Curriculum Vitae

Personal Data

Name: Esmail

Family name: Rezaei-Seresht

Nationality: Iranian

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Education

● Ph. D., Organic Chemistry, July 2007, Ferdowsi University, Mashhad, Iran

● M. S., Organic Chemistry, June 2001, Ferdowsi University, Mashhad, Iran

● B. S., Chemistry, April 1998, Ferdowsi University, Mashhad, Iran

Affiliation

Associated Professor of Organic Chemistry, Department of Chemistry, Hakim Sabzevari University

Research Interests

● Organic Synthesis

● Host-Guest Chemistry

Courses Taught

1. Organic Chemistry 1-3
2. Organic Spectroscopy
3. Organic Physical Chemistry
4. Organic Synthesis
5. Advanced Organic Chemistry
6. Advanced Physical Organic Chemistry

7. Advanced Organic Synthesis

Skills and Experiences

1- Good expertise and experience in organic synthesis

2- Good expertise and experience in isolation, purification, and identification of the organic compounds

3- Good expertise and experience in organic spectroscopy

4- Good experience and skill in working with the chemical literature and databases, e.g. Reaxys, Scifinder, etc.

Publications

1. Zhang, Y., Mahdavi, B., Mohammadhosseini, M., Rezaei-Seresht, E., Paydarfard, S., Qorbani, M., & Karimi, E. (2021). Green synthesis of NiO nanoparticles using calendula officinalis extract: chemical charactrization, antioxidant, cytotoxicity, and anti-esophageal carcinoma properties. *Arabian Journal of Chemistry*, *14*(5), 103105.
2. Mahdavi, B., Paydarfard, S., Rezaei-Seresht, E., Baghayeri, M., & Nodehi, M. (2021). Green synthesis of NiONPs using Trigonella subenervis extract and its applications as a highly efficient electrochemical sensor, catalyst, and antibacterial agent. *Applied Organometallic Chemistry*, *35*(8), e6264.
3. Rezaei-Seresht, E., Bakhshi-Noroozi, M., & Maleki, B. (2020). Piperazine-Grafted Magnetic Reduced Graphene Oxide (Fe3O4@ rGO-NH) as a Reusable Heterogeneous Catalyst for Gewald Three-Component Reaction. *Polycyclic Aromatic Compounds*, 1-9.
4. Mahdavi, B., Hosseyni-Tabar, S. M., Rezaei-Seresht, E., Rezaei-Seresht, H., & Falanji, F. (2020). Synthesis and biological evaluation of novel hybrid compounds derived from gallic acid and the 2-aminothiophene derivatives. *Journal of the Iranian Chemical Society*, *17*(4), 809-815.
5. Rezaei-Seresht, E., Rahmandoost, M., & Mahdavi, B. (2019). Green and selective iodination of diamondoid adamantane by β-cyclodextrin as a molecular reactor. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, *95*(1), 51-54.
6. Rezaei-Seresht, E., Salimi, A., & Mahdavi, B. (2019). Synthesis, antioxidant and antibacterial activity of azo dye-stilbene hybrid compounds. *Pigment & Resin Technology*.
7. Khojastehnezhad, A., Maleki, B., Karrabi, B., & Seresht, E. R. (2017). Synthesis of Highly Functionalized Piperidines Using Polyphosphoric Acid

Supported on Silica-Coated Magnetic Nanoparticles. *Organic Preparations and Procedures International*, *49*(4), 338-345.

8. Rezaei-Seresht, E., Mireskandari, E., Kheirabadi, M., Cheshomi, H., Rezaei-Seresht, H., & Aldaghi, L. S. (2017). Synthesis and anticancer activity of new azo compounds containing extended π-conjugated systems. *Chemical Papers*, *71*(8), 1463-1469.
9. Maleki, B., Rooky, R., Rezaei-Seresht, E., & Tayebee, R. (2017). One-pot synthesis of bicyclic ortho-aminocarbonitrile and multisubstituted cyclohexa-1, 3-dienamine derivatives. *Organic Preparations and Procedures International*, *49*(6), 557-567.
10. Maleki, B., Sheikh, E., Seresht, E. R., Eshghi, H., Ashrafi, S. S., Khojastehnezhad, A., & Veisi, H. (2016). One-pot synthesis of 1-amidoalkyl-2-naphthols catalyzed by polyphosphoric acid supported on silica-coated NiFe2O4 nanoparticles. *Organic Preparations and Procedures International*, *48*(1), 37-44.
11. Maleki, B., Barat Nam Chalaki, S., Sedigh Ashrafi, S., Rezaei-Seresht, E., Moeinpour, F., Khojastehnezhad, A., & Tayebee, R. (2015). Caesium carbonate supported on hydroxyapatite-encapsulated Ni0. 5Zn0. 5Fe2O4 nanocrystallites as a novel magnetically basic catalyst for the one-pot synthesis of pyrazolo [1, 2-b] phthalazine-5, 10-diones. *Applied Organometallic Chemistry*, *29*(5), 290-295.
12. Golari, N., Rahimizadeh, M., Bakavoli, M., & Rezaei-Seresht, E. (2015). KG-60-piperazine as an efficient heterogeneous catalyst for three-component synthesis of 2-amino-2H-chromenes. *Research on Chemical Intermediates*, *41*(9), 6023-6032.
13. Maleki, B., Seresht, E. R., & Ebrahimi, Z. (2015). Friedlander synthesis of quinolines promoted by polymer-bound sulfonic acid. *Organic Preparations and Procedures International*, *47*(2), 149-160.
14. Golari, N., Rahimizadeh, M., Bakavoli, M., & Rezaei-Seresht, E. (2014). An easy purification of glycoluril clips by affinity chromatography. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, *80*(3), 353-358.
15. Rezaei-Seresht, E., Maleki, B., Amiri-Moghaddam, Z., & Taghizadeh, S. (2013). Selective methylation of phloroglucinol in the presence of a glycoluril clip. *Tetrahedron Letters*, *54*(29), 3855-3857.
16. Rezaei-Seresht, E., Salemi, S., Ahmadi, M., & Taghizadeh, S. (2013). Synthesis and computational study of two new glycoluril clips containing benzocrown ether side walls. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, *76*(1), 69-74.
17. Tayebee, R., Rezaei Seresht, E., Jafari, F., & Rabiei, S. (2013). Simple methodology for the aerobic N-methylation of substituted anilines catalyzed by zirconium oxychloride octahydrate, ZrOCl2· 8H2O. *Industrial & Engineering Chemistry Research*, *52*(32), 11001-11006.
18. Rezaei-Seresht, E., Salemi, S., Taghizadeh, S., & Ghorbani, M. (2013). Synthesis, computational study and binding properties of some structurally

rigid glycoluril-derived molecular clips. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, *77*(1), 403-411.

19. Rezaei-Seresht, E., Tayebee, R., & Yasemi, M. (2013). KG-60-piperazine as a new heterogeneous catalyst for Gewald three-component reaction. *Synthetic Communications*, *43*(13), 1859-1864.
20. Tayebee, R., Ahmadi, S. J., Rezaei Seresht, E., Javadi, F., Yasemi, M. A., Hosseinpour, M., & Maleki, B. (2012). Commercial zinc oxide: a facile, efficient, and eco-friendly catalyst for the one-pot three-component synthesis of multisubstituted 2-aminothiophenes via the Gewald reaction. *Industrial & engineering chemistry research*, *51*(44), 14577-14582.
21. Tayebee, R., Esmaeil, R. S., & Behrooz, M. (2012). A New and Efficient Method for the Preparation of 2, 4, 6, 8-Tetraazabicyclo [3.3. 0] octane-3, 7-diones (Glycolurils) Catalyzed by Keggin, Wells-Dawson, and Preyssler Heteropolyoxometalates, Effect of Structure on the Reactivity. *Letters in Organic Chemistry*, *9*(3), 183-191.
22. Tayebee, R., Nehzat, F., Rezaei-Seresht, E., Mohammadi, F. Z., & Rafiee, E. (2011). An efficient and green synthetic protocol for the preparation of bis (indolyl) methanes catalyzed by H6P2W18O62· 24H2O, with emphasis on the catalytic proficiency of Wells-Dawson versus Keggin heteropolyacids. *Journal of Molecular Catalysis A: Chemical*, *351*, 154-164.
23. Rezaei-Seresht, E., Zonoz, F. M., Estiri, M., & Tayebee, R. (2011). Microwave-assisted solvent-free acetylation of some alcohols catalyzed by keggin-type heteropoly acids. *Industrial & engineering chemistry research*, *50*(4), 1837-1846.
24. Rezaei-Seresht, E., & Hokmabadi, F. (2010). First immobilization of a glycoluril-derived molecular clip on Merrifield resin: facile separation of dihydroxybenzenes by affinity chromatography. *Tetrahedron Letters*, *51*(18), 2473-2476.
25. Rahimizadeh, M., Seresht, E. R., Golari, N., & Bakavoli, M. (2008). Synthesis of some novel tetraimidazolium salts derived from diphenyl-and dimethylglycolurils. *Monatshefte für Chemie-Chemical Monthly*, *139*(6), 639-645.
26. Bakavoli, M., Pordel, M., & Rahimizadeh, M. (2008). Sulfuric acid mediated heterocyclization of Ortho-cyanomethylnitroarenes to benzo [C] isoxazoles and fused benzo [C] isoxazoles. *Heterocycles*, *75*.
27. Rahimizadeh, M., Seresht, E. R., Bakavoli, M., & Pordel, M. (2007). Glycoluril-derived crown clips as new ditopic receptors. *Canadian Journal of Chemistry*, *85*(11), 964-968.
28. Rahimizadeh, M., Seresht, E. R., Bakavoli, M., & Golari, N. (2007). The first immobilisation of glycoluril-based molecular clips on silica gel and alumina. *Journal of Chemical Research*, *2007*(9), 525-527.