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<< Back

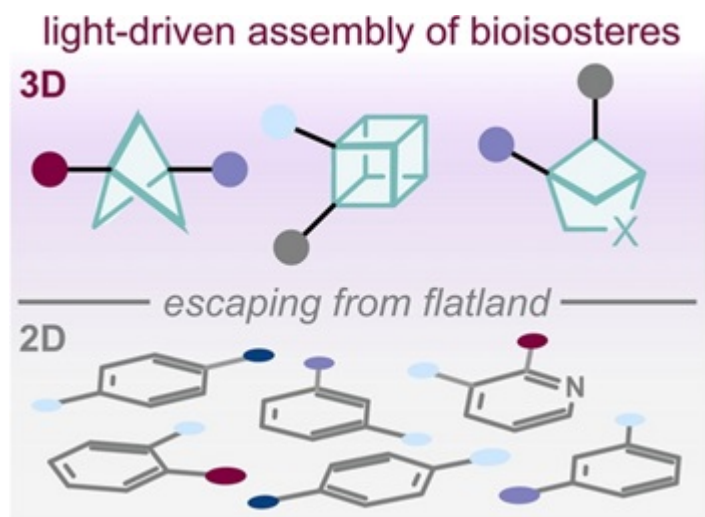
2024 2023 2022 2021 2020 2019 2018 2017 2016 2015
2014 2013 2012 2011 2010-

2024

[112]. S. Cuadros, J. Paut, E. Anselmi, G. Dagousset, E. Magnier, L. Dell'Amico
**Light-Driven Synthesis and Functionalization of Bicycloalkanes, Cubanes and
Related Bioisosteres**

Angew. Chem. Int. Ed. **2024**, *63*, e202317333

DOI: 10.1002/anie.202317333



[111]. Y. Li, G. Dagousset, E. Magnier, B. Pégot
From perfluoroalkyl aryl sulfoxides to ortho thioethers

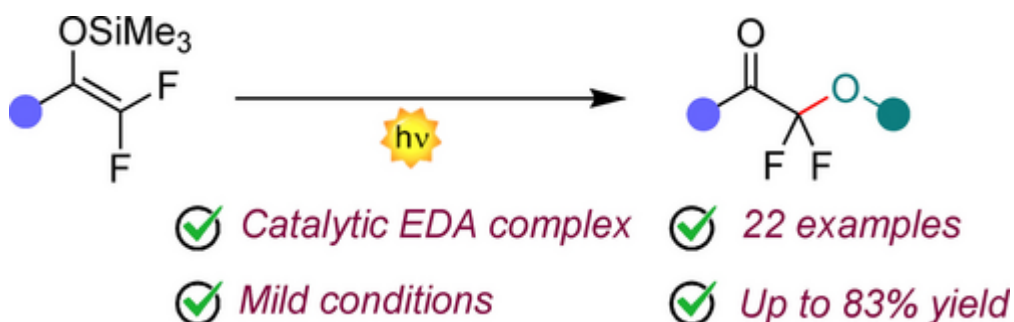
Beilstein J. Org. Chem. **2024**, *20*, 2108–2113.

DOI: 10.3762/bjoc.20.181

[110]. J. Paut, S. Baldon, E. Anselmi, L. Dell'Amico, G. Dagousset, E. Magnier
Photocatalytic -Difluoroalkoxyketones Synthesis via Radical Intermolecular Alkoxylation of Difluoroenol Silyl Ethers

Adv. Synth. Catal. **2024**, *366*, 3500-3504.

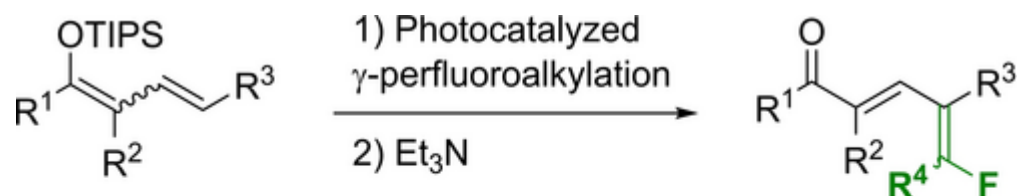
DOI: 10.1002/adsc.202400510



[109]. M. Briand, E. Magnier, E. Anselmi, G. Dagousset
Photocatalyzed One-Pot Selective Synthesis of -(per)fluoroalkenylated , -Unsaturated Carbonyl Compounds

Adv. Synth. Catal. **2024**, *366*, 3494-3499.

DOI: 10.1002/adsc.202400462

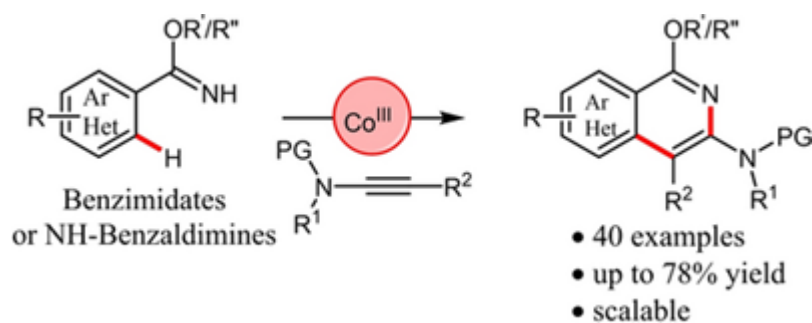


- ✓ For enal, enones, and α,β -unsaturated amides
- ✓ One-pot protocol
- ✓ $R^4 = \text{H, F, R}_F, \text{CO}_2\text{Et, CONR}_2, \text{P}(\text{O})(\text{OEt})_2$
- ✓ 28 examples, 19-77% yield

[108]. H. Sanaa, L. Mimoun, P. Retailleau, E. Anselmi, C. Nicolas, I. Gillaizeau
Cobalt-Catalyzed Annulation of Benzimidates or NH-Benzaldimines with Ynamides: Synthesis of 1-Alkoxy- and 1-Alkyl-3-Aminoisoquinolines

Adv. Synth. Catal. **2024**, *366*, 2495-2500.

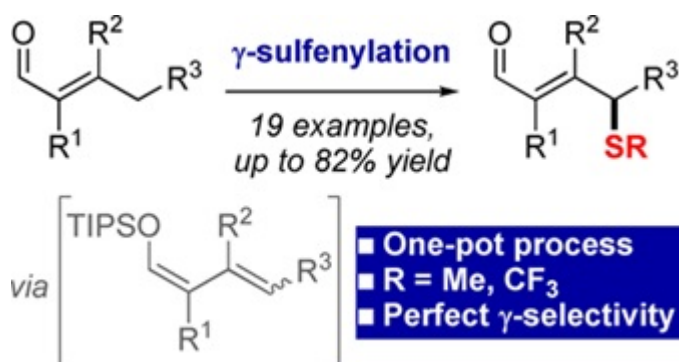
DOI: 10.1002/adsc.202400166



[107]. C. Banoun, K. Henault, E. Magnier, G. Dagousset
One-Pot Regioselective -Trifluoromethylthiolation and -Methylthiolation of Enals

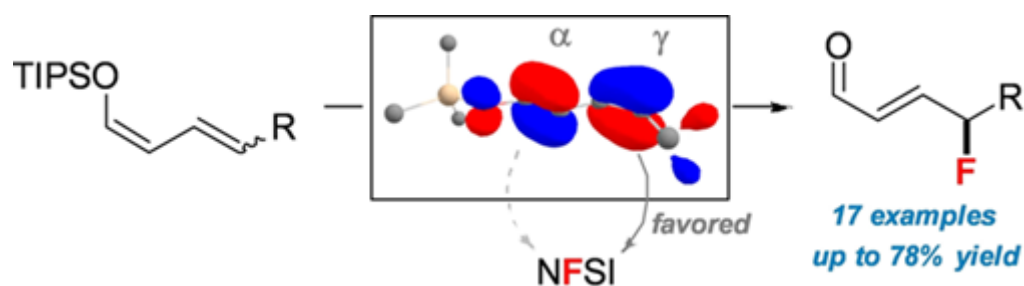
Eur. J. Org. Chem. **2024**, e202400119.

DOI:10.1002/ejoc.202400119



[106]. Y. Li, M. Briand, K. Miqueu, E. Anselmi, E. Magnier, G. Dagousset
Electrophilic Fluorination of Silyl Dienol Ethers: a General and Selective Access to -Fluoro Enals

Chem. Eur. J. **2024**, *30*, e202303545

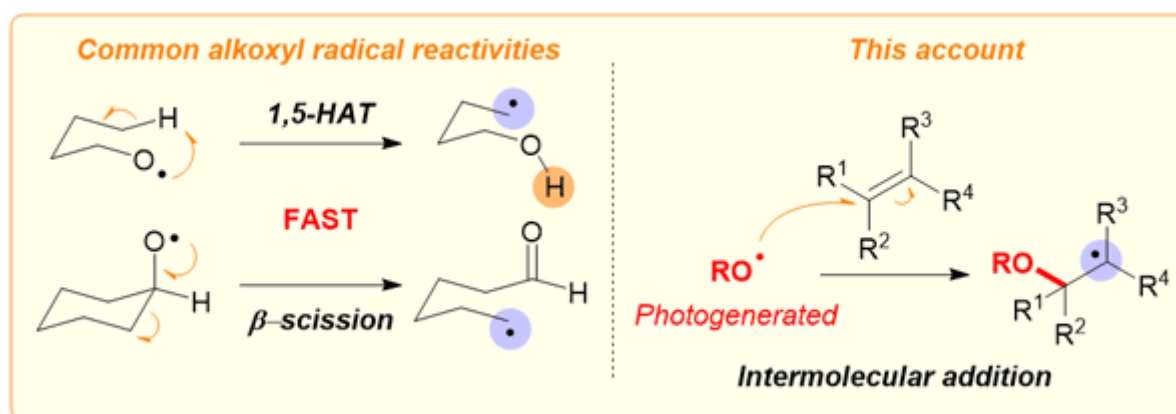


[105]. C. Banoun, E. Magnier, G. Dagousset

Recent Uses of Photogenerated Oxygen-Centered Radicals in Intermolecular C-O Bond Formation

Synlett, **2024**, 35, 268-278

DOI: 10.1055/a-2131-4126



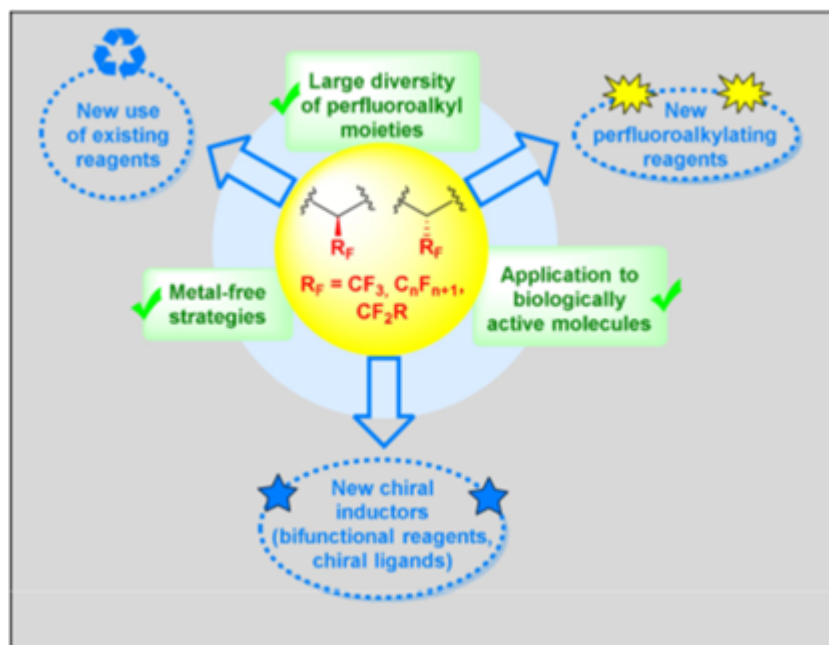
2023

[104]. M. Briand, E. Anselmi, G. Dagousset, E. Magnier.

The revival of Enantioselective Perfluoroalkylation - Update of New Synthetic Approaches from 2015-2022

Chem. Rec. **2023**, 23, e202300114

DOI/10.1002/tcr.202300114

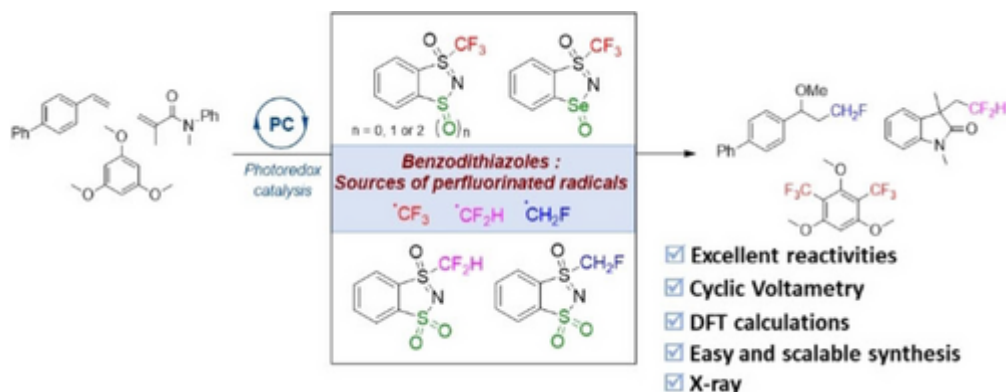


[103]. T. Duhail, S. Messaoudi, G. Dagousset, J. Marrot, C. André-Barrès, E. Magnier, E. Anselmi.

Benzodithiazoles-Sulfoximines: Preparation, Properties and Reactivities as Radical Perfluoroalkylating Agents

Adv. Synth. Catal. **2023**, *365*, 2392

DOI/10.1002/adsc.202300553

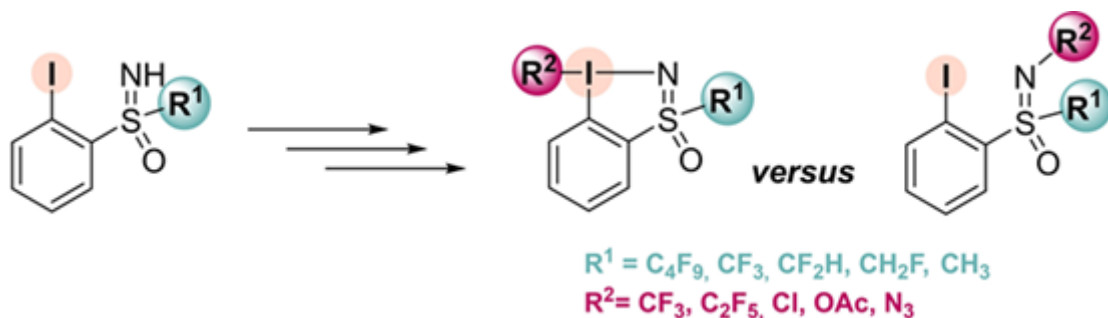


[102]. T. Duhail, J. Kalim, J. Marrot, B. Pégot, E. Magnier, E. Anselmi

Perfluoroalkylated Sulfoximines as Analogues of Togni Reagents: The Crucial role of Fluorine Atoms for the Stability of Hypervalent Iodine Scaffolds

Eur. J. Org. Chem. **2023**, e202300963

DOI:10.1002/ejoc.202300963

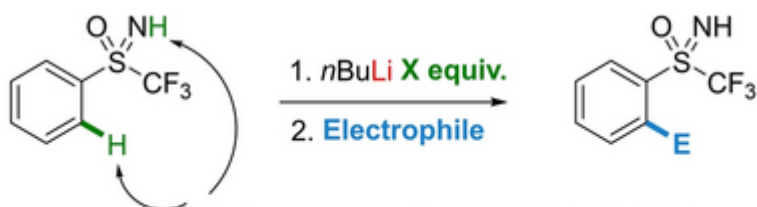


[101]. M. Hédouin, A.-L. Barthelemy, N. Vanthuyne, H. Besrour, J. Maddaluno, E. Magnier, H. Oulyadi

NMR and DFT Studies with a Doubly Labelled $^{15}\text{N}/^6\text{Li}$ S-Trifluoromethyl Sulfoximine Reveal Why a Directed ortho-Lithiation Requires an Excess of *n*-BuLi

Angew. Chem. Int Ed. **2023**, *62*, e202214106.

DOI:10.1002/anie.202214106



- In theory: 2 equivalents are enough and double alkylation occurs
- In reality: 3 to 5 equivalents are necessary and selective functionalization

[100]. A. de Zordo-Banliat, K. Grollier, N. Vanthuyne, S. Floquet, T. Billard, G. Dagousset, B. Pégot, E. Magnier

Perfluoroalkyl Selenoxides, Selenones and Selenoximines: General Preparation and Properties

Angew. Chem. Int. Ed. **2023**, 10.1002/anie.202300951

DOI/10.1002/anie.202300951

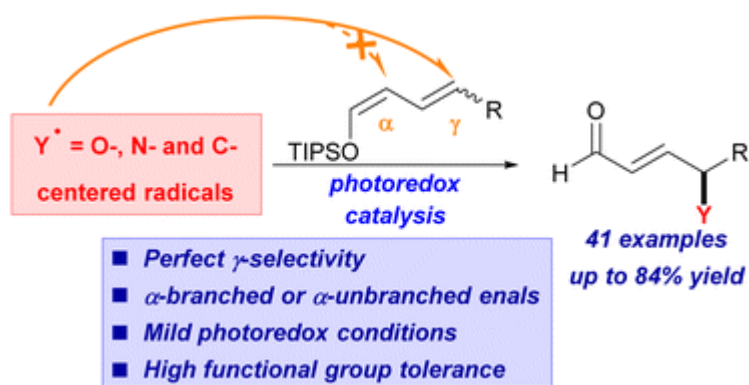


[99]. C. Banoun, F. Bourdreux, G. Dagousset

Highly selective -alkoxylation, -amination and -alkylation of unbiased enals by means of photoredox catalysis

Chem. Commun. **2023**, *59*, 760

DOI/10.1039/D2CC05749B



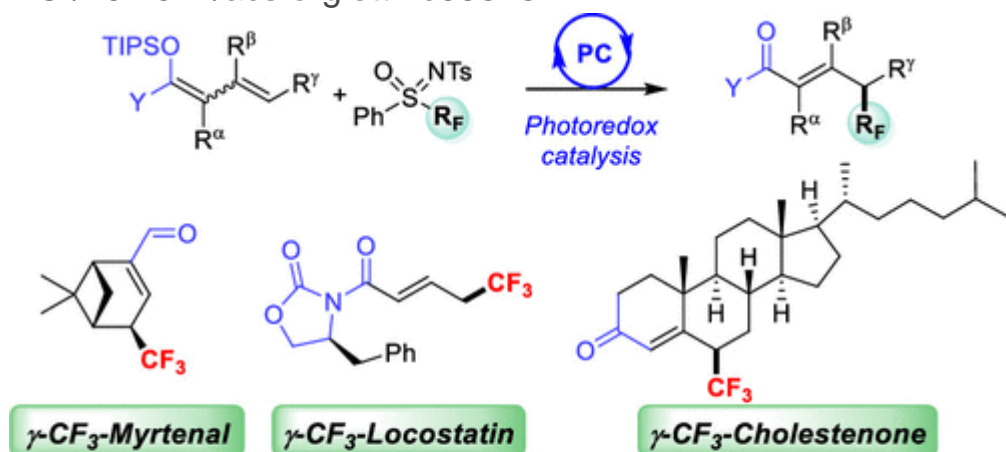
2022

[98]. M. Briand, L. D. Thai, F. Bourdreux, N. Vanthuyne, X. Moreau, E. Magnier, E. Anselmi, G. Dagousset

Remote Radical Trifluoromethylation: A Unified Approach to the Selective Synthesis of Trifluoromethyl γ -Unsaturated Carbonyl Compounds

Org. Lett. **2022**, *24*, 9375

DOI/10.1021/acs.orglett.2c03676



- For enals, enones, and α,β -unsaturated amides
- High *E*-selectivity
- High γ -selectivity
- $R_F = \text{CF}_3, \text{CF}_2\text{H}, \text{C}_4\text{F}_9$
- 43 examples, up to 96% yield

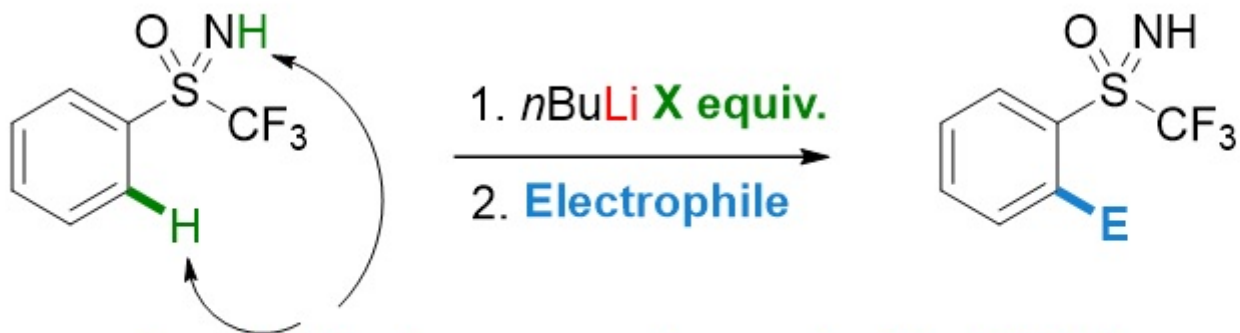
[97]. M. Hédouin, A.-L. Barthelemy, N. Vanthuyne, H. Besrour, J. Maddaluno, E. Magnier, H. Oulyadi

NMR and DFT Studies with a Doubly Labelled $^{15}\text{N}/^6\text{Li}$ S-Trifluoromethyl Sulfoximine Reveal Why a Directed ortho-Lithiation Requires an Excess of *n*-BuLi

Angew. Chem. Int. Ed. **2022**, e202214106

DOI: 10.1002/anie.202214106

Highlighted in Chemistry World



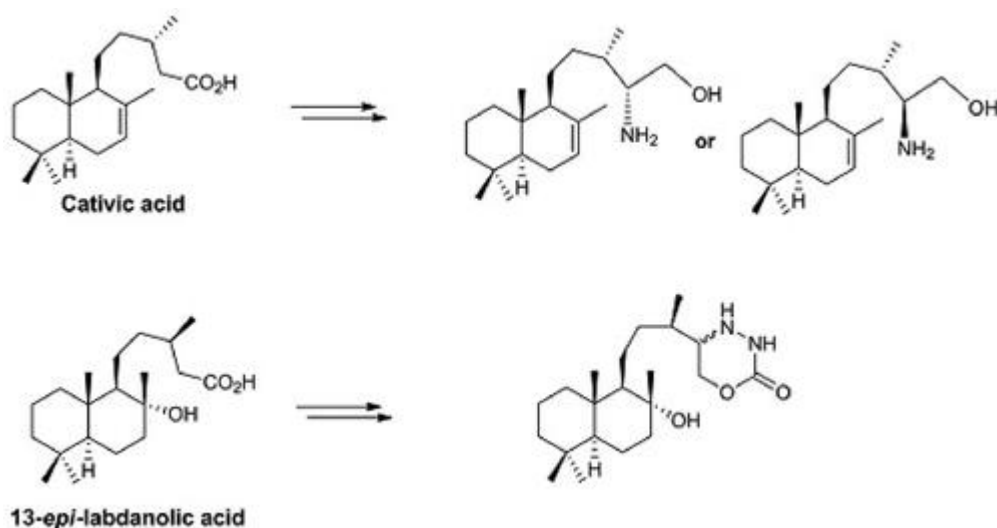
- In theory: 2 equivalents are enough and double alkylation occurs
- In reality: 3 to 5 equivalents are necessary and selective functionalization is achieved

[96]. D. Calderón-Rangel, H.A. García-Gutiérrez, R.E. del Río, C. Thomassigny

Alpha-amination of labdane-type diterpenes by organocatalysis

Synthetic Commun. **2022**, *52*, 451

DOI: 10.1080/00397911.2022.2032174

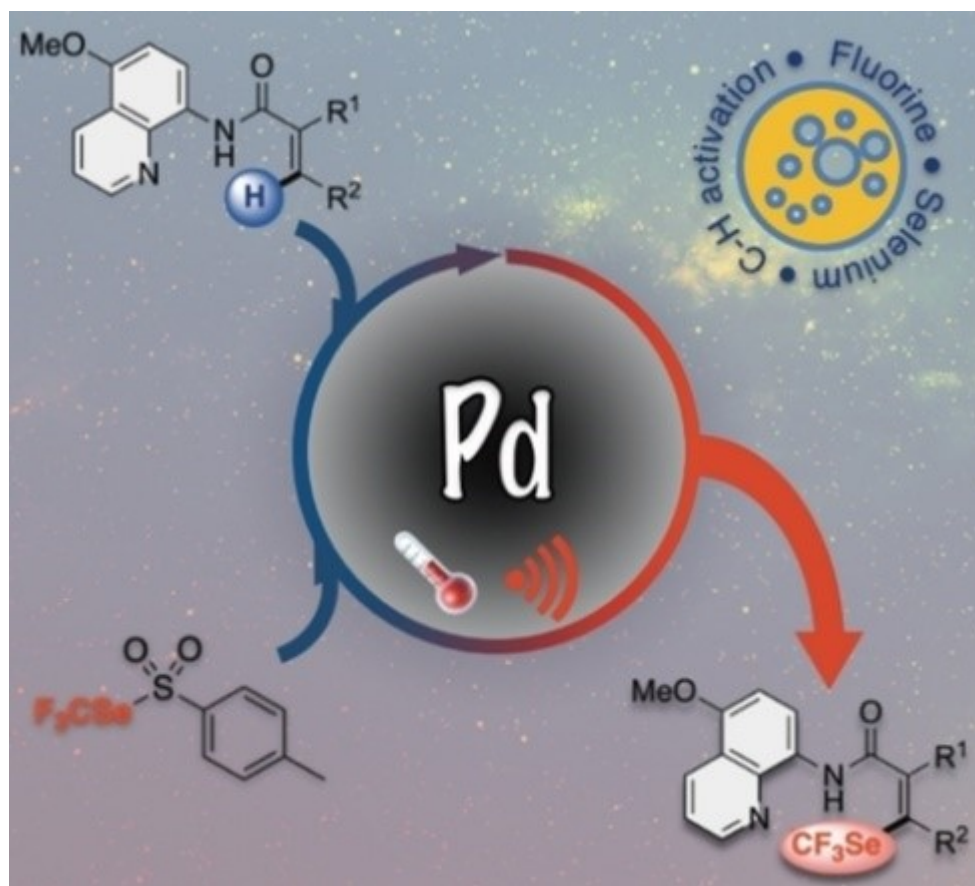


[95]. A. de Zordo-Banliat, K. Grollier, J. Vigier, E. Jeanneau, G. Dagousset, B. Pégot, E. Magnier, T. Billard

Vinylic Trifluoromethylselenolation via Pd-Catalyzed CH Activation

Chem. Eur. J. **2022**, *28*, e202202299

DOI: 10.1002/chem.202202299

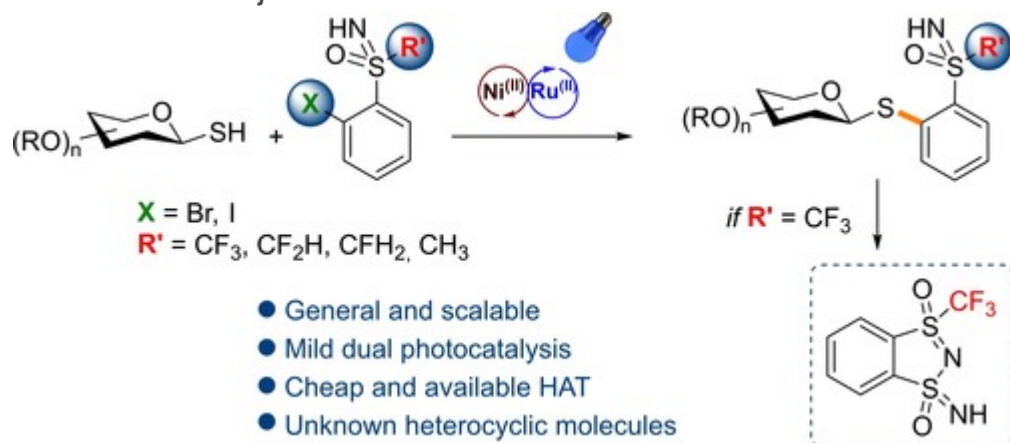


[94]. T. Duhail, M. Zhu, C. Rombault, G. Dagousset, S. Messaoudi, E. Magnier, E. Anselmi

Dual Photocatalysis for the Straightforward Coupling of Thiosugars and Arylsulfoximines: Towards Unprecedented Cyclic Heteroatomic Structures

Eur. J. Org. Chem. **2022**, e202200173

DOI: 10.1002/ejoc.202200173



2021

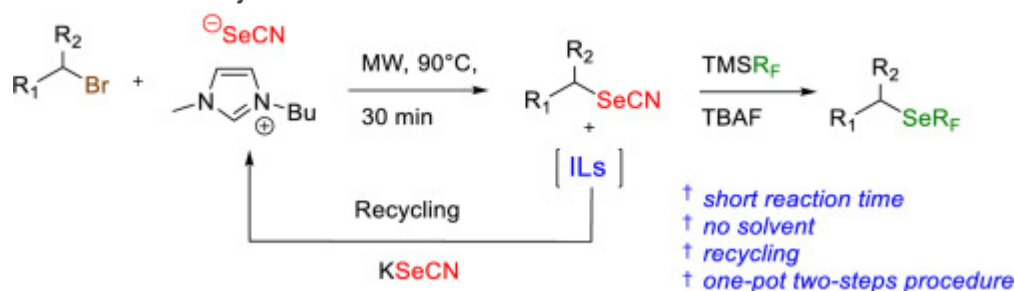
[93]. A. De Zordo-Banliat, K. Grollier, A. Damond, T. Billard, G. Dagousset, E. Magnier, B. Pégot

Fe-mediated nucleophilic trifluoromethylselenolation of activated alkyl bromides

via umpolung reactivity of trifluoromethyl tolueneselenosulfinate

Tetrahedron **2021**, *101*, 132507

DOI: 10.1016/j.tet.2021.132507

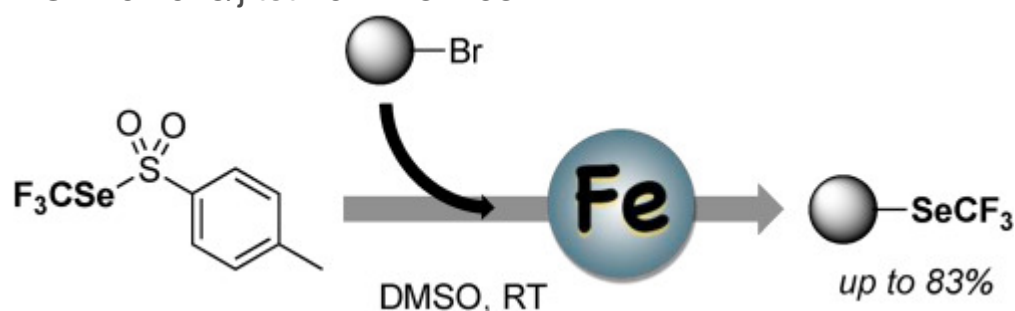


[92]. K. Grollier, E. Chefdeville, A. De Zordo-Banliat, B. Pegot, G. Dagousset, E. Magnier, T. Billard

Fe-mediated nucleophilic trifluoromethylselenolation of activated alkyl bromides via umpolung reactivity of trifluoromethyl tolueneselenosulfinate

Tetrahedron **2021**, *100*, 132498

DOI: 10.1016/j.tet.2021.132498

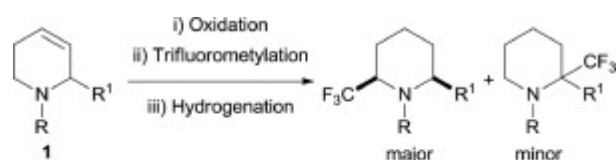


[91]. A. Talavera-Alemán, G. Dagousset, C. Thomassigny

Synthesis of -trifluoromethyl piperidine derivatives from tetrahydropyridines via nucleophilic trifluoromethylation of pyridinium cations

J. Fluorine Chem. **2021**, *252*, 109904

DOI: 10.1016/j.jfluchem.2021.109904



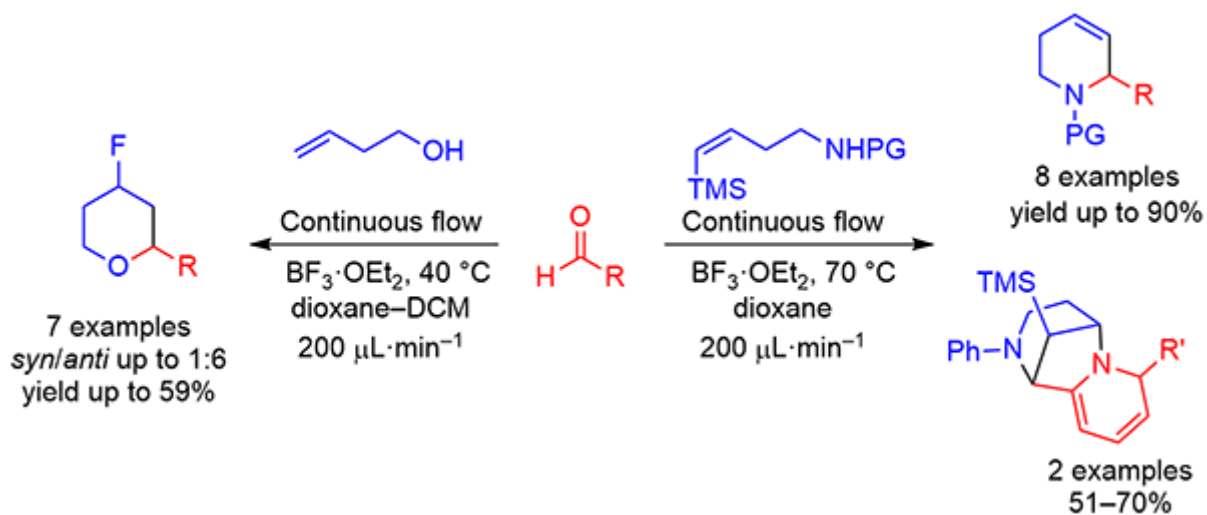
Pyridinium salt as the key intermediate
No trifluoromethylation at C-4
Applicable to piperidines as starting materials

[90]. A. Talavera-Alemán, J. Marrot, G. Dagousset, C. Thomassigny

Synthesis of Nitrogen- and Oxygen-Containing Heterocycles by Prins Cyclization in Continuous Flow

Synthesis **2021**, *53*, 1478

DOI: 10.1055/s-0040-1705988

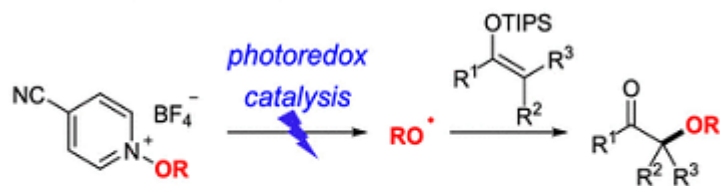


[89]. C. Banoun, F. Bourdreux, E. Magnier, G. Dagousset
**Intermolecular C–O Bond Formation with Alkoxy Radicals: Photoredox-Catalyzed -
 Alkoxylation of Carbonyl Compounds**

Org. Lett. **2021**, *23*, 8926

DOI: 10.1021/acs.orglett.1c03444

Radical α-alkoxylation of silyl enol ethers and silylketene N,O-acetals



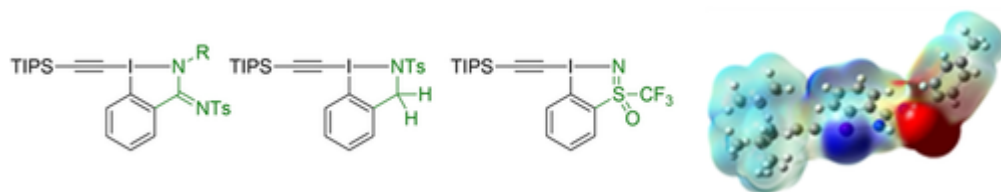
- 48 examples, up to 89% yield
- Possible in a one-pot process from carbonyls
- Compatible with complex alkoxy groups
- Applicable to biorelevant molecules

[88]. E. Le Du, T. Duhail, M. D. Wodrich, R. Scopelliti, F. Fadaei-Tirani, E. Anselmi, E. Magnier, J. Waser

Structure and Reactivity of N-Heterocyclic Alkynyl Hypervalent Iodine Reagents

Chem. Eur. J. **2021**, *27*, 10979

DOI: 10.1002/chem.202101475



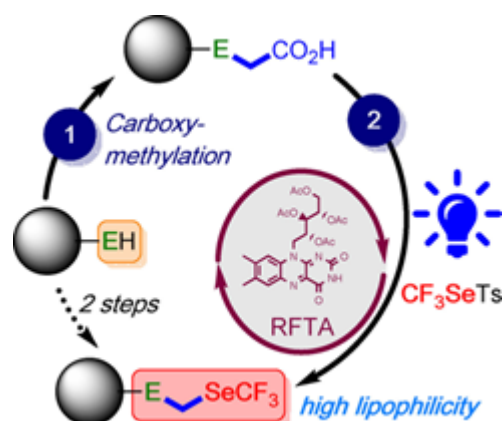
[87]. K. Grollier, A. De Zordo-Banliat, F. Bourdreux, B. Pégot, G. Dagousset, E. Magnier, T. Billard.

(Trifluoromethylselenenyl)methylchalcogenyl as emerging fluorinated groups:

synthesis under photoredox catalysis and determination of the lipophilicity

Chem. Eur. J. **2021**, *27*, 6028

DOI: 10.1002/chem.202100053

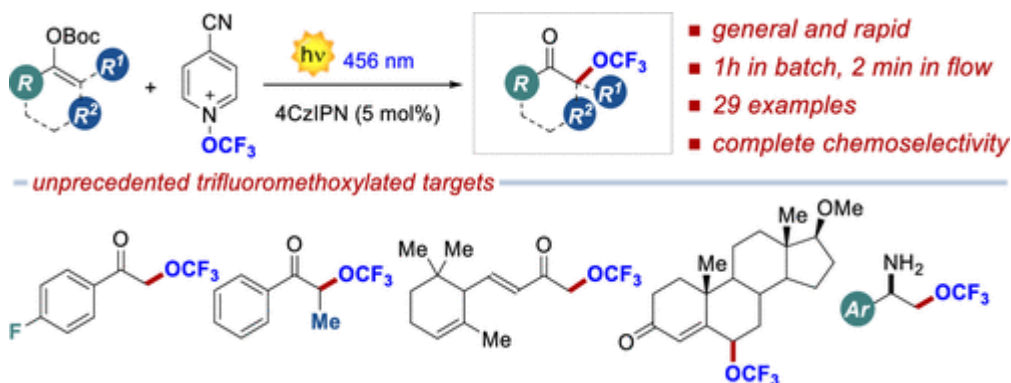


[86]. T. Duhail, T. Bortolato, J. Mateos, E. Anselmi, B. Jelier, A. Togni, E. Magnier, G. Dagousset, L. Dell'Amico

Radical Trifluoromethoxylation of Ketones under Batch and Flow Conditions by Means of Organic Photoredox Catalysis

Org. Lett. **2021**, *23*, 7088

DOI: 10.1021/acs.orglett.1c02494

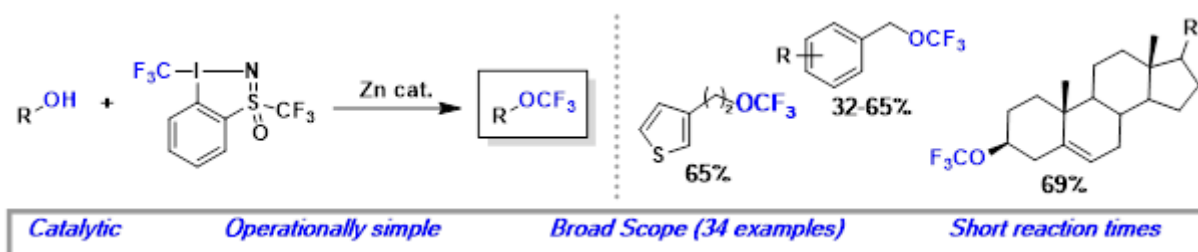


[85]. J. Kalim, T. Duhail, E. Pietrasiak, E. Anselmi, A. Togni, E. Magnier

Direct Trifluoromethylation of Alcohols Using a Hypervalent Iodosulfoximine Reagent

Chem. Eur. J. **2021**, *27*, 2638

DOI: 10.1002/chem.202005104

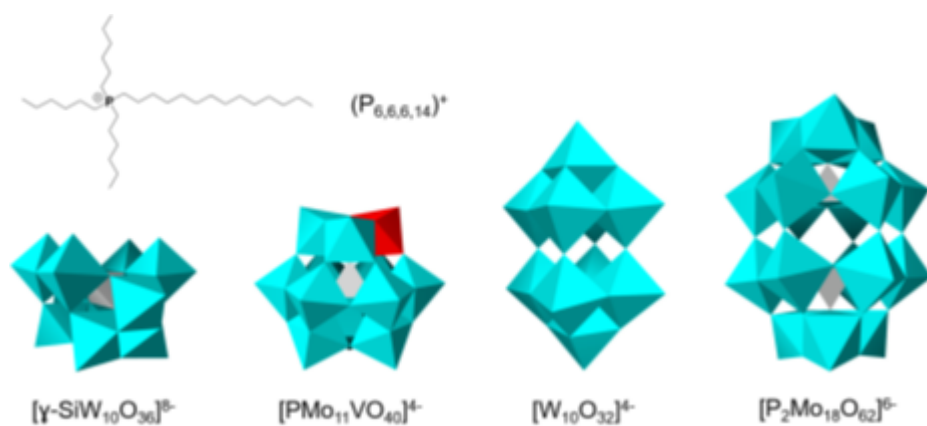


[84]. Y. Martinetto, S. Basset, B. Pégot, C. Roch-Marchal, F. Camerel, J. Jeftic, B. Cottyn-Boitte, E. Magnier, S. Floquet

Synthesis, Physical Properties and Application of a Series of New Polyoxometalate-Based Ionic Liquids

Molecules **2021**, *26*, 496

DOI: 10.3390/molecules26020496

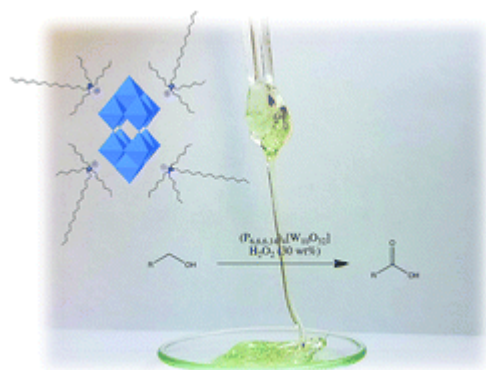


[83]. Y. Martinetto, B. Pégot, C. Roch-Marchal, M. Haouas, B. Cottyn-Boitte, F. Camerel, J. Jeftic, D. Morineau, E. Magnier, S. Floquet

A decatungstate-based ionic liquid exhibiting a very low dielectric constant suitable for acting as a solvent and a catalyst for the oxidation of organic substrates

New J. Chem. **2021**, *45*, 9751

DOI: 10.1039/D1NJ01214B

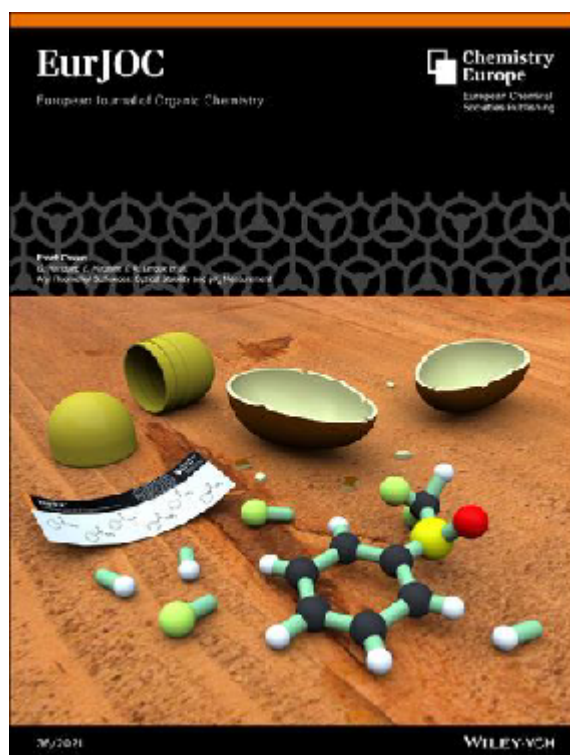
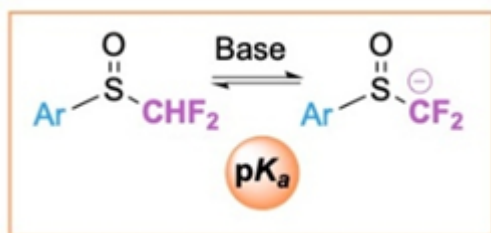
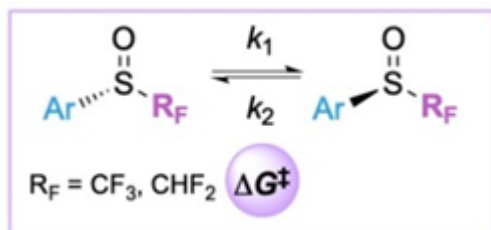


[82]. A. Messara, N. Vanthuyne, P. Diter, M. Elhabiri, A. Panossian, G. Hanquet, E. Magnier, F. Leroux

Aryl fluoroalkyl sulfoxides: optical stability and pKa measurement

Eur. J. Org. Chem. **2021**, 5019

DOI: 10.1002/ejoc.202100816



2020

[81]. K. Grollier, A. Taponard, A. De Zordo-Banliat, E. Magnier, T. Billard

Metal-free nucleophilic trifluoromethylselenolation via anionide-mediated umpolung reactivity of trifluoromethylselenotoluenesulfonate

Beilstein J. Org. Chem. **2020**, *16*, 3032 (link)

[80]. S. Bouvet, B. Pégot, S. Sengmany, E. Le Gall, E. Léonel, A.-M. Goncalves, E. Magnier

Controlled decomposition of SF₆ by electrochemical reduction

Beilstein J. Org. Chem. **2020**, *16*, 2948 (link)

[79]. K. Grollier, A. Taponard, C. Ghiazza, E. Magnier, T. Billard

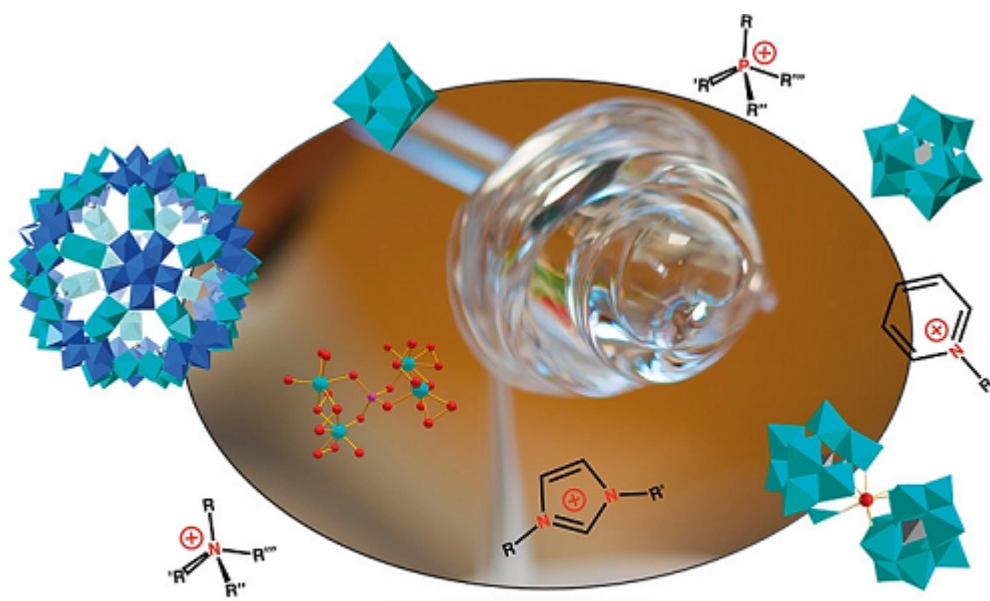
Environmentally Compatible Access to TrifluoromethylselenoEnones

Helv. Chim. Acta **2020**, *103*, e2000185 (link)

[78]. Y. Martinetto, B. Pégot, C. Roch-Marchal, B. Cottyn-Boitte, S. Floquet

Synthesis, Physical Properties and Application of a Series of New Polyoxometalate-Based Ionic Liquids

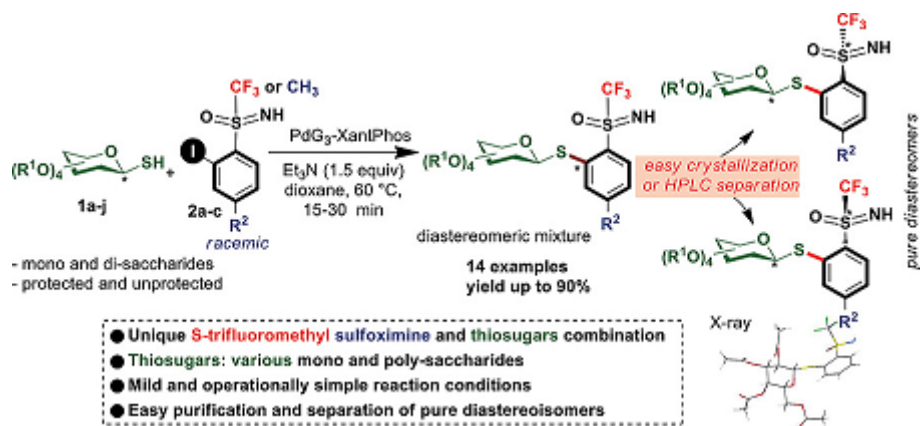
Eur. J. Inorg. Chem. **2020**, 228 (link)



[77]. N. Bennai, N. Ibrahim, J. Marrot, M. Belkadi, M. Alami, E. Magnier, E. Anselmi, S. Messaoudi

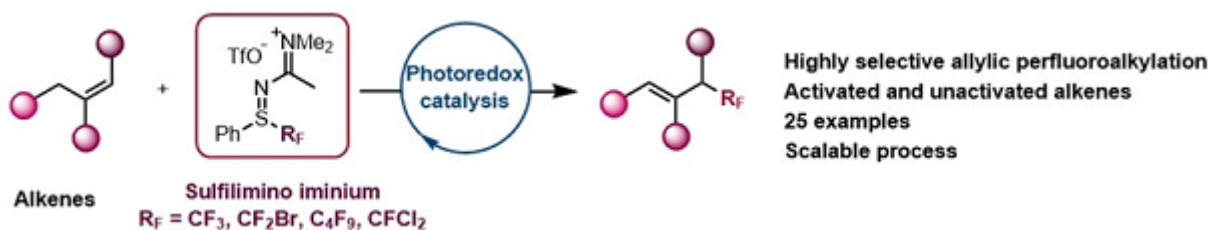
Synthesis of S-Trifluoromethyl S-Arylsulfoximine Thioglycosides through Pd-Catalyzed Migita Cross-Coupling

Eur. J. Org. Chem. **2020**, 4972 (link)



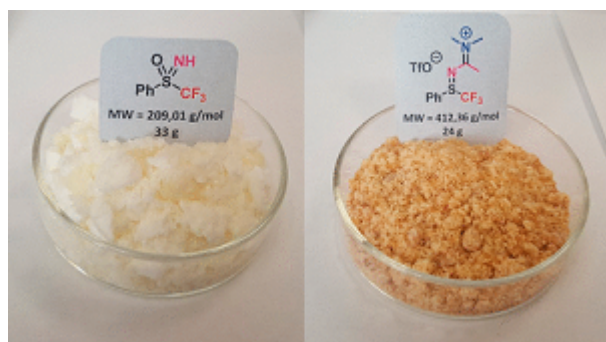
[76]. A.-L. Barthelemy, F. Bourdreux, G. Dagousset, E. Magnier
Photoredox-Catalyzed Selective Synthesis of Allylic Perfluoroalkanes from Alkenes

Chem. Eur. J. **2020**, *26*, 10213 (link)



[75]. A.-L. Barthelemy, V. Certal, G. Dagousset, E. Anselmi, L. Bertin, L. Fabien, B. Salgues, P. Courtes, C. Poma, Y. El-Ahmad, E. Magnier
Optimization and Gram-Scale Preparation of S-Trifluoromethyl Sulfoximines and Sulfilimino Iminiums, Powerful Reagents for the Late Stage Introduction of the CF₃ Group

Org. Process Res. Dev. **2020**, *24*, 704 (link)



[74]. S. L. Rössler, B. J. Jelier, E. Magnier, G. Dagousset, E. M. Carreira, A. Togni
Pyridinium Salts as Redox-Active Functional Group Transfer Reagents

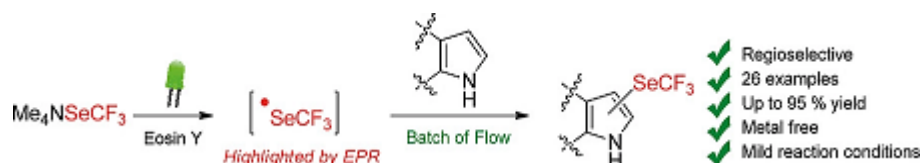
Angew. Chem. Int. Ed. **2020**, *58*, 9264 (link)



[73]. A. De Zordo, L. Barthélémy, F. Bourdreux, B. Tuccio, G. Dagousset, B. Pégot, E. Magnier

Visible-Light-Induced Metal-Free Trifluoromethylselenolation of Electron-Rich Heteroarenes Using the Nucleophilic [Me₄N][SeCF₃] Reagent

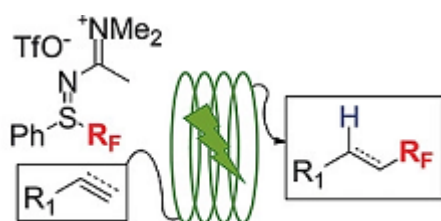
Eur. J. Org. Chem. **2020**, 506 (link)



[72]. A.-L. Barthelemy, G. Dagousset, E. Magnier

Metal-Free Visible-Light-Mediated Hydrotrifluoromethylation of Unactivated Alkenes and Alkynes in Continuous Flow

Eur. J. Org. Chem. **2020**, 1429 (link)



Hantzsch Ester

Cover feature (*Eur. J. Org. Chem.* **2020**, 1190)

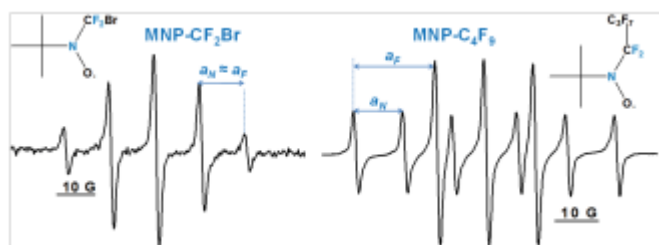


2019

[71]. C. André-Barrès, J. Lalevée, E. Anselmi, G. Dagousset, E. Magnier, D. Gignes, B. Tuccio

Spin trapping: la chasse aux intermédiaires radicalaires

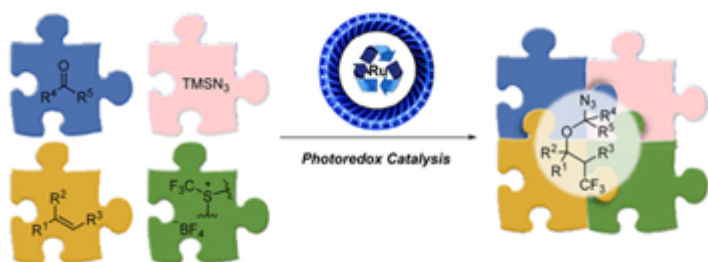
L'act. Chim. **2019**, *443*, 25 (link)



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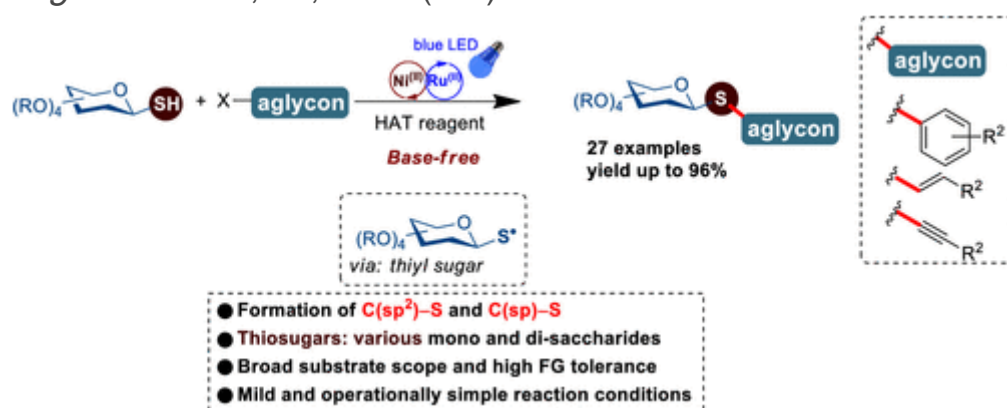
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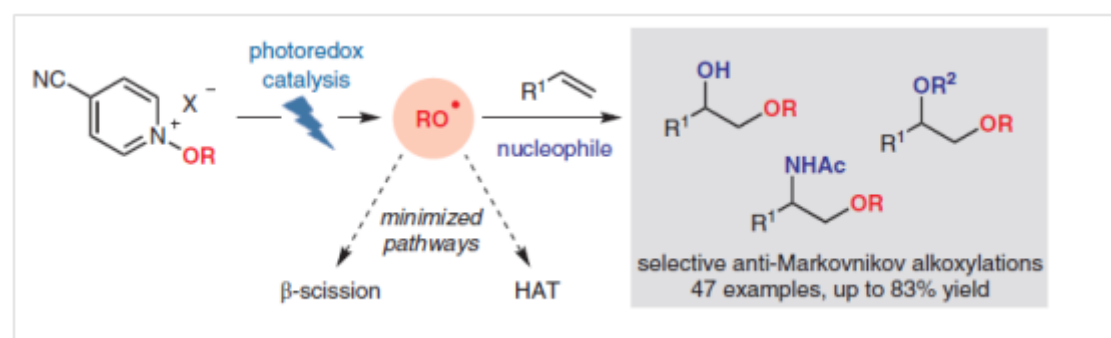


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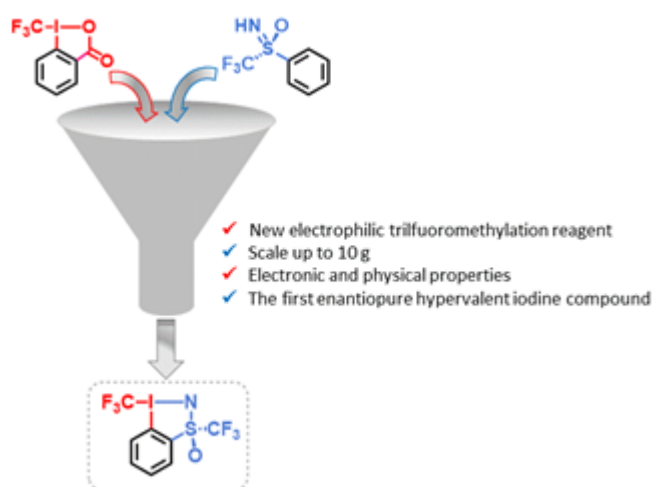
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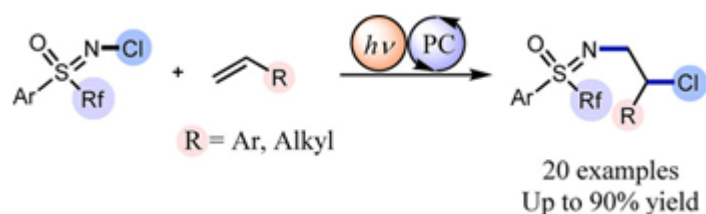
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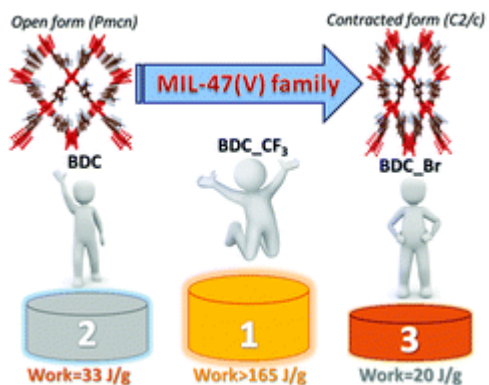
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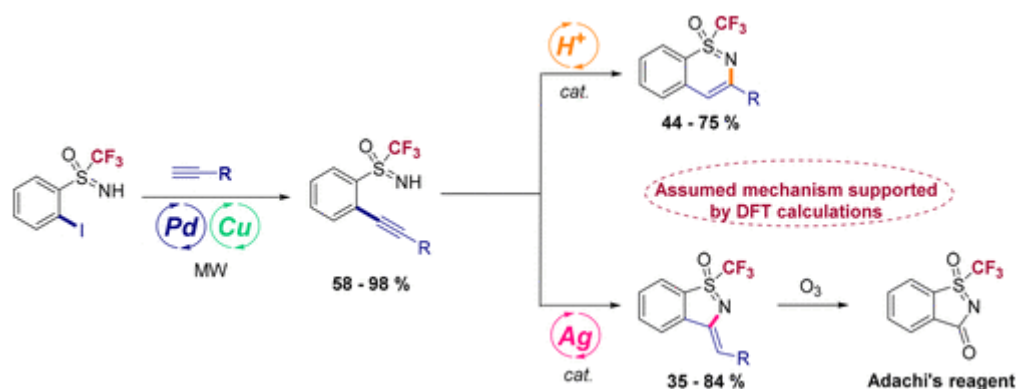
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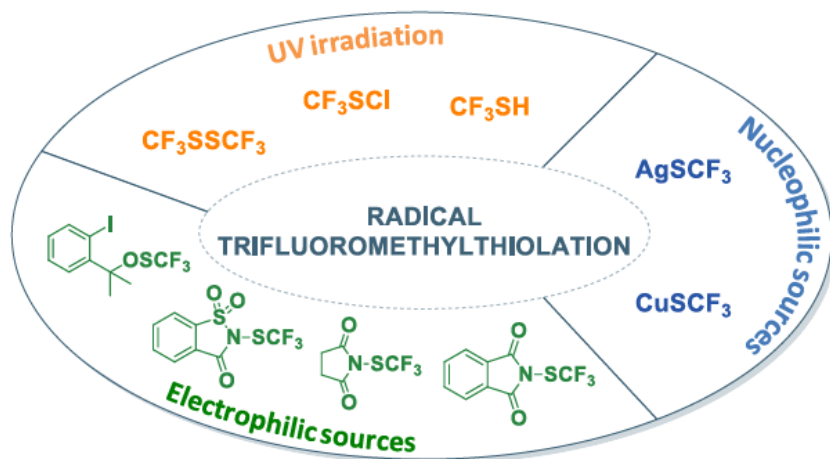


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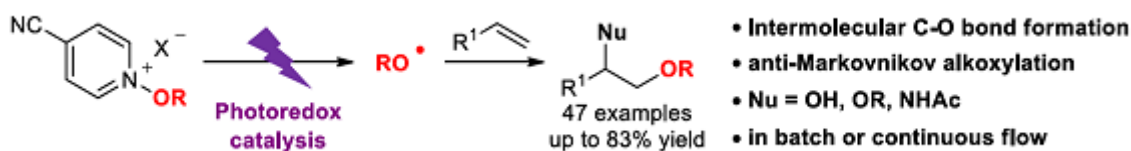
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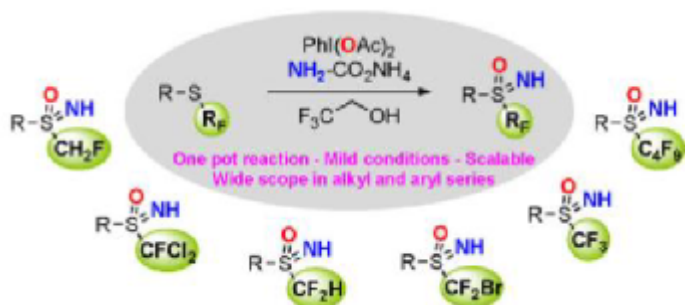
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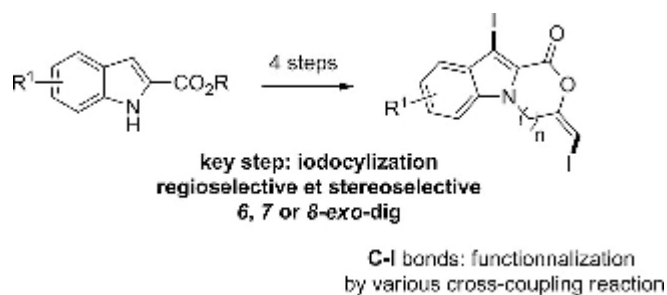
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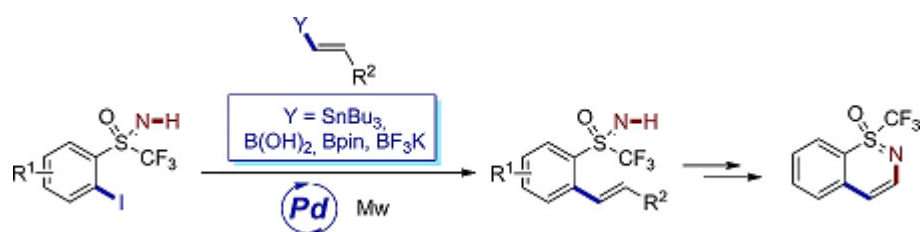
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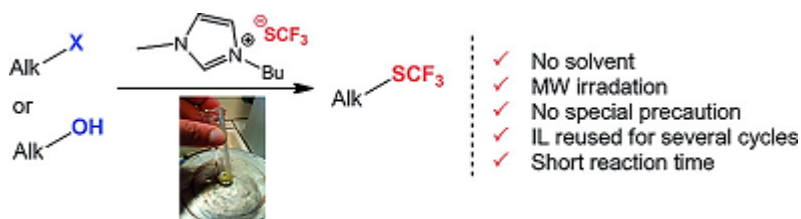
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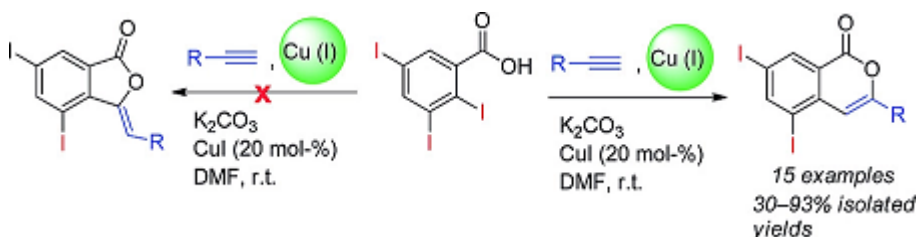
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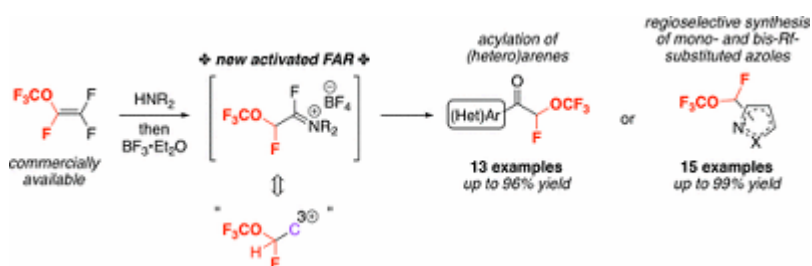
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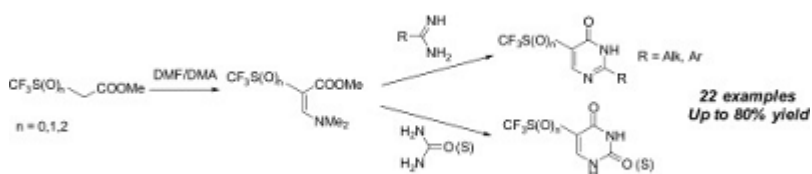
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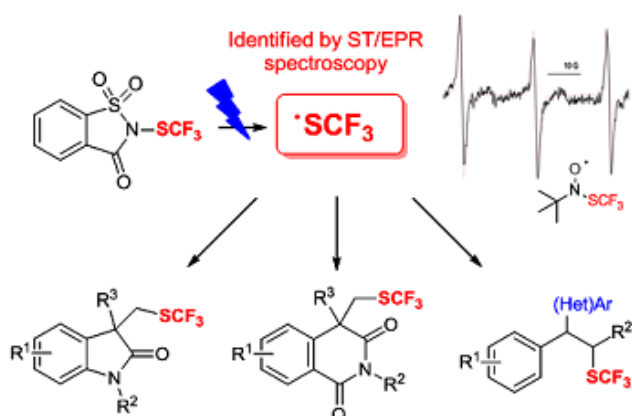
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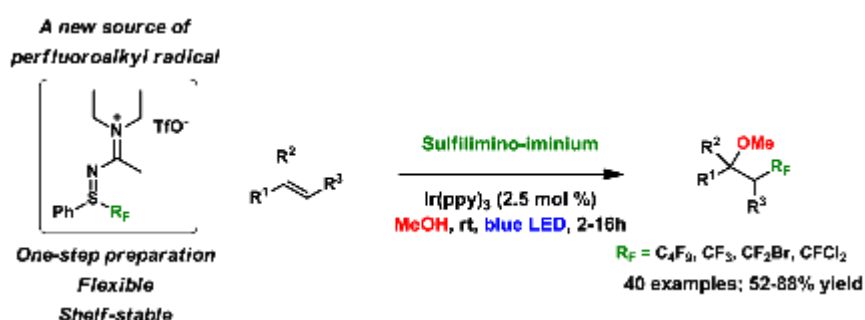
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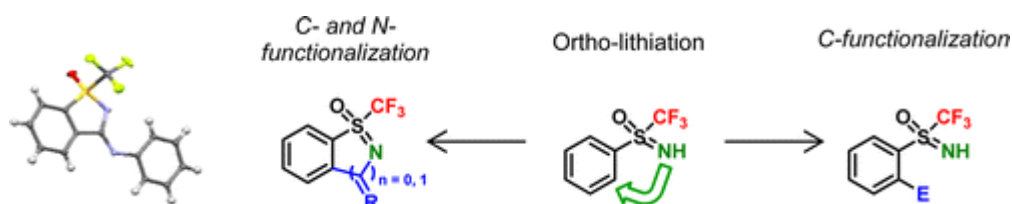


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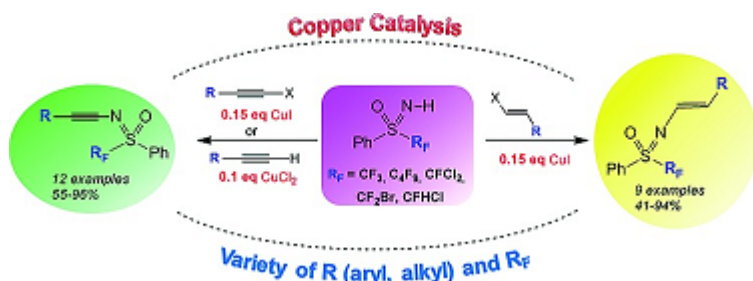
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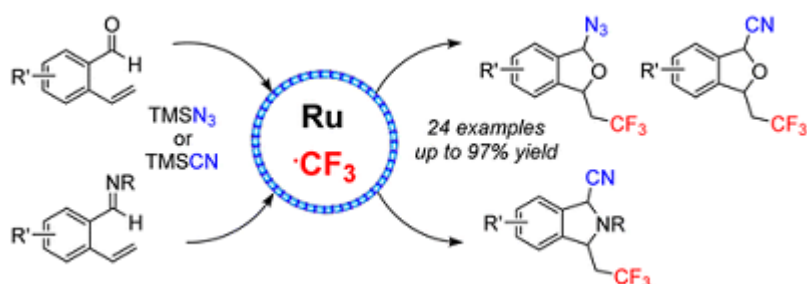
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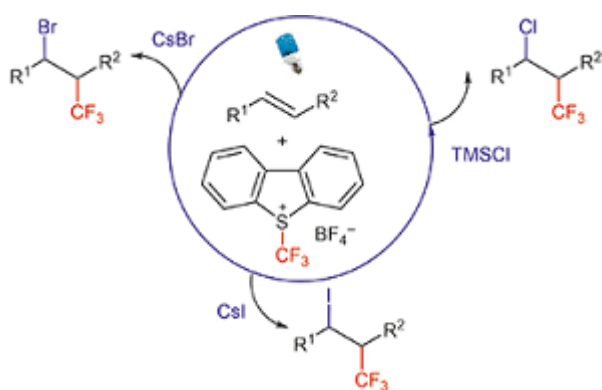
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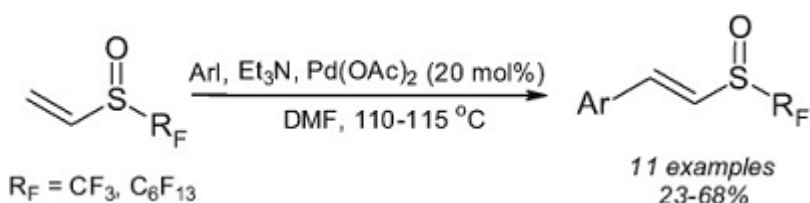
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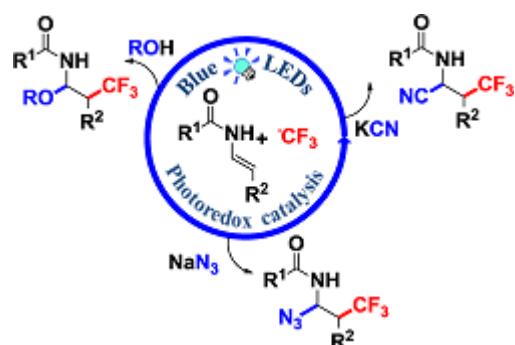
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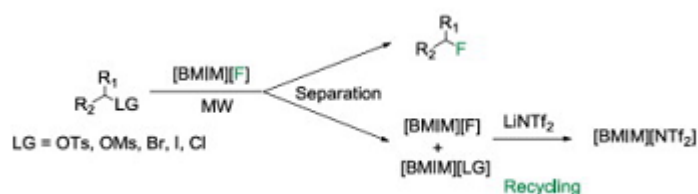
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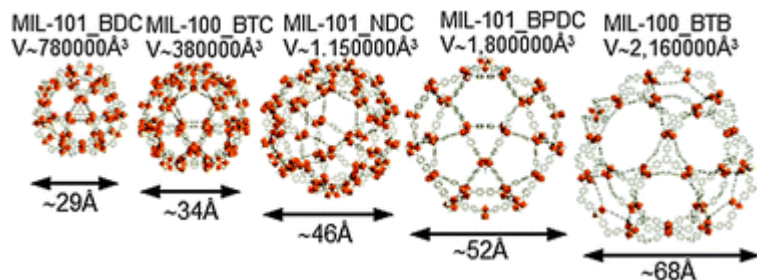


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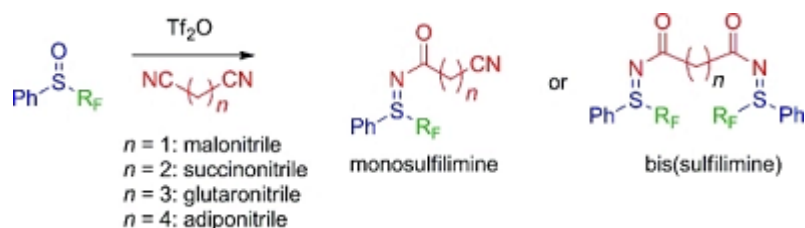


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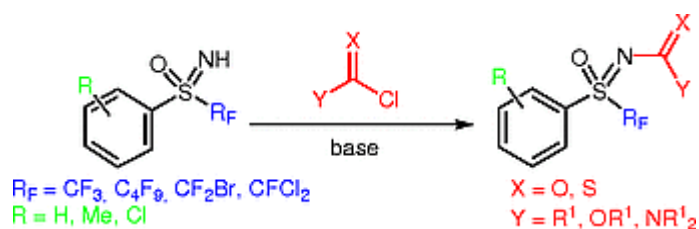
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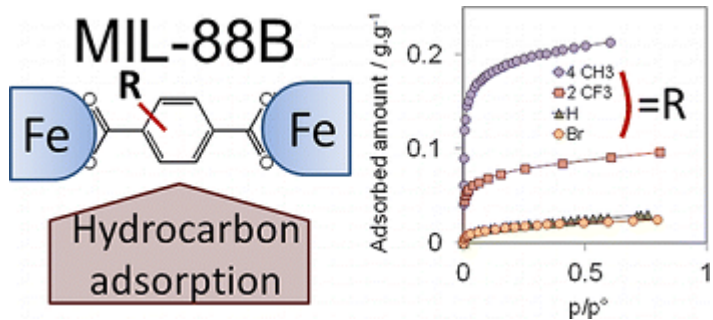
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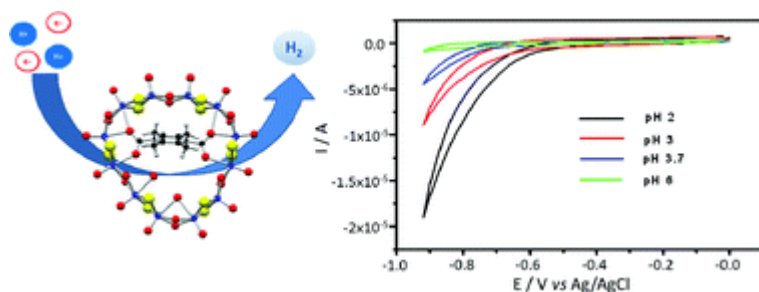
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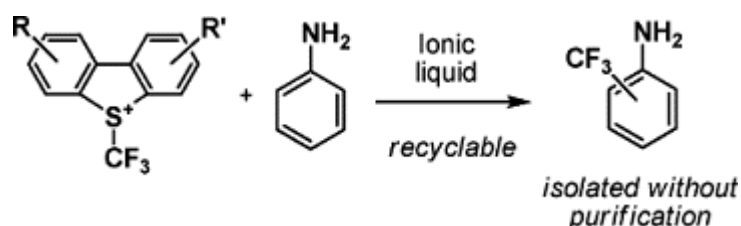
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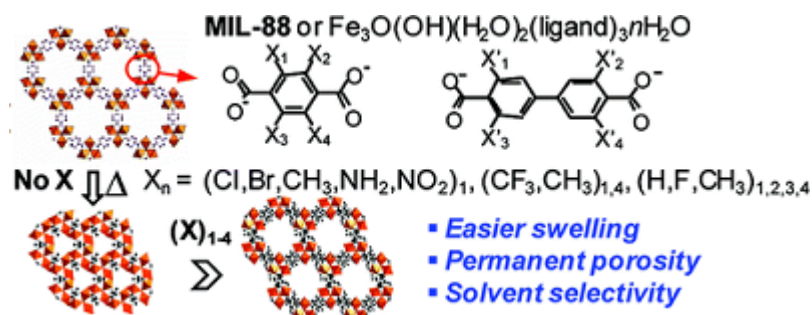


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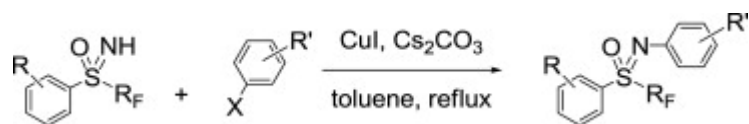
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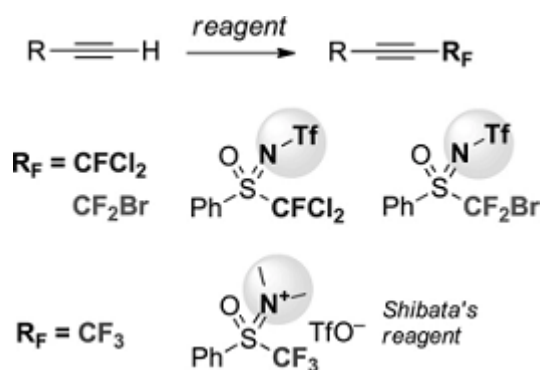


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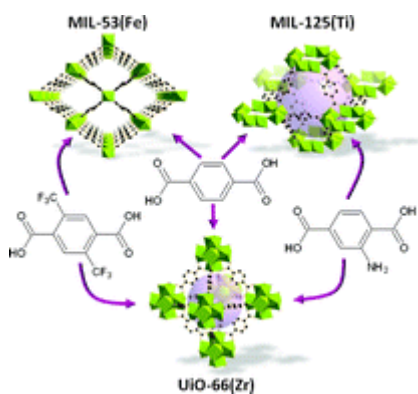
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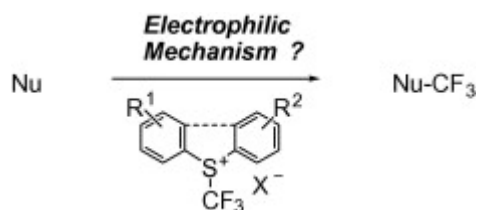


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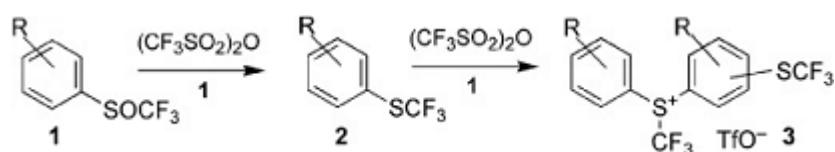
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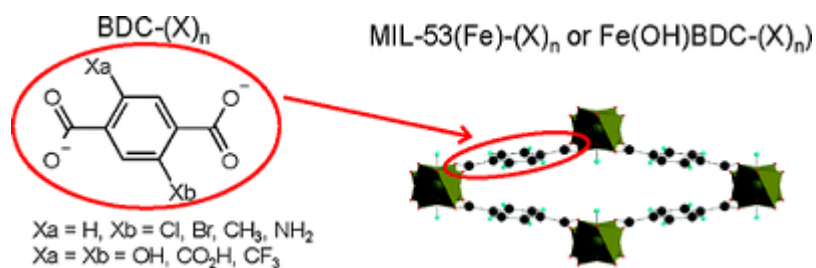
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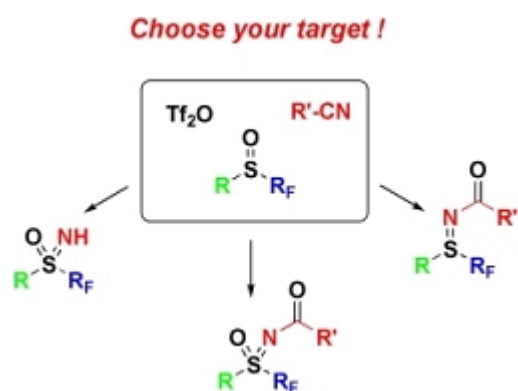
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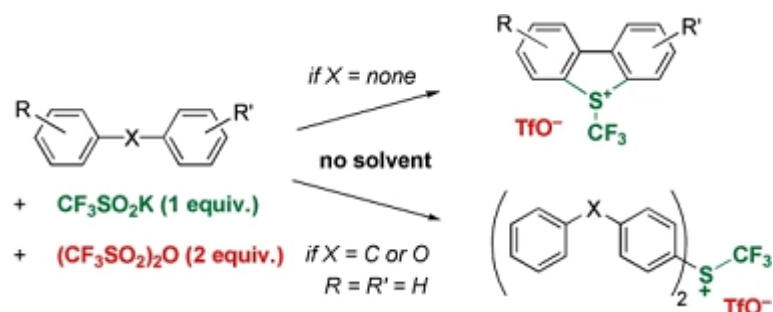


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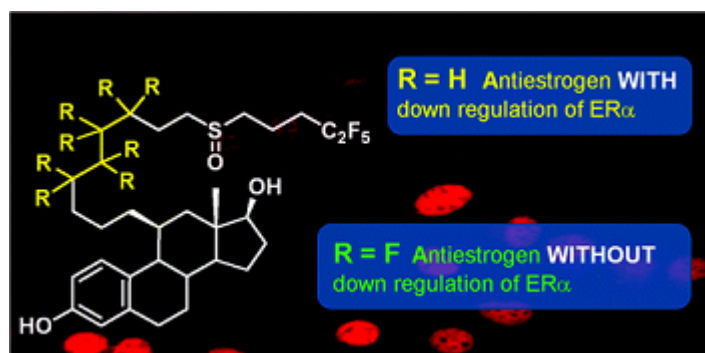


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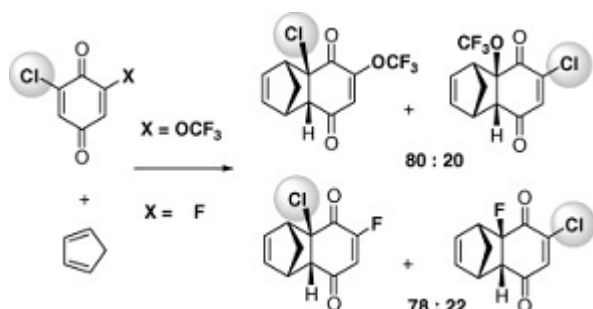
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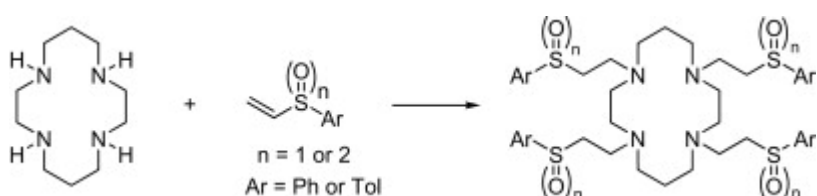


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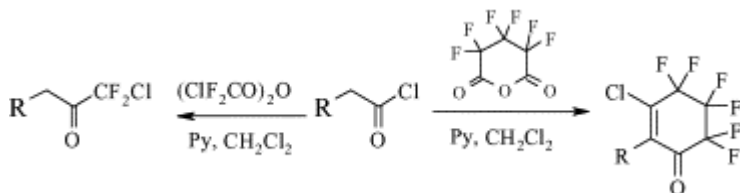
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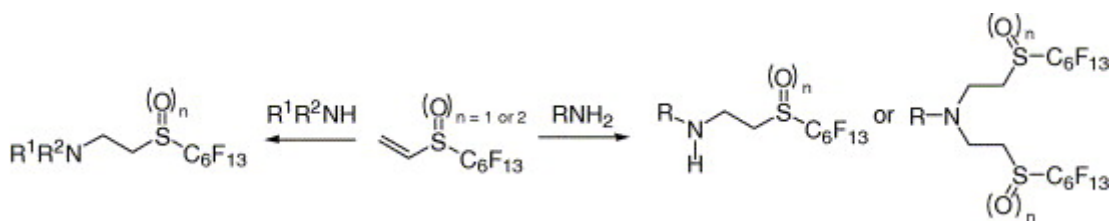
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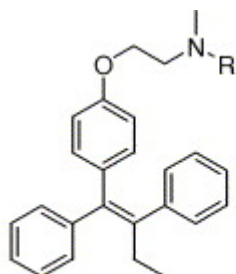
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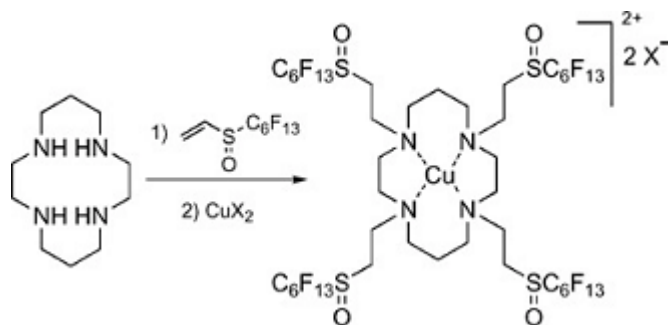


$\text{R} = \text{CH}_2\text{CF}_3, \text{CH}_2\text{CH}_2\text{CF}_3, \text{CH}_2\text{CH}_2\text{OCF}_3$

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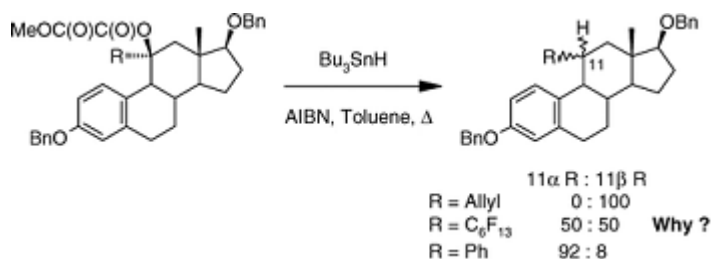
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