



Abdollah Neshat

Associate Professor

IASBS, Department of Chemistry

Publications

Journals

- Neshat, Abdollah and Mahdavi, Atiyeh and Yousefshahi, Mohammad Reza and Cheraghi, Mahdi and Mohammadi, Saiedeh and Eigner, Vaclav and Kucerakova, Monika and Dusek, Michal and Kaboudin, Babak and Halvagar, Mohammad Reza, "Heterobimetallic Fe (II)--Cu (I) Complexes Supported with 1, 1'-Bis (diphenylphosphino) ferrocene and Chelating Sulfur Donor Ligands: Structural Characterization, DFT Analysis, Anti-tyrosinase Assay and Biological Studies", Journal of Organometallic Chemistry, Vol. 1005, NO. 45, 2024
- Neshat, Abdollah and Cheraghi, Mahdi and Kucerakova, Monika and Dusek, Michal and Mobarakeh, Ali Mousavizadeh, "A Cu (II) complex based on a Schiff base ligand derived from Ortho-vanillin: Synthesis, DFT analysis and catalytic activities", Journal of Molecular Structure, Vol. 1274, 2023
- Ünver, Hakan and Kakavand, Meysam and Neshat, Abdollah, "Synthesis, characterization and catalytic activity of novel monometallic and bimetallic Mn (II) complexes with thiocarboxamide and phenanthroline ligands", Transition Metal Chemistry, Vol. 29, NO. 7, 2023
- Neshat, Abdollah and Mahdavi, Atiyeh and Yousefshahi, Mohammad Reza and Cheraghi, Mahdi and Mousavizadeh Mobarakeh, Ali and Mohammadi, Saiedeh and Eigner, Vaclav and Kucerakova, Monika and Dusek, Michal and Kaboudin,



- Babak, "Homobimetallic Au (I)--Au (I) and Heterotrimetallic Au (I)--Fe (II)--Au (I) Complexes with Dialkyldithiophosphates and Phosphine Ligands: Structural Characterization, DFT Analysis, and Tyrosinase Inhibitory and Biological Effects", ACS omega, Vol. 29, NO. 7, 2023
- Kaboudin, Babak and Esfandiari, Hesam and Kakavand, Meysam and Sohrabi, Masoumeh and Amirkhiz, Elahe Yousefian and Neshat, Abdollah and Kawazoe, Teru and Fukaya, Haruhiko and Yanai, Hikaru, "Phosphite--imidazole catalyzed N-formylation and N-acylation of amines", Organic & Biomolecular Chemistry, Vol. 21, NO. 40, 2023
 - Neshat, Abdollah and Mahdavi, Atiyeh and Yousefshahi, Mohammad Reza and Cheraghi, Mahdi and Eigner, Vaclav and Kucerakova, Monika and Dusek, Michal and Rezaie, Forough and Kaboudin, Babak, "Heteroleptic Silver (I) and Gold (I) N-Heterocyclic Carbene Complexes: Structural Characterization, Computational Analysis, Tyrosinase Inhibitory, and Biological Effects", Inorganic Chemistry, Vol. 62, NO. 41, 2023
 - Abdollah Neshat, Rahimeh Khezri, Mohammad Reza Yousefshahi, Mohammad Gholinejad, Fahimeh Varmaghani, "Carbon-sulfur Coupling Reactions Catalyzed by Nickel(II) N-Heterocyclic Carbene Complexes", European Journal of Inorganic Chemistry, Vol. 62, NO. 41, 2023
 - Neshat, Abdollah and Kakavand, Meysam and Cheraghi, Mahdi and Balmohammadi, Yaser, "Structural Characterization, DFT Analysis and Catalysis by Highly Active Cationic Fe (II)-Cu (I) Complexes in the Green Synthesis of Triazoles in Water", ChemistrySelect, Vol. 8, NO. 45, 2023
 - Neshat, Abdollah and Akbari-Birgani, Shiva and Cheraghi, Mahdi and Gilanchi, Shirin and Yousefshahi, Mohammad Reza, "A novel heteroleptic N-heterocyclic carbene gold (I)-borate complex: synthesis, DFT analysis and cytotoxicity studies", Inorganica Chimica Acta, Vol. 1274, 2022



- Neshat, Abdollah and Gholinejad, Mohammad and Afrasi, Mahmoud and Mastrorilli, Piero and Todisco, Stefano and Gilanchi, Shirin and Osanlou, Farzane, "Heterocyclic thiolates and phosphine ligands in copper-catalyzed synthesis of propargylamines in water", *Applied Organometallic Chemistry*, Vol. 35, NO. 5, 2021
- Neshat, Abdollah and Gholinejad, Mohammad and Zaman, Hafize and Khosravi, Faezeh and Mobarakeh, Ali Mousavizadeh and Zaim, Omer, "Suzuki coupling reactions catalyzed by Schiff base supported palladium complexes bearing the vitamin B6 cofactor", *Molecular Catalysis*, Vol. 505, NO. 5, 2021
- Neshat, Abdollah and Mastrorilli, Piero and Mousavizadeh Mobarakeh, Ali, "Recent Advances in Catalysis Involving Bidentate N-Heterocyclic Carbene Ligands", *Molecules*, Vol. 27, NO. 1, 2021
- Khalili, Dariush and Evazi, Roya and Neshat, Abdollah and Aboonajmi, Jasem, "Copper (I) Complex of Dihydro Bis (2-Mercapto Benzimidazolyl) Borate as an Efficient Homogeneous Catalyst for the Synthesis of 2H-Indazoles and 5-Substituted 1H-Tetrazoles", *ChemistrySelect*, Vol. 6, NO. 4, 2021
- Neshat, Abdollah and Osanlou, Farzane and Kakavand, Meysam and Mastrorilli, Piero and Schingaro, Emanuela and Mesto, Ernesto and Todisco, Stefano, "Catalytic alcohol oxidation using cationic Schiff base manganese(III) complexes with flexible diamino bridge", *Polyhedron*, Vol. 193, NO. 4, 2021
- Neshat, Abdollah and Kakavand, Meysam and Osanlou, Farzane and Mastrorilli, Piero and Schingaro, Emanuela and Mesto, Ernesto and Todisco, Stefano, "Alcohol Oxidations by Schiff Base Manganese (III) Complexes", *European Journal of Inorganic Chemistry*, Vol. 2020, NO. 5, 2020
- Khalili, Dariush and Evazi, Roya and Neshat, Abdollah and Aboonajmi, Jasem and Osanlou, Farzane, "Click reactions



catalyzed by Cu (I) complexes supported with dihydrobis (2-mercapto-benzimidazolyl) borate and phosphine ligands", *Inorganica Chimica Acta*, Vol. 506, NO. 5, 2020

- Faghih, Zeinab and Neshat, Abdollah and Mastrorilli, Piero and Gallo, Vito and Faghih, Zahra and Gilanchi, Shirin, "Cu (II), Ni (II) and Co (II) complexes with homoscorpionate Bis (2-Mercaptobenzimidazolyl) and Bis (2-Mercaptobenzothiazolyl) borate ligands: Synthesis and in vitro cytotoxicity studies", *Inorganica Chimica Acta*, Vol. 512, NO. 5, 2020
- Neshat, Abdollah and Safdari, Rasoul, "Enhancement in Dye-Sensitized Solar Cells Using Surface Plasmon Resonance Effects from Colloidal Core-Shell Au@ SiO₂ Nanoparticles", *ChemistrySelect*, Vol. 4, NO. 17, 2019
- Neshat, Abdollah and Afrasi, Mahmoud and Gilanchi, Shirin and Gholinejad, Mohammad, "An Efficient A₃ Coupling Catalyst Based on a Silver Complex Bearing N-Heterocyclic Carbene and Homoscorpionate Bis (3-methyl-mercaptoimidazolyl) borate Ligands", *ChemistrySelect*, Vol. 4, NO. 32, 2019
- Neshat, Abdollah and Shahsavari, Hamid R and Mastrorilli, Piero and Todisco, Stefano and Haghighi, Mohsen Golbon and Notash, Behrouz, "A Borane Platinum Complex Undergoing Reversible Hydride Migration in Solution", *Inorganic Chemistry*, Vol. 57, NO. 3, 2018
- Neshat, Abdollah and Varestan, Solmaz and Halvagar, Mohammad Reza, "Cu (I) complexes of dihydrobis (2-mercapto-benzimidazolyl) borate and dihydrobis (2-mercapto-benzothiazolyl) borate ligands: structural, photophysical and computational studies", *New Journal of Chemistry*, Vol. 42, NO. 3, 2018
- Neshat, Abdollah and Aghakhanpour, Reza Babadi and Mastrorilli, Piero and Todisco, Stefano and Molani, Farzad and Wojtczak, Andrzej, "Dinuclear and tetranuclear copper (I) iodide complexes with P and P[^]{ } N donor ligands: Structural and



photoluminescence studies", *Polyhedron*, Vol. 154, NO. 3, 2018

- Faghih, Zeinab and Neshat, Abdollah and Wojtczak, Andrzej and Faghih, Zahra and Mohammadi, Zahra and Varestan, Solmaz, "Palladium (II) complexes based on Schiff base ligands derived from ortho-vanillin; synthesis, characterization and cytotoxic studies", *Inorganica Chimica Acta*, Vol. 471, NO. 3, 2018
- Gholinejad, Mohammad and Neshat, Abdollah and Zareh, Fatemeh and N{\'a}jera, Carmen and Razeghi, Mehran and Khoshnood, Abbas, "Palladium supported on bis (indolyl) methane functionalized magnetite nanoparticles as an efficient catalyst for copper-free Sonogashira-Hagihara reaction", *Applied Catalysis A: General*, Vol. 525, NO. 3, 2016
- Gao, Yunxiang and Mori, Taizo and Manning, Sarah and Zhao, Yu and Nielsen, Alek D and Neshat, Abdollah and Sharma, Anshul and Mahnen, Cory J and Everson, Heather R and Crotty, Sierra and others, "Biocompatible 3D liquid crystal elastomer cell scaffolds and foams with primary and secondary porous architecture", *ACS Macro Letters*, Vol. 5, NO. 1, 2016
- Neshat, Abdollah, "Synthesis, characterization and photophysical properties of some 3, 3'-bisindolyl (aryl) methanes", *RSC advances*, Vol. 6, NO. 39, 2016
- Sharma, Anshul and Neshat, Abdollah and Mahnen, Cory J and Nielsen, Alek D and Snyder, Jacob and Stankovich, Tory L and Daum, Benjamin G and LaSpina, Emily M and Beltrano, Gabrielle and Gao, Yunxiang and others, "Biocompatible, biodegradable and porous liquid crystal elastomer scaffolds for spatial cell cultures", *Macromolecular bioscience*, Vol. 15, NO. 2, 2015
- Mahmoodi, Niyaz Mohammad and Najafi, Farhood and Neshat, Abdollah, "Poly (amidoamine-co-acrylic acid) copolymer: Synthesis, characterization and dye removal ability", *Industrial crops and products*, Vol. 42, NO. 2, 2013



- Neshat, Abdollah and Schmidt, Joseph AR, "Derivatization of Niobium Complexes Bearing Imido and Acetophenone Imine Ligands", *Organometallics*, Vol. 29, NO. 23, 2010
- Beck, John F and Baiz, Tamam I and Neshat, Abdollah and Schmidt, Joseph AR, "Titanium imido complexes utilizing ortho metallated derivatized acetophenone and piperonal imine ligands: synthesis, isolation, and characterization", *Dalton Transactions*, Vol. 29, NO. 25, 2009
- Neshat, Abdollah and Seambos, Cheryl L and Beck, John F and Schmidt, Joseph AR, "Mono-anionic acetophenone imine ligands: synthesis, ortho-lithiation and first examples of group (V) metal complexes", *Dalton Transactions*, Vol. 29, NO. 25, 2009
- Hanauer, Matthias and Neshat, Abdollah and Bigioni, Terry P, "Tris (1, 10-phenanthroline- κ^2N, N') cobalt (III) tris (trifluoromethanesulfonate) dihydrate", *Acta Crystallographica Section C: Crystal Structure Communications*, Vol. 64, NO. 3, 2008
- Pitcher, Michael W and Neshat, Abdollah and Seyyidoglu, Semih, "Formation of metastable vaterite crystals in a polymer matrix by gaseous diffusion", *Journal of the Chilean Chemical Society*, Vol. 53, NO. 2, 2008
- Aghatabay, Naz M and Neshat, A and Karabiyik, T and Somer, M and Hacıoğlu, D and Diler, B, "Synthesis, characterization and antimicrobial activity of Fe (II), Zn (II), Cd (II) and Hg (II) complexes with 2, 6-bis (benzimidazol-2-yl) pyridine ligand", *European journal of medicinal chemistry*, Vol. 42, NO. 2, 2007
- Tavman, Aydin and Agh-Atabay, Naz M and Neshat, Abdollah and Gücin, Fahrettin and Dulger, Basaran and Hacıoğlu, Durata, "Structural Characterization and Antimicrobial Activity of 2-(5-H/methyl-1H-benzimidazol-2-yl)-4-bromo/nitro-phenol Ligands and their Fe (NO₃)₃ Complexes", *Transition metal chemistry*, Vol. 31, NO. 2, 2006



- Tavman, Aydin and Agh-Atabay, Naz M and Neshat, Abdollah and Gucin, Fahrettin and Dulger, Basaran and Hacıoğlu, Durata, "Structural Characterization and Antimicrobial Activity of 2-(5-H/methyl-1 H-benzimidazol-2-yl)-4-bromo/nitro-phenol Ligands and their Fe (NO₃)₃ Complexes", Transition metal chemistry, Vol. 31, 2006
- Tabatabaeian, K and Mamaghani, M and Neshat, A and Masjedi, M, "SYNTHESIS AND SPECTROSCOPIC STUDIES OF NOVEL SUBSTITUTED DINUCLEAR η^5 -5, 6, 7-TETRAHYDROINDENYL RUTHENIUM COMPLEXES", Координационная химия, Vol. 29, NO. 7, 2003
- Tabatabaeian, K and Mamaghani, M and Neshat, A and Masjedi, M, "Synthesis and Spectroscopic Studies of New Substituted Dinuclear η^5 -5, 6, 7-Tetrahydroindenyl Ruthenium Complexes", Russian Journal of Coordination Chemistry, Vol. 29, NO. 7, 2003