

Seyedmorteza Hosseyni (Morteza)

Department of Chemistry and Chemical Biology
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Education:

Postdoctoral: (2017-present)	Harvard University, Cambridge, MA. Total synthesis of natural products Mentor: Yoshito Kishi
PhD. Organic Chemistry:	University of South Florida, Tampa, Fl. Mentor: Xiaodong Michael Shi
MSc. Organic Chemistry:	Sharif University of Technology, Tehran, Iran Mentor: Mohammad M. Hashemi
BSc. Chemistry:	Zabol University, Zabol, Iran

Research topics:

Post Doctoral:

Total synthesis of bio active natural products such as: Halichondrin B and Eribulin (Halaven)

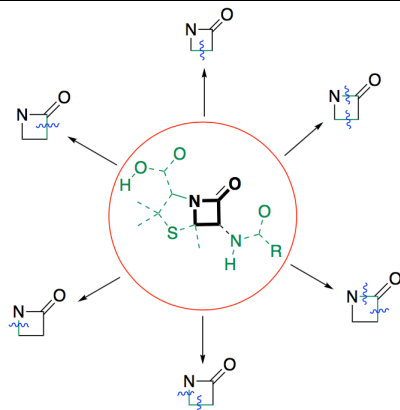
PhD:

Utilizing homogenous transition metal catalysts for the discovery of new chemical transformations.

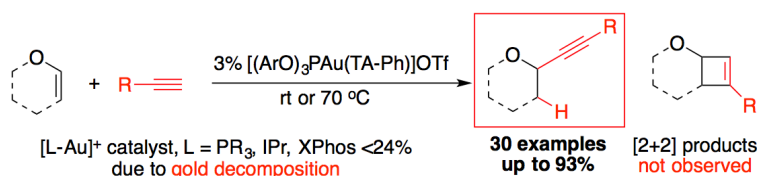
Publications

Selected publications:

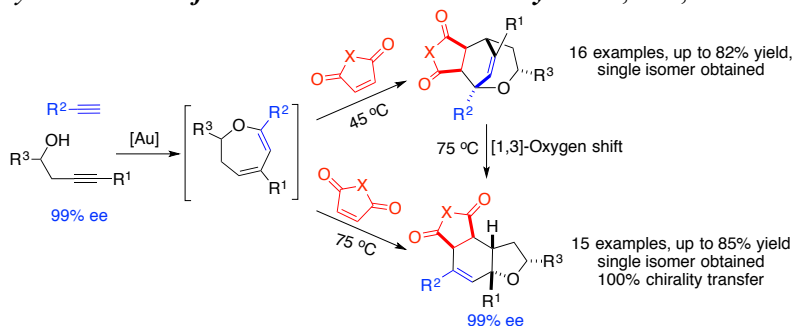
(8) Seyedmorteza Hosseyni*, Aliasghar Jarrahpour "Recent Advances in β -Lactam Synthesis" *Org. Biomol. Chem.* **2018**, 16, 6840-6852.



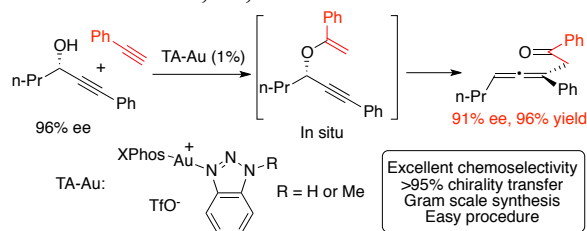
(7) **Seyedmorteza Hosseyni**, Courtney A. Smith, Xiaodong Shi* “*Gold-Catalyzed Vinyl Ether Hydroalkynylation: An Alternative Pathway for the Gold-Catalyzed Intermolecular Reaction of Alkenes and Alkynes*” *Org. Lett.* **2016**, *18*, 6336-6339.



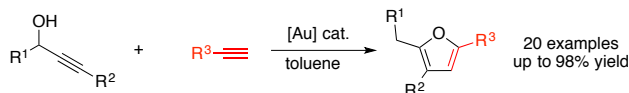
(6) **Seyedmorteza Hosseyni**, Lukasz Wojtas, Minyong Li, and Xiaodong Shi* “*Intermolecular Homopropargyl Alcohol Addition to Alkyne and a Sequential 1,6-Enyne Cycloisomerization with Triazole-Gold Catalyst*”. *Journal of American Chemical Society.* **2016**, *138*, 3994–3997.



(5) **Seyedmorteza Hosseyni**, Shengtao Ding, Yijin Su, Novruz G. Akhmedov, Xiaodong Shi* “*Triazole-Gold Promoted Intermolecular Propargyl Alcohol Addition to Alkyne: Reaction Cascade Toward Substituted Allenes.*” *Chem. Commun.* **2016**, *52*, 296-299.



(4) **Seyedmorteza Hosseyni**, Yijin Su, Novruz G. Akhmedov, Xiaodong Shi* “*Gold Catalyzed Synthesis of Substituted Furan by Intermolecular Cascade Reaction of Propargyl Alcohol and Alkyne.*” *Org. Lett.* **2015**, *17*, 6010–6013.

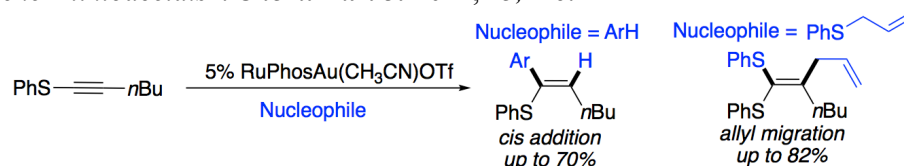


R¹ = n-Pr; R² = Ph; R³ = Ph

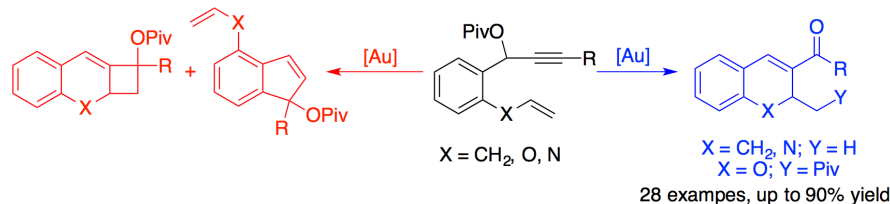
[cat.]	yield	[cat.]	yield
5% PPh ₃ AuNTf ₂	7%	5% TA-Au	18%
5% IPrAuNTf ₂	6%	1% TA-Au	80%
5% XPhosAuNTf ₂	27%	0.5% Cu(OTf) ₂	

Other publications:

(3) Xiaohan Ye, Jin Wang, Shengtao Ding, **Seyedmorteza Hosseyni**, Lukasz Wojtas, Novruz G. Akhmedov, Xiaodong Shi* “Investigations on Gold-Catalyzed Thioalkyne Activation Toward Facile Synthesis of Ketene Dithioacetals”. *Chem. Eur. J.* **2017**, *23*, 1–6.



(2) Sravan K. Thummanapelli, **Seyedmorteza Hosseyni**, Yijin Su, Novruz G. Akhmedov, Xiaodong Shi* “Ligand-Controlled Gold-Catalysed Cycloisomerization of 1,*n*-Enyne Esters toward synthesis of dihydronaphthalene, dihydroquinolin and dihydrobenzopyranes.” *Chemical Communication*, **2016**, *52*, 7687-7690.



(1) Azim Ziyaei Halimehjani,* **Seyedmorteza Hosseyni**, Hadi Gholami, Mohammad M. Hashemi.* “Boric Acid/ Glycerol as an Efficient Catalyst for Synthesis of Thiomorpholine 1,1 dioxide by Double Michael Addition Reaction in Water”. *Synthetic Communication*. **2013**, *43*, 191-197.

Presentations:

(7) **Oral presentation:** ACS FAME conference at St Petersburg, Fl. April **2017**

Title: “Gold-catalyzed alkylation reaction of alkenes.”

(6) **Poster presentation:** ACS FAME conference at St Petersburg, Fl. April **2017**

Title: “New reaction discoveries in Gold-catalysis.”

(5) **Oral presentation:** Castle conference at USF. April **2016**

Title: “New reaction discoveries in Gold-catalysis.”

(4) **Poster presentation:** Castle conference at USF. April **2016**

Title: “New reaction discoveries in Gold-catalysis.”

(3) **Poster presentation:** Graduate research symposium at USF. March **2016**

Title: “Triazole-Gold catalyzed the synthesis of tricyclic structures through 1,6-enyne cycloisomerization”

(2) **Oral presentation:** 251th ACS meeting at San Diego. March 2016

Title: "Triazole-Gold catalyzed propargyl alcohol addition to alkyne toward synthesis of allene and furans."

(1) **Poster presentation:** 251th ACS meeting at San Diego. March 2016

Title: "Triazole-Gold catalyzed substituted tricyclic structure by intermolecular addition of homopropargyl alcohol to alkyne."

Teaching Experiences:

Teaching General Chemistry I & II and Organic Chemistry I & II labs at West Virginia University and University of South Florida. (2011-2016)

Honors and Achievements:

(9) Member of *Editorial Board* of "Asian Journal of Chemistry" since 2016

(8) Winning the John Howard fellowship at West Virginia University as "*outstanding graduate student*". (Summer 2014)

(7) Being recognized as an "*outstanding international graduate student*" by the Eberly college of arts and sciences at West Virginia University. (April 2014)

(6) Winning the John Howard fellowship at West Virginia University as "*outstanding graduate student*". (Summer 2013)

(5) Being recognized as an "*outstanding international graduate student*" by the Eberly college of arts and sciences at West Virginia University. (April 2013)

(4) Winning the John Howard fellowship at West Virginia University as "*outstanding graduate student*". (Summer 2012)

(3) Ranked 22th in Chemistry in Organic chemistry, 25th in Physical chemistry, 29th in Inorganic chemistry and 35th in Analytical chemistry among more than 12500 participants in the Nationwide Graduate Entrance Exam in Iran (Feb 2008).

(2) Get awarded as "*brilliant talented students*" in Iran (Feb 2008).

(1) Ranked 2211th among more than 450000 participants in the Nationwide University Entrance Exam (Summer 2003).