

# Organic & Biomolecular Chemistry

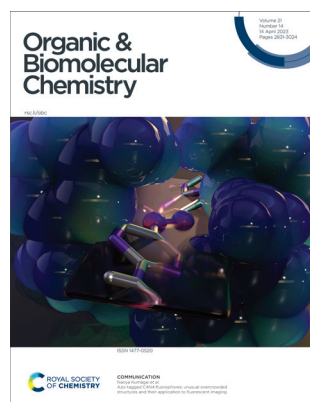
An international journal of synthetic, physical and biomolecular organic chemistry

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## IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 21(14) 2831–3024 (2023)



### Cover

See Naoya Kumagai *et al.*, pp. 2889–2893.

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### Inside cover

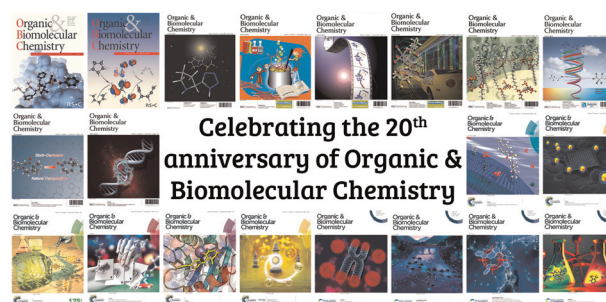
See Mara Di Filippo and Marcus Baumann, pp. 2930–2934.

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## EDITORIAL

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### Celebrating the 20<sup>th</sup> anniversary of *Organic & Biomolecular Chemistry*

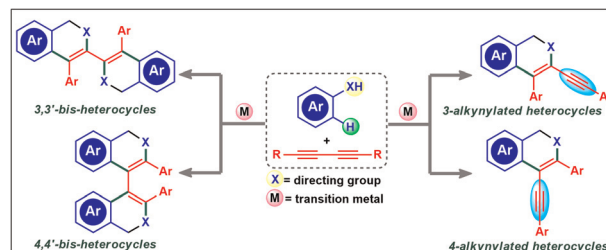


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### Transition metal-catalyzed C–H/C–C activation and coupling with 1,3-diyne

Bedadyuti Vedvyas Pati, Nitha Nahan Puthalath, Shyam Kumar Banjare, Tanmayee Nanda and Ponneri C. Ravikumar\*



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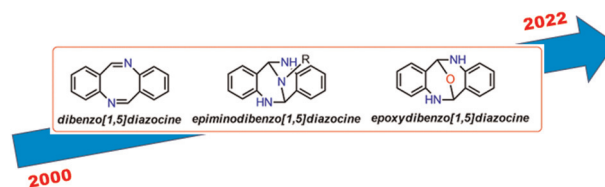


## REVIEWS

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**Synthetic strategies and diversification of dibenzo[1,5]diazocines**

Abdul Qaiyum Ramle\* and Edward R. T. Tiekink

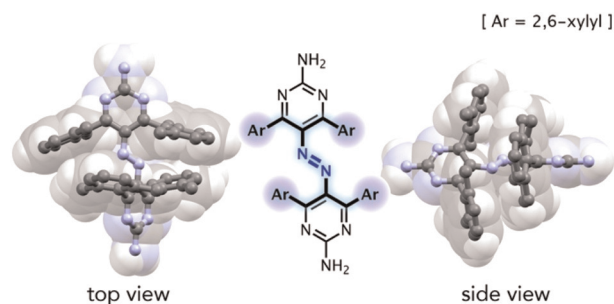


## COMMUNICATIONS

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**Azo-tagged C4N4 fluorophores: unusual overcrowded structures and their application to fluorescent imaging**

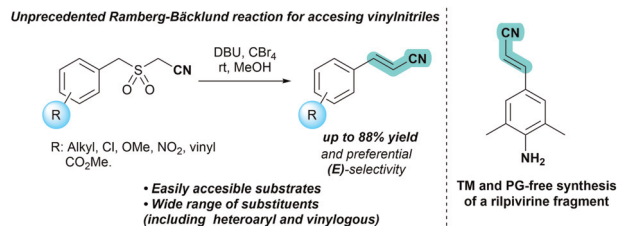
Miki Kohei, Naoki Takizawa, Ryosuke Tsutsumi, Wei Xu and Naoya Kumagai\*



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**Stereoselective synthesis of vinyl nitriles through a Ramberg–Bäcklund approach**

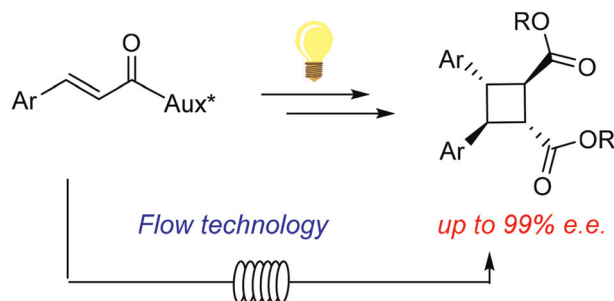
Octavio A. Valle-González, Ángel I. Salazar-Bello and J. Armando Luján-Montelongo\*



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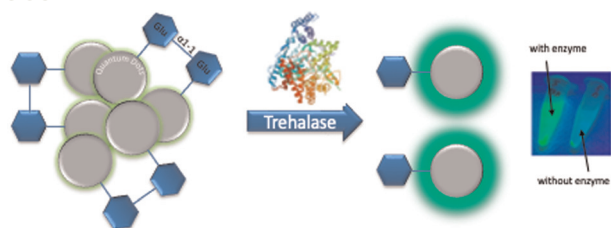
**Stereoselective [2 + 2] photodimerization: a viable strategy for the synthesis of enantiopure cyclobutane derivatives**

Fabrizio Medici, Alessandra Puglisi, Sergio Rossi, Laura Raimondi and Maurizio Benaglia\*



## COMMUNICATIONS

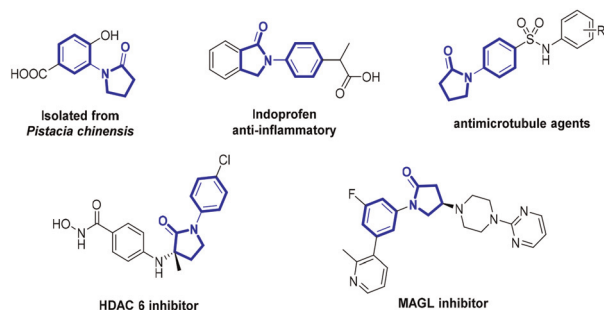
2905



## Glycosylated quantum dots as fluorometric nanoprobes for trehalase

Danielle D. Barnes, Vera Kuznetsova, Anastasia Vishneratina, Finn Purcell-Milton, Mikhail A. Baranov, Dylan M. Lynch, Harlei Martin, Yurii K. Gun'ko\* and Eoin M. Scanlan\*

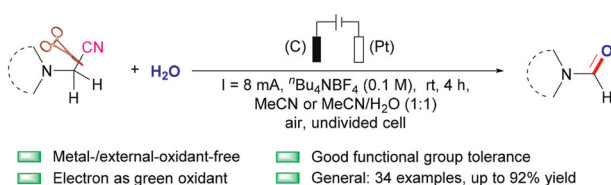
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## Regioselective C–H chalcogenylation and halogenation of arenes and alkenes under metal-free conditions

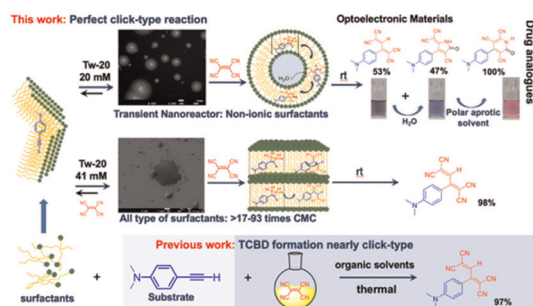
Bin Li, Mingli Hu, Jun Ge, Wei Xu, Jinghan Wu, Yao Tong, Zhengyi Zhao, Xiuxiu Liu\* and Ling He\*

2917

Electrochemically enabled decyanative C(sp<sup>3</sup>)–H oxygenation of *N*-cyanomethylamines to formamides

Mu-Jia Luo,\* Wei Zhou, Ruchun Yang, Haixin Ding, Xian-Rong Song and Qiang Xiao\*

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## A study of [2 + 2] cycloaddition–retroelectrocyclization in water: observation of substrate-driven transient-nanoreactor-induced new reactivity

K. M. Neethu, Kritika Nag, Arif Hassan Dar, Ashima Bajaj, S. Arya Gopal, Vijayendran Gowri, Mithilesh Nagpure, Shaifali Sartaliya, Raina Sharma, Arun Kumar Solanki, Md. Ehesan Ali, Azhagumuthu Muthukrishnan and Govindasamy Jayamurugan\*

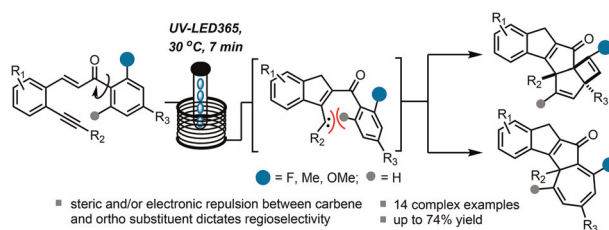


## PAPERS

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## Carbene-controlled regioselectivity in photochemical cascades

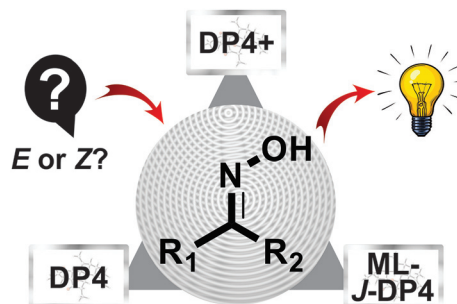
Mara Di Filippo and Marcus Baumann\*



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## E/Z configurational determination of oximes and related derivatives through quantum mechanics NMR calculations: scope and limitations of the leading probabilistic methods

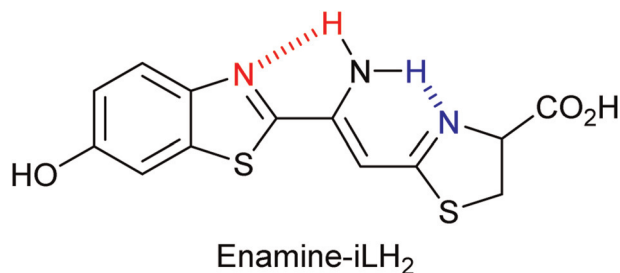
Iván Cortés and Ariel M. Sarotti\*



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## Bioluminescence, photophysical, computational and molecular docking studies of fully conformationally restricted enamine infraluciferin

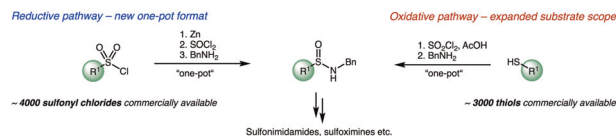
Chia-Hao Chang, Sandra Gómez, Danielle M. Fontaine, Panagiotis Fikas, Bruce R. Branchini and James C. Anderson\*



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## Complementary strategies for synthesis of sulfinamides from sulfur-based feedstock

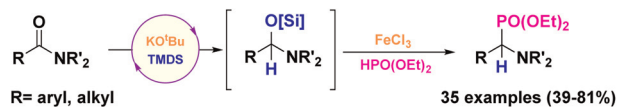
Miloš Jabczun, Vladimír Nosek and Jiří Míšek\*





## PAPERS

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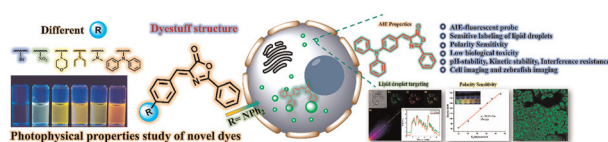


- Cheap and simple catalysts
- Broad substrate scope
- mild reaction conditions
- One pot synthesis

### Sequential $KO^tBu/FeCl_3$ -catalyzed reductive phosphonylation of tertiary amides for the synthesis of $\alpha$ -amino phosphonates and phosphines

Yue Wang, Xiaoyu Wu, Liqun Yang, Wei Liu, Zhaoguo Zhang and Xiaomin Xie\*

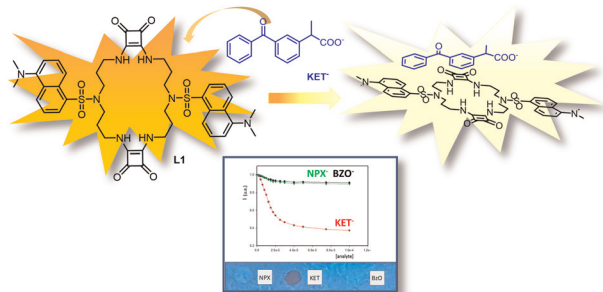
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### Effect of different substituents on the fluorescence properties of precursors of synthetic GFP analogues and a polarity-sensitive lipid droplet probe with AIE properties for imaging cells and zebrafish

Wei-Long Cui, Mao-Hua Wang, Yun-Hao Yang and Jian-Yong Wang\*

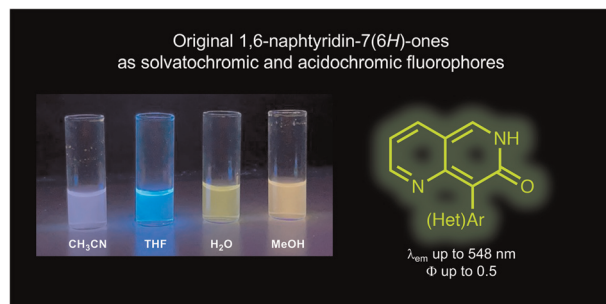
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### Fluorescent sensing of non-steroidal anti-inflammatory drugs naproxen and ketoprofen by dansylated squaramide-based receptors

Giacomo Picci, M. Carla Aragoni, Massimiliano Arca, Claudia Caltagirone,\* Mauro Formica, Vieri Fusi,\* Luca Giorgi, Filippo Ingargiola, Vito Lippolis, Eleonora Macedi, Luca Mancini, Liviana Mummolo and Luca Prodi\*

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### 1,6-Naphthyridin-7(6H)-ones: synthesis and optical properties

Anissa Beghennou, Geoffrey Gontard, Héloïse Dossmann, Kévin Passador, Serge Thorimbert, Vincent Corcé\* and Candice Botuha\*

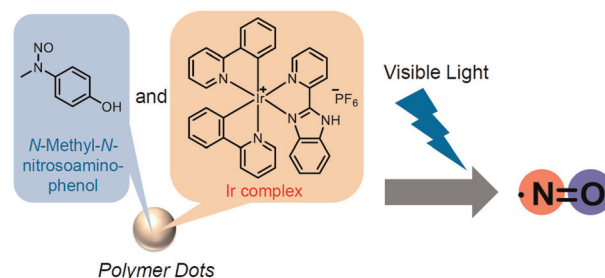


## PAPERS

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### Photoinduced NO-release from polymer dots doped with an Ir(III) complex and *N*-methyl-*N*-nitroso-4-aminophenol

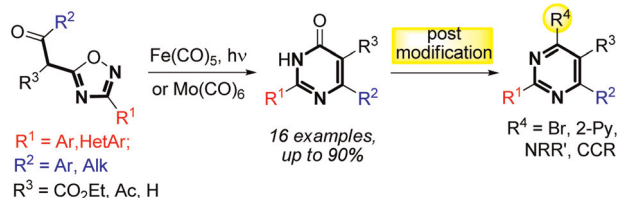
Daisuke Saitoh, Ayumi Suzuki, Naoya Ieda, Zuoyue Liu, Yasuko Osakada, Mamoru Fujitsuka, Mitsuyasu Kawaguchi and Hidehiko Nakagawa\*



2990

### Metal carbonyl mediated rearrangement of 5-(2-oxoalkyl)-1,2,4-oxadiazoles: synthesis of fully substituted pyrimidines

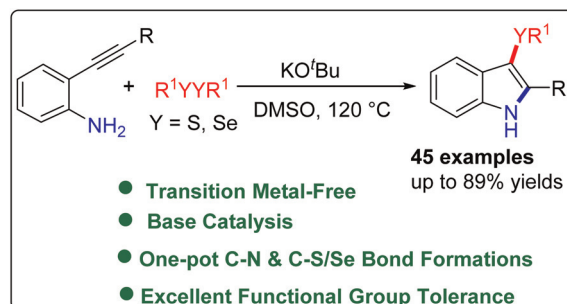
Ekaterina E. Galenko, Timur O. Zanakhov, Mikhail S. Novikov and Alexander F. Khlebnikov\*



3002

### Base-mediated chalcogenoaminative annulation of 2-alkynylanilines for direct access to 3-sulfenyl/selenenyl-1*H*-indoles

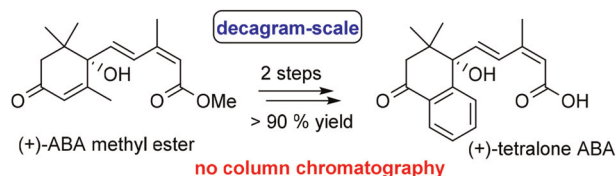
Wei-Ching Chen, Rekha Bai, Wan-Lin Cheng, Chun-Yu Peng, Daggula Mallikarjuna Reddy, Satpal Singh Badsara and Chin-Fa Lee\*



3014

### An efficient and scalable synthesis of a persistent abscisic acid analog (+)-tetralone ABA

Naveen Diddi, Leon Lai, Christine Ha Nguyen, Dawei Yan, Eiji Nambara and Suzanne Abrams\*



## CORRECTIONS

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**Correction: An efficient metal free synthesis of 2-aminobenzothiozoles – a greener approach**

Krithika Ganesh, Ganesh Sambasivam,\* Govindarajulu Gava, Ramaraj S, Gaikwad Rajendra and S. Karthikeyan\*

3021

**Correction: An asymmetric metal-templated route to amino acids with an isoquinolone core via a Rh(III)-catalyzed coupling of aryl hydroxamates with chiral propargylglycine Ni(II) complexes**

Mikhail A. Arsenov, Nadezhda V. Stoletova, Tat'yana F. Savel'yeva, Alexander F. Smol'yakov, Victor I. Maleev, Dmitry A. Loginov\* and Vladimir A. Larionov\*

