Amino acid derived chiral thioureas: design, synthesis and applications as NMR resolving agents for enantioselective recognition

Astha M. Dwivedi, Raymond J. Butcher and Ashutosh V. Bedekar*

