

## Prof. Dr. Mohsen A.-M. Gomaa

### Professor of Organic Chemistry

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### Education

| Degree              | Date           | University (name & Location)                           | Specification     |
|---------------------|----------------|--------------------------------------------------------|-------------------|
| B.Sc. (Distinction) | May, 1984      | Minia University, Egypt                                | Chemistry         |
| M.Sc.               | December, 1988 | Minia University, Egypt                                | Organic Chemistry |
| Ph.D.               | January, 1994  | Duisburg University, Germany & Minia University, Egypt | Organic Chemistry |

### Work Experience

**Professor**, Department of Chemistry, King Faisal University, KSA

**Professor**, Department of Chemistry, Minia University, Egypt

**Associate Professor** (1999-2005), Department of Chemistry, Minia University, Egypt

**Lecturer (1994-1999)**, Department of Chemistry, Minia University, Egypt

**Assistant Lecturer** (1989-1994), Department of Chemistry, Minia University, Egypt

**Demonstrator** (1984-1989), Department of Chemistry, Minia University, Egypt

### Honors/Awards

|                                                       |                                                           |                |
|-------------------------------------------------------|-----------------------------------------------------------|----------------|
| <i>Encouragement state prize in Chemical Sciences</i> | Academy of Scientific Research and Technology ASRT, Egypt | 2004           |
| <i>Minia University prize in Natural Sciences</i>     | Minia University, Egypt                                   | 2000           |
| <i>Post-doc Fellowship</i>                            | Deutsche Akademischer Austauschdienst DAAD, Germany       | Jan.-Feb.2002  |
| <i>Post-doc Fellowship</i>                            | Gerrhard-Mercator Duisburg University, Germany            | Oct.-Dec. 2001 |
| <i>Post-doc Fellowship</i>                            | Deutsche Forschungsgemeinschaft DFG, Germany              | Aug.-Sep. 1996 |
| <i>Ph.D. Fellowship</i>                               | Ministry of Higher Education of A. R. of Egypt            | Sep.91-Nov.93  |

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### **Membership of Professional Organizations:**

*Member of Egyptian Syndicate of Scientific Professions.*

### **Fields of Interest and skills**

Synthesis of new heterocyclic compounds.

Chemical studies of the chemistry of amidines, imines amidrazones and azines.

### **List of Publications**

1. A. M. Nour El-Din, A.E. Mourad, A.A. Hassan and **Mohsen A.-M. Gomaa** "Reaction of Amidine Phenologous with *p*-Benzoquinones" **Bull. Chem. Soc. Jpn.**, 64, 1966-1970 (1991).
2. D. Döpp, **Mohsen A.-M. Gomaa**, G. Henkel and A. M. Nour El-Din. "Reaction of *N*<sup>1</sup>,*N*<sup>2</sup>-Diarylamidines with Chloranil and 2,3-Dichloro-1,4-naphthoquinone", **J. Heterocyclic Chem.**, 32, 603-610 (1995).
3. **Mohsen A.-M. Gomaa**, "Reaction of imines with Naphthoquinones and 2-(Dicyanomethylene)-1,3-indandione", **Bull. Chem. Soc. Jpn.**, 68 (11), 3131-3135 (1995).
4. D. Döpp, **Mohsen A.-M. Gomaa**, G. Henkel and A. M. Nour El-Din "Reaction of *N*<sup>1</sup>,*N*<sup>2</sup>-Diarylamidines with Dicyanomethylene Compounds", **J. Chem. Soc. Perkin Trans. 2**, 573-576 (1996).
5. **Mohsen A.-M. Gomaa**, "Reaction of *N*<sup>1</sup>,*N*<sup>2</sup>-Diarylacetamidines with Alkynic Dienophiles : Synthesis of Pyridin-2-one Derivatives", **J. Chem. Res. (S)** 444-445 (1997), **J. Chem. Res. (M)**, 2679-2687 (1997).
6. **Mohsen A.-M. Gomaa**, S. K. Mohamed and A. M. Nour El-Din "Reaction of *N*<sup>1</sup>,*N*<sup>2</sup>-Diarylacetamidines with 2,3-Dicyano-1,4-naphthoquinone", **J. Chem. Res. (S)**, 284-285 (1997).
7. S. K. Mohamed, **Mohsen A.-M. Gomaa** and A. M. Nour El-Din "Reaction of Triazene-1-oxide: Novel synthetic method of solid aryl diazonium chlorides", **J. Chem. Res. (S)**, 166-167 (1997).
8. **Mohsen A.-M. Gomaa**, "Reaction of *N*<sup>1</sup>,*N*<sup>2</sup>-Diarylamidines with  $\alpha$ -Bromoacetophenone and Ethyl 2-bromoethanoate", **J. Chem. Res. (S)**, 654-655 (1998).
9. **Mohsen A.-M. Gomaa** and D. Döpp "Reaction of *N*<sup>1</sup>,*N*<sup>2</sup>-Diarylacetamidines with (2,4,7-Trinitro-9H-fluoren-9-ylidene)propanedinitriles", **J. Heterocyclic Chem.**, 35, 339-341 (1998).

10. **Mohsen A.-M. Gomaa**, "Reaction of 2-(3-methyl-5-oxo-1-phenyl-1H-pyrazol-4(5H)-ylidene)-propanedinitrile with 1,3-Dicarbonyl Compounds", **Pharmazie**, 54, 352-354 (1999).
11. **Mohsen A.-M. Gomaa**, Ahmed M. Nour El-Din and Azza A. Mohamed "Reaction of  $N^1,N^2$ -Diarylacetamidines with Ethyl 2-Oxoindoliden-3-ylidene cyanoacetate and Benzyldnemalononitriles, **Bull. Chem. Soc. Jpn.**, 72 (3), 471-476 (1999).
12. **Mohsen A.-M. Gomaa**, "Reaction of  $N^1,N^2$ -Diarylamidines with 2-(3-methyl-5-oxo-1-phenyl-1H-pyrazol-4(5H)-ylidene)-propanedinitrile ", **J. Chem. Res. (S)**, 387-389 (2001).
13. **Mohsen A.-M. Gomaa**, "Reaction of Diimines and Azines with Diphenylcyclopropenone", **J. Chem. Soc. Perkin Trans. 1**. 341-344 (2002).
14. **Mohsen A.-M. Gomaa** and D. Döpp "Reaction of  $N^1,N^2$ -Diarylamidines with 3,4,5,6-Tetrachloro-1,2-benzoquinone" **Tetrahedron** 59 (31), 5887-5891, (2003).
15. **Mohsen A.-M. Gomaa** "An Efficient and Facile Synthesis of Substituted Cinnoline and Benzo[h]cinnoline Derivatives" **Tetrahedron Lett.** 44 (17), 3493-3496, (2003).
16. **Mohsen A.-M. Gomaa** and D. Döpp "Reaction of  $N^1,N^2$ -Diarylamidines with (2,3-diphenylcycloprop-2-en-1-ylidene)malononitrile" **Synthesis** 1545-1548, (2003).
17. **Mohsen A.-M. Gomaa** "Tribenzoyldihydropyridinols from dibenzoylacetylene and imines", **J. Chem. Res.** 81-83, (2004).
18. **Mohsen A.-M. Gomaa** and D. Döpp "2-Spiroanellated 1,3-Benzodioxoles from the Reaction of 2,3-Dihydro-1H-pyrrol-3-ones with Tetrachloro-1,2-benzoquinone" **Monatsh. Chem.** 135, 1557-1561 (2004).
19. **Mohsen A.-M. Gomaa** "Reaction of  $N^1,N^2$ -Diarylamidines with 2,3-diphenylcyclopropenone **Z. Naturforsch. B** 597-600, (2004).
20. **Mohsen A.-M. Gomaa** and D. Döpp "New Dipyrinonols derived from 2,3-dihydro-1H-pyrrol-3-ones" **Monatsh. Chem.** 136, 169-175 (2005).
21. Ashraf A. Aly and **Mohsen A.-M. Gomaa** "New cycloaddition of diaryl azines with 1,2-dehydrobenzene, 1,1,2,2-tetracyanoethylene and dibenzoylacetylene; Facile synthesis of acridine, pyrazolidine and pyridazine derivatives " **Can. J. Chem.** 83, 57-62 (2005).
22. **Mohsen A.-M. Gomaa** , Alaa A. Hassan and Hamdy S. Shehatta "Synthesis of Novel Thiazole and Pyrrolothiadiazine Derivatives from Aldehyde Thiosemicarbazones" **Heteroatom Chem.** 17 (4), 261-266 (2006).
23. Ashraf A. Aly, **Mohsen A.-M. Gomaa**, Ahmed M. Nour El-Din and Magda S. Fahmi "Amidrazones in the Synthesis of 1H-1,2,4-triazoles" **Z. Naturforsch.** 61b, 1239-1242 (2006).

24. Ashraf A. Aly, Alaa A. Hassan, **Mohsen A.-M. Gomaa**, and Essmat M. El-Sheref " Unusual reactivity of thiosemicarbazides towards 2,3-diphenylcyclopropanone: synthesis of new pyridazinethiones and 1,2,4-triazoleo[4,3-*b*]pyridazinethiones" **Arkivoc (xiv)**, 1-11 (2007).
25. Ashraf A. Aly, Ahmed M. Nour El-Din, **Mohsen A.-M. Gomaa**, Alan B. Brown and Magda S. Fahmy " Unusual reactivity of 2,3-diphenylcyclopropanone towards *N*-imidoylthioureas; facile synthesis of 3-aryl-2,5,6-triphenylpyrimidin-4(3*H*)-one" **J. Chem. Res.** 439–441 (2007).
26. Ashraf A. Aly, **Mohsen A.-M. Gomaa**, Ahmed M. Nour El-Din, and Magda S. Fahmy "Reactions of amidrazones with 1,4-quinones" **Arkivoc (xvi)**, 41-50 (2007).
27. Ashraf A. Aly, Ahmed M. Nour El-Din, **Mohsen A.-M. Gomaa**, and Magda S. Fahmy "Rapid and Facile Synthesis of 4-Aryl-5-imino-3-phenyl-1*H*-naphtho[2,3-*f*]-1,2,4-triazepine-6,11-diones via the Reaction of Amidrazones with Dicyanonaphthoquinone" **Z. Naturforsch.** **63b**, 223-228 (2008).
28. Ashraf A. Aly, **Mohsen A.-M. Gomaa**, Ahmed M. Nour El-Din, and Magda S. Fahmy " Facile synthesis of 2-aryl-3-phenyl-5-phenylamino-2,5-dihydro-1,2,4-thiadiazole-5-carbonitriles" **Posphorous, Sulfur, Silicon and Related Elements** **183**, 1783-1789 (2008).
29. Mohsen A.-M. Gomaa " Reaction of  $N^1, N^2$ -Diarylamidines with 3,4,5,6-Tetrachloro-1,2-benzoquinone II: Synthesis of 3,4,5-trichloro-6-dibenzo[*d,f*][1,3]diazepines" under publication.