Curriculum Vitae

Farhad Panahi

Organic Chemistry (PhD)

Shiraz University, Department of Chemistry, College of Science, Shiraz, Iran

Emails: panahi@shirazu.ac.ir; panahichem@ymail.com

Mobile: +989028211397

https://scholar.google.com/citations?user=sYuOPlwAAAAJ&hl=en

Personal Information

Date of birth: 23 August 1984

Gender: Male Marital status: Married Nationality: Iranian

Languages: Persian, English, Deutsch (Beginning levels)

Academic Records

- Postdoctoral, Organic Chemistry (Alexander von Humboldt Fellowship) 2017-2019

Albert-Ludwigs-Universität Freiburg, Freiburg, Germany (Prof. B. Breit)

Rhodium-Catalyzed synthesis of alpha amino acids with quaternary carbon stereocenters

- Postdoctoral, Organic Chemistry (Iran Science Elites Federation) 2016-2017
  Alzahra University, Tehran, Iran (Prof. M. M. Heravi)

Ni-catalyzed Carbon-carbon bond formations via C-O Bond Activation: Synthesis of Nitriles and Amides

- Postdoctoral, Organic Chemistry (Iranian National Elite Foundation) 2013-2016

Shiraz University, Shiraz, Iran (Prof. N. Iranpoor)

Ni-catalyzed Reductive Coupling Reactions, Carbon-carbon and carbon-heteroatom bond formations via C-O Bond Activation

- Ph.D., Organic Chemistry 2008-2013

Shiraz University, Shiraz, Iran (Prof. A. Khalafi-Nezhad)

Preparation and characterization of heterogeneous Palladium and Ruthenium catalysts for application in C-C bond formation reactions under green conditions

- M.S., Organic Chemistry 2006-2008

Persian Gulf University, Bushehr, Iran (Prof. K. Niknam)

Synthesis of novel π-conjugated organic semiconductor materials for application in organic light emitting diodes (OLED)

- B.S., Pure Chemistry 2002-2006

Shiraz University, Shiraz, Iran

Personal Research Interests

- Transition Metal Catalysis
- Heterogeneous Catalysis
- Synthesis of Organic Electronics Materials
- Synthesis of Biologically Active compounds
- Green Chemistry

Career achievements and Awards

- Postdoctoral research flow from Alexander von Humboldt Foundation (2017)
- 16th Khwarizmi Youth Award (2014)
- TWAS, Yong researcher in Organic Chemistry (2014)
- Postdoctoral research flow from Iranian National Elite Foundation (2013)
- Membership of Iranian National Elite Foundation (2013-now)
- Ranked 1 in the PhD entrance exam in Organic Chemistry, Shiraz University-Iran, 2008
- Being top 1% among over one million students in the national entrance exam for undergraduate degree in 2002

Teaching Experiences

- General Chemistry, 1 semester, Shiraz University, Shiraz, Iran
- Organic Chemistry II Lab, 1 semester, Shiraz University, Shiraz, Iran
- Physical Organic Chemistry, 1 semester, Shiraz University, Shiraz, Iran
- Organic Chemistry I, 3 semesters, Amirkabir University of Technology, Tehran, Iran
- Organic Chemistry II, 2 semesters, Amirkabir University of Technology, Tehran, Iran
- Organic Chemistry Lab I, 2 semesters, Shiraz University, Shiraz, Iran
- Organic Chemistry Lab II, 2 semesters, Shiraz University, Shiraz, Iran
- General Chemistry I Lab, 1 semester, Shiraz University, Shiraz, Iran
- General Chemistry II Lab, 1 semester, Shiraz University, Shiraz, Iran

List of Publications	Year
92. Reduction of Aldehydes with Formic acid in Ethanol using Immobilized Iridium Nanoparticles on a Triazine-phosphanimine Polymeric Organic Support F Panahi, F Haghighi, A Khalafi-Nezhad Applied Organometallic Chemistry, e5880	2020
91. Synthesis of new curcumin derivatives as influential antidiabetic α-glucosidase and α-amylase inhibitors with anti-oxidant activity Z Tavaf, S Khajeh Dangolani, R Yousefi, F Panahi, M B Shahsavani, A Khalafi-Nezhad Carbohydrate Research, 108069	2020
90. Photophysical Properties of a Donor-π-Acceptor Distyrylbenzene Derivative in Solution and Solid state FS Miri, SG Kandi, F Panahi Journal of Fluorescence, 30, 917–926	2020
89. Synthesis of new curcumin-based aminocarbonitrile derivatives incorporating 4H-pyran and 1, 4-dihydropyridine heterocycles. S Khajeh Dangolani, F Panahi, A Khalafi-Nezhad Molecular Diversity	2020
88. Palladium-Catalyzed Cyanation of Aryl Halides Using Formamide and Cyanuric Chloride as a New "CN" Source E Niknam, F Panahi, A. Khalafi-Nezhad European Journal of Organic Chemistry	2020
87. Immobilized Pd on a NHC functionalized metal–organic framework MIL-101 (Cr): an efficient heterogeneous catalyst in Suzuki–Miyaura coupling reaction in water E Niknam, F Panahi, A Khalafi-Nezhad Applied Organometallic Chemistry, e5470	2020
86. Nickel-catalyzed Reductive Amidation of Aryl-triazine Ethers MM Heravi, F Panahi, N Iranpoor Chemical Communications 56, 1992-1995	2020
85. Immobilized palladium nanoparticles on a cyclodextrin-polyurethane nanosponge (Pd-CD-PU-NS): An efficient catalyst for cyanation reaction in aqueous media SK Dangolani, S Sharifat, F Panahi, A Khalafi-Nezhad Inorganica Chimica Acta 494, 256-265	2019
84. Biological evaluation of 9-(*1H*-Indol-3-yl) xanthen-4-(*9H*)-ones derivatives as	2019

noncompetitive α-glucosidase inhibitors: kinetics and molecular mechanisms M Nourisefat, N Salehi, S Yousefinejad, F Panahi, K Bagherzadeh, M Amanlou, A Khalafi-Nezhad, M H Karimi-Jafari, N Sheibani, A A Moosavi-Movahedi Structural Chemistry 30 (3), 703-714	
83. Amino acids and peptides as reactants in multicomponent reactions: modification of peptides with heterocycle backbones through combinatorial chemistry M Nourisefat, F Panahi, A Khalafi-Nezhad Molecular diversity 23 (2), 317-331	2019
82. Correction to "Synthesis and Antioxidant Activity Evaluation of Some Novel Aminocarbonitrile Derivatives Incorporating Carbohydrate Moieties" SK Dangolani, F Panahi, Z Tavaf, M Nourisefat, R Yousefi, A. Khalafi-Nezhad ACS omega 4 (3), 5862	2019
81. Efficient and selective microwave-assisted O-methylation of phenolic compounds using tetramethylammonium hydroxide (TMAH) F Gholipour, M Rahmani, F Panahi Green Processing and Synthesis 8 (1), 584-589	2019
80. Metal–Organic Framework MIL-101 (Cr) as an Efficient Heterogeneous Catalyst for Clean Synthesis of Benzoazoles E Niknam, F Panahi, F Daneshgar, F Bahrami, A Khalafi-Nezhad ACS omega 3 (12), 17135-17144	2018
79. Synthesis and Antioxidant Activity Evaluation of Some Novel Aminocarbonitrile Derivatives Incorporating Carbohydrate Moieties S Khajeh Dangolani, F Panahi, Z Tavaf, M Nourisefat, R Yousefi, A. Khalafi-Nezhad ACS omega 3 (8), 10341-10350	2018
78. A novel tetra-stilbene-based fluorescent compound: Synthesis, characterization and photophysical properties evaluation A Mahmoodi, F Panahi, F Eshghi, E Kimiaei Journal of Luminescence 199, 165-173	2018

77. Nickel-Catalyzed Deoxycyanation of Activated Phenols via Cyanurate Intermediates with $Zn(CN)_2$: A Route to Aryl Nitriles — 2018

MM Heravi, F Panahi, N Iranpoor

Organic letters 20 (9), 2753-2756

76. Nickel-Catalyzed Reductive Etherification of Aldehydes at Room Temperature: C–O vs C–C Bond Formation — 2018

S Rahimi, F Panahi, M Bahmani, N Iranpoor

The Journal of organic chemistry 83 (2), 973-979

75. Supported palladium on magnetic nanoparticles–starch substrate (Pd-MNPSS): highly efficient magnetic reusable catalyst for C–C coupling reactions in water — 2018

M Tukhani, F Panahi, A Khalafi-Nezhad

ACS Sustainable Chemistry & Engineering 6 (1), 1456-1467

74. Synthesis and characterization of a novel oxo-bridged binuclear iron (III) complex: its catalytic application in the synthesis of benzoxazoles using benzyl alcohol in water — 2018

E Safaei, Z Alaji, F Panahi, A Wojtczak, JZ Jagličić

New Journal of Chemistry 42 (9), 7230-7236

73. Immobilized Pd nanoparticles on silica-starch substrate (PNP-SSS): efficient heterogeneous catalyst in Buchwald–Hartwig C–N cross coupling reaction — 2017

F Panahi, F Daneshgar, F Haghighi, A Khalafi-Nezhad

Journal of Organometallic Chemistry 851, 210-217

72. Magnetic nanoparticles grafted l-carnosine dipeptide: remarkable catalytic activity in water at room temperature — 2017

F Panahi, F Bahrami, A Khalafi-Nezhad

Journal of the Iranian Chemical Society 14 (10), 2211-2220

71. Immobilized copper iodide on a porous organic polymer bearing P, N-ligation sites: a highly efficient heterogeneous catalyst for CO bond formation reaction — 2017

N Iranpoor, F Panahi, F Roozbin, S Rahimi, MG Haghighi

Molecular Catalysis 438, 214-223

70. Evaluation of antibacterial, antibofilm and antioxidant activities of synthesized silver nanoparticles (AgNPs) and casein peptide fragments against streptococcus mutans Z Tavaf, M Tabatabaei, A Khalafi-Nezhad, F Panahi European Journal of Integrative Medicine 12, 163-171	2017
69. Selective and Efficient Formylation of Indoles (C3) and Pyrroles (C2) Using 2, 4, 6-Trichloro-1, 3, 5-Triazine/Dimethylformamide (TCT/DMF) Mixed Reagent N Iranpoor, F Panahi, S Erfan, F Roozbin Journal of Heterocyclic Chemistry 54 (2), 904-910	2017
68. Graphene Grafted N-Methyl-4-pyridinamine (G-NMPA): An Efficient Heterogeneous Organocatalyst for Acetylation of Alcohols F Panahi, R Fareghi-Alamdari, S Khajeh Dangolani, A Khalafi-Nezhad, M Golestanzadeh ChemistrySelect 2 (1), 474-479	2017
67. New bis(N-heterocyclic carbene) palladium complex immobilized on magnetic nanoparticles: as a magnetic reusable catalyst in Suzuki-Miyaura cross coupling ... R Fareghi-Alamdari, MS Saeedi, F Panahi Applied Organometallic Chemistry 31 (12), e3870	2017
66. Transition metal-free N-fluoroalkylation of amines using cyanurate activated fluoroalcohols F Haghighi, F Panahi, MG Haghighi, A Khalafi-Nezhad Chemical Communications 53 (94), 12650-12653	2017
65. Multicomponent synthesis of new curcumin-based pyrano [2, 3-d] pyrimidine derivatives using a nano-magnetic solid acid catalyst F Panahi, E Niknam, S Sarikhani, F Haghighi, A Khalafi-Nezhad New Journal of Chemistry 41 (20), 12293-12302	2017
64. Synthesis of imidazole and theophylline derivatives incorporating pyrimidine-fused heterocycles using magnetic nanoparticles-supported tungstic acid (MNP-TA) catalyst M Divar, F Panahi, SR Shariatipour, A Khalafi-Nezhad Journal of Heterocyclic Chemistry 54 (1), 660-669	2017

63. l-Cysteine-functionalized magnetic nanoparticles (LCMNP): as a magnetic reusable organocatalyst for one-pot synthesis of 9-(1H-indol-3-yl) xanthen-4-(9H)-ones — 2016

M Nourisefat, F Panahi, M Nabipour, S Heidari, A Khalafi-Nezhad

Journal of the Iranian Chemical Society 13 (10), 1853-1865

62. Synthesis of a Novel Magnetic Reusable Organocatalyst Based on 4-Dialkylaminopyridines for Acyl Transformations — 2016

F Panahi, SK Dangolani, A Khalafi-Nezhad

ChemistrySelect 1 (13), 3541-3547

61. Palladium-Catalyzed Aminocarbonylation of Aryl Halides with 2, 4, 6-Trichloro-1, 3, 5-triazine/Formamide Mixed Reagent — 2016

N Iranpoor, F Panahi, F Roozbin, S Erfan, S Rahimi

European Journal of Organic Chemistry 2016 (9), 1781-1787

60. Nickel-Catalyzed Reductive Addition of Aryl/Benzyl Halides and Pseudohalides to Carbodiimides for the Synthesis of Amides — 2016

F Panahi, F Jamedi, N Iranpoor

European Journal of Organic Chemistry 2016 (4), 780-788

59. In situ generated and stabilized Pd nanoparticles by N^2, N^4, N^6-tridodecyl-1, 3, 5-triazine-2, 4, 6-triamine (TDTAT) as a reactive and efficient catalyst for the Suzuki … — 2016

N Iranpoor, S Rahimi, F Panahi

RSC advances

58. Immobilized NNN Pd-complex on magnetic nanoparticles: efficient and reusable catalyst for Heck and Sonogashira coupling reactions — 2016

FD Firuzabadi, Z Asadi, F Panahi

RSC advances 6 (103), 101061-101070

57. 4-Dialkylaminopyridine modified magnetic nanoparticles: as an efficient nano-organocatalyst for one-pot synthesis of 2-amino-4 H-chromene-3-carbonitrile derivatives in water — 2016

SK Dangolani, F Panahi, M Nourisefat, A Khalafi-Nezhad

RSC advances 6 (95), 92316-92324

56. A triazine-phosphite polymeric ligand bearing cage-like P, N-ligation sites: an efficient ligand in the nickel-catalyzed amination of aryl chlorides and phenols F Panahi, F Roozbin, S Rahimi, M Moayyed, A Valaei, N Iranpoor RSC advances 6 (84), 80670-80678	2016
55. Synthesis of new α-aminophosphonate derivatives incorporating benzimidazole, theophylline and adenine nucleobases using L-cysteine functionalized magnetic nanoparticles (LCMNP … F Bahrami, F Panahi, F Daneshgar, R Yousefi, MB Shahsavani, A. Khalafi-Nezhad RSC advances 6 (7), 5915-5924	2016
54. In situ generated and stabilized Pd nanoparticles by N 2, N 4, N 6-tridodecyl-1, 3, 5-triazine-2, 4, 6-triamine (TDTAT) as a reactive and efficient catalyst for the Suzuki … N Iranpoor, S Rahimi, F Panahi RSC Advances 6 (4), 3084-3090	2016
53. Phosphanamine-functionalized magnetic nanoparticles (PAFMNP): an efficient magnetic recyclable ligand for the Pd-catalyzed Heck reaction of chloroarenes F Panahi, N Zarnaghash, A Khalafi-Nezhad New Journal of Chemistry 40 (2), 1250-1255	2016
52. The interaction of carbon monoxide to Fe (III)(salen)-PEDOT: PSS composite as a gas sensor F Arabloo, S Javadpour, R Memarzadeh, F Panahi, MD Emami, ... Synthetic Metals 209, 192-199	2015
51. Buchwald–Hartwig amination reaction using supported palladium on phosphine-functionalized magnetic nanoparticles N Zarnaghash, F Panahi, A Khalafi-Nezhad Journal of the Iranian Chemical Society 12 (11), 2057-2064	2015
50. Novel curcumin-based pyrano [2, 3-d] pyrimidine anti-oxidant inhibitors for α-amylase and α-glucosidase: Implications for their pleiotropic effects against diabetes complications A Yousefi, R Yousefi, F Panahi, S Sarikhani, AR Zolghadr, A Bahaoddini, ... International journal of biological macromolecules 78, 46-55	2015

49. Design and synthesis of new antidiabetic α-glucosidase and α-amylase inhibitors based on pyrimidine-fused heterocycles S Shahidpour, F Panahi, R Yousefi, M Nourisefat, M Nabipoor, ... Medicinal Chemistry Research 24 (7), 3086-3096	2015
48. Synthesis of novel poly-hydroxyl functionalized acridine derivatives as inhibitors of α-glucosidase and α-amylase Z Toobaei, R Yousefi, F Panahi, S Shahidpour, M Nourisefat, ... Carbohydrate research 411, 22-32	2015
47. Green synthesis of silver nanoparticles by reduced glycated casein adducts: Assessment of their antibacterial and antioxidant activity against Streptococcus mutans Z Tavaf, M Tabatabaei, A Khalafi-Nezhad, F Panahi, A Hosseini European Journal of Integrative Medicine 7 (3), 294-302	2015
46. Nickel-Catalyzed Reductive Benzylation of Aldehydes with Benzyl Halides and Pseudohalides F Panahi, M Bahmani, N Iranpoor Advanced Synthesis & Catalysis 357 (6), 1211-1220	2015
45. Nickel-catalyzed one-pot synthesis of biaryls from phenols and arylboronic acids via C–O activation using TCT reagent N Iranpoor, F Panahi, F Jamedi Journal of Organometallic Chemistry 781, 6-10	2015
44. Nickel-catalyzed one-pot deoxygenation and reductive homocoupling of phenols via C–O Activation using TCT reagent N Iranpoor, F Panahi Organic letters 17 (2), 214-217	2015
43. l-Cysteine functionalized magnetic nanoparticles (LCMNP): a novel magnetically separable organocatalyst for one-pot synthesis of 2-amino-4 H-chromene-3-carbonitriles in water A Khalafi-Nezhad, M Nourisefat, F Panahi Organic & biomolecular chemistry 13 (28), 7772-7779	2015

42. Synthesis of new surfactant-like triazine-functionalized ligands for Pd-catalyzed Heck and Sonogashira reactions in water N Iranpoor, S Rahimi, F Panahi RSC Advances 5 (61), 49559-49567	2015
41. Magnetic nanoparticles-supported tungstic acid (MNP-TA): an efficient magnetic recyclable catalyst for the one-pot synthesis of spirooxindoles in water A Khalafi-Nezhad, M Divar, F Panahi RSC Advances 5 (3), 2223-2230	2015
40. Direct Nickel-Catalyzed Amination of Phenols via C□ O Bond Activation using 2, 4, 6-Trichloro-1, 3, 5-triazine (TCT) as Reagent N Iranpoor, F Panahi Advanced Synthesis & Catalysis 356 (14-15), 3067-3073	2014
39. Magnetic nanoparticles-supported tungstosilicic acid: as an efficient magnetically separable solid acid for the synthesis of benzoazoles in water A Khalafi-Nezhad, F Panahi, R Yousefi, S Sarrafi, Y Gholamalipour Journal of the Iranian Chemical Society 11 (5), 1311-1319	2014
38. Trimethylsilyl iodide as a multifunctional agent in the one-pot synthesis of 9-(1H-Indol-3-yl) xanthen-4-(9H)-ones from O-methyl protected Salicylaldehydes, indoles, and β-Dicarbonyl Compounds A Khalafi-Nezhad, M Nourisefat, F Panahi synthesis 46 (15), 2071-2078	2014
37. An efficient procedure for the synthesis of phenacyl and benzyl azolium salts using fluorous alcohols A Khalafi-Nezhad, F Panahi, R Yousefi, Y Gholamalipour, S Sarrafi Journal of the Iranian Chemical Society 11 (4), 1189-1196	2014
36. Ruthenium-catalyzed synthesis of benzoxazoles using acceptorless dehydrogenative coupling reaction of primary alcohols with 2-aminophenol under heterogeneous conditions A Khalafi-Nezhad, F Panahi	2014

ACS Catalysis 4 (6), 1686-1692	
35. Size-controlled synthesis of palladium nanoparticles on a silica–cyclodextrin substrate: A novel palladium catalyst system for the Heck reaction in water A Khalafi-Nezhad, F Panahi ACS Sustainable Chemistry & Engineering 2 (5), 1177-1186	2014
34. Photo-switching effect in stilbene organic field effect transistors H Karimi-Alavijeh, F Panahi, A Gharavi Journal of Applied Physics 115 (9), 093706	2014
33. Blue to red electroluminescence emission from organic light-emitting diodes based on π-conjugated organic semiconductor materials MT Sharbati, F Panahi, AR Nekoei, F Emami, K Niknam Journal of Photonics for Energy 4 (1), 043599	2014
32. L-Proline-modified magnetic nanoparticles (LPMNP): a novel magnetically separable organocatalyst A Khalafi-Nezhad, M Nourisefat, F Panahi RSC Advances 4 (43), 22497-22500	2014
31. Carbohydrates as a reagent in multicomponent reactions: one-pot access to a new library of hydrophilic substituted pyrimidine-fused heterocycles M Nourisefat, F Panahi, A Khalafi-Nezhad Organic & biomolecular chemistry 12 (46), 9419-9426	2014
30. Pyrimidine-fused heterocycle derivatives as a novel class of inhibitors for α-glucosidase R Yousefi, MM Alavian-Mehr, F Mokhtari, F Panahi, MH Mehraban, A. Khalafi-Nezhad Journal of enzyme inhibition and medicinal chemistry 28 (6), 1228-1235	2013
29. Binding study of novel anti-diabetic pyrimidine fused heterocycles to β-lactoglobulin as a carrier protein MH Mehraban, R Yousefi, A Taheri-Kafrani, F Panahi, A Khalafi-Nezhad Colloids and Surfaces B: Biointerfaces 112, 374-379	2013

28. Immobilized palladium nanoparticles on silica functionalized N-propylpiperazine sodium N-propionate (SBPPSP): catalytic activity evaluation in copper-free Sonogashira reaction K Niknam, A Deris, F Panahi, MRH Nezhad Journal of the Iranian Chemical Society 10 (6), 1291-1296	2013
27. A new silica-supported organocatalyst based on L-proline: An efficient heterogeneous catalyst for one-pot synthesis of spiroindolones in water A Khalafi-Nezhad, ES Shahidzadeh, S Sarikhani, F Panahi Journal of Molecular Catalysis A: Chemical 379, 1-8	2013
26. Synthesis of α-aminonitriles with benzimidazolic and theophyllinic backbones using the strecker reaction A Khalafi-Nezhad, M Divar, F Panahi The Journal of organic chemistry 78 (21), 10902-10908	2013
25. Synthesis of new pyrimidine-fused derivatives as potent and selective antidiabetic α-glucosidase inhibitors F Panahi, R Yousefi, MH Mehraban, A Khalafi-Nezhad Carbohydrate research 380, 81-91	2013
24. Phosphine-functionalized magnetic nanoparticles (PFMN) as a magnetic recyclable phosphorus ligand: Preparation of its palladium (II) complex for Heck reaction of chloroarenes A Khalafi-Nezhad, F Panahi Journal of Organometallic Chemistry 741, 7-14	2013
23. Nano-TiO_2 on Dodecyl-Sulfated Silica: As an Efficient Heterogeneous Lewis Acid–Surfactant-Combined Catalyst (HLASC) for Reaction in Aqueous Media A Khalafi-Nezhad, S Mowlazadeh Haghighi, F Panahi ACS Sustainable Chemistry & Engineering 1 (8), 1015-1023	2013
22. One-Pot Synthesis of 5,7,8,9,9a,10-Hexahydro-8-thioxotetrahydropyrido[2,3-*d* : 6,5-*d*′]dipyrimidine-2,4,6(1*H*,3*H*,5a*H*)-triones *via* a Four-Component ... A Khalafi-Nezhad, F Panahi, B Golesorkhi	2013

Helvetica Chimica Acta 96 (6), 1155-1162	
21. Modification of silica using piperazine for immobilization of palladium nanoparticles: a study of its catalytic activity as an efficient heterogeneous catalyst for Heck and … K Niknam, MS Habibabad, A Deris, F Panahi, MRH Nezhad Journal of the Iranian Chemical Society 10 (3), 527-534	2013
20. A green and efficient procedure for one-pot synthesis of xanthenes and acridines using silica boron–sulfuric acid nanoparticles (SBSANs) as a solid Lewis-protic acid A Khalafi-Nezhad, F Panahi, S Mohammadi, HO Foroughi Journal of the Iranian Chemical Society 10 (2), 189-200	2013
19. Silica-functionalized N-propylpiperazine for immobilization of palladium nanoparticles as efficient heterogeneous catalyst for cyanation reactions K Niknam, A Deris, F Panahi Chinese Journal of Catalysis 34 (4), 718-722	2013
18. Nucleosides as reagents in multicomponent reactions: one-pot synthesis of heterocyclic nucleoside analogues incorporating pyrimidine-fused rings A Khalafi-Nezhad, M Divar, F Panahi Tetrahedron Letters 54 (3), 220-222	2013
17. Carbon monoxide sensor based on a B2HDDT-doped PEDOT: PSS layer R Memarzadeh, HB Noh, S Javadpour, F Panahi, A Feizpour, YB Shim Bulletin of the Korean Chemical Society 34 (8), 2291-2296	2013
16. Near-infrared electroluminescence from organic light emitting diode based on Imine oligomer with low turn on voltage MT Sharbati, F Panahi, A Shourvarzi, S Khademi, F Emami Optik 124 (1), 52-54	2013
15. Silica Boron Sulfuric Acid Nanoparticles: As an Efficient and Reusable Catalyst for the Large-Scale Synthesis of α-Amino Nitriles Using the Strecker Reaction A Khalafi-Nezhad, HO Foroughi, F Panahi Heteroatom Chemistry 24 (1), 1-8	2013

14. Immobilized palladium nanoparticles on silica–starch substrate (PNP–SSS): As a stable and efficient heterogeneous catalyst for synthesis of p-teraryls using Suzuki reaction A Khalafi-Nezhad, F Panahi Journal of Organometallic Chemistry 717, 141-146	2012
13. Structure–cytotoxicity relationship of a novel series of miconazole-like compounds R Yousefi, A Khalafi-Nezhad, MNS Rad, S Behrouz, F Panahi, M Esmaili, S M Ghaffari, A Niazi, A Akbar Moosavi-Movahedi Medicinal Chemistry Research 21 (8), 1921-1928	2012
12. An efficient one-pot access to quinazolinone derivatives using TiO2 nanoparticles as catalyst: synthesis and vasorelaxant activity evaluation A Khalafi-Nezhad, SM Haghighi, A Purkhosrow, F Panahi Synlett 23 (06), 920-924	2012
11. The Interaction of CO to the Co (salen) Complex in to PEDOT: PSS Film and Sensor Application R Memarzadeh, F Panahi, S Javadpour, KN Ali, HB Noh, YB Shim Bulletin of the Korean Chemical Society 33 (4), 1297-1302	2012
10. L-Proline-promoted three-component reaction of anilines, aldehydes and barbituric acids/malononitrile: regioselective synthesis of 5-arylpyrimido [4, 5-b] quinoline-diones and … A Khalafi-Nezhad, S Sarikhani, ES Shahidzadeh, F Panahi Green Chemistry 14 (10), 2876-2884	2012
9. Synthesis of some new 1, 4-distyrylbenzenes using immobilized palladium nanoparticles on silica functionalized morpholine as a recyclable catalyst K Niknam, A Gharavi, MRH Nezhad, F Panahi, MT Sharbati Synthesis 2011 (10), 1609-1615	2011
8. Assembly of Cyclometalated Platinum (II) Complexes via 1, 1′-Bis (diphenylphosphino) ferrocene Ligand: Kinetics and Mechanisms SM Nabavizadeh, H Amini, HR Shahsavari, M Namdar, M Rashidi, R Kia, B Hemmateenejad, M Nekoeinia, A Ariafard, FN Hosseini, A Gharavi, A Khalafi-Nezhad, M T Sharbati, F Panahi	2011

Organometallics 30 (6), 1466-1477	
7. Synthesis of new dihydropyrimido [4, 5-b] quinolinetrione derivatives using a four-component coupling reaction A Khalafi-Nezhad, F Panahi Synthesis 2011 (06), 984-992	2011
6. Silica boron–sulfuric acid nanoparticles (SBSANs): preparation, characterization and their catalytic application in the Ritter reaction for the synthesis of amide derivatives A Khalafi-Nezhad, H ollah Foroughi, MM Doroodmand, F Panahi Journal of Materials Chemistry 21 (34), 12842-12851	2011
5. Immobilized palladium nanoparticles on a silica–starch substrate (PNP–SSS): as an efficient heterogeneous catalyst for Heck and copper-free Sonogashira reactions in water A Khalafi-Nezhad, F Panahi Green Chemistry 13 (9), 2408-2415	2011
4. Near-infrared organic light-emitting diodes based on donor-pi-acceptor oligomers MT Sharbati, F Panahi, A Gharavi IEEE Photonics Technology Letters 22 (22), 1695-1697	2010
3. Silica-bonded *S*-sulfonic acid as recyclable catalyst for the synthesis of 1,8-dioxo-decahydroacridines and 1,8-dioxo-octahydroxanthenes K Niknam, F Panahi, D Saberi, M Mohagheghnejad Journal of Heterocyclic Chemistry 47 (2), 292-300	2010
2. Morpholine doped poly (3, 4-ethylenedioxy) thiophene–poly (styrenesulfonate) as a low temperature and quick carbon monoxide sensor S Javadpour, A Gharavi, A Feizpour, A Khanehzar, F Panahi Sensors and Actuators B: Chemical 142 (1), 152-158	2009
1. Trityl chloride as a novel and efficient organic catalyst for room temperature preparation of bis (indolyl) methanes under solvent-free conditions in neutral media A Khalafi-Nezhad, A Parhami, A Zare, ARM Zare, A Hasaninejad, F Panahi Synthesis 2008 (04), 617-621	2008

Highlighted Papers	Year
Access to modified peptides with heterocycle backbones using combinatorial chemistry https://atlasofscience.org/access-to-modified-peptides-with-heterocycle-backbones-using-combinatorial-chemistry/	2020
Formamide and Cyanuric Chloride as a New Cyanation Agent https://www.chemistryviews.org/details/ezine/11230135/Formamide_and_Cyanuric_Chloride_as_a_New_Cyanation_Agent.html	2020
A New CN Source for the Palladium-Catalyzed Cyanation of Aryl Halides Y Uozumi, R Niimi Synfacts 2020; 16(08): 0952	2020
C–C Bond Formation by Using a Supported Palladium–Schiff Base Complex Y Uozumi, S Pan Synfacts 13 (02), 0218-0218	2017
Nanoorganocatalyst for the Synthesis of 2-Amino-4H-chromene-3-carbonitriles Y Uozumi, A Tazawa Synfacts 13 (01), 0102-0102	2017
Synthesis of α-Aminophosphonates with l-Cysteine Functionalized MNPs Y Uozumi, H Baek Synfacts 12 (04), 0425-0425	2016
One-Pot Synthesis of 2-Amino-4H-chromene-3-carbonitrile Derivatives Y Uozumi, YMA Yamada, H Baek Synfacts 11 (11), 1226-1226	2015

ISC Papers	Year
Investigation of the Behavior of Conjugated Fluorescence Dyes as Amine Sensors F Miri, S Gorji, F Panahi Journal of studies in color world, Volume:8 Issue:3, 2018, PP 55 -70	2018
F Arabloo Narehee , R Memarzadeh, F Panahi, M Davazdah Emami, S Javadpour, M H Shariat Advanced Prosesses in Materials Engineering, Volume:12 Issue:44, 2018, PP 1 -10	2018
Catalytic Evaluation of Palladium Nanoparticles on Silica-Grafted n-Propyl-Diaza-15-Crown-5 (PNP-SGPDC) in the Heck and Suzuki Reactions D Saberi, K Niknam, F Panahi, MR Hormozi-Nezhad Organic Chemistry Research 1 (1), 45-52	2015
Optimal Conditions for Synthesis of Tin Oxide Nanoparticles by Taguchi Design Method R Memarzadeh, S Javadpour, F Panahi New Materials, Volume:2 Issue:3, 2012, P 11	2012

Conferences	Year
14. Synthesis of a New Surfactant-like Triazine-functionalized Ligand for Carbon-Carbon and Carbon-Heteroatom Bond Formations 24thIranian Seminar of Organic Chemistry S. Rahimi, F. Panahi, N. Iranpoor 24-26 Aug. 2016 Azarbaijan Shahid Madani University	2016
13. Transition metal-catalyzed reductive and acceptorless dehydrogenative coupling reactions Invited Speaker. 18th Iranian Chemistry congress, Semnan University. August 30-September 1, 2015. 2014	2015
12. Pyrimidine-Fused Heterocycle Derivatives as Potent and Selective Antidiabetic α-Glucosidase Inhibitors (Presentation) The national conference on protein and peptide sciences: from basic to medical and industrial applications. 10-11 December, 2014, Shiraz University, Shiraz.	2014
11. M. H. Mehraban, Z. Moafiyan, F. Panahi, A. Khalafi-Nezhad, R. Yousefi Recent discovery of α-glucosidase inhibitors with pyrimidine scaffold The national conference on protein and peptide sciences: from basic to medical and industrial applications. 10-11 December, 2014, Shiraz University, Shiraz. DOI: 10.13140/2.1.3095.4565	2014
10. Magnetic nanoparticles-supported tungstosilicic acid: as an efficient and reusable magnetically separable solid acid for the synthesis of spiroindolones in water A. Ahalafi-Nezhad, M. Nourisefat, F. Panahi IRANIAN SEMINAR OF ORGANIC CHEMISTR IRANIAN CHEMICAL SOCIETY, BUALI SINA UNIVERSITY	2013
9. M. H. Mehraban, Z. Moafiyan, A. Taheri-Kafrani, F. Panahi, A. Khalafi-Nezhad, R. Yousefi β-Lactoglobulin; a new transport vehicle for anti-diabetic drugs The national conference on protein and peptide sciences: from basic to medical and industrial applications. 10-11 December, 2014, Shiraz University, Shiraz. DOI: 10.13140/2.1.5192.6086.	2014

8. A rapid and convenient procedure for the synthesis of benzoxazole and benzothiazole derivatives in presence of silica boron sulfuric acid nanoparticles (SBSAN) as a heterogeneous efficient catalyst H.O. Foroughi, F. Panahi 19th Iranian Seminar on Organic Chemistry, Vali-e-Asr University of Rafsanjan, 5-7 Sep. 2012.	2012
7. Aromatic substitution on the Pyrimidine-fused heterocycle molecules significantly enhances their inhibitory properties against alpha-glucosidase First International Conference on Biophysical Chemistry, June 13, 2012 – June 15, 2012, Ardabil University of Medical Sciences, Ardabil, Iran. DOI: 10.13140/2.1.4668.3208.	2012
6. Mammalian intestinal alpha glucosidase inihibitory activity of novel pyrimidine fused heterocycles First International Conference on Biophysical Chemistry, June 13, 2012 -June 15, 2012, Ardabil University of Medical Sciences, Ardabil, Iran. DOI: 10.13140/2.1.2833.3125	2012
5. Fabrication of a near infrared OLED using a new organic chromospheres M. T. Sharbati, F. Emami, A. Gharavi, F. Panahi INMIC 2009, IEEE 13th International Multitopic Conference , art. no. 5383102.	2009
4. Fabrication of a near infrared OLED M. T. Sharbati, F. Panahi, A. Gharavi, F. Emami, K. Niknam Conference Proceedings -Lasers and Electro-Optics Society Annual Meeting-LEOS 2009, art. no. 5343455, pp. 90-91.	2009
3. Silica-bonded S-sulfonic acid: as recyclable catalyst for the synthesis of 1,8dioxodecahydroacridines and 1,8-dioxo-octahydroxanthenes K. Niknam, F. Panahi, D. Saberi The 8th Lakeland Symposium on Heterocyclic Chemistry, Grasmere, cumbria, UK, 7th-11th May, 2009.	2009
2. Fabrivation and Electrical Characterization of Single-Layer Organic Light-Emitting Diodes (OLEDs) A. Gharavi, M.A. Baghban, M. T. Sharbati, F. Panahi, H. Karimi-Alavijeh 15th Iranian Conference on Optic and Photonics and 1th Iranian Conference on Photonics Enginering, University of Isfahan, 27-29 January 2009.	2009
1. Fabrication of Single-Layer Organic Light Emitting Diode Using NIR Organic Material M.T. Sharbati, F. Panahi, A. Gharavi, F. Emami, K.Niknam, 16th Iranian Conference on Optic and Photonics, University of Yazd, 2009.	2009