



## PERSONAL PROFILE

Last Name:	<i>El-sayed</i>	First Name:	<i>Mohamed Mohamed Ibrahim</i>
Nationality:	<i>Egyptian</i>		
Title:	<i>Doctor in Natural Sciences (Dr. rer. nat.)</i>		
Specialisation:	<i>Polymer chemistry</i>		
Present address:	King Faisal University, Faculty of Science, Chemistry Department, Al-Hufuf 31982, Al-Ahsa, Kingdom of Saudi Arabia.		
Current Job	Assistant Professor in Physical Chemistry		
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## TEACHING EXPERIENCE

***Assistant Lecturer (Lab Teaching from 1998 to 2004)***  
*Faculty of Science, Chemnitz University of Technology, Chemnitz, Germany*

***Assistant Lecturer (Lab Teaching from 1988 to 1997)***  
*Faculty of Engineering and Technology and Faculty of Education, Suez Canal University, Port-said, Egypt*

## ACTIVITIES

*Member of the Arab Healthy Water Association (AHWA) since 2005*  
*Referee in six international scientific journals*

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## WORK EXPERIENCE

**Postdoctoral position (from 01.05.2004 to 30.06.2005)**

(Supported by: Deutsche Forschungsgemeinschaft (DFG), Germany)

Department of Non-Classical Synthetic Methods, Chemnitz University of Technology, Chemnitz, Germany

**Project:** Synthesis and Characterization of Acceptor-Substituted Triphenylene Derivatives

**Postdoctoral position (from 01.04.2003 to 30.04.2004)**

(Supported by: Deutsche Forschungsgemeinschaft (DFG), Germany)

Department of Polymer Chemistry, Chemnitz University of Technology, Chemnitz, Germany

**Project:** Synthesis and Characterization of Heteroaromatic Amino Ketones Containing Thiophene moieties with Expected Solvatochromic Behavior

**Analysis Specialist (from 1996 to 1997 and from 2005 to 2007)**

General Organization of Export and Import Control (GOEIC), Port-said, Egypt

Principal duties:

Analytical responsibilities.

Quality investigation of the Export and Import Goods according to ISO and Egyptian standards

New Chemists training on Gas chromatography, UV-vis, atomic absorption, and other instruments used in food analysis.

**Analysis Specialist (from 1990 to 1995)**

El-Naser Salines Company, Port-said, Egypt

Principal duties:

Analytical responsibilities.

Quality control of the kitchen, table, and industrial salt extracts during the production and in final product.

## EDUCATIONAL QUALIFICATIONS

**1999-2003: Doctor in Natural Sciences (polymer chemistry)**

(Faculty of Science, Chemnitz University of Technology, Chemnitz, Germany)

**Subject:** Functional aromatic amino ketones as UV/Vis probes for various liquid and solid environments

**1991-1995: Master Science in Chemistry**

(Faculty of Science, Suez Canal University, Ismailia, Egypt)

**Subject:** Synthesis and characterization heterocyclic compounds containing tetrazole moiety with expected biological activity

**1984-1988: Bachelor of Science in Chemistry**

(Faculty of Science, Suez Canal University, Ismailia, Egypt)

## TRAINING COURSES

20.08.2005 to 21.08.2005	Internal Audit and Management Reviews, Dekheila Training Center, Alexandria, Egypt, Assistance for Trade Reform USAID
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23.10.2005 to 27.10.2005	Food Processing; Food & Cheese Microbes (HACCP) Food Technology Center, Cairo, Egypt , Assistance for Trade Reform USAID
26.11.2005 to 01.12.2005	Introduction to POPs Chemistry GOEIC's Dekheila Training Center, Alexandria, Egypt, An EU Project implemented by Tecnicas
11.12.2005 to 13.12.2005	The ITS-90 Temperature Scale National Institute for Standards, Cairo, Egypt Assistance for Trade Reform USAID
31.12.2005 to 04.01.2006	Analysis of Olive Oils , Food Technology Center, Cairo, Egypt Assistance for Trade Reform USAID
28.04.2006 to 02.05.2006	Technical Assessors, Pyramids Intercontinental Hotel, Giza, Egypt Assistance for Trade Reform USAID
14.05.2006 to 18.05.2006	Theoretical and Practical Basis for Food Analysis by HPLC Dekheila Training Center for GOEIC, Egypt Assistance for Trade Reform USAID
27.05.2006 to 01.06.2006	Introduction to Basic Statistics Materials Engineering & Metallurgy Unit, Engineering Consulting Center, Faculty of Engineering, Ain Shams University, Cairo, Egypt, Assistance for Trade Reform USAID
10.09.2006 to 14.09.2006	Introductory Course for Laboratory Assessor Skills (ISO/IEC 17025:2005), the European Union's MEDA Programme for the Arab Republic of Egypt, The Trade Enhancement programme for Egypt, GOEIC Training Center, Cairo Airport.
13.11.2006 to 16.11.2006	Management System Implementation Training, the European Union's MEDA Programme for the Arab Republic of Egypt, The Trade Enhancement programme for Egypt, GOEIC Training Center, Cairo Airport.
25.12.2006 to 27.12.2006	Food Toxicology, Ministry of Trade and Industry, Human Resources Development Unit, Industrial Modernization Programme, Dekheila Training Center for GOEIC, Egypt.
14.01.2007 to 16.01.2007	Vitamins Testing and their relation to health, Ministry of Trade and Industry, Human Resources Development Unit, Industrial Modernization Programme, Dekheila Training Center for GOEIC, Egypt

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20.02.2007 to 22.02.2007	Non Destructive Tests, Ministry of Trade and Industry, Human Resources Development Unit, Industrial Modernization Programme, Dekheila Training Center for GOEIC, Egypt
25.02.2007 to 01.03.2007	Internal Auditor Training, the European Union's MEDA Programme for the Arab Republic of Egypt, The Trade Enhancement programme for Egypt, GOEIC Training Center, Cairo Airport.
13.03.2007 to 15.03.2007	Sampling in Customs, Ministry of Trade and Industry, Human Resources Development Unit, Industrial Modernization Programme, Dekheila Training Center for GOEIC, Egypt .
18.03.2007 to 21.03.2007	Internal Auditor Training, experimental part, the European Union's MEDA Programme for the Arab Republic of Egypt, The Trade Enhancement programme for Egypt, GOEIC Training Center, Cairo Airport.
06.05.2007 to 08.05.2007	Determination of chlorinated pesticides in foods, Human Resources Development Unit, Industrial Modernization Programme, Dekheila Training Center for GOEIC, Egypt .
26.06.2007 to 28.06.2007	Determination of carbamates in foods, Human Resources Development Unit, Industrial Modernization Programme, Dekheila Training Center for GOEIC, Egypt .
29.07.2007 to 01.08.2007	Training of Trainers (TOT), the European Union's MEDA Programme for the Arab Republic of Egypt, The Trade Enhancement programme for Egypt, GOEIC Training Center, Cairo Airport.

## FIELD OF COMPETENCE

*Polymer, Physical, Organic, and Analytical Chemistry*

*Synthesis and characterisation of solvatochromic compounds, Sol-Gel hybrid materials, and Liquid Crystals.*

Technique of analysis:

<sup>1</sup>H and <sup>13</sup>C-NMR Spectroscopy, Solid-State NMR, FT-IR, and UV/Vis Spectroscopies, Elemental Analysis, Mass Spectrometry, Gas Chromatography, single crystal X-ray structure analysis, polarised optical microscopy (POM), differential scanning calorimetry (DSC) and X-ray diffraction (XRD).

## LIST OF PUBLICATIONS:

1. **El-Sayed, M.**; Müller, H.; Rheinwald, G.; Lang, H.; Spange, S.: Linear solvation energy (LSE) correlations of the solvatochromic response and x-ray structure analysis of hydrophilically *N*-substituted Michler's Ketone Derivatives, *J. Phys. Org. Chem.* **2001**, *14*, 247-255.
  2. Zimmermann, Y.; **El-Sayed, M.**; Prause, S.; Spange, S.: The Solvent-Like Nature of Silica Particles in Organic Solvents, *Monatsh. Chem.* **2001**, *132*, 1347-1361.
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3. Spange, S.; **El-Sayed, M.**; Müller, H.; Rheinwald, G.; Lang, H.; Poppitz, W.: Solid-state Structures of *N*-substituted Michler's Ketones and their relation to Solvato-chromism, *Eur. J. Org. Chem.* **2002**, 24, 4159-4168
4. **El-Sayed, M.**; Müller, H.; Rheinwald, G.; Lang, H.; Spange, S.: UV/Vis spectroscopic properties of *N*-(2'-hydroxy-4'-*N,N*-dimethylaminobenzylidene)-4-nitroaniline in various solvents and solid environments, *Monatsh. Chem.* **2003**, 134, 361-370.
5. **El-Sayed, M.**; Müller, H.; Rheinwald, G.; Lang, H.; Spange, S.: Solvatochromism, Crystallochromism, and Solid State Structures of Hydrophilically Functionalized Aromatic Amino Ketones containing Furan and Thiophene Rings, *Chem. Mat.* **2003**, 15, 746-754.
6. **El-Sayed, M.**; Seifert, A.; Spange, S.: Aromatic Aminoketone/Silica Sol-Gel Hybrid Materials of the Class I and Class II Type as Solvatochromic Sensor for Protic Solvents, *J. Sol-Gel Sci. Tech.* **2005**, 34, 77-94.
7. **El-Sayed, M.**; Walfort, B.; Lang, H.; Spange, S.: Structure and Solvatochromism of Heteroaromatic Amino Ketones Containing Thiophene moieties, *J. Phys. Org. Chem.* **2005**, 18, 1086-1098.
8. **El-Sayed, M.**; Blaudeck, T.; Cichos, F.; Spange, S.: Synthesis and Studying the Photophysical Properties of 3-(4-Di(2-hydroxyethyl)amino)-phenyl-1-(2-furyl)-2-propene-1-one, *J. Photochem. Photobio.* **2007**, 185, 44-50.
9. **El-Sayed, M.**; Spange, S.: Synthesis, Properties, and Solvatochromism of 1,3-Dimethyl-5-((thien-2-yl)-[4-(1-piperidyl)phenyl]methylidene)-(1*H*,3*H*)-pyrimidine-2,4,6-trione, *J. Phys. Org. Chem.* **2007**, 20, 264-270.
10. **El-Sayed, M.**; Spange, S.: Linear Solvation Energy (LSE) Correlation of the Solvatochromic Response of Amino Acid Functionalized Chromophores, *J. Phys. Chem. B* **2007**, 111(25), 7224-7233.

## LIST OF COMMUNICATIONS

1. El-Sayed, M.; Schmidt, C.; Spange, S.; Kricheldorf, H.: Hydrophilically Functionalized Michler's Ketone Derivatives as Polarity Probes for Different Solid Materials, Berliner Polymerntage **2000**, Poster (P 64, page 127), Berlin, 9. – 11 October **2000**.
2. El-Sayed, M.; Walfort, B.; Rueffer, T.; Lang, H.; Spange, S.: AMINO ACID FUNCTIONALIZED CHROMOPHORES AS BRICKS FOR NANO-STRUCTURES, Herbstschule of Graduate College **2003**, Poster, Großbothen, 16. – 18 October **2003**.
3. El-Sayed, M.; Lehmann, M.: Synthesis and Characterization of Acceptor-substituted Triphenylene Derivatives, 33. Topical Meeting on Liquid Crystals, Arbeitstagung Flüssigkristalle **2005**, Poster (P 26), Paderborn, 16. – 18 March **2005**.

## LECTURES

1. *Crystal structures and the solvent influence on the UV/Vis absorption spectra of novel functionalized aromatic amino ketones*, GDCh-Kolloquien, October **2001**, Chemnitz University of Technology, Chemnitz, Germany.
  2. *Functional Aromatic Amino Ketones as UV/Vis probes For various liquid and solid environments*, DFG Research Group GRK 829/1, Accumulation of Single Molecules to Nanostructures, April **2003**, Chemnitz University of Technology, Chemnitz, Germany.
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## COMPUTER SKILLS

*Windows, Word, Excel, Origin, Power Point, Chem. Draw, Paint, Adobe Acrobat, NMR, FT-IR, UV/Vis Programmes.*

## KNOWN LANGUAGES

*Arabic, English, and German*

## REFERENCES

1. Prof. Dr. **Hardy Mueller**, Westsächsische Hochschule Zwickau, Fachbereich Maschinenbau und Kraftfahrzeugtechnik, Fachgruppe Textil- und Ledertechnik Klinkhardtstraße 30, 08468 Reichenbach, Germany.  
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  2. Dr. **Matthias Lehmann**, Non-Classical Synthetic Methods, Institut of Chemistry, Chemnitz University of Technology, Strasse der Nationen 62, 09111 Chemnitz, Germany  
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  3. Dr. **Walid Fathala Mohamed**, Suez Canal University, Faculty of Engineering and Technology, Department of Mathematical and Natural Science, Port-said, Egypt.  
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  4. Dr. **Amal Mahmoud Youssef Moustafa**, Suez Canal University, Faculty of Science, Department of Chemistry, Ismailia, Egypt.  
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