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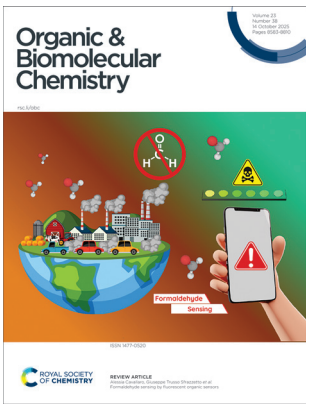

Cover
See Alessia Cavallaro, Giuseppe Trusso Sfrazzetto *et al.*, pp. 8592–8608.

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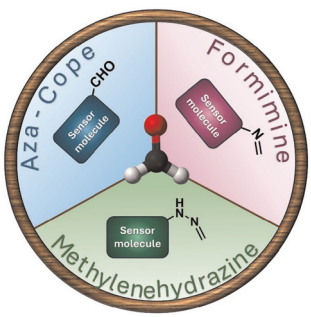
REVIEWS

8592

Formaldehyde sensing by fluorescent organic sensors

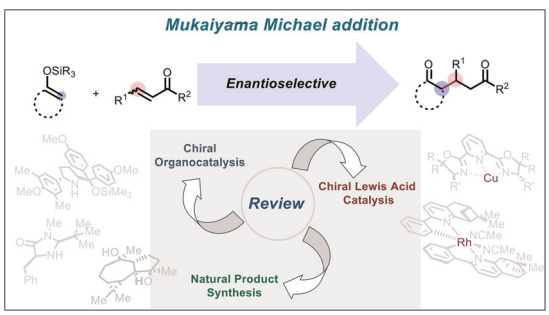
Rossella Santonocito, Andrea Pappalardo, Nunzio Tuccitto, Alessia Cavallaro* and Giuseppe Trusso Sfrazzetto*



8609

Mukaiyama–Michael reaction: enantioselective strategies and applications in total synthesis

Quinlyn Waulters-Kline, Chinnakuzhanthai Gangadurai, Sagar S. Thorat, Anna C. Renner and Mukund P. Sibi*



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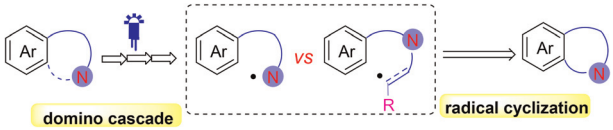
REVIEWS

8641

Visible-light-driven domino reactions toward nitrogen-containing heterocycles

Yang Li, Dong Xia and Wen-Chao Yang*



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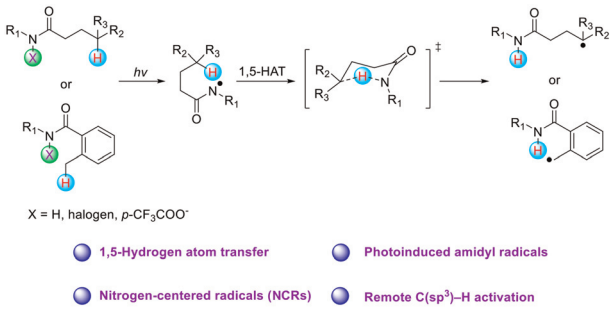
Recent advances in photoinduced amidyl radical-mediated remote C(sp^3)–H activation *via* 1,5-hydrogen atom transfer

Min Liao, Yuanyuan Li, Meiling Ye* and Chunjuan Liu*



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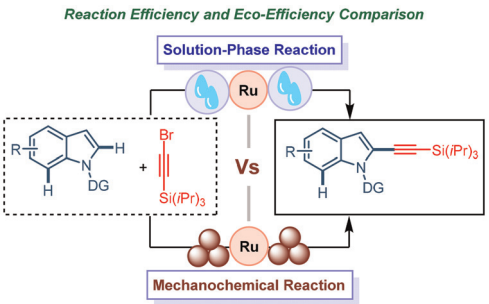
8667

Eco-efficient C–H alkynylation of indoles *via* mechanochemical ruthenium catalysis

Rajaram Maayuri, Vikash Kumar, Sourav Maiti and Parthasarathy Gandeepan*



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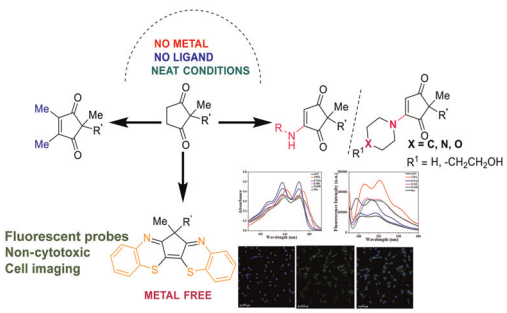
Oxidative functionalization of cyclopentane-1,3-diones: cell imaging studies of diphenothiazine derivatives

Sapana Dubey, Pragya Trivedi, Madan Sau, Sukanya Mandal, Shreya Roy, Subhrakanta Rout, Subhojit Das, Gokarneswar Sahoo,* Damien Bonne* and Tapas Das*



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COMMUNICATIONS

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Efficient synthesis of tetrahydroquinolines *via* selective reduction of quinolines with copper salts and silanes

Yulong Zhang,* Xinyu Luo and Yushuang Chen*

8682

Rhodium-catalyzed *ortho*-C–H alkylation of benzaldehydes with maleimides free of transient directing groups

Jing-Wen Jia, Wen-Ting Wei, Xiao-Zuan Chen and Xian-Ying Shi*

PAPERS

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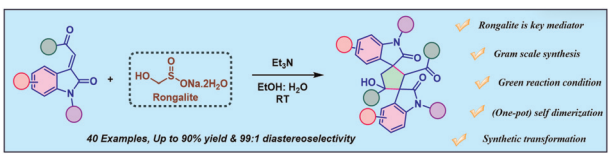

Rongalite-promoted self-dimerization of 3-acylidene-2-oxindoles: a diastereoselective route to synthesis of bispirooxindoles

Suryakant S. Chaudhari, Chandrakant B. Nichinde, Baliram R. Patil, Amardipsing S. Girase, Sandeep H. Kaulage and Anil K. Kinage*

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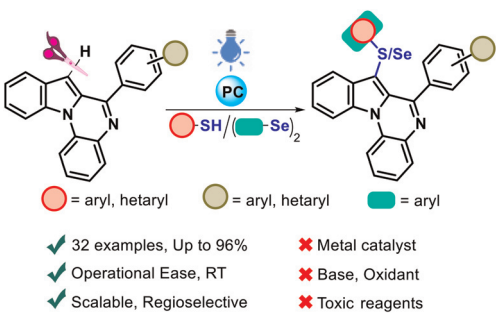

Visible-light–induced regioselective chalcogenation of indoloquinoxalines *via* cross-dehydrogenative coupling under metal-free, open-air conditions

Biman Bera, Rahul Dutta, Shubhankar Ghorai, Jhuma Ganguly and Mrinal K. Bera*

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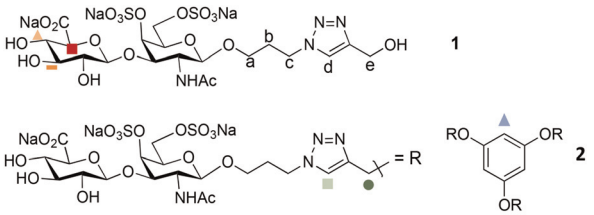
Interaction studies by NMR on the multivalent interaction between chondroitin sulfate E derivatives and the langerin receptor

M. José García-Jiménez, Sergi Gil, Pedro Domínguez-Rodriguez, Laura Roldán, Michel Thepaut, Francisco Arrabal-Campos, Ignacio Fernandez, Franck Fieschi, Javier Rojo, José. L. de Paz and Pedro M. Nieto*



Saturation Transfer Difference-NMR epitope mapping. Labelled positions received most of the magnetization

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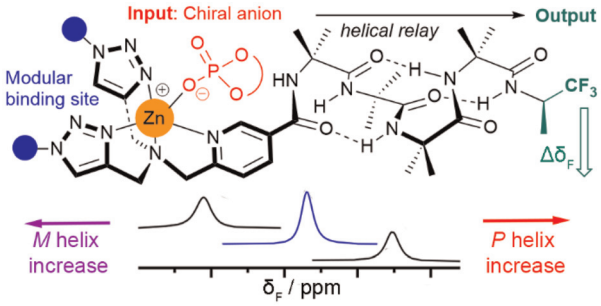
Modular synthesis of zinc(II)-bis(triazole) recognition sites for the conformational control of foldamers

Flavio della Sala, Benedicte Doerner and Simon J. Webb*



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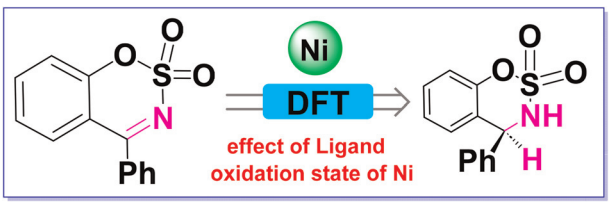
Effect of a ligand on the asymmetric hydrogenation of cyclic *N*-sulfonyl amines catalyzed by nickel

Heming Dong, Fuli Yan, Zhifeng Ma* and Baomin Fan*



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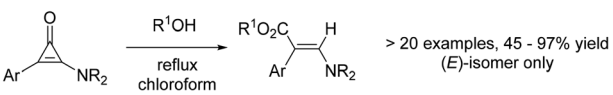
The synthesis of β-enamino esters from the thermal, catalyst-free ring opening of aminocyclopropenones

Bimod Thapa, Farideh Javid, Cameron Lawson, Mark Soesanto and Karl Hemming*



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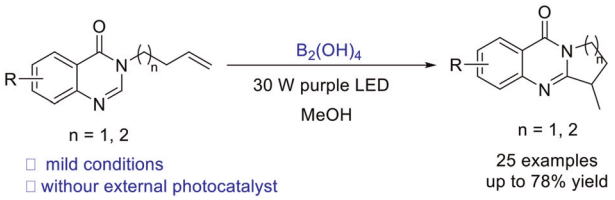

Tetrahydroxydiboron-mediated radical cyclization of unactivated alkenes toward ring-fused quinazolinones

Haijuan Qin, Xi Chen, Jing Liu, Mengfei Yang, Xia Zhao, Jie Kang* and Kui Lu*

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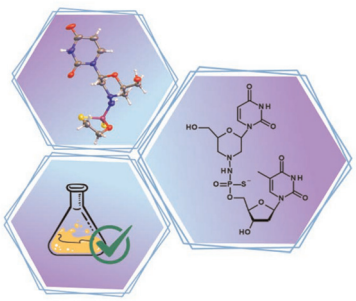

Morpholino-based phosphorothioate analogs *via* oxathiaphospholane chemistry: synthesis, structural insights and stability

Katarzyna Jastrzębska,* Agata Szymańska, Tomasz Pawlak and Rafał Dolot

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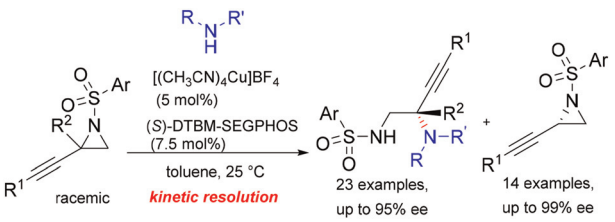

Catalytic asymmetric kinetic resolution of 2-ethynylaziridines *via* nucleophilic ring opening with amines

Wen-Tao Ji, Ting-Ting Cheng, Yao Li and Zhuo Chai*

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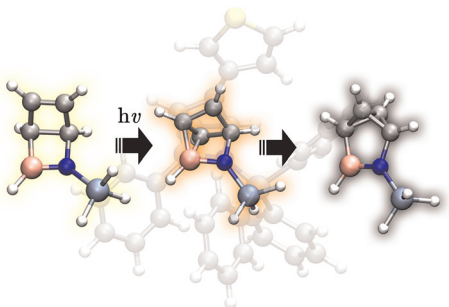

From BN-Dewar benzene to BN-benzvalene: a computational exploration of photoisomerization mechanisms

Cristian J. Guerra,* Yeray A. Rodríguez-Núñez, Efraín Polo-Cuadrado, Leandro Ayarde-Henríquez, Diana B. Ramírez and Adolfo E. Ensuncho

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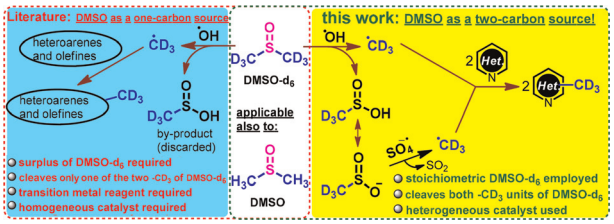
DMSO (dimethyl sulfoxide) as a two-methyl source: C–H (trideutero)methylation of (iso)quinolines and their *N*-oxides

Palani Natarajan,* Pooja, Partigya, Priya and Meena



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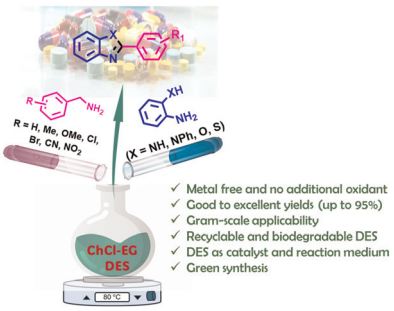
A facile route to access N-heterocycles using a choline chloride–ethylene glycol-based DES in a dual role

Susmita Mandal, Archana Jain* and Tarun K. Panda*



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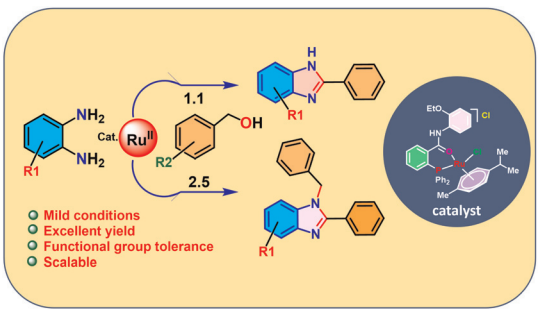
Ru^{II}-phosphine catalysed direct synthesis of benzimidazoles *via* acceptorless dehydrogenative coupling of alcohols with aromatic diamines

Ankit Pandey and Maravanji S. Balakrishna*



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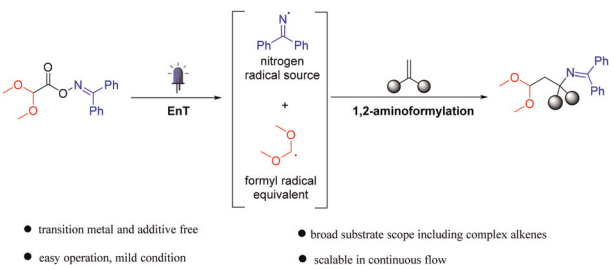
Photocatalytic 1,2-aminoformylation of olefins with bifunctional oxime esters

Zhidong Wan, Xujia Wang, Yihan Zhang, Feng Chen, Hong Qin, Zhao Yang* and Zheng Fang*



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