

Farhad Shirini

Personal CV

Personal data:

First name: Farhad

Family name: Shirini

Date and place of birth: 13/04/1965, Tehran

Nationality: Iranian

Sex: Male

Marital Status: Married

Postal address:

Department of Chemistry,

College of Science,

University of Guilan,

Rasht, Iran.

Email address: shirini@guilan.ac.ir

Phone: +98 131 3226643

Fax: +98 131 3220066

Education:

Ph.D., Organic Chemistry, Shiraz University, Shiraz, Iran (1991-1995)

Thesis title:

Part A: Synthesis of some stable derivatives of cyclobutadiene

Part B: New synthetic methodologies

a: Some application of WCl₆ in organic chemistry

b: Deprotection and oxidative deprotection of trimethylsilyl ethers

Supervisor: Professor Habib Firouzabadi

M.Sc., Organic Chemistry, Shiraz University, Shiraz, Iran (1988-1990)

Thesis title: Reactions of epoxides with one electron transfer agents

Supervisor: Professor Naser Iranpoor

B.Sc., Chemistry, Shiraz University, Shiraz-Iran (1983-1987)

Employment:

Professor of Organic Chemistry, Guilan University, Rasht, Iran

Memberships:

Editorial Board: International Journal of Chemical Sciences.

Awards:

1. *Distinguished researcher of Guilan Province, 2003.*

2. *Distinguished researcher of The University of Guilan, 2003.*
3. *Distinguished researcher of The University of Guilan, 2004.*
4. *Distinguished researcher of The University of Guilan, 2005.*
5. *Distinguished researcher of the College of Science of The University of Guilan, 2007.*
6. *Distinguished Professor of The University of Guilan, 2007.*
7. *One of the distinguished scientists in OIC countries, introduced by COMSTECH in :”Leading scientists and engineers of OIC member states”, Islamabad, Pakistan, 2008.*
<http://www.comstech.org>.
8. *Distinguished researcher of Guilan Province, 2008.*
9. *Distinguished researcher of Guilan Province, 2009.*
10. *Distinguished Professor of The University of Guilan, 2009.*
11. *Introduction as one of the one percent highly cited scientists of the world (ISI), 2009.*
12. *Distinguished Professor of The University of Guilan, 2010.*
13. *Distinguished Professor of The University of Guilan, 2011.*
14. *Candidate for Eni Award 2013.*
15. *Candidate for Pedler Award 2013.*

Research Interests:

1. Oxidation of organic compounds in solution and solvent free conditions with chromium(IV) and Ce(IV) based oxidants
2. Oxidation of organic compounds with polymer supported reagents
3. Synthesis and ring opening of three membered heterocyclic compounds
4. Synthesis of new derivatives of silica gel and investigation on their applications in organic chemistry.
5. Investigation in the application of hydrogen sulfates in organic reactions.

Master of Science students:

1. A. Akbar
2. F. Jalili
3. M. Azadbar
4. A. Pourhabib
5. B. Mallakpour
6. F. Parsa
7. M. Khaleghi
8. H. Karimi
9. S. Dezyani
10. K. Mohammadi
11. M. Abedini
12. A. Safari
13. Z. Hegazi
14. S. Torabi
15. E. Mollarazi
16. A. Rahmanzadeh
17. H. Abedini

18. H. Aghajanpour
19. M. Paktinat
20. A. Shahriari
21. S. Saeidi
22. M. Khademian
23. Z. Neyestani
24. M. Mahdavi pop-kiadeh
25. A. R. Mousazadeh Hassani
26. D. Imani
27. A. R. Sakhaei
28. P. Sadeghzadeh
29. M. Ghasemi
30. M. Safarpour-Langroudi
31. A. Pourvali
32. K. Mirhashemi-Jorshari
33. T. Mostashari
34. M. Alipour Khoshdel
35. M. Ghods
36. M. Akbari
37. M. Mashhadi Nejad
38. M. Naghdi
39. O. Goli Jolodar
40. M. Ghazi Jirdehi
41. S. Sarvi Beigbaghlou
42. M. Abroon
43. R. Poorhasan
44. P. Fazeli
45. A. Rahmaninia
46. S. Esmaeili

Ph. D. Students:

1. H. Taherpoor Nahzomi
2. A. R. Abri
3. M. Abedini
4. J. Albadi
5. V. Atghia
6. N. Ghaffari Khligh
7. S. Akbari
8. M. Seddighi
9. M. Mohseni
10. K. Mohammadi
11. L. Samavi
12. Z. Dalil Heyrati

Book Chapter:

A. Mohammad, Inamuddin, "Green Solvents II: Properties and applications of ionic liquids", Springer, Netherland, 2012. (Chapters 12 and 14).

Referee for National and International Journals:

- a. Journal of Organic Chemistry
- b. Synthesis
- c. Letters in Organic Chemistry
- d. Current Organic Chemistry
- e. Sulfur Chemistry
- f. Arkivoc
- g. Synthetic Communications
- h. Journal of The Chemical Research
- i. Chinese Chemical Letters
- j. Bulletin of the Korean Chemical Society
- k. Dyes and Pigments
- l. Journal of Molecular Catalysis A: Chem.
- m. Ctalysis Communications
- n. Phosphorus, Sulfur, Silicon
- o. Journal of Heterocyclic Chemistry
- p. Journal of the Iranian Chemical Society

Publications:

A: From M. Sc. Thesis:

1. Cerric ammonium nitrate, as an efficient catalyst ffor mild and selective opening of epoxides in the presence of water, thiols and acetic acid.

N. Iranpoor, I. M. Baltork, F. Shirini; Tetrahedron, 1991, 47, 9861.

2. Tris[trinitrato Ce(IV)]paraperiodate, as an efficient heterogeneous catalyst for alcoholysis, acetolysis and hydrolysis of epoxides.

N. Iranpoor, F. Shirini; Synth. Commun., 1994, 24, 1959.

3. Coupling of thiols and selenols catalyzed by tris[trinitrato cerium(IV)]paraperiodate.

N. Iranpoor, P. Salehi, F. Shirini; J. Org. Prep. and Procedure Int., 1995, 27, 216.

B: From Ph. D. Thesis:

4. Deprotection and direct oxidative deprotection of trimethylsilyl ethers to corresponding alcohols and carbonyl compounds with $[(\text{NO}_3)_3 \text{Ce}]_3 \cdot \text{H}_2\text{IO}_6$ in an aprotic solvent.

H. Firouzabadi, F. Shirini; Synth. Commun., 1996, 26, 423.

5. $[(\text{NO}_3)_3\text{Ce}]_2\text{CrO}_4$ vs $[(\text{NO}_3)_3\text{Ce}]\text{CrO}_4 \cdot 2\text{H}_2\text{O}$ in the oxidation of trimethylsilyl ethers.

H. Firouzabadi, F. Shirini; Synth. Commun., 1996, 26, 649.

6. New applications of tungsten hexachloride (WCl_6) in organic synthesis. Halo-dehydroxylation and dihalo-de-oxo-bisubstitution reactions.

H. Firouzabadi, F. Shirini; Tetrahedron, 1996, 52, 14929.

C: From Research Group Studies:

1. Zolfigol, M.A., Shirini, F., Choghamarani, A.G., Taqian-Nasab, A., Keypour, H., Salehzadeh, S.

Chemosselective N-nitrosation of secondary amines under mild and heterogeneous conditions via in situ generation of NOCl

(2000) Journal of Chemical Research - Part S, (9), pp. 420-422. Cited 3 times.

Document Type: Article

Source: Scopus

2. Shirini, F., Tajik, H., Aliakbar, A., Akbar, A.

Oxidation of benzyl alcohols and acylloins with $(\text{NO}_3)_3\text{CeBrO}_3$

(2001) Synthetic Communications, 31 (5), pp. 767-770. Cited 16 times.

Document Type: Article

Source: Scopus

3. Zolfigol, M.A., Chehardoli, G., Shirini, F., Mallakpour, S.E., Nasr-Isfahani, H.

Oxidation of urazoles to their corresponding triazolinediones under mild and heterogeneous conditions via in situ generation of $\text{NO} + \text{IO}_x$ -

(2001) Synthetic Communications, 31 (13), pp. 1965-1970. Cited 14 times.

Document Type: Article

Source: Scopus

4. Shirini, F., Azadbar, M.R.

$[(\text{NO}_3)_3\text{Ce}]\text{H}_2\text{IO}_6$: As a versatile and efficient reagent for cleavage of carbon-nitrogen double bonds under heterogeneous and non-aqueous conditions

(2001) Synthetic Communications, 31 (24), pp. 3775-3779. Cited 11 times.

Document Type: Article
Source: Scopus

5. Shirini, F., Tajik, H., Jalili, F.
Polymer supported reagents: Oxidative selection between benzylic alcohols
(2001) Synthetic Communications, 31 (19), pp. 2885-2889. Cited 16 times.

Document Type: Article
Source: Scopus

6. Zolfigol, M.A., Choghamarani, A.G., Shirini, F., Keypour, H., Salehzadeh, S.
Chemoselective N-nitrosation of secondary amines under mild and heterogeneous conditions
(2001) Synthetic Communications, 31 (3), pp. 359-365. Cited 18 times.

Document Type: Article
Source: Scopus

7. Shirini, F., Zolfigol, M.A., Lakouraj, M.M., Azadbar, M.R.
Efficient oxidation of sulfides to sulfoxides and of thiols to disulfides with Aqueous HIO₃
(2001) Russian Journal of Organic Chemistry, 37 (9), pp. 1340-1341. Cited 23 times.

Document Type: Article
Source: Scopus

8. Shirini, F., Zolfigol, M.A., Azadbar, M.R.
Oxidation of benzyl alcohols under mild heterogeneous conditions
(2001) Russian Journal of Organic Chemistry, 37 (11), pp. 1600-1602. Cited 5 times.

Document Type: Article
Source: Scopus

9. Shirini, F., Pourhabib, A., Azadbar, M.R.
Oxidation of benzylic alcohols by tris[trinitrate Ce(IV)] paraperiodate in solvent free

condition

(2001) Asian Journal of Chemistry, 13 (4), pp. 1637-1639.

Document Type: Article

Source: Scopus

10. Shirini, F., Ali Zolfigol, M., Pourhabib, A.

ZrCl₄/wet SiO₂ promoted oxidation of alcohols by (NH₄)₂[Cr₂O₇] in solution and solvent free condition

(2001) Journal of Chemical Research - Part S, (11), pp. 476-477. Cited 2 times.

Document Type: Article

Source: Scopus

11. Zolfigol, M.A., Shirini, F., Ghorbani Choghamarani, A., Shiri, A., Keypour, H., Salehzadeh, S.

Chemoselective N-nitrosation of secondary amines under mild and heterogeneous conditions with ZrCl₄/NaNO₂

(2001) Asian Journal of Chemistry, 13 (3), pp. 849-853. Cited 7 times.

Document Type: Article

Source: Scopus

12. Shirini, F., Zolfigol, M.A., Mallakpour, B., Mallakpour, S.E., Hajipour, A.R.

Oxidation of Alcohols by (NH₄)₂Cr₂O₇ in Solution and under Solvent-Free Conditions

(2001) Australian Journal of Chemistry, 54 (6), pp. 405-406. Cited 18 times.

Document Type: Article

Source: Scopus

13. Shirini, F., Zolfigol, M.A., Azadbar, M.R.

Efficient solvent free deoximation and dehydrazonation with HIO₃ in the presence of wet SiO₂

(2002) Synthetic Communications, 32 (3), pp. 315-318. Cited 18 times.

Document Type: Article

Source: Scopus

14. Shirini, F., Zolfigol, M.A., Pourhabib, A.
Efficient cleavage of carbon-nitrogen double bonds under solvent free conditions
(2002) Synthetic Communications, 32 (18), pp. 2837-2841. Cited 6 times.

Document Type: Article
Source: Scopus

15. Zolfigol, M.A., Shirini, F., Ghorbani Choghamarani, A.
Silica chloride/NaNO₂ as a novel heterogeneous system for the nitrosation of secondary amines under mild conditions
(2002) Synthetic Communications, 32 (12), pp. 1809-1813. Cited 26 times.

Document Type: Article
Source: Scopus

16. Dezhampannah, H., Shirini, F.
Redox polymerization of acrylonitrile initiated by the system tris trinitratocerium(IV) paraperiodate-propane-1,2-diol
(2002) Asian Journal of Chemistry, 14 (2), pp. 1111-1113.

Document Type: Article
Source: Scopus

17. Shirini, F., Zolfigol, M.A., Mallakpour, B., Mallakpour, S.E., Hajipour, A.R., Baltork, I.M.
A mild and efficient method for cleavage of C=N using Mg(HSO₄)₂ in the presence of wet SiO₂
(2002) Tetrahedron Letters, 43 (8), pp. 1555-1556. Cited 75 times.

Document Type: Article
Source: Scopus

18. Shirini, F., Mamaghani, M., Parsa, F., Mohammadpoor-Baltork, I.
Efficient cleavage of C=N under heterogeneous and non-aqueous conditions
(2002) Bulletin of the Korean Chemical Society, 23 (11), pp. 1683-1684. Cited 10 times.

Document Type: Article
Source: Scopus

19. Zolfigol, M.A., Shirini, F., Choghamarani, A.G., Mohammadpour-Baltork, I.
Silica modified sulfuric acid/ NaNO_2 as a novel heterogeneous system for the oxidation of 1,4-dihydropyridines under mild conditions
(2002) *Green Chemistry*, 4 (6), pp. 562-564. Cited 110 times.

Document Type: Article
Source: Scopus

20. Mamaghani, M., Shirini, F., Parsa, F.
Prolinium chlorochromate as a new mild and efficient oxidant for alcohols
(2002) *Russian Journal of Organic Chemistry*, 38 (8), pp. 1113-1115. Cited 9 times.

Document Type: Article
Source: Scopus

21. Tajik, H., Shirini, F., Farahkah, O.R., Lakouraj, M.M., Baltork, I.M.
Coupling of thiols catalyzed by trinitratoceric(IV) bromate
(2002) *Russian Journal of Organic Chemistry*, 38 (9), pp. 1384-1385. Cited 4 times.

Document Type: Article
Source: Scopus

22. Shirini, F., Zolfigol, M.A., Khaleghi, M., Mohammadpour-Baltork, I.
Silica chloride/wet SiO_2 as a novel heterogeneous system for deprotection of oximes, hydrazones, and semicarbazones
(2003) *Synthetic Communications*, 33 (11), pp. 1839-1844. Cited 17 times.

Document Type: Article
Source: Scopus

23. Shirini, F., Zolfigol, M.A., Mallakpour, B., Mohammadpour-Baltork, I., Mallakpour, S.E., Hajipour, A.R.
Solvent free oxidation of thiols by $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ in the presence of $\text{Mg}(\text{HSO}_4)_2$ and wet

SiO₂

(2003) Journal of Chemical Research - Part S, (1), pp. 28-29. Cited 1 time.

Document Type: Article

Source: Scopus

24. Shirini, F., Lakouraj, M.M., Mohammadpour-Baltork, I., Asadi, D.

Polymer supported reagents: Oxidative selection between thiols

(2003) Synthetic Communications, 33 (11), pp. 1833-1837. Cited 3 times.

Document Type: Article

Source: Scopus

25. Zeynizadeh, B., Shirini, F.

Mild and efficient reduction of α,β -unsaturated carbonyl compounds, α -diketones and acylloins with sodium borohydride/Dowex 1-x8 system

(2003) Bulletin of the Korean Chemical Society, 24 (3), pp. 295-298. Cited 15 times.

Document Type: Article

Source: Scopus

26. Shirini, F., Mohammadpour-Baltork, I., Hejazi, Z., Heravi, P.

Caffeinilium chlorochromate: As a mild and efficient reagent for oxidation of alcohols and chemoselective oxidative cleavage of oximes

(2003) Bulletin of the Korean Chemical Society, 24 (4), pp. 517-518. Cited 23 times.

Document Type: Article

Source: Scopus

27. Shirini, F., Zolfigol, M.A., Mohammadi, K.

Acetyl-tethering silica as a novel reagent for acetylation of alcohols under mild and heterogeneous conditions

(2003) Bulletin of the Korean Chemical Society, 24 (4), pp. 519-520. Cited 5 times.

Document Type: Article

Source: Scopus

28. Zeynizadeh, B., Shirini, F.
Mild and efficient method for reduction of aldehydes and ketones with NaBH₄ in the presence of Dowex 1-x8
(2003) Journal of Chemical Research - Part S, (6), pp. 335-339. Cited 1 time.

Document Type: Article
Source: Scopus

29. Shirini, F., Zolfigol, M.A., Mohammadi, K.
Acetylation and formylation of alcohols in the presence of silica sulfuric acid
(2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (7), pp. 1617-1621.
Cited 9 times.

Document Type: Article
Source: Scopus

30 Shirini, F., Zolfigol, M.A., Mohammadi, K.
A mild and efficient method for chemoselective silylation of alcohols using hexamethyldisilazane in the presence of silica chloride
(2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (7), pp. 1567-1570.
Cited 35 times.

Document Type: Article
Source: Scopus

31. Zolfigol, M.A., Shirini, F., Choghamarani, A.G., Ghofrani, E.
Silica chloride/NaNO₂ as a novel heterogeneous system for production of thionitrites and disulfides under mild conditions
(2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (7), pp. 1477-1481.
Cited 9 times.

Document Type: Article
Source: Scopus

32. Shirini, F., Zolfigol, M.A., Khaleghi, M.
Oxidation of Alcohols Using (NH₄)₂Cr₂O₇ in the Presence of Silica Chloride/Wet SiO₂ in Solution and under Solvent Free Conditions

(2003) Bulletin of the Korean Chemical Society, 24 (7), pp. 1021-1022. Cited 17 times.

Document Type: Article

Source: Scopus

33. Zolfigol, M.A., Shirini, F., Ghorbani Choghamarani, A., Mohammadpoor-Baltork, I. Silica chloride/ NaNO_2 as a novel heterogeneous system for the oxidation of 1,4-dihydropyridines under mild conditions via in situ generation of NOCl (2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (8), pp. 1709-1715. Cited 20 times.

Document Type: Article

Source: Scopus

34. Shirini, F., Ali Zolfigol, M., Pourhabib, A. Chemoselective solvent-free deoximation by $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ in the presence of ZrCl_4 on wet SiO_2 (2003) Russian Journal of Organic Chemistry, 39 (8), pp. 1191-1192. Cited 4 times.

Document Type: Article

Source: Scopus

35. Shirini, F., Zolfigol, M.A., Khaleghi, M. Silica chloride as a mild and efficient reagent for acetylation of alcohols (2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (9), pp. 1999-2002. Cited 3 times.

Document Type: Article

Source: Scopus

36. Zolfigol, M.A., Shirini, F., Chogamarani, A.G. Silica chloride/ NaNO_2 as a novel heterogeneous system for the nitration of phenols under mild conditions (2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (9), pp. 2019-2025. Cited 8 times.

Document Type: Article

Source: Scopus

37. Shirini, F., Zolfigol, M.A., Safari, A., Mohammadpoor-Baltork, I., Mirjalili, B.F.
Regeneration of carbonyl compounds by cleavage of C=N bonds under mild and
completely heterogeneous conditions
(2003) Tetrahedron Letters, 44 (40), pp. 7463-7465. Cited 37 times.

Document Type: Article
Source: Scopus

38. Shirini, F., Zolfigol, M.A., Khaleghi, M.
Efficient oxidation of alcohols with KBrO₃ in the presence of silica chloride and wet
SiO₂
(2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (10), pp. 2107-
2110. Cited 13 times.

Document Type: Article
Source: Scopus

39. Shirini, F., Zolfigol, M.A., Mohammadi, K.
Silica sulfuric acid as an efficient reagent for the synthesis of symmetrical ethers under
mild and heterogeneous conditions
(2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (11), pp. 2357-
2361. Cited 6 times.

Document Type: Article
Source: Scopus

40. Shirini, F., Zolfigol, M.A., Abedini, M., Salehi, P.
Oxidation of alcohols using (NH₄)₂Cr₂O₄ in the presence of Al(HSO₄)₃ and wet SiO₂
(2003) Mendeleev Communications, 13 (6), pp. 265-267. Cited 17 times.

Document Type: Article
Source: Scopus

41. Shirini, F., Zolfigol, M.A., Abedini, M., Salehi, P.
Al(HSO₄)₃ Catalyzed Acetylation and Formylation of Alcohols

(2003) Bulletin of the Korean Chemical Society, 24 (11), pp. 1683-1685. Cited 21 times.

Document Type: Article

Source: Scopus

42. Zolfigol, M.A., Poor-Baltork, I.M., Mirjalili, B.F., Shirini, F., Salehzadeh, S., Keypour, H., Ghorbani-Choghamarani, A., Zebarjadian, M.H., Mohammadi, K., Hazar, A.

Silica sulfuric acid/wet SiO₂ as a novel heterogeneous system for cleavage of carbon nitrogen double bonds under mild conditions

(2003) Phosphorus, Sulfur and Silicon and the Related Elements, 178 (12), pp. 2735-2743. Cited 5 times.

Document Type: Article

Source: Scopus

43. Shirini, F., Zolfigol, M.A., Khaleghi, M.

Oxidative coupling of thiols in solution and under solvent-free conditions

(2004) Mendeleev Communications, 14 (1), pp. 34-35. Cited 6 times.

Document Type: Article

Source: Scopus

44. Shirini, F., Zolfigol, M.A., Mohammadi, K.

Silica Sulfuric Acid as a Mild and Efficient Reagent for the Acetylation of Alcohols in Solution and under Solvent Free Conditions

(2004) Bulletin of the Korean Chemical Society, 25 (2), pp. 325-327. Cited 42 times.

Document Type: Article

Source: Scopus

45. Shirini, F., Zolfigol, M.A., Abedini, M.

Al(HSO₄)₃ as an efficient catalyst for the acetylation of alcohols in solution and under solvent free conditions

(2004) Monatshefte fur Chemie, 135 (3), pp. 279-282. Cited 27 times.

Document Type: Article

Source: Scopus

46. Tajbakhsh, M., Lakouraj, M.M., Shirini, F., Habibzadeh, S., Nikdoost, A.
Zirconium borohydride piperazine complex, an efficient, air and thermally stable
reducing agent
(2004) Tetrahedron Letters, 45 (16), pp. 3295-3299. Cited 5 times.

Document Type: Article
Source: Scopus

47. Zolfigol, M.A., Shirini, F., Zamani, K., Ghofrani, E., Ebrahimi, S.
Silica phosphoric acid/NaNO₂ as a novel heterogeneous system for the coupling of thiols
to their corresponding disulfides
(2004) Phosphorus, Sulfur and Silicon and the Related Elements, 179 (11), pp. 2177-
2182. Cited 26 times.

Document Type: Article
Source: Scopus

48. Shirini, F., Zolfigol, M.A., Safari, A.
A mild and efficient method for the acetylation of alcohols
(2005) Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry, 44 (1),
pp. 201-203. Cited 8 times.

Document Type: Article
Source: Scopus

49. Shirini, F., Dabiri, M., Dezyani, S., Jalili, F.
Polymer-supported reagents. Mild and efficient method of oxidation of alcohols
(2005) Russian Journal of Organic Chemistry, 41 (3), pp. 390-392. Cited 3 times.

Document Type: Article
Source: Scopus

50. Shirini, F., Zolfigol, M.A., Mallakpour, B.
Mild and efficient procedure for acetylation and formylation of alcohols in the presence
of Mg(HSO₄)₂

(2005) Russian Journal of Organic Chemistry, 41 (4), pp. 625-626. Cited 10 times.

Document Type: Article

Source: Scopus

51. Lakouraj, M.M., Tajbakhsh, M., Shirini, F., Tamami, M.V.A.
HIO₃ in the presence of wet SiO₂: A mild and efficient reagent for selective oxidation of sulfides to sulfoxides under solvent-free conditions
(2005) Synthetic Communications, 35 (6), pp. 775-784. Cited 24 times.

Document Type: Article

Source: Scopus

52. Zolfigol, M.A., Shirini, F., Mohammadpoor-Baltork, I., Choghamarani, A.Gh., Hajjami, M., Sedaghat, A.M.
Silica chromate as an oxidising agent for the chemoselective oxidation of alcohols and the oxidative deprotection of trimethylsilyl ethers
(2005) Mendeleev Communications, (3), pp. 113-116. Cited 20 times.

Document Type: Article

Source: Scopus

53. Shirini, F., Zolfigol, M.A., Mollarazi, E.
KBrO₃/ZrClO₂ · 8H₂O: An efficient reagent system for the oxidation of alcohols
(2005) Synthetic Communications, 35 (11), pp. 1541-1545. Cited 10 times.

Document Type: Article

Source: Scopus

54. Tajik, H., Shirini, F., Hassan-Zadeh, P., Rashtabadi, H.R.
Bromination of aromatic compounds with potassium bromide in the presence of poly(4-vinylpyridine)-supported bromate in nonaqueous solution
(2005) Synthetic Communications, 35 (14), pp. 1947-1952. Cited 7 times.

Document Type: Article

Source: Scopus

55. Shirini, F., Zolfigol, M.A., Torabi, S.
Chromium trioxide supported on NaHSO₄.H₂O: Simple oxidation of alcohols in solution and solvent free conditions
(2005) Letters in Organic Chemistry, 2 (6), pp. 544-546. Cited 13 times.

Document Type: Review
Source: Scopus

56. Shirini, F., Zolfigol, M.A., Abedini, M.
Al(HSO₄)₃ as an efficient reagent for the selective trimethylsilylation of primary alcohols under solvent-free conditions
(2005) Phosphorus, Sulfur and Silicon and the Related Elements, 180 (10), pp. 2299-2302. Cited 8 times.

Document Type: Article
Source: Scopus

57. Lakouraj, M.M., Tajbakhsh, M., Shirini, F., Asady Tamami, M.V.
Chemoselective deprotection of thioacetals/thioketals using HIO₃ in the presence of wet SiO₂ under mild solvent-free conditions
(2005) Phosphorus, Sulfur and Silicon and the Related Elements, 180 (11), pp. 2423-2429. Cited 3 times.

Document Type: Article
Source: Scopus

58. Shirini, F., Zolfigol, M.A., Safari, A.
CaCl₂.2H₂O assisted oxidation of alcohols with (NH₄)₂Cr₂O₇
(2005) Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry, 44 (11), pp. 2383-2386. Cited 2 times.

Document Type: Article
Source: Scopus

59. Shirini, F., Zolfigol, M.A., Mohammadpoor-Baltork, I., Abedidni, M.
Selective oxidative deprotection of trimethylsilyl ethers in solution and under a solvent free condition

(2005) Bulletin of the Korean Chemical Society, 26 (11), pp. 1833-1835. Cited 5 times.

Document Type: Article

Source: Scopus

60. Shirini, F., Zolfigol, M.A., Mollarazi, E.
Solvent-free synthesis of 3,4-dihydropyrimidin-2(1H)-ones using trichloroisocyanuric acid

(2005) Letters in Organic Chemistry, 2 (8), pp. 718-720. Cited 6 times.

Document Type: Review

Source: Scopus

61. Shirini, F., Zolfigol, M.A., Torabi, S.
Chromium trioxide supported on NaHSO₄.H₂O: Efficient oxidative deprotection of trimethylsilyl ethers in solution and under solvent free conditions

(2005) Letters in Organic Chemistry, 2 (8), pp. 760-762. Cited 8 times.

Document Type: Review

Source: Scopus

62. Shirini, F., Zolfigol, M.A., Abedini, M.
Silylation and tetrahydropyranylation of alcohols catalyzed by Al(HSO₄)₃

(2005) Bulletin of the Chemical Society of Japan, 78 (11), pp. 1982-1985. Cited 31 times.

Document Type: Article

Source: Scopus

63. Shirini, F., Esm-Hosseini, M., Hejazi, Z.
(NO₃)₃CeBrO₃: Solvent-free oxidation of alcohols and deprotection and oxidative deprotection of trimethylsilyl ethers

(2005) Synthetic Communications, 35 (22), pp. 2913-2919. Cited 7 times.

Document Type: Article

Source: Scopus

64. Shirini, F., Esm-Hosseini, M., Hejazi, Z., Mohammadpoor-Baltork, I.
[Ce(NO₃)₃]₃-H₂IO₆: Efficient oxidation reactions under solvent-free conditions
(2006) Journal of Chemical Research, (1), pp. 29-31.

Document Type: Article
Source: Scopus

65. Tajik, H., Shirini, F., Zolfigol, M.A., Samimi, F.
Convenient and efficient method for the iodination of benzylic and aliphatic alcohols by
using Al(HSO₄)₃/KI in nonaqueous solution
(2006) Synthetic Communications, 36 (1), pp. 91-95. Cited 6 times.

Document Type: Article
Source: Scopus

66. Shirini, F., Zolfigol, M.A., Safari, A.
Efficient acetylation and formylation of alcohols in the presence of Zr(HSO₄)₄
(2006) Journal of Chemical Research, (3), pp. 154-156. Cited 9 times.

Document Type: Article
Source: Scopus

67. Zolfigol, M.A., Bagherzadeh, M., Niknam, K., Shirini, F., Mohammadpoor-Baltork,
I., Ghorbani Choghamarani, A., Baghbanzadeh, M.
Oxidation of 1,4-dihydropyridines under mild and heterogeneous conditions using solid
acids
(2006) Journal of the Iranian Chemical Society, 3 (1), pp. 73-80. Cited 55 times.

Document Type: Article
Source: Scopus

68. Shirini, F., Mollarazi, E.
Trimethylsilylation of alcohols and phenols using KBr as an efficient and reusable
catalyst
(2006) Synthetic Communications, 36 (8), pp. 1109-1115. Cited 12 times.

Document Type: Article
Source: Scopus

69. Shirini, F., Zolfigol, M.A., Abri, A.-R.
KBrO₃ in the presence of Fe(HSO₄)₃/wet SiO₂: Efficient oxidation of alcohols and trimethylsilyl and tetrahydropyranyl ethers
(2006) Letters in Organic Chemistry, 3 (4), pp. 292-296. Cited 7 times.

Document Type: Article
Source: Scopus

70. Zolfigol, M.A., Shirini, F., Choghamarani, A.G.
Trichloroisocyanuric acid/KBr as a catalytic system for the chemoselective oxidation of benzylic and secondary alcohols
(2006) Synthesis, (12), pp. 2043-2046. Cited 26 times.

Document Type: Article
Source: Scopus

71. Shirini, F., Zolfigol, M.A., Mollarazi, E.
ZrOCl₂·8H₂O as an efficient reagent for the solvent-free synthesis of 3,4-dihydropyrimidin-2-(1H)-ones
(2006) Synthetic Communications, 36 (16), pp. 2307-2310. Cited 11 times.

Document Type: Article
Source: Scopus

72. Shirini, F., Ali Zolfigol, M., Torabi, S.
NaBrO₃/NaHSO₄·H₂O as a versatile reagent system for the oxidation of benzylic alcohols and aldehydes
(2006) Synthetic Communications, 36 (19), pp. 2833-2840. Cited 4 times.

Document Type: Article
Source: Scopus

73. Salehi, P., Zolfigol, M.A., Shirini, F., Baghbanzadeh, M.
Silica sulfuric acid and silica chloride as efficient reagents for organic reactions
(2006) Current Organic Chemistry, 10 (17), pp. 2171-2189. Cited 108 times.

Document Type: Review
Source: Scopus

74. Shirini, F., Zolfigol, M.A., Paktinat, M.
Efficient trimethylsilylation and tetrahydropyranylation of alcohols in the presence of
1,3-dibromo-5,5-dimethylhydantoin
(2006) *Synthesis*, (24), pp. 4252-4256. Cited 12 times.

Document Type: Article
Source: Scopus

75. Shirini, F., Mamaghani, M., Rahmanzadeh, A.
Efficient oxidative cleavage of C=N using chromium trioxide supported on NaHSO₄
.H₂O
(2007) *Arkivoc*, 2007 (1), pp. 34-39. Cited 5 times.

Document Type: Article
Source: Scopus

76. Shirini, F., Marjani, K., Nahzomi, H.T.
Silica triflate as an efficient catalyst for the solvent-free synthesis of 3,4-
dihydropyrimidin-2(1H)-ones
(2007) *Arkivoc*, 2007 (1), pp. 51-57. Cited 17 times.

Document Type: Article
Source: Scopus

77. Habibi, D., Zolfigol, M.A., Shirini, F., Safaiee, M., Abedini, M., Rahmani, P.
Oxidation of alcohols by ferric nitrate in the presence of barium chloride or silica
sulphuric acid under mild heterogeneous conditions
(2007) *South African Journal of Chemistry*, 60, pp. 17-19. Cited 2 times.

Document Type: Article
Source: Scopus

78. Zolfigol, M.A., Shirini, F., Chehardoli, G., Kolvari, E.
A catalytic and transition metal-free method for the chemoselective oxidation of alcohols to their corresponding carbonyl compounds using periodic acid or iodic acid in the presence of a catalytic amount of KBr
(2007) *Journal of Molecular Catalysis A: Chemical*, 265 (1-2), pp. 272-275. Cited 24 times.

Document Type: Article
Source: Scopus

79. Shirini, F., Marjani, K., Nahzomi, H.T., Zolfigol, M.A.
Silica triflate as an efficient reagent for the chemoselective formylation of alcohols
(2007) *Phosphorus, Sulfur and Silicon and the Related Elements*, 182 (6), pp. 1245-1251. Cited 10 times.

Document Type: Article
Source: Scopus

80. Kolvari, E., Ghorbani-Choghamarani, A., Salehi, P., Shirini, F., Zolfigol, M.A.
Application of N-halo reagents in organic synthesis
(2007) *Journal of the Iranian Chemical Society*, 4 (2), pp. 126-174. Cited 83 times.

Document Type: Review
Source: Scopus

81. Shirini, F., Zolfigol, M.A., Abri, A.-R.
Regioselective tetrahydropyranlation of alcohols catalyzed by $\text{Fe}(\text{HSO}_4)_3$
(2007) *Chinese Chemical Letters*, 18 (7), pp. 803-806. Cited 5 times.

Document Type: Article
Source: Scopus

82. Shirini, F., Marjani, K., Nahzomi, H.T., Zolfigol, M.A.
Silica triflate as an efficient reagent for the solvent-free synthesis of coumarins
(2007) *Chinese Chemical Letters*, 18 (8), pp. 909-911. Cited 2 times.

Document Type: Article
Source: Scopus

83. Shirini, F., Marjani, K., Nahzomi, H.T.
Silica triflate as a new, mild and efficient catalyst for tetrahydropyranylation of alcohols and deprotection of tetrahydropyranyl ethers
(2007) Phosphorus, Sulfur and Silicon and the Related Elements, 182 (9), pp. 2235-2240.
Cited 1 time.

Document Type: Article
Source: Scopus

84. Shirini, F., Mollarazi, E.
Efficient trimethylsilylation of alcohols and phenols in the presence of $ZrCl_4$ as a reusable catalyst
(2007) Catalysis Communications, 8 (9), pp. 1393-1396. Cited 33 times.

Document Type: Article
Source: Scopus

85. Shirini, F., Zolfigol, M.A., Abri, A.-R.
 $Fe(NO_3)_3 \cdot 9H_2O/Fe(HSO_4)_3$: An efficient reagent system for the oxidation of alcohols, thiols and sulfides in the absence of solvent
(2008) Chinese Chemical Letters, 19 (1), pp. 51-54. Cited 8 times.

Document Type: Article
Source: Scopus

86. Shirini, F., Marjani, K., Nahzomi, H.T., Zolfigol, M.A.
Silica triflate as a new, efficient, and reusable reagent for the chemoselective silylation of alcohols and phenols and deprotection of silyl ethers
(2008) Phosphorus, Sulfur and Silicon and the Related Elements, 183 (1), pp. 168-177.
Cited 7 times.

Document Type: Article
Source: Scopus

87. Shirini, F., Zolfigol, M.A., Abri, A.-R.

Fe(HSO₄)₃ promoted trimethylsilylation of alcohols and phenols in solution and under solvent-free conditions
(2008) Monatshefte für Chemie, 139 (1), pp. 17-20. Cited 21 times.

Document Type: Article
Source: Scopus

88. Shirini, F., Zolfigol, M.A., Abri, A.-R.
Fe(NO₃)₃.9H₂O/Fe(HSO₄)₃: An efficient reagent system for the oxidative deprotection of trimethylsilyl and tetrahydropyranyl ethers in the absence of solvent
(2008) Arkivoc, 2008 (2), pp. 14-18. Cited 3 times.

Document Type: Article
Source: Scopus

89. Shirini, F., Zolfigol, M.A., Salehi, P., Abedini, M.
Applications of some metal hydrogen sulfates in organic transformations
(2008) Current Organic Chemistry, 12 (3), pp. 183-202. Cited 41 times.

Document Type: Review
Source: Scopus

90. Shirini, F., Zolfigol, M.A., Abri, A.-R.
Fe(HSO₄)₃ as an efficient catalyst for the preparation of 3,4-dihydropyrimidin-2(1H)-ones in solution and under solvent-free conditions
(2008) Journal of the Iranian Chemical Society, 5 (1), pp. 96-99. Cited 20 times.

Document Type: Article
Source: Scopus

91. Shirini, F., Saeidi, S.
Efficient oxidative deprotection of trimethylsilyl, tetrahydropyranyl and methoxymethyl ethers under solvent-free conditions
(2008) Chinese Chemical Letters, 19 (6), pp. 676-680. Cited 1 time.

Document Type: Article
Source: Scopus

92. Shirini, F., Zolfigol, M.A., Abedini, M.
KBr catalyzed oxidation of alcohols and trimethylsilyl and tetrahydropyranyl ethers with Fe(NO₃)₃. 9H₂O
(2008) Scientia Iranica, 15 (4), pp. 440-443. Cited 1 time.

Document Type: Article
Source: Scopus

93. Shirini, F., Yazdanbakhsh, M.R., Pop-Kiadeh, M.M., Abedini, M.
K₂S₂O₈/MoO₃: An oxidation reagent for benzylic alcohols and trimethylsilyl and tetrahydropyranyl ethers
(2008) Journal of Chemical Research, (7), pp. 409-411.

Document Type: Article
Source: Scopus

94. Shirini, F., Khademian, M., Abedini, M.
NaHSO₄.H₂O promoted oxidative deprotection of trimethylsilyl, tetrahydropyranyl and methoxymethyl ethers with HIO₃
(2008) Arkivoc, 2008 (15), pp. 71-78. Cited 1 time.

Document Type: Article
Source: Scopus

95. Shirini, F., Zolfigol, M.A., Shahriari, A.
Solvent-free oxidation of organic compounds with Fe(NO₃)₃.9H₂O catalyzed by NaHSO₄.H₂O
(2008) Journal of the Iranian Chemical Society, 5 (3), pp. 420-424. Cited 4 times.

Document Type: Article
Source: Scopus

96. Zolfigol, M.A., Chehardoli, G., Dehghanian, M., Niknam, K., Shirini, F., Khoramabadi-Zad, A.
Silica sulfuric acid and Al(HSO₄)₃: As efficient catalysts for the formylation of alcohols by using ethyl formate under heterogeneous conditions

(2008) Journal of the Chinese Chemical Society, 55 (4), pp. 885-889. Cited 20 times.

Document Type: Article

Source: Scopus

97. Shirini, F., Abedini, M.

Tetrabutylammonium bromide promoted efficient and chemoselective trimethylsilylation of primary and secondary alcohols under mild reaction conditions

(2008) Journal of the Iranian Chemical Society, 5 (SUPPL.1), pp. S87-S90. Cited 16 times.

Document Type: Article

Source: Scopus

98. Shirini, F., Zolfigol, M.A., Abedini, M., Sakhaei, A.R.

Vanadium hydrogen sulfate (I): Chemoselective trimethylsilylation of alcohols and deprotection of trimethylsilyl ethers

(2008) Journal of the Chinese Chemical Society, 55 (5), pp. 943-946. Cited 5 times.

Document Type: Article

Source: Scopus

99. Shirini, F., Zolfigol, M.A., Abedini, M.

Chemoselective trimethylsilylation of alcohols catalyzed by saccharin sulfonic acid

(2009) Monatshefte fur Chemie, 140 (1), pp. 61-64. Cited 13 times.

Document Type: Article

Source: Scopus

100. Shirini, F., Sakhaei, A.R., Abedini, M.

V(HSO₄)₃ catalyzed chemoselectivity acetylation of alcohols and phenols in solution and under solvent-free conditions

(2009) Chinese Chemical Letters, 20 (4), pp. 439-443. Cited 4 times.

Document Type: Article

Source: Scopus

101. Shirini, F., Neyestani, Z., Abedini, M.
KBrO₃/MoO₃: An efficient reagent system for the oxidative deprotection of semicarbazones, 1,1-diacetates and acetals
(2009) Chinese Chemical Letters, 20 (5), pp. 514-518. Cited 2 times.

Document Type: Article
Source: Scopus

102. Shirini, F., Abedini, M., Ghasemi, M., Sakhaei, A.R.
An efficient and chemoselective method for synthesis of 1,3-oxathiolanes from aldehydes and their deprotection catalyzed by V(HSO₄)₃
(2009) Bulletin of the Korean Chemical Society, 30 (10), pp. 2479-2480. Cited 4 times.

Document Type: Article
Source: Scopus

103. Shirini, F., Zolfigol, M.A., Abedini, M.
Saccharinsulfonic acid: An efficient and recyclable catalyst for acetylation of alcohols, phenols, and amines
(2009) Monatshefte fur Chemie, 140 (12), pp. 1495-1498. Cited 2 times.

Document Type: Article
Source: Scopus

104. Shirini, F., Sadeghzadeh, P., Abedini, M.
Silica sulfuric acid: A versatile reagent for oxathioacetalization of carbonyl compounds and deprotection of 1,3-oxathiolanes
(2009) Chinese Chemical Letters, 20 (12), pp. 1457-1460. Cited 8 times.

Document Type: Article
Source: Scopus

105. Shirini, F., Zolfigol, M.A., Albadi, J.
Melamine trisulfonic acid (MTSA): A new efficient catalyst for the chemoselective methoxymethylation of alcohols
(2010) Synthetic Communications, 40 (6), pp. 910-914. Cited 7 times.

Document Type: Article
Source: Scopus

106. Shirini, F., Zolfigol, M.A., Aliakbar, A.-R., Albadi, J.
Efficient acetylation of alcohols, phenols, and amines catalyzed by melamine trisulfonic acid (MTSA)
(2010) Synthetic Communications, 40 (7), pp. 1022-1028. Cited 7 times.

Document Type: Article
Source: Scopus

107. Nikpassand, M., Mamaghani, M., Shirini, F., Tabatabaeian, K.
A convenient ultrasound-promoted regioselective synthesis of fused polycyclic 4-aryl-3-methyl-4,7-dihydro-1H-pyrazolo[3,4-b]pyridines
(2010) Ultrasonics Sonochemistry, 17 (2), pp. 301-305. Cited 10 times.

Document Type: Article
Source: Scopus

108. Shirini, F., Imanzadeh, G.H., Mousazadeh, A.R., Mohammadpoor-Baltork, I., Aliakbar, A.R., Abedini, M.
(PhCH₂PPh₃)+Br³⁻: A versatile reagent for the preparation, deprotection, and oxidation of trimethylsilyl ethers
(2010) Phosphorus, Sulfur and Silicon and the Related Elements, 185 (3), pp. 641-646. Cited 4 times.

Document Type: Article
Source: Scopus

109. Shirini, F., Albadi, J.
Melamine trisulfonic acid as a new, efficient and reusable catalyst for the chemoselective oxathioacetalization of aldehydes
(2010) Bulletin of the Korean Chemical Society, 31 (5), pp. 1119-1120. Cited 5 times.

Document Type: Article
Source: Scopus

110. Shirini, F., Yahyazadeh, A., Abedini, M., Imani Langroodi, D.
Vanadium hydrogen sulfate catalyzed solvent-free synthesis of 3,4-dihydropyrimidin-
2(1H)-ones and bis-(indolyl) methanes
(2010) Bulletin of the Korean Chemical Society, 31 (6), pp. 1715-1718. Cited 5 times.

Document Type: Article
Source: Scopus

111. Shirini, F., Imanzadeh, G.H., Mousazadeh, A.R., Aliakbar, A.R.
(PhCH₂PPh₃)+Br³⁻: A versatile reagent for the chemoselective oxidation of sulfides to
sulfoxides
(2010) Phosphorus, Sulfur and Silicon and the Related Elements, 185 (8), pp. 1640-1644.
Cited 1 time.

Document Type: Article
Source: Scopus

112. Shirini, F., Mamaghani, M., Mostashari-Rad, T., Abedini, M.
Saccharin sulfonic acid as an efficient catalyst for the preparation and deprotection of
1,1-diacetates
(2010) Bulletin of the Korean Chemical Society, 31 (8), pp. 2399-2401.

Document Type: Article
Source: Scopus

113. Shirini, F., Zolfigol, M.A., AbediniM.
Saccharin sulfonic acid catalyzed N-Boc protection of amines and formation of tertbutyl
ethers from alcohols
(2010) Journal of the Iranian Chemical Society, 7 (3), pp. 603-607. Cited 2 times.

Document Type: Article
Source: Scopus

114. Shirini, F., Imanzadeh, G.H., Mousazadeh, S.A.R., Mohammadpoor-Baltork, I.,
Abedin, M.
A mild and efficient method for the methoxymethylation and acetylation of alcohols
promoted by benzyltriphenylphosphonium tribromide

(2010) Chinese Chemical Letters, 21 (10), pp. 1187-1190.

Document Type: Article

Source: Scopus

115. Shirini, F., Langroodi, M.S., Abedini, M.
Efficient synthesis of bis (indolyl) methanes catalyzed by (PhCH₂PPh₃)⁺Br⁻ - under solvent-free conditions
(2010) Chinese Chemical Letters, 21 (11), pp. 1342-1345. Cited 2 times.

Document Type: Article

Source: Scopus

116. Shirini, F., Zolfigol, M.A., Albadi, J.
Melamine trisulfonic acid as a new, efficient and reusable catalyst for the Solvent free synthesis of coumarins
(2010) Journal of the Iranian Chemical Society, 7 (4), pp. 895-899.

Document Type: Article

Source: Scopus

117. Shirini, F., Abedini, M., Pourvali, A.
V(HSO₄)₃ promoted oxidation of alcohols and trimethylsilyl, tetrahydropyranyl and methoxymethyl ethers with Cu(NO₃)₂·3H₂O in the absence of solvent
(2011) Chinese Chemical Letters, 22 (1), pp. 33-36.

Document Type: Article

Source: Scopus

118. Shirini, F., Zolfigol, M.A., Albadi, J.
Melamine trisulfonic acid: A new, efficient and recyclable catalyst for the synthesis of 3,4-dihydropyrimidin-2(1H)-ones/thiones in the absence of solvent
(2011) Chinese Chemical Letters, 22 (3), pp. 318-321. Cited 1 time.

Document Type: Article

Source: Scopus

119. Shirini, F., Mirhashemi, S.K., Pourvali, A., Abedini, M.
Efficient regeneration of aldehydes from their corresponding 1,3-oxathiolanes in the absence of solvent
(2011) Chinese Chemical Letters, 22 (4), pp. 421-423.

Document Type: Article
Source: Scopus

120. Shirini, F., Mamaghani, M., Atghia, S.V.
Sulfonic acid-functionalized ordered nanoporous Na +- montmorillonite (SANM): A novel, efficient and recyclable catalyst for the chemoselective N-Boc protection of amines in solventless media
(2011) Catalysis Communications, 12 (12), pp. 1088-1094. Cited 1 time.

Document Type: Article
Source: Scopus

121. Khaligh, N.G., Shirini, F.
Preparation, characterization and use of poly(4-vinylpyridinium) hydrogen sulfate salt as an eco-benign, efficient and reusable solid acid catalyst for the chemoselective 1,1-diacetate protection and deprotection of aldehydes
(2011) Journal of Molecular Catalysis A: Chemical, 348 (1-2), pp. 20-29. Cited 2 times.

Document Type: Article
Source: Scopus

122. Shirini, F., Khoshdel, M.A., Abedini, M., Atghia, S.V.
Nanocrystalline TiO 2 as an efficient and reusable catalyst for the chemoselective trimethylsilylation of primary and secondary alcohols and phenols
(2011) Chinese Chemical Letters, 22 (10), pp. 1211-1214. Cited 1 time.

Document Type: Article
Source: Scopus

123. Shirini, F., Ghaffari Khaligh, N.
Succinimide-N-sulfonic acid: A mild, efficient, and reusable catalyst for the chemoselective trimethylsilylation of alcohols and phenols

(2011) Phosphorus, Sulfur and Silicon and the Related Elements, 186 (11), pp. 2156-2165. Cited 1 time.

Document Type: Article
Source: Scopus

124. Mamaghani, M., Joshari, M.S., Tabatabaeian, K., Shirini, F., Khavasi, H.R.
Crystal structure of (2Z,5Z)-3-allyl-5-(4-(methylthio)benzylidene)-2-(p-tolylimino)thiazolidin-4-one, C₂₁H₂₀N₂O₂S
(2011) Zeitschrift fur Kristallographie - New Crystal Structures, 226 (4), pp. 618-620.

Document Type: Article
Source: Scopus

125. Jourshari, M.S., Mamaghani, M., Tabatabaeian, K., Shirini, F.
A convenient synthesis of novel 5-arylidene-2-imino-4-thiazolidinones using base supported ionic liquid-like phase (SILLP) as efficient green catalyst
(2012) Journal of the Iranian Chemical Society, 9 (1), pp. 75-80.

Document Type: Article
Source: Scopus

126. Shirini, F., Atghia, S.V., Jirdehi, M.G.
Nanocrystalline TiO₂-HClO₄ as a new, efficient and recyclable catalyst for the chemoselective trimethylsilylation of alcohols, phenols and deprotection of silyl ethers
(2012) Catalysis Communications, 18, pp. 5-10.

Document Type: Article
Source: Scopus

127. Shirini, F., Mashhadi-Nejad, M.
Cu(NO₃)₂ · 3 H₂O as an efficient reagent for the chemoselective trimethylsilylation of primary alcohols and oxidation of trimethylsilyl ethers
(2012) Phosphorus, Sulfur and Silicon and the Related Elements, 187 (3), pp. 376-381.

Document Type: Article
Source: Scopus

128. Roshan, A.A., Mamaghani, M., Mahmoodi, N.O., Shirini, F.
An efficient regioselective sonochemical synthesis of novel 4-aryl-3-methyl-4,5-dihydro-
1H-pyrazolo[3,4-b]pyridin-6(7H)-ones
(2012) Chinese Chemical Letters, 23 (4), pp. 399-402.

Document Type: Article
Source: Scopus

129. Shirini, F., Khaligh, N.G.
Succinimide sulfonic acid (SuSA): An efficient and recyclable catalyst for the
chemoselective N-Boc protection of amines
(2012) Monatshefte fur Chemie, 143 (4), pp. 631-635.

Document Type: Article
Source: Scopus

130. Shirini, F., Jolodar, O.G.
Introduction of N-sulfonic acid poly(4-vinylpyridinum) chloride as an efficient and
reusable catalyst for the chemoselective 1,1-diacetate protection and deprotection of
aldehydes
(2012) Journal of Molecular Catalysis A: Chemical, 356, pp. 61-69.

Document Type: Article
Source: Scopus

131. Shirini, F., Mamaghani, M., Atghia, S.V.
A mild and efficient method for the chemoselective trimethylsilylation of alcohols and
phenols and deprotection of silyl ethers using sulfonic acid-functionalized ordered
nanoporous Na⁺-montmorillonite
(2012) Applied Clay Science, 58, pp. 67-72.

Document Type: Article
Source: Scopus

132. Dashti, M., Mokhtari, J., Nouri, M., Shirini, F.
Imparting conductivity and chromic behavior on polyester fibers by means of poly(3-

methylthiophene) nanocoating
(2012) *Journal of Applied Polymer Science*, 124 (4), pp. 3007-3012.

Document Type: Article
Source: Scopus

133. Shirini, F., Akbari-Dadamahaleh, S., Mohammad-Khah, A.
Rice husk supported FeCl₃ nanoparticles as an efficient and reusable catalyst for the chemoselective 1,1-diacetate protection and deprotection of aldehydes
(2012) *Journal of Molecular Catalysis A: Chemical*, 363-364, pp. 10-17.

Document Type: Article
Source: Scopus

134. Albadi, J., Keshavarz, M., Shirini, F., Vafaie-nezhad, M.
Copper iodide nanoparticles on poly(4-vinyl pyridine): A new and efficient catalyst for multicomponent click synthesis of 1,4-disubstituted-1,2,3-triazoles in water
(2012) *Catalysis Communications*, 27 (10), pp. 17-20.

Document Type: Article
Source: Scopus

135. Shirini, F., Khaligh, N.G.
Succinimide-N-sulfonic acid: An efficient catalyst for the synthesis of xanthene derivatives under solvent-free conditions
(2012) *Dyes and Pigments*, 95 (3), pp. 789-794.

Document Type: Article
Source: Scopus

136. Hosseinnia, F., Mamaghani, M., Tabatabaeian, K., Shirini, F., Rassa, M.
An Expeditious Regioselective Synthesis of Novel Bioactive Indole-Substituted Chromene Derivatives via One-Pot Three-component Reaction
(2012) *Bioorganic & Medicinal Chemistry Letters*, 22 (18), pp. 5956-5960.

Document Type: Article
Source: Scopus

137. Shirini, F., Ghaffari Khaligh, N., Akbari-Dadamahaleh, S.

Preparation, characterization and use of 1,3-disulfonic acid imidazolium hydrogen sulfate as an efficient, halogen-free and reusable ionic liquid catalyst for the trimethylsilyl protection of hydroxyl groups and deprotection of the obtained trimethylsilanes (2012) *Journal of Molecular Catalysis A: Chemical*, 365, pp.15-23.

Document Type: Article

Source: Scopus

138. Shirini, F., Ghaffari Khaligh, N., Imanzadeh, G. H., Ghods Ghasemabadi, P.

1,3-Dibromo-5,5-dimethylhydantoin (DBH)/ Kaolin: An efficient reagent system for the synthesis of 14-aryl-14*H*-dibenzo[*a,j*]xanthenes under solvent-free conditions (2012) *Chinese Chem. Lett.*, 23 (10), pp. 1145-1148.

Document Type: Article

Source: Scopus

139. Shirini, F., Ghaffari Khaligh, N.

Poly(4-vinylpyridine) Catalyzed Chemoselective O-TMS Protection of Alcohols and Phenols and N-Boc Protection of Amines (2012) *J. Iranian Chem. Soc.*, 9, pp. 495-502.

Document Type: Article in Press

Source: Scopus

140. Shirini, F., Ghaffari Khaligh, N., Goli Jolodar, O.

N-sulfonic acid poly(4-vinylpyridinium) chloride: an efficient and reusable solid acid catalyst in *N*-Boc protection of amines (2012) *J. Iranian Chem. Soc.*, In Press.

Document Type: Article in Press

Source: Scopus

141. Ghaffari Khaligh, N., Shirini, F.

Introduction of poly(4-vinylpyridinium) perchlorate as a new, efficient, and versatile solid acid catalyst for one-pot synthesis of substituted coumarins under ultrasonic irradiation

(2012) Ultrasonic SonoChemistry, In Press.

Document Type: Article in Press

Source: Scopus

142. Ghaffari Khaligh, N., Shirini, F.

Ultrasound assisted the chemoselective 1,1-diacetate protection and deprotection of aldehydes catalyzed by poly(4-vinylpyridinium)hydrogen sulfate salt as a eco-benign, efficient and reusable solid acid catalyst

(2012) Ultrasonic SonoChemistry, In Press.

Document Type: Article in Press

Source: Scopus

143. Shirini, F., Mamaghani, M., Atghia, S. V.

Use of nanoporous Na⁺-montmorillonite sulfonic acid (SANM) as an eco-benign, efficient and reusable solid acid catalyst for the one-pot synthesis of 14-aryl-14-*H*-dibenzo[*a,j*]xanthenes and 1,8-dioxo-dodecahydroxanthene derivatives

(2012) J. Iran. Chem. Soc., In Press

Document Type: Article in Press

Source: Scopus

144. Shirini, F., Ghaffari Khaligh, N.

1,3-Disulfonic acid imidazolium hydrogen sulfate as an efficient and reusable ionic liquid for the N-Boc protection of amines

(2012) J. Molecular Liquids, In Press

Document Type: Article in Press

Source: Scopus

145. Shirini, F., Sarvi Beigbaghlou, S., Atghia, S. V., Mousazadeh, S. A. R.

Multi-component one-pot synthesis of unsymmetrical dihydro-5*H*-indeno[1,2-*b*]quinolines as new pH indicators

(2012) Dyes and Pigments, In Press

Document Type: Article in Press

Source: Scopus

146. Shirini, F., Akbari-Dadamahaleh, S., Mohammad-Khah, A., Aliakbar, A. R.

Rice husk: A Mild, Efficient, Green and Recyclable Catalyst for the Synthesis of 12-Aryl-8, 9, 10, 12-tetrahydro [a] xanthene-11-ones and Quinoxaline Derivatives

(2012) Comptes Rendus Chimie, In Press

Document Type: Article in Press

Source: Scopus

147. Shirini, F., Athigha, S. V., Ghazi Jirdehi, M.

Nanocrystalline TiO₂-HClO₄: A novel, efficient and recyclable catalyst for the chemoselective N-Boc protection of amines under solvent-free conditions

(2012) Chinese Chem. Lett., In Press

Document Type: Article in Press

Source: Scopus