



COVID-19 Remote Access Support: [Learn More](#) about expanded access to ACS Publications research.

## Most Read Articles

### Description:

Most Read articles are refreshed daily and are based on full text downloads (PDF and HTML) from the previous 30 days and previous 12 months. Below are the journal's Top 20 most downloaded articles for the previous 30 days.

JACS  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

1 month

12 Months

### Total Synthesis of Ritterazine B

Yasuaki Nakayama, Michael R. Maser, Tatsuya Okita, Anton V. Dubrovskiy, Taryn L. Campbell, and Sarah E. Reisman\*

*J. Am. Chem. Soc.* 2021 143, 11, 4187-4192 (Article) Subscribed

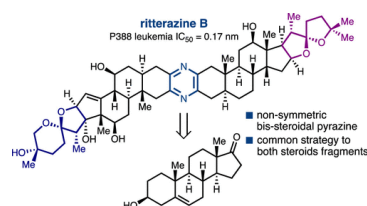
Publication Date (Web): March 9, 2021

Abstract

Full Text

PDF

ABSTRACT



### Hydrogen Atom Transfer-Driven Enantioselective Minisci Reaction of Amides

Rupert S. J. Proctor, Padon Chuentragool, Avene C. Colgan, and Robert J. Phipps\*

*J. Am. Chem. Soc.* 2021 143, 13, 4928-4934 (Article)

Publication Date (Web): March 29, 2021

Abstract

Full Text

PDF

ABSTRACT



25 examples  
up to 85% yield  
up to 98% ee

### Nickel-Catalyzed Reversible Functional Group Metathesis between Aryl Nitriles and Aryl Thioethers

Tristan Delcaillau, Philip Boehm, and Bill Morandi\*

*J. Am. Chem. Soc.* 2021 143, 10, 3723-3728 (Article)

Publication Date (Web): March 3, 2021

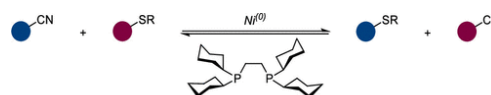
ACS Editors' Choice Date: March 3, 2021

Abstract

Full Text

PDF

ABSTRACT



- Fully reversible
- Controlled direction of the equilibrium
- M-CN, R-SH, base and Lewis acid free
- Broad substrate scope (> 60 examples)
- Scalable and user-friendly
- Synthetic applications

### Radical Decarboxylative Carbometalation of Benzoic Acids: A Solution to Aromatic Decarboxylative Fluorination

Peng Xu, Priscila López-Rojas, and Tobias Ritter\*

*J. Am. Chem. Soc.* 2021 143, 14, 5349-5354 (Article) Subscribed

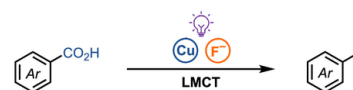
Publication Date (Web): April 5, 2021

Abstract

Full Text

PDF


ABSTRACT



ambient reaction temperature  
broad substrate scope  
good functional group tolerance

### Stealth Fluorescence Labeling for Live Microscopy Imaging of mRNA Delivery

Tom Baladi, Jesper R. Nilsson, Audrey Gallud, Emanuele Celauro, Cécile Gasse, Fabienne Levi-Acobas, Ivo Sarac, Marcel R. Hollenstein, Anders Dahlén, Elin K. Esbjörner\*, and L. Marcus Wilhelmsson\*

*J. Am. Chem. Soc.* 2021 143, 14, 5413-5424 (Article) 

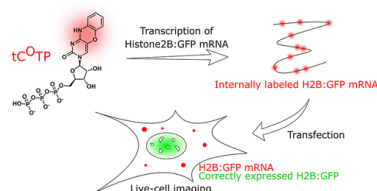
Publication Date (Web): April 2, 2021

 Abstract

 Full Text


 PDF

ABSTRACT



## Photocatalytic Dehydroxymethylative Arylation by Synergistic Cerium and Nickel Catalysis

Yuegang Chen, Xin Wang, Xu He, Qing An, and Zhiwei Zuo\*

*J. Am. Chem. Soc.* 2021 143, 13, 4896-4902 (Article)  Subscribed

Publication Date (Web): March 23, 2021

 Abstract

 Full Text

 PDF

ABSTRACT



## Direct $\alpha$ -Acylation of Alkenes via N-Heterocyclic Carbene, Sulfinate, and Photoredox Cooperative Triple Catalysis

Kun Liu and Armido Studer\*

*J. Am. Chem. Soc.* 2021 143, 13, 4903-4909 (Article) 

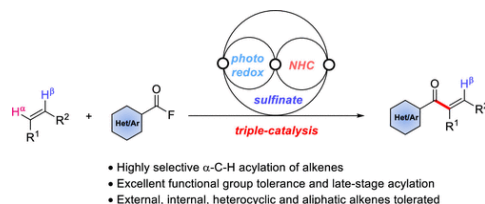
Publication Date (Web): March 24, 2021

 Abstract

 Full Text


 PDF

ABSTRACT



## Photochemical C-H Activation Enables Nickel-Catalyzed Olefin Dicarbofunctionalization

Mark W. Campbell, Mingbin Yuan, Viktor C. Polites, Osvaldo Gutierrez\*, and Gary A. Molander\*

*J. Am. Chem. Soc.* 2021 143, 10, 3901-3910 (Article)  Subscribed

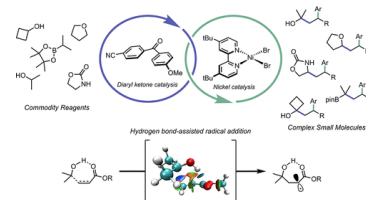
Publication Date (Web): March 4, 2021

 Abstract

 Full Text

 PDF

ABSTRACT



## Tunable Methacrylamides for Covalent Ligand Directed Release Chemistry

Rambabu N. Reddi, Efrat Resnick, Adi Rogel, Boddu Venkateswara Rao, Ronen Gabizon, Kim Goldenberg, Neta Gurwicz, Daniel Zaidman, Alexander Plotnikov, Haim Barr, Ziv Shulman, and Nir London\*

*J. Am. Chem. Soc.* 2021 143, 13, 4979-4992 (Article) 

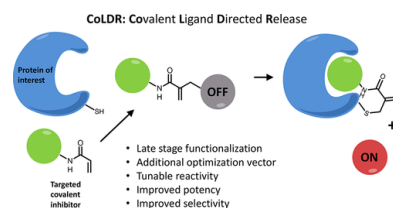
Publication Date (Web): March 24, 2021

 Abstract

 Full Text

 PDF

ABSTRACT



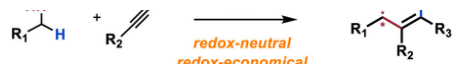
## Nickel-Catalyzed Enantioselective $\alpha$ -Alkenylation of *N*-Sulfonyl Amines: Modular Access to Chiral $\alpha$ -Branched Amines

Lun Li, Yu-Cheng Liu, and Hang Shi\*



Abstract Full Text PDF

ABSTRACT



simple, linear substrates  
R<sub>1</sub>: alkyl or aryl groups  
R<sub>2,3</sub>: alkyl, aryl or silyl groups

modular, branched amines  
broad scope  
high atom economy  
enantioselectivity (up to 97% ee)

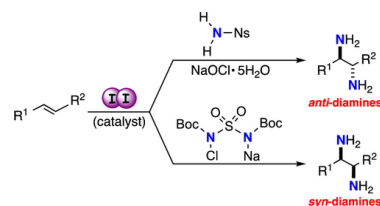
## Diastereodivergent Intermolecular 1,2-Diamination of Unactivated Alkenes Enabled by Iodine Catalysis

Satoshi Minakata\*, Hayato Miwa, Kenya Yamamoto, Arata Hirayama, and Sota Okumura

J. Am. Chem. Soc. 2021 143, 11, 4112-4118 (Article) Subscribed  
Publication Date (Web): March 12, 2021

Abstract Full Text PDF

ABSTRACT



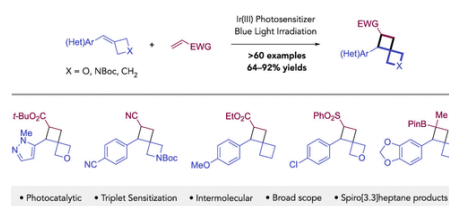
## Intermolecular Crossed [2 + 2] Cycloaddition Promoted by Visible-Light Triplet Photosensitization: Expedient Access to Polysubstituted 2-Oxaspiro[3.3]heptanes

Philip R. D. Murray, Willem M. M. Bussink, Geraint H. M. Davies, Farid W. van der Mei, Alyssa H. Antropow, Jacob T. Edwards, Laura Akullian D'Agostino, J. Michael Ellis, Lawrence G. Hamann, Fedor Romanov-Michailidis\*, and Robert R. Knowles\*

J. Am. Chem. Soc. 2021 143, 10, 4055-4063 (Article) Subscribed  
Publication Date (Web): March 5, 2021

Abstract Full Text PDF

ABSTRACT



• Photocatalytic • Triplet Sensitization • Intermolecular • Broad scope • Spiro[3.3]heptane products

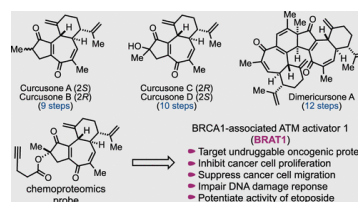
## Total Synthesis and Target Identification of the Curcusone Diterpenes

Chengsen Cui, Brendan G. Dwyer, Chang Liu, Daniel Abegg, Zhong-Jian Cai, Dominic G. Hoch, Xianglin Yin, Nan Qiu, Jie-Qing Liu, Alexander Adibekian\*, and Mingji Dai\*

J. Am. Chem. Soc. 2021 143, 11, 4379-4386 (Article) Subscribed  
Publication Date (Web): March 11, 2021

Abstract Full Text PDF

ABSTRACT



## Bioinspired Diversification Approach Toward the Total Synthesis of Lycodine-Type Alkaloids

Hannah M. S. Haley, Stefan E. Payer, Sven M. Papidocha, Simon Clemens, Jonathan Nyenhuis, and Richmond Sarpong\*

J. Am. Chem. Soc. 2021 143, 12, 4732-4740 (Article)   
Publication Date (Web): March 17, 2021

Abstract Full Text PDF

ABSTRACT

Article figure

## Concise Synthesis of 9,11-Secosteroids Pinnigorgiols B and E

Xinghui Li, Zeliang Zhang, Huafang Fan, Yinlong Miao, Hailong Tian, Yucheng Gu, and Jinghan Gui\*

J. Am. Chem. Soc. 2021 143, 13, 4886-4890 (Article) Subscribed  
Publication Date (Web): March 24, 2021

Abstract Full Text PDF

Article figure