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in kemijsko tehnologijo

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VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI / INVITATION TO THE
LECTURE WITHIN DOCTORAL PROGRAMME IN
CHEMICAL SCIENCES

Prof. Georgios C. Vougioukalakis, Ph.D.

Laboratory of Organic Chemistry, Department of Chemistry
National and Kapodistrian University of Athens, Greece

z naslovom / title:

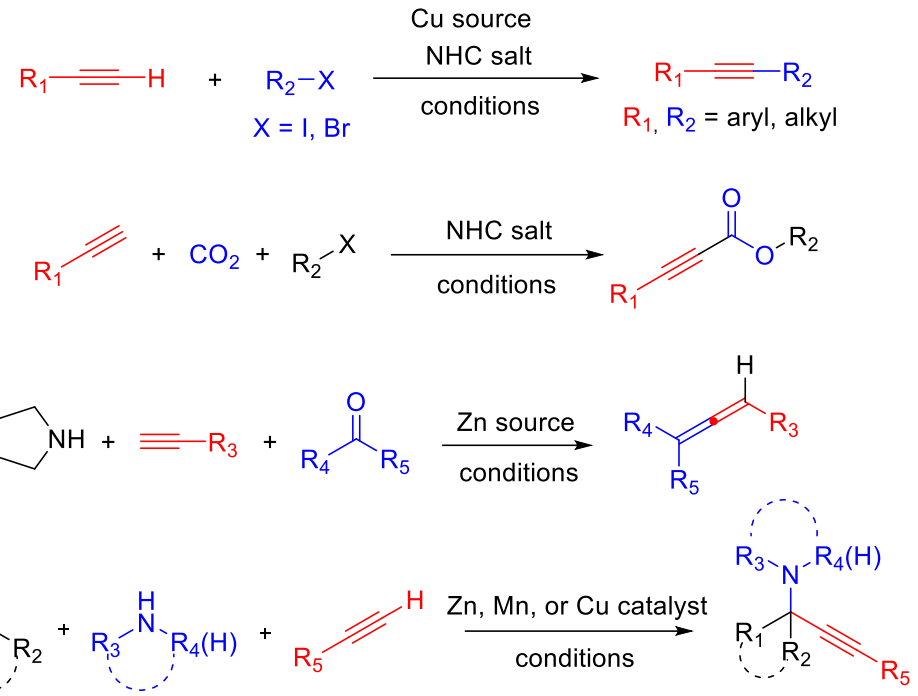
Creating Complexity via Sustainable Catalytic Transformations: Multicomponent Reactions, Cross-Couplings, and CO_2 Monetization

v sredo, 1. 2. 2023 ob 15. uri /
on Wednesday, 1. 2. 2023 at 15.00
v predavalnici 1 v 1. nadstropju Fakultete za kemijo in kemijsko tehnologijo, Večna pot 113 **/ in lecture room 1,** 1st floor at the Faculty of Chemistry and Chemical Technology, Večna pot 113

Vljudno vabljeni! / Kindly invited!

Abstract:

Sustainable catalysis is one of the most active research fields, both in industry and academia [1]. After a brief introduction to our research group and current projects/interests, some recently developed sustainable catalytic protocols, employing Cu, Zn, Mn, or N-heterocyclic carbene (NHC) catalysis, will be presented. These include two palladium-free Sonogashira coupling strategies [2,3], an approach for the coupling of terminal alkynes with CO_2 and allylic chlorides [4,5], as well as multi-component reactions between ketones, amines, and alkynes, leading to propargylamines, allenes, or polymeric scaffolds [6-9].



References:

[1] Tzouras, Stamatopoulos, Papastavrou, Liori, Vougioukalakis *Coord. Chem. Rev.* **2017**, *343*, 25-138.
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[3] Tonis, Stein, Stamatopoulos, Stubbe, Zarkadoulas, Sarkar, Vougioukalakis *Synlett* **2021**, *32*, 616-620.
[4] Papastavrou, Pauze, Gomez-Bengoa, Vougioukalakis *ChemCatChem* **2019**, *11*, 5379-5386.
[5] Pinaka, Vougioukalakis *Coord. Chem. Rev.* **2015**, *288*, 69-97.
[6] Tzouras, Neofotistos, Vougioukalakis *ACS Omega*, **2019**, *4*, 10279-10292.
[7] Neofotistos, Tzouras, Pauze, Gomez-Bengoa, Vougioukalakis *Adv. Synth. Catal.* **2020**, *362*, 3872-3885.
[8] Zorba, Vougioukalakis *Coord. Chem. Rev.* **2021**, *429*, 213603.
[9] Zorba, Egana, Gomez-Bengoa, Vougioukalakis *ACS Omega*, **2021**, 6, 23329-23346.

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