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Educational Background

Ph.D. in Inorganic Chemistry with Prof. M. Rashidi Shiraz University, Iran, 2012
M.Sc. in Inorganic Chemistry with Prof. M. Rashidi Shiraz University, Iran, 2008
B.Sc. in Pure Chemistry with Prof. A. R. Sardarian Shiraz University, Iran, 2006

Professional Experiences

Visiting Student; at Department of Chemistry, Universidad de La Rioja, Spain, with Prof. E. Lalinde, September 2011-June 2012

Assistant Professor of Inorganic Chemistry, Institute for Advanced Studies in Basic Sciences (IASBS) Zanjan, Since August 2013

Visiting Professor; at Department of Chemistry, Universidad de La Rioja, Spain, with Prof. E. Lalinde, March 2015-April 2015

Research Areas

I) Design of organometallic systems with transitions metals and study of their optoelectronic properties and potential applications.

II) Kinetic study on organometallic complexes.

III) Study of catalytic properties of inorganic and organometallic compounds in some organic transformation.

Selected Publications

1) Organoplatinum(II) complexes featuring the 2-vinylpyridine ligand
M. Niazi, **H. R. Shahsavari**

ChemistrySelect, 2016, In Press, DOI: 10.1002/slct.201600431

2) Cycloplatinated(II) complex bearing 2-vinylpyridine and monodentate phosphine ligands:
Optical properties and kinetic study

M. Niazi, **H. R. Shahsavari**

Journal of Organometallic Chemistry, 2016, **803**, 82

3) Photophysical and DFT studies on cycloplatinated complexes: modification in luminescence properties by expanding of π -conjugated system

M. Jamshidi, S. M. Nabavizadeh, **H. R. Shahsavari**, M. Rashidi

RSC Advances, 2015, **5**, 57581

4) 2-(Diphenylphosphino)pyridine platinum(I) and palladium(I) complex as a new efficient binuclear catalyst for Suzuki-Miyaura coupling reaction in water under mild reaction conditions

M. Gholinejad, **H. R. Shahsavari**, M. Razeghi, M. Niazi, F. Hamed

Journal of Organometallic Chemistry, 2015, **796**, 3

5) C-H reductive elimination during the reaction of cycloplatinated(II) complexes with pyridine-2-thione: Kinetic follow up

M. Dadkhah Aseman, S. M. Nabavizadeh, **H. R. Shahsavari**, M. Rashidi

RSC Advances, 2015, **5**, 22692

6) Photophysical Responses in Pt₂Pb Clusters Driven by Solvent Interactions and Structural Changes in the Pb^{II} Environment

J. R. Berenguer, E. Lalinde, A. Martín, M. T. Moreno, S. Ruiz, S. Sánchez, **H. R. Shahsavari**

Inorganic Chemistry, 2014, **53**, 8770

7) Cyclometalated heteronuclear Pt/Ag and Pt/Tl complexes: photophysical study

S. Jamali, R. Ghazfar, E. Lalinde, Z. Jamshidi, H. Samouei, **H. R. Shahsavari**, M. T. Moreno, E. Escudero-Adán, J. Benet-Buchholz, Dalibor Milic

Dalton Transactions, 2014, **43**, 1105

8) Solvent-induced lone pair activity tuning and vapoluminescence in a Pt₂Pb cluster

J. R. Berenguer, E. Lalinde, A. Martín, M. T. Moreno, S. Ruiz, S. Sánchez, **H. R. Shahsavari**

Chemical Communications, 2013, **49**, 5067

9) Assembly of cyclometalated platinum(II) Complexes via 1,1'-bis(diphenylphosphino)ferrocene ligand: kinetics and mechanisms

S. M. Nabavizadeh, H. Amini, **H. R. Shahsavari**, M. Namdar, M. Rashidi, R. Kia, B. Hemmateenejad, M. Nekoeinia, A. Arifard, F. Niroomand Hosseini, A. Gharavi, A. Khalafi-Nezhad, M. T. Sharbati, F. Panahi

Organometallics, 2011, **30**, 1466

10) Oxidative addition reaction of diarylplatinum(II) complexes with MeI in ionic liquid media: a kinetic study

S. M. Nabavizadeh, **H. R. Shahsavari**, H. Sepehrpour, F. Niroomand Hosseini, S. Jamali, M. Rashidi

Dalton Transactions, 2010, **39**, 7800

Selected Conferences Presentation

- 1) Photophysical study of cycloplatinated complexes
M. Jamshidi Semiroomi, **H. R. Shahsavari**, S. M. Nabavizadeh, M. Rashidi
The 16th Iranian Chemistry Congress, Yazd, Iran, September 2013
- 2) Synthesis, structure and photophysical study of cyclometalated heteronuclear Pt/Tl and Pt/Au complexes
S. Jamali, R. Ghazfar, **H. R. Shahsavari**, E. Lalinde
XXV International Conference on Organometallic Chemistry, Lisbon, Portugal, September 2012
- 3) Solvate cycloplatinate(II) complexes as building blocks in the synthesis of luminescent Pt^{II}-Tl^I systems
M. T. Moreno, E. Lalinde, J. R. Berenguer, S. Sánchez, **H. R. Shahsavari**
Vth International Conference on Molecular Materials. Barcelona, Spain, July 2012
- 4) 5th Frolic Goats Workshop on High-Pressure Diffraction, Poznań, Poland, April 2012
- 5) Oxidative addition reaction of MeI with cyclometalated organoplatinum complexes containing phosphorus ligands: a kinetic study
H. R. Shahsavari, S. M. Nabavizadeh, H. Amini, M. Rashidi
9th European Workshop on Phosphorus Chemistry, Rennes, France, March 2012
- 6) Cyclometalated diplatinum(II) complexes each with a bridging 1,1'-bis(diphenylphosphino)ferrocene ligand: synthesis, characterization and mechanism of formation
H. R. Shahsavari, S. M. Nabavizadeh, H. Amini, M. Rashidi
10th Ferrocene Colloquium, Braunschweig, Germany, February 2012

Courses Taught

1. General and Inorganic Chemistry Laboratories, (B.Sc.)
2. General Chemistry Courses, (B.Sc.)
3. Inorganic Chemistry Courses, (B.Sc.)
4. Organometallic Chemistry, (B.Sc. & M.Sc.)
5. Advanced Inorganic Chemistry, (M.Sc.)
6. Inorganic Reaction Mechanism, (M.Sc.)
7. Application of Spectroscopy in Inorganic Chemistry (M.Sc.)
8. Advanced Topics in Inorganic Chemistry (Ph.D.)
9. Photochemistry (Ph.D.)
10. Inorganic Polymer (Ph.D.)

References

1) Mehdi Rashidi, Professor

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2) Elena Lalinde, Professor

Department of Chemistry, Universidad de La Rioja, Spain

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3) Babak Karimi, Professor

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