

Curriculum Vitae

Personal

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Academic Qualifications

<i>Degree</i>	<i>Graduation Date</i>	<i>University</i>	<i>Thesis Title</i>
M.Sc.	Dec. 1993	Philipps Universitaet, Marburg, Germany	Halogenato(-1)-Komplexe von N-Halogensuccinimiden
Ph.D.	Feb. 1996	Philipps Universitaet, Marburg, Germany	Donor-Akzeptor-Komplexe von N-Halogenphthalimiden, N,N'-Dimethylharnstoff und Halogenacetylenen

Academic Qualifications

Professor of Inorganic Chemistry

Areas of Research Interest

*Coordination chemistry group metals 10 and 11

* Synthesis of macromolecules based on N-Heterocycles

* Synthesis of Azacrowns

Honors

Distinguished Researcher of Chemistry & Chemical Engineering Center of Iran, December 2002, Tehran, Iran

Distinguished Researcher of Chemistry & Chemical Engineering Center of Iran, December 2012, Tehran, Iran

Publications

1. M. Ghassemzadeh, K. Harms, K. Dehnicke, J. Magull;
2-Halogenokomplexe von N-Chlorosuccinimid und N-Succinimid
Z. Naturforsch. 49b, 506 (1994).
2. M. Ghassemzadeh, K. Harms, K. Dehnicke, D. Fenske;
2-Halogenokomplexe von N-Bromosuccinimid und N-Bromophthalimid
Z. Naturforsch. 49b, 593 (1994).
3. M. Ghassemzadeh, K. Dehnicke, H. Goesmann, D. Fenske;
2-Halogenokomplexe von N-Iodsuccinimid
Z. Naturforsch. 49b, 602 (1994).
4. M. Ghassemzadeh, K. Harms, K. Dehnicke;
N, N'-Dimethylharnstoff als chelatisierende Lewis-Säure; Synthese und Kristall-struktur von $\text{PPh}_4[\text{Cl}(\text{H}_2\text{Me}_2\text{N}_2\text{CO})]$ und $(\text{PPh}_4)_2[\text{Cl}(\text{H}_2\text{Me}_2\text{N}_2\text{CO})]\text{Cl}$
Z. Naturforsch. 51b, 1423 (1996).
5. M. Ghassemzadeh, K. Harms, K. Dehnicke
Komplexe von Halogenid-Ionen mit 1-Halogen-2-phenylacetylenen. Kristall-struktur von $\text{PPh}_4[\text{X}(\text{I-C}\equiv\text{C-Ph})_4]$ mit $\text{X}=\text{Cl, Br, I}$, von $\text{PPh}_4[\text{Br}(\text{Br-C}\equiv\text{C-Ph})_4]$ und von $\text{NMe}_4[\text{F}(\text{I-C}\equiv\text{C-}$

Ph)₂]

Chem. Ber. 129, 115 (1996).

6. M. Ghassemzadeh, K. Harms, K. Dehnicke;
Komplexe von Halogenid-Ionen mit Diiodacetylen. Die Kristallstrukturen von $\text{PPh}_4[\text{X}(\text{I}-\text{C}\equiv\text{C}-\text{I})_2]$ mit $\text{X} = \text{Cl}, \text{Br}, \text{I}$
Chem. Ber. 129, 259 (1996).
7. M. Ghassemzadeh, J. Magull, D. Fenske, K. Dehnicke;
Iodbenzol als Lewis-saeure: Synthese und Kristallstruktur von $\text{PPh}_4[\text{Cl}-\text{I}-\text{C}_6\text{H}_5]$ und $\text{PPh}_4[\text{Br}-\text{I}-\text{C}_6\text{H}_5]$
Z. Naturforsch. 51b, 1579 (1996).
8. M. Ghassemzadeh, K. Harms, K. Dehnicke;
Kristallstruktur von $[\text{PMePh}_3][\text{Cl}-\text{I}-\text{C}\equiv\text{C}-\text{Ph}]$
Z. Naturforsch. 52b, 772 (1997).
9. M. Ghassemzadeh, K. Aghapoor, B. Neumueller;
Synthesis and Crystal Structure of $[\text{Cu}_2(\text{OAc})_4(\text{NCMe})_2] \cdot 2\text{MeCN}$
Z. Naturforsch., 53b, 774 (1998).
10. M. Ghassemzadeh, K. Aghapoor, M. Heravi, B. Neumueller;
Synthesis and Crystal Structure of new Palladium-Nitrogen-Sulfur Complex
Z. Anorg. Allg. Chem., 6241969 (1998).
11. M.M. Heravi, D. Ajami, M. Ghassemzadeh;
Wet alumina supported chromiun(VI) oxide. A mild, efficient and inexpensive reagent for oxidative deprotection of trimethylsilyl ethers in solventless system
Synthesis, 3, 393 (1998).
12. M.M. Heravi, H.A. Oskooie, M. Ghassemzadeh, F.F. Zameni;
Clay supported cerium(IV) reagents for oxidative deprotection of tetrahydropyranyl ethers

under non-aqueous conditions

Monatsh. Chem. 130, 1253 (1999).

13. M.M. Heravi, D. Ajami, M.M. Mojtahedi and M. Ghassemzadeh;
A convenient oxidative deprotection of tetrahydropyranyl ethers with Iron(III) nitrate and clay under microwave irradiation in solvent free conditions
Tetrahedron Lett., 40, 561 (1999).
14. M.M. Heravi, M. Tajbakhsh, B. Mohajerani, M. Ghassemzadeh;
Montmorillonite K-10 catalyzed Knoevenagel condensation under microwave irradiation in solventless system
Z. Naturforsch. 54b, 541 (1999).
15. M.M. Heravi, D. Ajami, M. Ghassemzadeh;
Solvent free tetrahydropyranlation of alcohols and phenols over sulfuric acid adsorbed on silica gel
Synth. Commun., 29(6), 1013 (1999).
16. M.M. Heravi, D. Ajami, K. Tabar-Hydar, M. Ghassemzadeh;
Remarkable fast microwave assisted zeolite HZSM-5 catalyzed oxidation of alcohols with chromium trioxide under solvent free condition
J. Chem. Res. (S), 334 (1999).
17. M.M. Heravi, M. Tajbakhsh, M. Ghassemzadeh;
Direct oxidative deprotection of trimethylsilyl and tetrahydropyranyl ethers using alumina supported iodobenzene diacetate under non-aqueous condition
Z. Naturforsch. 54b, 394 (1999).
18. M.M. Heravi, D. Ajami, K. Aghapoor, M. Ghassemzadeh;
“Zeofen”; A user friendly oxidizing reagent
Chem. Commun., 833 (1999).

19. M.M. Heravi, M.M. Sadeghi, M. Hazrati, M. Ghassemzadeh;
Synthesis of novel heterocyclic system 1,3 thiazino [2,3,4] 1,2,4 triazine
Indian J. Heterocyclic Chem., 8(4), 339 (1999).

20. F. Adhami, M. Ghassemzadeh, M.M. Heravi, A. Taeb, B. Neumueller;
Synthesis and crystal structure of a new Silver(I)-complex
Z. Anorg. Allg. Chem. 625, 1411 (1999).

21. B. Neumueller, M.M. Heravi, M. Ghassemzadeh;
Synthesis and crystal structure of $\{[(\text{AMTTO})\text{Pd}(\text{PPh}_3)\text{Cl}]\text{Cl}\} \cdot \text{CH}_3\text{OH}$ and
 $[(\text{AMTTO})\text{Pd}(\text{SCN})_2] \cdot \text{CH}_3\text{CN}$
Z. Anorg. Allg. Chem., 625, 1908 (1999).

22. M.M. Heravi, M. Tajbakhsh, B. Mohajerani, M. Ghassemzadeh
An efficient Knoevenagel condensation using HZSM-5 zeolite as a catalyst
Indian J. Chem. 38B, 857 (1999).

23. M.M. Heravi, M. Tajbakhsh, B. Mohajerani, M. Ghassemzadeh
HZSM-5-zeolite as remarkable and reusable catalyst for the direct acetylation of alcohols
and phenols under solvent-free conditions
Indian J. Chem., 38B, 859 (1999).

24. M.M. Heravi, M. Rahimizadeh, E. Irvani, M. Ghassemzadeh, K. Aghapoor
Synthesis of 3-thioxopyrido [2,3-c][1,2,4]-triazine and its tricyclic derivative
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25. M.M. Heravi, D. Ajami, K. Aghapoor, M. Ghassemzadeh
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 CrO_3 and clay-bis(trimethylsilyl) chromate in solventless system
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26. M.M. Heravi, Y. Sh. Beheshtiha, N. Nami, M. Ghassemzadeh;
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Phosphorus, Sulphur and Silicon, 161, 71 (2000).

27. M. Ghassemzadeh, M. Bolourtchian, S. Chitsaz, B. Neumueller, M.M. Heravi
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[(AMTTO)PdBr₂]₂.3.5THF, [(AMTTO)PdI₂]₂.3MeOH, [(AMTTO)Pd(PPh₃)Br]Br.MeOH
and [(AMTTO)Pd(PPh₃)I].2MeOH
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28. M.M. Heravi, Y.Sh. Beheshtiha, M. Ghassemzadeh, R. Hekmatshoar, N. Sarmad
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29. M.M. Heravi, M. Rahimizadeh, E. Irvani, M. Ghassemzadeh
Synthesis of novel heterocyclic system pyrido 1,2,4-benzotriazine
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30. M. Tajbakhsh, H. Bakooie, M. Ghassemzadeh, M.M. Heravi
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33. M. Tajbakhsh, M. Ghaemi, S. Sarabi, M. Ghassemzadeh, M.M. Heravi
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34. Majid M. Heravi, Ghadir Rajabzadeh, Mohammad Rahimizadeh, Mehdi Bakavoli, Mitra Ghassemzadeh
Synthesis of 8-dihydro-3-methyl-7-amino-[1,2,4]triazino[3,4-b][1,3,4]thiadiazine
Molecules, 11, 190 (2000).
35. M.M. Heravi, N. Montazeri, M. Rahimizadeh, M. Bakavoli, M. Ghassemzadeh
Solid acid induced heterocyclization under microwave irradiation. Highly selective synthesis of condensed thiazole
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36. M.M. Heravi, M. Shafaie, P. Khosrofar, M. Ghassemzadeh
Deuterium studies in the cyclization and isomerization of 3-propargylmercapto-1,2,4-triazines to thiazolo[3,2-b]-[1,2,4]triazines
Phosphorus, Sulphur and silicon and related elements, 167, 21 (2000).
37. M.M. Heravi, M. Rahimizadeh, M. Seyf, A. Davoodnia, M. Ghassemzadeh
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Phosphorus, Sulphur and Silicon, 167, 211 (2000)
38. M. Tajbakhsh, M.M. Heravi, S. Habibzadeh, M. Ghassemzadeh
Potassium Ferrate supported onto Montmorillonite K-10:
A mild, Efficient and Inexpensive Reagent for Oxidative Deprotection of Trimethylsilyl ethers in Non-Aqueous Conditions

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39. M. Ghassemzadeh, F. Adhami, M.M. Heravi, A. Taeb, S. Chitsaz, B. Neumueller
Syntheses and X-Ray Crystal Structures of new Copper(I) and Silver(I) Complexes
containing Thione ligands
Z. Anorg. Allg. Chem., 627, 815 (2001).
40. A. Tarassoli, T. Sedaghat, B. Neumueller, M. Ghassemzadeh
Synthesis, spectroscopic investigations and crystal structures of organotin(IV) derivatives
of 2-amino-1-cyclopentene-1-carbodithioic acid
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41. M.M. Heravi, R. Hekmat-Shoar, Y. Sh. Beheshtiha, M. Ghassemzadeh
Ammonium Chlorochromate absorbed on montmorillonite K-10 oxidative deprotection of
tetrahydropyranyl ethers using microwaves in solventless system
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42. M. M. Heravi, D. Ajami, B. Mohajerani, M. Tajbakhsh, M. Ghassemzadeh, K. Tabar-Hydar
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43. M.M. Heravi, M. Tajbakhsh, S. Habibzadeh, M. Ghassemzadeh
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44. M.M. Heravi, D. Ajami, M. Ghassemzadeh, K. Tabar-Hydar
“Zeofen”, an efficient reagent for oxidative deprotection of trimethylsilyl ethers under
microwave irradiation in solventless system
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45. M. M. Heravi, Gh. Rajabzadeh, M. Rahimizadeh, Mehdi Bakavoli, M. Ghassemzadeh
7H-6-Methyl-6-Phenyl-[1,2,4]triazino[2,3-b][1,3,4]thiadiazin-7-one
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46. M. M. Heravi, Gh. Rajabzadeh, M. Rahimizadeh, M. Bakavoli, M. Ghassemzadeh
5-Dihydro-3-methyl-6-amino-[1,2,4]triazino-[2,3-b][1,3,4]thiadiazine
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47. M. Bakavoli, H. Germaninejhad, M. Rahimizadeh, M. Ghassemzadeh, M. M. Heravi
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b]pyridines,
Indian J Het Chem 10(4), 317 (2001)

48. M.M. Heravi, R. Zadmard, M. Ghassemzadeh, M. Tajbakhsh, N. Riahifar
Silica Chloride Catalyzed Cyclization Reaction: Unique Synthesis of Condensed Thiazoles
and Selenazole
Phosphorus, Sulfur and Silicon, 176, 87 (2001).

49. M. Tajbakhsh, M.M. Heravi, F. Mohanazadeh, S. Sarabi, M. Ghassemzadeh
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50. M.M. Heravi, N. Montazeri, M. Rahimizadeh, M. Bakavoli, M. Ghassemzadeh
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substituted [1,2,4]triazolo[5,1-b][1,3]thiazin-7-ones
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52. M. Tajbakhsh, M. Bakooie, M. Ghassemzadeh, M.M. Heravi
A new and general method for the synthesis of substituted quinoxaline
Indian J. Chem. 40, 1232 (2001)

53. K. Aghapoor, M.M. Heravi, M.A. Nooshabadi, M. Ghassemzadeh
Solid State Cleavage of Semicarbazones with Cerium Ammonium Nitrate Supported by wet
Alumina
Monatsh. Chem. 133, 107 (2002).

54. M. Bakavoli, A. Khodadady, M. Ghassemzadeh, M.M. Heravi
Synthesis of a novel heterocyclic system, imidazol[1',2':1,2]pyrimido[1,3]thiazole
Phosphorus, Sulfur and Silicon, 176, 191 (2001)

55. M.M. Heravi, G. Rajabzadeh, M. Rahimizadeh, M. Bakavoli, M. Ghassemzadeh
Synthesis of a novel heterocyclic system: 4H-[1,2,4]triazino[4,5-b][1,3]
thiadiazine
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56. M.M. Heravi, N. Montazeri, M. Rahimizadeh, M. Bakavoli, M. Ghassemzadeh
Zeolite-induced heterocyclization: a superior method of synthesis of condensed imidazoles
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Phosphorus, Sulphur and Silicon, 176, 205 (2001).

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Regioselective cyclization of S-acrylic acid derivative of 1,2,4-benzotriazine to 10H-
[1,3]thiazino[2,3-c][1,2,4]benzotriazin-4-one
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of Aldehydes and Ketones
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potassium ferrate
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63. M.M. Heravi, Gh. Rajabzadeh, M. Rahimizadeh, M. Bakavoli, M. Ghassemzadeh
A convenient and general synthesis of a novel heterocyclic system; 5H-
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64. M. Mirza-Aghayan, H. R. Darabi, L. Ali-Saraie, M. Ghassemzadeh, M. Bolourtchian, M.
Jalali-Heravi, B. Neumüller
Crystal Structure and Properties of a New 2, 2'-Ortho(metaxylene) *E*-Bridged
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65. M. Hakimi, M. Yazdanbakhsh, M.M. Heravi, M. Ghassemzadeh, B. Neumueller
Synthesis and Crystal Structure of Diaqua bis(4-amino-3-methyl-1,2,4-triazol-5-
thione)cadmium(II) nitrate
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Irradiation
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68. M.M. Heravi, A. Keivanloo, M. Rahimizadeh, M. Bakavoli, M. Ghassemzadeh
Heteroannulation through Palladium Catalysis: A Novel Cyclization Leading to
Regioselective Synthesis of 3-Substituted Thiazolo[3,2-c]1,2,4-triazin-5-ones
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Using CrO₃ Supported onto Zeolite in Solventless System
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Hydar
Chromium Trioxide Supported onto Wet Silica Gel: Rapid Oxidation of Alcohols to
Carbonyl Compounds Under Microwave Irradiation in Solventless System
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Syntheses and Characterization of New Copper Complexes with the Heterocyclic Thione,
AMTTO. X-Ray Structures of $[\text{Cu}(\text{AMTTO})\text{Cl}_2]$, $[\text{Cu}(\text{AMTTO})_2]\text{Cl}$, and
 $[\text{Cu}(\text{AMTTO})(\text{PPh}_3)_2\text{Cl}]$ (AMTTO = 4-Amino-6-methyl-1, 2, 4-triazine-3-thione-5-one)
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Zeofen, an eco-friendly catalyst for deoximation under microwave irradiation in solventless
system
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HZSM-5 Zeolite Under Microwave Irradiation in Solventless System
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74. H. R. Darabi, M. Mirza-Aghayan, L. Ali-Saraie, M. Bolourtchian, B. Neumüller, M.
Ghassemzadeh
Synthesis, characterization and properties of two novel E- and Z-stilbenophanes: their
lithium-selective complexation and the C-H...O short hydrogen bonds in X-ray structure of
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77. L. Fotouhi, M. Ghassemzadeh, M.M. Heravi
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A rapid method for oxidative deprotection of trimethylsilyl ether with wet alumina supported Dess-Martin periodinane in solventless system under microwave irradiation
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79. M.M. Heravi, M. Rahimizadeh, E. Iravani, M. Ghassemzadeh
Synthesis of bicyclic compounds derived from 1,2,4-Benzotriazines
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Microwave-assisted synthesis of the tetradentate Schiff-bases under solvent-free and catalyst-free condition
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Syntheses, Characterization and X-Ray Structures of the first Copper(I) and Silver(I) Complexes with ATT (ATT = 6-Aza-2-thiothymine)
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Synthesis and Characterization of the first copper(II) complex of 6-Azathymine
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Synthesis and Characterization of New AMTTO-Imine-Ligands and Their Silver(I) Complexes.

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Synthesis and characterization of new copper(I) complexes containing thione derivatives of 1,2,4-triazine
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Synthesis of [1,3,4]-Thiadiazolo[2,3-c][1,2,4]triazin-4-ones using sulfuric acid supported onto silica gel in solventless system
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