

## Curriculum Vitae

**Family Name:** Bassioni  
**First Name:** Ghada  
**Date of Birth:** 21.02.74  
**Current Position:** Professor of Chemistry  
**Affiliation:** Ain Shams University  
Faculty of Engineering  
Chemistry Division  
Physics and Engineering  
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Cairo, Egypt

**Joint appointment:** Project Manager, Supreme Council of Universities, Cairo, Egypt  
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### 1. Degrees, Fields, Institution, and Date

<b>Degree</b>	<b>Field</b>	<b>Institution</b>	<b>Date</b>
Ph.D. (Dr. rer. nat.)	Organometallic Chemistry	Technische Universität München, Munich, Germany Collaboration between the	October 2004
M.Sc.	Inorganic and Analytical Chemistry	Technische Universität München, Munich, Germany and the Ain Shams University, Cairo, Egypt	November 2000
B.Sc.	Chemistry	Ain Shams University, Cairo, Egypt	June 1996
German/ Egyptian High School Diploma	Science	German School (Deutsche Schule der Borromäerinnen DSB), Cairo, Egypt	June 1992

### 2. Employment History

- Since April 2020: Project Manager, Energy Efficiency- Accompanying Measures, Supreme Council of Universities, funded by Kreditanstalt fuer Wiederaufbau – Development Bank).

- September 2012 – August 2021: Head of the Chemistry Division, Faculty of Engineering Ain Shams University, Cairo, Egypt.
- December 2020- April 2021: Visiting Professor, Institute for Advanced Study, Technische Universität München, Munich, Germany, partly funded by the Bavarian State Ministry for Science, Research and the Arts, visiting professors short-term program.
- Since March 2018: Professor of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt.
- September 2017 – January 2021: Project officer and Coordinator of the Egypt-Germany, Egypt-Japan and Egypt-Italy Collaboration, Science and Technology Development Fund (STDF), Ministry of Higher Education and Scientific Research, Cairo, Egypt.
- June 2018- January 2019: Visiting Professor, Institute for Advanced Study Technische Universität München, Munich, Germany, partly funded by the Bavarian State Ministry for Science, Research and the Arts, visiting professors short-term program.
- October 2017 – January 2020: Vice Director of the International Collaboration Office, Faculty of Engineering, Ain Shams University.
- March 2017-September 2017: Fulbright Fellow, University of Maryland at College Park, Mechanical Engineering Department, USA.
- September 2012- March 2018: Associate Professor, Faculty of Engineering Ain Shams University, Cairo, Egypt.
- July 2015-September 2015: August-Wilhelm Scheer Professorship (Funded by the Excellence Initiative), at the Technische Universität München, Munich, Germany
- Since September 2013: Project officer and Coordinator of several international collaborations like the one with Russia, Japan and South Korea, Science and Technology Development Fund (STDF), Ministry of Higher Education and Scientific Research, Cairo, Egypt.
- September 2012- August 2013: Associate Professor and Coordinator of the Environmental Engineering Department, Chemical Engineering Program, The British University in Egypt (BUE), El-Sherouk City, Egypt.
- July 2012 – August 2012: Assistant Professor, Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt.
- November 2011 – June 2012: Assistant Professor, Department of Chemistry, Faculty of Engineering Ain Shams University and on leave from the Chemical Engineering Program, The Petroleum Institute, Abu Dhabi, United Arab Emirates.
- August 2009 – November 2011: Assistant Professor, Chemical Engineering Program, The Petroleum Institute, Abu Dhabi, United Arab Emirates and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt, as an Assistant Professor.

- August 2008 – August 2009: Assistant Professor, joint appointment: Chemical / Petroleum Engineering Programs, The Petroleum Institute, Abu Dhabi, United Arab Emirates and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt, as an Assistant Professor.
- August 2007 – 2008: Assistant Professor, joint appointment: Arts and Sciences Chemistry / Petroleum Engineering Programs, The Petroleum Institute, Abu Dhabi, United Arab Emirates and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt, as an Assistant Professor.
- April 2007- July 2007: Postdoc fellow at the Chair for Construction Chemicals, Chemistry Department, Technische Universität München, Munich, Germany and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt as an Assistant Professor.
- April 2006- March 2007: Postdoc fellow of the „HWP II Programm zur Förderung von Frauen in der Bundesrepublik Deutschland in Forschung und Lehre“ for promoting highly qualified women in Germany. Execution of the scientific work at the Chair for Construction Chemicals, Chemistry Department, Technische Universität München, Munich, Germany and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt as an Assistant Professor.
- October 2005-March 2006: Postdoc and scientific employee at the Chair for Construction Chemicals, Chemistry Department, Technische Universität München, Munich, Germany and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt as an Assistant Professor.
- November 2004- September 2005: Assistant Professor at the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt.
- January 2001- October 2004: Scientific employee and Ph.D. student at the Inorganic Institute of the Technische Universität München, Munich, Germany and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt, as a lecturer.
- December 2000: Lecturer at the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt.
- March 1997-November 2000: Assistant Lecturer at the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt.
- November 1996 - March 1997: Scientific researcher at the Department of Siting and Environment of the National Center for Nuclear Safety and Radiation Control, Nasr City, Cairo, Egypt.

### 3. Teaching

- **Quantitative and Qualitative Chemistry** Lab for the 1<sup>st</sup> Grade students at the Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- **Chemistry for Engineers** lectures for the 1<sup>st</sup> Grade students at the Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- **Quantitative Chemistry for Biochemists** lab and tutorial for the 1<sup>st</sup> Semester students of the Faculty of Biochemistry and Biotechnology of the Technische Universität München, Munich, Germany.
- **Quantitative Chemistry for Chemists** lab and tutorial for the 3<sup>rd</sup> Semester students of the Faculty of Chemistry of the Technische Universität München, Munich, Germany.
- **General Chemistry PSCI034** lab and lecture for Foundation Students, The Petroleum Institute, Abu Dhabi, UAE.
- **General Chemistry CHEM 131** lab for Freshmen Students, The Petroleum Institute, Abu Dhabi, UAE.
- **Strategies for Team-based Engineering Problem solving for Sophomore Students STPS 201**, The Petroleum Institute, Abu Dhabi, UAE.
- **Strategies for Team-based Engineering Problem solving STPS 251**, The Petroleum Institute, Abu Dhabi, UAE.
- **Interfacial Science CHEG 555** for graduate Chemical Engineering Masters' students, The Petroleum Institute, Abu Dhabi, UAE.
- **Physical Chemistry CHEG 301** lab, The Petroleum Institute, Abu Dhabi, UAE.
- **Special topics on research: "Basic introduction to production chemicals in the oil industry"** CHEG 494 lab and lecture, The Petroleum Institute, Abu Dhabi, UAE.
- **Special topics on research: "Advanced approaches to oilfield and construction chemicals"** CHEG 494 lab and lecture, The Petroleum Institute, Abu Dhabi, UAE.
- **Introduction to polymer science and engineering CHEG380** lab and lecture, The Petroleum Institute, Abu Dhabi, UAE.
- **Introduction to Thermodynamics CHEG 222** lecture, The Petroleum Institute, Abu Dhabi, UAE.
- **Polymer Chemistry ECHM 360** lecture and lab, Ain Shams University, Faculty of Engineering, New Programs, Cairo, Egypt 2011/2012.
- **Environmental Engineering and Risk Analysis (ENVCE03H02)** lecture and tutorial, Chemical Engineering Program, Environmental Engineering department, The British University in Egypt, El-Sherouk City, Egypt 2012/2013..
- **Individual Research Projects in Environmental Engineering (EG4012/4514: level 4 (BEng))** lecture and lab, Chemical Engineering Program, Environmental Engineering department, The British University in Egypt, El-Sherouk City, Egypt 2012/2013.

- **Sanitary Chemistry for Engineers (postgraduate course):** lecture, Faculty of Engineering, Ain Shams University (since 2013).
- **Water Chemistry (postgraduate course):** lecture, Faculty of Engineering, Ain Shams University (since 2013).

#### 4. Supervision

- Supervision in the scope of the advanced research internship at the Technische Universität München, Munich, Germany:
  1. Philipp Selig
  2. Christine Deißler
  3. Claudia Wanninger
  4. Nadia Zouaoui
  5. Daniela Kampen
  6. Olga Blank
  7. Maxime Loussouarn
  8. Yi Tan
  9. Pierre Göppert
  10. Thomas Diensthuber
- Supervision in the scope of the contract-based research at the Petroleum Institute, Abu Dhabi, UAE:
  1. Mohammed I. L. Abutaqiya
  2. Mohamed Tariq Mohamed Najeeb AlHamami
  3. Mohammed Issam Subhi Abu Samen
  4. Syed Taha Haider Taqvi
  5. Muhammad Jaffar Umar Mohammad Umar
  6. Jehad Mamdouh Fayez Abdulla Hararah
  7. Ismail I.I Alkhatib
  8. Ayesha Obaid Sultan Mohamed Al Kalli Al Zaabi
  9. Shayma Saeed Ebrahim A. Al Mazrooei
  10. Hiba Khalid Aoudi
  11. Amina Sultan S M Al Badi
  12. Amena Adnan Mohamed Sallam Hasan
  13. Khalfan Al Marzouqui
  14. Abdel Malek Muniem
  15. Joel Fawaz
- Supervision of foreign internship students visiting The Petroleum Institute, Abu Dhabi, UAE:

1. From the Indian Institute of Technology: Arjun Satish; present at The Petroleum Institute twice: in summer 2009 and in November 2009.
  2. From the Technische Universität München, Munich, Germany: Maike Mueller; present at The Petroleum Institute from October-December 2010.
  3. From ETH Zurich, Switzerland: Corinna Mueller; present at The Petroleum Institute from March-June 2011.
  4. From The American University of Sharjah, UAE: George Yacoub; present at The Petroleum Institute from May- August 2011.
- Supervision of Master students at The Petroleum Institute, Abu Dhabi, UAE:
    1. Mohammed Mohammed Ali, Master student (Topic: Compatibility study of commercially available chemical additives to oil well cement applied in ADNOC oilfields), The Petroleum Institute 2012 (collaborative supervision with Dr. Ali Almansoori) (completed).
    2. Syed Taha Taqvi, Master student (Topic: Wettability study of calcium carbonate using zeta-potential measurements), The Petroleum Institute 2013 (collaborative supervision with Dr. Ali Almansoori) (completed).
    3. Khalfan Al Marzouqi, Master student (Topic: Chemical Characterization of Asphaltenes from the Middle East), The Petroleum Institute 2014 (collaborative supervision with Dr. Saeed Al Hassan) (completed).
  - Supervision of Masters students at the Ain Shams University, Cairo, Egypt, and abroad:
    1. Ayat Taha, Master student (M. Sc. Topic: Prediction of the physico-chemical properties of Polymers based on computational intelligence techniques), Faculty of Science, Al-Azhar University (collaborative supervision with Assoc. Prof. Dr. Neveen I. Ghali) (completed).
    2. Ali Korin (M. Sc. Topic: Study on metal leaching from stainless steel cookware during food preparation and storage), Faculty of Science, Al-Azhar University (collaborative supervision with (late Prof. Dr. Hassan Abdel Dayem), Prof. Dr. Alaa El-Din Salama and Prof. Dr. Zeinab Ibrahim) (completed).
    3. Ayman Ali Hassan (M.Sc. Topic: Schiff Bases as ligands for organometallic compounds used as nanomagnets), Faculty of Science, Ain Shams University (collaborative supervision with Prof. Dr. Hamed Derbala and Prof. Dr. Ahmed Kamel) (completed).
    4. Omar Yousri (M.Sc. Topic: Effect of nanoparticle on anticorrosive performance of polymer matrix composite coating), Faculty of Engineering, Ain Shams University (collaborative supervision with Prof. Dr. Brajendra Mishra, Colorado School of Mines, USA) (completed).

5. Abdelrahman Khalaf (M.Sc. Topic: Developing New Catalytic Membrane technology for filtration), Faculty of Engineering, Ain Shams University (collaborative supervision with Prof. Dr. Mahmoud Abdel Azeem and Prof. Dr. Fritz E. Kuehn, Technical University Munich, Germany) (completed).
6. Mahmoud Shaaban (M.Sc. Topic: New treatment for industrial wastewater of batteries industry), Faculty of Engineering, Ain Shams University, collaborative supervision with Prof. Dr. Mohamed El-Husseiny El-Nady (completed).
7. Nehad Ahmed (M.Sc. Topic: Study of Alternative Green Energy Resources from Agricultural Residues), Faculty of Engineering, Ain Shams University (collaborative supervision with Prof. Dr. Mahmoud Abdel Azeem and Prof. Dr. Ashwani Gupta, University of Maryland, USA) (completed).
8. Rehab Ibrahim (M.Sc. Topic: One dimensional molecular wires using tailored-to-the-purpose chemistry), Faculty of Science, Ain Shams University (collaborative supervision with Prof. Dr. Fouad El-Husseiny and Prof. Dr. Wilfred van der Wiel, University of Twente, Netherlands) (ongoing).
9. Amr Alaa (M.Sc. Topic: Novel Materials with Energy Applications), Faculty of Engineering, Ain Shams University (collaborative supervision with Prof. Dr. Rawia Mohamed and Prof. Dr. Ashwani Gupta, University of Maryland, USA) (completed).
10. Karim Hassan (M.Sc. Topic: Design optimization of Electrolysis in waste water treatment), Faculty of Engineering, Ain Shams University (collaborative supervision with Prof. Dr. Mahmoud Abdel Azeem and Prof. Dr. Ashwani Gupta, University of Maryland, College Park, USA) (completed).
11. Reham Farid (M.Sc. Topic: Using magnesium hydroxide in protective coating), Faculty of Engineering, Ain Shams University (collaborative supervision with Prof. Dr. Rawia Mohamed and Prof. Dr. Fritz E. Kuehn, Technical University Munich, Germany) (ongoing).
12. Mayar Mohamed (M.Sc. Topic: Effect of Magnesia on the mechanical properties of macro-molecular composites.) Faculty of Engineering, Ain Shams University (collaborative supervision with Prof. Dr. Rawia Mohamed and Prof. Dr. Fritz E. Kuehn, Technical University Munich, Germany) (ongoing).
13. Mohamed Abdelaal (M.Sc. Topic: Effect of dopants on Structure and Properties of Fullerenes), Faculty of Engineering, Ain Shams University (collaborative work with Prof. Dr. Hazem Abdellatif and Prof. Dr. Moritz Riede, University of Oxford, UK) (completed).
14. Esraa Kamal (M.Sc. Topic: Radiation crosslinking of some hydrogels and possible applications in water treatment), Faculty of Science, Ain Shams

University (collaborative supervision with Prof. Dr. Mohamed Sabry Abdel-Mottaleb and Dr. Mohamed Mohamady Ghobashy) (ongoing).

15. Tasneem Khaled (M.Sc. Topic: The colorimetric ions sensor in aqueous solutions based on radiation prepared hydrogels), Faculty of Science, Al-Azhar University (collaborative supervision with Prof. Dr. Amal Salah, Dr. Ghalya Asaad, Dr. Nabila Mazyad) (ongoing).
  16. Amira Masoud Abo-Alnaga (M.Sc. Topic: Preparation and characterization of carbon nanoparticle materials used for industrial applications), Faculty of Science, Ain Shams University (collaborative supervision with Prof. Dr. Mohamed Abdel-Hay Ahmed) (ongoing).
  17. Manar Mostafa Muhammed Abdelraof (M.Sc. Topic: Characterization of doped metal oxide semiconductors by using thermoluminescence technique), Faculty of Science, Ain Shams University (collaborative supervision with Prof. Dr. Mohamed Fathy El-Shahat) (ongoing).
- Supervision of Ph.D. students at the Ain Shams University, Cairo, Egypt and abroad:
    1. Hala Ibrahim (Ph. D. Topic: Environmental Evaluation study of Edku Lake using Laser Spectrochemical Analytical Techniques), NILES, Cairo University (collaborative supervision with Prof. Dr. Mohamed Abdel Harith, Prof. Dr. M. El Sherif M. Gohar and Dr. Awoldia Nasif) (ongoing).
    2. Omar Yousri (Ph.D. Topic: ), Institut national de la recherche scientifique INRS, Quebec, Canada (collaborative work with Prof. Dr. Federico Rosei) (ongoing).
    3. Eman Torad (Ph.D. Topic: Polyglycolic acid from the direct polymerization of C1 feedstock), Faculty of Science, Ain Shams University (collaborative supervision with Prof. Dr. Stephen A. Miller, University of Florida, USA) (discontinued).
    4. Mohamed Atef (Ph.D. Topic: Factors affecting the physico-mechanical properties of cement paste grafted with rubber waste), Faculty of Engineering, Ain Shams University (collaborative work with Prof. Dr. Hazem Abdellatif and Prof. Dr. Nahed Abdelsallam) (ongoing).
    5. Basant Hany (Ph.D. Topic: Factors affecting the design of jointed composite plates), Faculty of Engineering, Ain Shams University (collaborative work with Prof. Dr. Hazem Abdellatif and Prof. Dr. Nahed Abdelsallam) (completed).
    6. Kareem Fathy (Ph.D. Topic: Analysis of the mechanical behavior of rubber composites), Faculty of Engineering, Ain Shams University (collaborative work with Prof. Dr. Hazem Abdellatif and Prof. Dr. Nahed Abdelsallam) (completed).



## 5. Publications in scientific journals (Total number: 60)

1. Ghada Bassioni, *Metal derivatives of 9-oxabicyclo[3.3.1]nona-2,6-diene*, Dissertation, ISBN 3-89963-087-4, Dr. Hut Verlag, München, **2004**.
2. Ghada Bassioni, Fernando S. Delgado, Matthieu Jaeggy, Frank H. Köhler, Stephan Nogai, Catalina Ruiz-Pérez, *9-Oxabicyclo[3.3.1]nonadiene. Short Access and Allylic Bromination*, Zeitschrift für Naturforschung B, Vol. 60, pp.1143-1148, **2005**.
3. Ghada Bassioni, Frank H. Köhler, *Matallation of 9-Oxabicyclo[3.3.1]nonadiene. The Deprotonation Path to Bridgehead Olefins*, European Journal of Organic Chemistry, pp.2795-2802, **2006**.
4. Johann Plank, Ghada Bassioni, *Adsorption of Carboxylate on CaCO<sub>3</sub> surface*, Zeitschrift für Naturforschung B **2007**, 62b, 1277-1284.
5. Alev Günyar, Ming-Dong Zhou, Markus Drees, Paul N. W. Baxter, , Ghada Bassioni, Eberhardt Herdtweck, Fritz E. Kühn, *Studies of bis(halogeno) dioxomolybdenum(VI)-bipyridine complexes: Synthesis and catalytic activity*, Dalton Transactions, **2009**, Vol. 40, 8746-8754.
6. Ghada Bassioni, *Studies on Halide-Induced Corrosion on Different Types of Steel*, International Review of Chemical Engineering (rapid communications), vol. 1, no. 6, pp. 547 -551 November **2009**.
7. Ghada Bassioni, *The influence of cement composition on superplasticizers' efficiency*, International Journal of Engineering, Volume 4, Issue2, pp. 577-587, November **2009**.
8. Ghada Bassioni, *Production Chemicals for the Oil and Gas Industry (book review)*, International Review of Chemical Engineering (rapid communications), vol. 2 , no. 3, pp. 475 -477, **2010**.
9. Avin Pillay, Mirella ElKadi, Sai C. Fok, Fadi Feghali, Ghada Bassioni, Sasi Stephen, *Tracking chloride and metal diffusion in proofed and unproofed concrete matrices using ablative laser technology (ICP-MS)*, Natural Science, vol. 2, no. 8, pp. 809-816, **2010**.
10. Ghada Bassioni, *Mechanistic aspects on the influence of inorganic anion adsorption on oilfield scale inhibition by citrate*, Journal of Petroleum Science and Engineering, vol. 70, pp. 298-300, **2010**.
11. Mirella ElKadi, Avin Pillay, Sai C. Fok, Fadi Feghali, Ghada Bassioni, Sasi Stephen, *Depth profiling (ICP-MS) study of toxic metal buildup in concrete matrices: Potential environmental impact*, Sustainability, vol. 2, no. 10, pp. 3258-3269, **2010**.

12. Ghada Bassioni, Avin Pillay, Mirella ElKadi, Sai C. Fok, Fadi Feghali, Sasi Stephen, *Tracking traces of transition metals present in concrete mixtures by inductively-coupled plasma mass spectrometry studies*, European Journal of Mass Spectrometry, vol.16, no. 6, pp. 679–692, **2010**.
13. Fathia S. Mohammad, Essam A. H. Al Zubaidy, Ghada Bassioni, *Effect of aluminum leaching process of cooking wares on food*, International Journal of Electrochemical Science, vol.6, pp. 222–230, **2011**.
14. Ghada Bassioni, *Self-compacting Concrete (book review)*, International Review of Chemical Engineering (rapid communications), Vol. 3. (1), pp. 99-100, **2011**.
15. Avin Pillay, Ghada Bassioni, Sasi Stephen, Fritz Kühn, *Depth profiling (ICP-MS) study of trace metal 'grains' in solid asphaltenes*, Journal of the American Society for Mass Spectrometry, Vol. 22 (8), pp. 1403-1408, **2011**.
16. Issam Kobrsi, Ghada Bassioni, *A dimeric copper (I) tetrazolate complex: Bis (triisopropylphosphine)bis- $\mu$ -(5-diisopropylamino-1,2,3,4-tetrazolate) dicopper (I)*, Acta Crystallographica Section C, Volume 67, Part 7, **2011**.
17. Yasser Al Wahedi, Jafar Awayes, Ghada Bassioni, *Influence of Classical & Modern Superplasticizers on the Chemical and Rheological Behavior of Oil Well Cement- A comparative study*, Advances in cement research, Vol. 23 (4), pp. 175-184, **2011**.
18. Essam A. H. Al Zubaidy, Fathia S. Mohammed, Ghada Bassioni, *Effect of pH, salinity and temperature on aluminum cookware leaching during food preparation*, International Journal of Electrochemical Science, Vol. 6 (12), pp. 6424-6441, **2011**.
19. Ghada Bassioni, *A study towards "greener" construction*, Applied Energy, Vol. 93, pp.132-137, **2012**.
20. Fathia S. Mohammed, Essam A. H. Al Zubaidy, George Yacoub, Ghada Bassioni, *Aluminum Corrosion in Vegetable Solutions- a contribution to dietary intake*, International Journal of Electrochemical Science, Vol. 7, pp. 363-375, **2012**.
21. Ghada Bassioni, Fathia S. Mohammad, Essam A. H. Al Zubaidy, Issam Kobrsi, *Risk assessment of using aluminum foil in food preparation*, International Journal of Electrochemical Science, Vol. 7, pp. 4498-4509, **2012**.
22. Ghada Bassioni, Fareed Abdulla, Zeinab Morsy, Nabil El-Faramawy, *Evaluation of Naturally Occurring Radioactive Materials (NORM) in Inorganic and Organic Oilfield Scales from the Middle East*, Archives of Environmental Contamination and Toxicology, Vol.62 (3), pp.361-368, **2012**.
23. Ghada Bassioni, Mohammed Mohammed Ali, *Studying the physico-chemical properties of commercially available oil-well cement additives using calorimetry*, Journal of Thermal Analysis and Calorimetry, Vol. 111(1), pp.295-303, **2013**.

24. Ghada Bassioni, Mohammed Mohammed Ali, *The effect of counterion in lignosulfonates as oil-well cement retarders*, *Advances in Cement Research*, Vol. 25 (5), pp. 245-253, **2013**.
25. Fathia s. Mohammad, Essam A. H. Al Zubaidy, Ghada Bassioni, *A comparison of Aluminum Leaching Processes in Tap and Drinking Water*, *International Journal of Electrochemical Science*, 9, pp. 3118- 3129, **2014**.
26. Syed Taha Taqvi, Ali Almansoori, Ghada Bassioni, *Modeling the Impact of Wettability Alterations on Calcium Carbonate System for Crude Oil and asphaltenic solutions*, *Industrial and Engineering Chemistry Research*, Vol. 53, pp. 4773-4777, **2014**.
27. Ghada Bassioni, Nabil El-Faramawy, *The Egyptian Western Desert - radioactivity and chemical analysis*, *European Journal of Scientific Research*, Vol. 127 (2), pp. 121-128, **2014**.
28. Ghada Bassioni, Syed Taha Taqvi, *Wettability studies using Zeta Potential Measurements*, *Journal of Chemistry: Petroleum Chemistry*, ID 743179, 6 pages, **2015**.
29. Ghada Bassioni, Ali Korin, Alaa El-Din Salama, *Stainless Steel as a Source of Potential Hazard due to Metal Leaching into Beverages*, *International Journal of Electrochemical Science*, 10, pp. 3792- 3802, **2015**.
30. Ghada Bassioni, Mennat Allah Labib, Nabil El-Faramawy, *Unnoticed exposure to radon in Cairo's subway*, *European Journal of Scientific Research*, Vol. 133 (4), pp. 471-481, **2015**.
31. Ghada Bassioni, Kirollos Ashraf, Amr Abdel Hameed, *Risk assessment using ICP-MS of heavy metals in ground water in Upper Egypt*, *Journal of Natural Resources and Development*, 5, pp. 65-70, **2015**.
32. Asmaa Saber, Fathia S. Mohammad, Essam A.H. Al Zubaidy, Ghada Bassioni, *Does Aluminum really enhance Alzheimer disease?- Medical Impact of aluminum on human health*, *European Journal of Scientific Research*, Vol. 136, pp. 10-21, **2015**.
33. Syed Taha Taqvi, Ali Almansoori, Ghada Bassioni, *Understanding the Role of Asphaltene in Wettability Alteration using Zeta Potential Measurements*, *Energy and Fuels*, Vol. 30 (3), pp. 1927-1932, **2016**.
34. Ahmed K. Elziaty, Ghada Bassioni, Ayman M. A. Hassan, Hamed A. Derbala, M. S. Abdel-Aziz, *A Synthetic Approach to Pyrazolopyranopyrimidinones and Pyrazolopyranooxazinones as Antimicrobial Agents*, *Journal of Chemistry*, Volume **2016**, Article ID 5286462, 7 pages.
35. Ghada Bassioni, Mohammed Mohammed Ali, Ali Almansoori, Gabriele Raudaschl-Sieber, Fritz E. Kühn, *Rapid Determination of complex oil well cement chemistry using mathematical models*, *RSC Advances*, 7, 5148-5157, **2017**.

36. Mohamed M. Ghobashy, Ghada Bassioni, *pH stimuli- responsive poly(acrylamide- co- sodium alginate) hydrogels prepared by gamma- radiation for improved compressive strength of concrete*, *Advances in Polymer Technology*, 37 (6), 2123-2133, **2017**.
37. Omar M. Yousri, , Mohamed Hazem Abdellatif, Ghada Bassioni, *Effect of Al<sub>2</sub>O<sub>3</sub> Nanoparticles on the mechanical and physical properties of epoxy composite*, *Arabian Journal for Science and Engineering*, doi.org/10.1007/s13369-017-2955-7, **2017**.
38. Abdelrahman Khalaf, Ibrahim El-Sherbiny, Mahmoud Abdelazeem, Fritz E. Kühn, Ghada Bassioni, *Influence of macromolecular additives on mechanical properties of polyether sulfone and polysulfone ultrafiltration membranes*, *Desalination and Water Treatment*, 100, 29–37, **2017**.
39. Ahmed K. Elziaty, Ghada Bassioni, Ayman M. A. Hassan, Hamed A. Derbala, *Synthesis of Bioactive Heterocycles from 6-amino-4-(2-chloro-5-nitrophenyl)-3-methyl-1, 4-dihydropyrano [2, 3-c] pyrazole-5-carbonitrile*, *European Chemical Bulletin* 6 (12), 544-549, **2018**.
40. Joseph S. Feser, Ghada Bassioni, Ashwani K. Gupta, *Effect of Naphthalene Addition to Ethanol in Distributed Combustion*, *Applied Energy* 216, 1-7, **2018**.
41. Kiran Raj Burra, Ghada Bassioni, Ashwani K. Gupta, *Hydrogen Generation from Catalytic Transformation of H<sub>2</sub>S*, *International Journal of Hydrogen Energy*, 43 (51), 22852-22860, **2018**.
42. Alaa M. A. Hussein, Kiran Raj Burra, Ghada Bassioni, Rawya M. Hammouda, Ashwani K. Gupta, *Production of CO from CO<sub>2</sub> over mixed-metal oxides derived from layered double-hydroxides*, *Applied Energy* 235, 1183–1191, **2019**.
43. Sherif A. Younis, Mohammed M. Ghobashy, Ghada Bassioni, Ashwai K. Gupta, *Tailored Functionalized Polymer Nanoparticles using Gamma Radiation for Selected Adsorption of Barium and Strontium in Oilfield Wastewater*, *Arabian Journal of Chemistry*, 13 (2), 3762-3774, **2020**.
44. Omar Abdelkarim, Mohamed Hazem Abdellatif, Daaa Khalil, Ghada Bassioni, *FTIR and UV in steel pipeline coating application*, *International Journal* 18 (69), 130-135, **2020**.
45. Syed Taqvi, Ghada Bassioni, *Understanding Wettability through Zeta Potential Measurements* book chapter in *Wettability and Interfacial Phenomena- Implications for Material Processing*, published **2019**, DOI: 10.5772/intechopen.84185.
46. Omar Abdelkarim, Jasneet Kaur, Jiabin Liu, Fabiola Navarro-Pardo, Hadis Zarrin, Aycan Yurtsever, Ghada Bassioni, Zhiming M Wang, Gurpreet Singh Selopal, Federico Rosei, *Two-dimensional functionalized hexagonal boron nitride for quantum dot photoelectrochemical hydrogen generation*, *Journal of Materials Chemistry A*, 8(39), pp. 20698-20713, **2020**.

47. Wolfram Schmidt, Nonkululeko Radebe, Mike Otieno, Kolawole Olonade, Shirin Fataei, Fatma Mohamed, Gesine Lenore Schiewer, Mareike Thiedeitz, Angela Tetteh Tawiah, Risikat Dauda, Ghada Bassioni, Melissa Telong, Andreas Rogge, *Challenges, opportunities and potential solution strategies for environmentally and socially responsible urban development of megacities in Africa*, RILEM Spring Convention and Conference, pp. 119-132, **2020**.
48. Rehab I. Yousef, Naglaa F.H. Mahmoud, Fouad I. El-Hosiny, Fritz E. Kühn, Ghada Bassioni, *Electric and Magnetic properties of Cobalt, Copper and Nickel Organometallic Complexes for Molecular Wire*, Ain Shams Engineering Journal, 12 (2) pp. 2135-2144, **2021**.
49. Tasneem K. El-damhougy, Ahmed S. I. Amal, Gaber A. Ghalia, N. A. Mazied, Ghada Bassioni, *Radiation synthesis for a highly sensitive colorimetric hydrogel sensor-based p(AAc/AMPS)-TA for metal ion detection*, Results in Materials, Volume 9, March 2021, 100169, **2021**.
50. Friedrich von Hoessle, Mayar Mohamed, Reham Farid, Rawia M. Hammouda, Fritz E. Kühn, Ghada Bassioni, *Interfacial phenomena of magnesium hydroxide micro phases*, Ain Shams Engineering Journal, in press, **2021**.
51. Mohamed Abdelaal, Mohamed Hazem Abdellatif, Moritz Riede, Ghada Bassioni, *Studying the Effect of High Substrate Temperature on the Microstructure of Vacuum Evaporated TAPC: C60 Organic Solar Thin Films*, Materials **2021**, 14(7), 1733; <https://doi.org/10.3390/ma14071733>.
52. Kareem Fathy Abo Elenien, N.A. Azab, Ghada Bassioni, Mohamed Hazem Abdellatif, *Physico-chemical properties of rubber particles-polyester composite using FTIR analysis*, Journal of Mechanical Engineering Research and Developments, 44 (6), pp. 27-37, **2021**.
53. Ghada Bassioni, Reham Farid, Mayar Mohamed, Rawia M Hammouda, Fritz Elmar Kühn, *Effect of different parameters on caustic magnesia hydration and magnesium hydroxide rheology: A Review*, Materials Advances, DOI: 10.1039/D0MA00887G, 2, pp. 6519–6531, **2021**.
54. Friedrich von Hoessle, Reham Farid, Mayar Mohamed, Rawia M Hammouda, Fritz E Kühn, Ghada Bassioni, *The Effect of Different Hydration Media on Magnesia*, Discover Materials, <https://doi.org/10.1007/s43939-021-00017-9>, 1:17, **2021**.
55. Bassant Hany Mousa, NA Azab, Ghada Bassioni, Mohamed Hazem Abdellatif, *Assessment of the Damage Resulting from Drilling Holes in Waste Tire Rubber Polyester Composite Laminates*, Waste and Biomass Valorization, 12, pp. 4069–4080, **2021**.
56. Mohamed Atef, Ghada Bassioni, Nahid Azab, Mohamed Hazem Abdellatif, *Assessment of cement replacement with fine recycled rubber particles in*

- sustainable cementitious composites*, Journal of the Mechanical Behavior of Materials 30:59–65, **2021**.
57. Mahmoud Abdel Wahab Soliman, Ali Fawzy Hamza, Nagwan Fahmy Zahran, Ghada Bassioni, *Microbiological study and insecticidal potential of purified extract from Streptomyces sp. on the larvae of Galleria mellonella*, Journal of Plant Diseases and Protection, 128 (6), 1565-1574, **2021**.
  58. Omar Abdelkarim, Gurpreet S. Selopal, Karthik Suresh, Fabiola Navarro-Pardo, Pawan Kumar, Kulbir K. Ghuman, Aycan Yurtsever, Ghada Bassioni, Zhiming M. Wang, Federico Rosei, *Role of Surface Engineering of Hybrid Structure for High Performance Quantum Dots Based Photoelectrochemical Hydrogen Generation*, Chemical Engineering Journal, 429, 132425, **2022**.
  59. Mohamed Atef, Ghada Bassioni, Nahid A Azab, Mohamed Hazem Abdellatif, *On the Acoustical Performance of Eco-Friendly Cementitious Composite with Recycled Fine Rubber Particles*, Construction and Building Materials 325, 126830, **2022**.
  60. Mohamed Atef, Ghada Bassioni, Nahid Azab, Mohamed Hazem Abdellatif, *Evaluating the Morphology and Physicomechanical Properties of ‘Green’ Cement Paste with Fine Rubber Particles*, International Journal of Mechanical Engineering 7 (1), 1084-1091, **2022**.
  61. Omar M. Yousri, Mohamed Hazem Abdellatif, Ghada Bassioni, Brajendra Mishra, *Anti-corrosion performance of alumina nano-fillers incorporated in epoxy-resin coatings*, International Journal of Electrochemical Science, accepted, **2021**.
  62. Omar M. Yousri, Mohamed Hazem Abdellatif, Ghada Bassioni, *Mechanical properties of pipelines coating consisting of epoxy resin reinforced by alumina nanoparticles exposed to ultraviolet radiation*, Composites Part B: Engineering, submitted, **2021**.
  63. Ghada Bassioni, Alaa El-Din Salama, Zeinab Abdel Hamid, Ali Korin, *Hidden dangers of metal leaching from stainless steel cookware into food*, Food Additives and Contaminants, submitted, **2021**.
  64. Ghada Bassioni, Mohammed Mohammed Ali, Ali Almansoori, Fritz E. Kühn, *Studying synergistic effects of oil-well-cement additives using mathematical models*, RSC Advances, submitted, **2021**.

## 6. Papers Presented at Conferences (Total number: 30)

1. Ghada Bassioni, Johann Plank, *Untersuchungen zur kompetitiven Adsorption anorganischer Anionen am Modellsystem Kalksteinmehl*: GDCh meeting on construction materials, Karlsruhe, Germany **2006**.

2. Johann Plank, Ghada Bassioni, Zhimin Dai, Helena Keller, Bernhard Sachsenhauser, Nadia Zouaoui, *Neues zur Wechselwirkung zwischen Zementen und Polycarboxylat-Fließmittel.*, ibausil conference, Weimar, Germany, Vol. I, pp. 579–598, **2006**.  
[engl.: Plank, J., Bassioni, G., Dai, Z., Keller, H., Sachsenhauser, B. and Zouaoui, N. (2006), Recent advances in interactions between cement and polycarboxylate superplasticizers, 16th International Conference on Building Materials - ibausil, Stark, J. (Ed.), FIB, vol. I, pp. 579–598 (in German).]
3. Ghada Bassioni, *Interaction of cement with different superplasticizers*: 2<sup>nd</sup> Ain Shams International Conference on Environmental Engineering (ASCEE II), Cairo, Egypt **2007**.
4. Ghada Bassioni, *Limestone-an inert model system of cement?*: 6<sup>th</sup> International Scientific and Practical Conference on Environmental Technology Resources, Rezekne, Latvia, **2007**.
5. Ghada Bassioni, *A solution to the CO<sub>2</sub> emission in the cement industry*: The Second international Energy 2030 Conference, Abu Dhabi, **2008**.
6. Ghada Bassioni, *Global warming and construction aspects*: Proceeding of the 7<sup>th</sup> International Scientific and Practical Conference on Environmental Technology Resources, Rezekne, Latvia, **2009**.
7. Keynote address: Ghada Bassioni, *The Petroleum Institute- not only petroleum related*: MEDMA conference on “Green buildings with drymix mortar technology”, The Petroleum Institute, Abu Dhabi, UAE, **2010**.
8. Ghada Bassioni and Francisco Vargas, *Determination of partial solubility parameters and improvement of Flory-Huggins based models for studying asphaltene stability in crude oils*, in 11<sup>th</sup> International Conference on Petroleum Phase Behavior and Fouling, New York, USA, **2010**.
9. Francisco Vargas and Ghada Bassioni, *Application and experimental validation of the One-Third rule in determining viscosity and surface tension of crude oil systems*, in 11<sup>th</sup> International Conference on Petroleum Phase Behavior and Fouling, New York, USA, **2010**.
10. Nadia Alhasani, Lana El Chaar, Ghada Bassioni, *Global Marathon For, By and About Women in Engineering and Technology*, National Engineers Week, Women’s History Month and International Women’s Day, Abu Dhabi, UAE, **2010**.
11. Ghada Bassioni, Avin Pillay, Sasi Stephen, Fritz Kühn, *Depth profiling (ICP-MS) study of trace metal 'clusters' in solid asphaltenes*, in 12<sup>th</sup> International Conference on Petroleum Phase Behavior and Fouling, London, UK, **2011**.
12. Ghada Bassioni, *Mechanistic aspects on oilfield scale mitigation to ensure optimization*, IQPC event on "Flow Assurance and Integrated Production", Abu Dhabi, UAE, **2012**.

13. Ghada Bassioni, *The role of academia in encouraging greater participation for the oil and gas industry*, Leaders of the Future Summit: Bridging the Gender Gap in Oil and Gas Industry, Abu Dhabi, UAE, **2012**.
14. Ghada Bassioni, *Mechanistic aspects on oilfield scale mitigation to ensure optimization*, SPE ATW on "Flow Assurance", Aberdeen, UK, **2012**.
15. Nabil El-Faramawy, Ghada Bassioni and Zinab Morsy, *Naturally Occurring Radioactive Materials in the Oil and Gas Industry*, 1<sup>st</sup> Ain Shams University Workshop on Oilfield Chemistry ASU WOC, Cairo, Egypt, **2012**
16. Neveen Ghali, Ghada Bassioni, *Artificial Intelligence in Chemistry: Recent Trends and Applications*, 1<sup>st</sup> Ain Shams University Workshop on Oilfield Chemistry ASU WOC, Cairo, Egypt, **2012**.
17. Ghada Bassioni, Nabil El-Faramawy, *The Middle Eastern approach to Oilfield NORM Management*, NORM and Natural Radiation Management North America Conference, Houston, USA, **2013**.
18. Ghada Bassioni, *NORM and Scale Deposition*, SPE ATW on "Flow Assurance; Tackling Tomorrow's Challenges", Oslo, Norway, **2013**.
19. Ghada Bassioni, Mennat Allah Labib, Nabil El-Faramawy, *Radon assessment in Cairo's subway*, ICES 2014 International Conference on Environmental Sciences, 21-23.01.2014, Dubai, UAE, **2014**.
20. Ayat Taha, Neveen I. Ghali, Ghada Bassioni, *Prediction of the zeta potential of polymers using computational intelligence techniques*, International Conference on Material Science and Material Engineering [MSME2014], 14.-16.03.14, Chicago, USA, **2014**.
21. Ghada Bassioni, *Membrane Fouling-Prevention and Mitigation*, Egypt-Jordan Collaboration Workshop, Amman, Jordan, **2014**.
22. Ghada Bassioni, *Scales and Asphaltenes in the oilfield*, 4<sup>th</sup> Ain Shams University Workshop on Oilfield Chemistry ASU WOC, Cairo, Egypt, **2015**.
23. Ghada Bassioni, *Current Capacity Building Schemes in Egypt*, UNESCO Chair Technology for Development, EPFL, Lausanne, Switzerland, 02.05.-4.05.**2016**
24. Omar M. Yousri, , Mohamed Hazem Abdellatif, Ghada Bassioni, *The effect of UV on the physical and mechanical properties of epoxy-based nanocomposites*, 7<sup>th</sup> International Colloids Conference, Barcelona, Spain, **2017**.
25. Ghada Bassioni, *Rheological Properties of Oil Well Cement and Prediction of Cement Rheology Using a Mathematical Model*, Rheology of Building Materials, Regensburg, Germany, March **2018**.
26. Ghada Bassioni, *Tailoring concrete recipes for limestone addition*, ICCX Russia - International Concrete Conference & Exhibition, St. Petersburg, Russia, **2018**.
27. Ghada Bassioni, *The blue-sky research – applied science and engineering interrelationship in an African context*, ISEE Africa - International Society for Environmental Engineers, Africa Chapter, Nairobi, Kenya **2019**.



28. Ghada Bassioni, Innovations and Interdisciplinary Solutions for Underserved Areas: 4th EAI International Conference, InterSol 2020, Nairobi, Kenya, March 8-9, **2020**, Proceedings
29. Kareem Fathy Aboelenien, Nahid Ibrahim Azab, Ghada Bassioni, Mohamed Hazem Abdellatif, The effect of tire rubber particles on the mechanical and physical properties of polyester, The International Conference on Applied Mechanics and Mechanical Engineering, 1075-AMME, **2020**.
30. Bassant H Mousa, Nahid A Azab, Ghada Bassioni, Mohamed H Abdellatif, *Factors affecting Failure mode and load of rubber polyester composite joint*, IOP Conference Series: Materials Science and Engineering, **1172** 012023, **2021**.
31. Ghada Bassioni, *Intra-African Cooperation – Challenges and Opportunities*, Innovations and Interdisciplinary Solutions for Underserved Areas: 5th EAI International Conference, InterSol 2022, March 22-24, 2022, Abuja, Nigeria, **2022**.

## 7. Technical Reports

- Mikhail Anisimov, Ghada Bassioni, and Elena Jouravleva, *Dynamic light scattering for asphaltene nanoparticle sizing and monitoring asphaltene aggregation in crude oil*, The Petroleum Institute, Abu Dhabi, UAE, June **2009**.

## 8. Non-technical Publications (10)

1. Ghada Bassioni, Gameli Adzaho, David Niyukuri, *Brain drain: Entice Africa's scientists to stay*, Nature 535 (7611), pp. 231-231, **2016**.
2. Ghada Bassioni, Science Migration: A Little Bavarian with Pharaonic Looks, Blog Article for the Lindau Nobel Laureate Meetings. <https://www.lindau-nobel.org/science-migration-a-little-bavarian-with-pharaonic-looks/>
3. Ghada Bassioni, Blog Article for the Next Einstein Forum: Basic vs. Applied Research and the “Brain-Drain” Phenomenon. <https://nef.org/basic-vs-applied-research-and-the-brain-drain-phenomenon/> (**2016**).
4. Ghada Bassioni, Chioma Daisy Onyige, Hasnaa Chennaoui Aoudjehane, Joana Filipa Machado de Moraes Afonso, Mohamad Fawzi Mahomoodally, *How Africa can empower more women to become leaders in science*, The Conversation (**2016**), <https://theconversation.com/how-africa-can-empower-more-women-to-become-leaders-in-science-60570>

5. Ghada Bassioni, The Conversation (2016), *Why you shouldn't wrap your food in aluminium foil before cooking it*, <http://theconversation.com/why-you-shouldnt-wrap-your-food-in-aluminium-foil-before-cooking-it-57220>
6. Ghada Bassioni, *To be trapped in your own thoughts and beliefs - it's time for a wall to fall!*, Falling Walls Fragments (2017), <http://www.fallingwallsfragments.com/2017/07/27/to-be-trapped-in-your-own-thoughts-and-beliefs-its-time-for-a-wall-to-fall/>
7. Ghada Bassioni, *Seek a mentor's advice! Allow experience to speak!*, Falling Walls Fragments (2017), <http://www.fallingwallsfragments.com/2017/08/08/seek-a-mentors-advice-allow-experience-to-speak/>
8. Ghada Bassioni, Nova Ahmed, Amal Amin, Mari-Vaughn V. Johnson, Milica Pešić, Rapela Regina Maphanga, Anina Rich, Meron Zeleke, *Breaking the wall of time management: 6 smart tricks to manage your time more efficiently*, Falling Walls Fragments (2018), <https://www.fallingwallsfragments.com/2018/08/06/breaking-the-wall-of-time-management-6-smart-tricks-to-manage-your-time-more-efficiently/>
9. Gerald G Singh, Vinicius F Farjalla, Bing Chen, Andrew E Pelling, Elvan Ceyhan, Martin Dominik, Eva Alisic, Jeremy Kerr, Noelle E Selin, Ghada Bassioni, Elena Bennett, Andrew H Kemp, Kai MA Chan, *Researcher engagement in policy deemed societally beneficial yet unrewarded*, *Frontiers in Ecology and the Environment* 17 (7), 375-382, 2019.
10. Nova Ahmed, Amal Amin, Shalini S Arya, Mary Donnabelle Balela, Ghada Bassioni, Flavia Ferreira Pires, Ana M González Ramos, Mimi Haryani Hassim, Roula Inglesi-Lotz, Mari-Vaughn V Johnson, Sandeep Kaur-Ghumaan, Rym Kefi-Ben Atig, Seda Keskin, Sandra López-Vergès, Vanny Narita, Camila Ortolan Cervone, Milica Pešic, Anina Rich, Özge Yaka, Karin Carmit Yefet, Meron Zeleke Eresso, *Motherhood in Science—How children change our academic careers*, [https://doi.org/10.26164/GYA\\_00268](https://doi.org/10.26164/GYA_00268), *Global Young Academy* 2020.

## 9. Scientific and Professional Societies of which a Member

- Elected Member to the Bureau of the *International Union of Pure and Applied Chemistry IUPAC*, Biennium 2020-2022, Paris, Egypt.
- Member of the *Egyptian National Committee for Pure and Applied Chemistry*, Egypt.
- Member of the AIChE, *the American Institute for Chemical Engineers*, USA.
- Member of the GDCh, *the Society of German Chemists*, Germany.
- Member of the SPE, *the Society of Petroleum Engineers*, USA.
- Member of the MEDMA, *the Middle East Drymix Mortar Association*.

- Member of the EAI *European Alliance for Innovation*, UK.
- Member of the *Global Young Academy* from December 2012- May 2018; member of its Executive Committee 2014-2016.

## 10. Fellowships and Scholarships

- “Visiting Professorship“ (Funded by the Bavarian State Ministry for Science, Research and the Arts), at the Technische Universität München, Munich, Germany 15.12.20-30.04.21.
- “Visiting Professorship“ (Funded by the Bavarian State Ministry for Science, Research and the Arts), at the Technische Universität München, Munich, Germany 01.07.18-15.01.19.
- “Fulbright Fellow 2016/2017“, University of Maryland at College Park, USA
- “L.A.B. (Lindau Nobel Laureate Meetings – European Forum Alpbach – Falling Walls Berlin) Fellow“, since April 2016.
- “Next Einstein Forum Fellow“, since February 2016.
- “African Science Leadership Program (ASLP) Fellow“, since January 2016.
- “Next Einstein Forum Ambassador“, September 2015- February 2016.
- “August-Wilhelm Scheer Professorship“ (Funded by the Excellence Initiative), at the Technische Universität München, Munich, Germany 01.07.15-30.09.15.

## 11. Honors and Awards

- Elected Member to the Bureau of the *International Union of Pure and Applied Chemistry IUPAC*, Biennium 2020-2022, Paris, Egypt.
- “Highest State Award (Encouragement Award)“ for scientists in Egypt in the field of Chemistry 2013.
- “Young Scientist“ award 2013; *World Economic Forum* in Dalian, China, 2013; participation as young scientist in the Annual Meeting of the New Champions.
- “LEWA Mentorship“ award 2013 runner up; for *Leadership Excellence for Women*, Middle East Process Engineering Conference and Exhibition (MEPEC), Bahrain, September 2013.
- “Best Researcher“ award of the Department, June 2013, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- Selected candidate for the *Nobel Laureate meeting* in Lindau, Germany, 2012; participation from 01.-07.07.2012.
- Nominee by the Faculty of Engineering, Ain Shams University for the UNESCO award 2012.
- Mentor for Ph.D. students at the Technische Universität München, Munich, Germany, 2009-now.
- Ambassador of the Technische Universität München-Alumni network since 2012.

- Co-Leader of the “Women in Science“ working group of the Global Young Academy May 2014-May 2018.
- North-South Interdisciplinary Research Grant Award by the Global Young Academy; collaborative partner: Prof. Dr. Wilfred van der Wiel, University of Twente, Netherlands, November 2014.
- German Science foundation (DFG- Deutsche Forschungsgemeinschaft) Dr. rer. nat./ PhD scholarship, Technische Universität München, Munich, Germany, 2001-2004.
- Postdoc fellow of the „HWP II Programm zur Förderung von Frauen in der Bundesrepublik Deutschland in Forschung und Lehre“ for promoting highly qualified women in Germany. Execution of the scientific work at the Chair for Construction Chemicals, Chemistry Department, Technische Universität München , Munich, Germany, 2005-2007.
- Winner of “Society of German Chemists GDCh” award on construction materials for the third best work presented in the poster competition, 2006.
- Women’s representative of the Chemistry Department, Technische Universität München, Munich, Germany, 2005-2007 where I was a member of the board of the faculty and appointment committees as well as many other tasks.
- Chair of the Women initiative of the American Institute for Chemical Engineers (AIChE) - Abu Dhabi 2009-2011.
- “Organizers’ Award” for my work as organizer of the ‘International Conference on Thermal Engineering-Theory and application’ held in Abu Dhabi, UAE, at the Petroleum Institute, January 2009.
- Regional SPE award for dedicated and outstanding service to the community, 09.10.11, Abu Dhabi, UAE.
- Associate Editor of “Ain Shams Engineering Journal” (Elsevier)
- Editorial Board Member of “Scientific African” (Elsevier)
- Editorial Board Member of “Journal of Chemistry and Materials Research” (ORIC)
- Editorial Advisory Board Member of “Journal of Natural Resources and Development”

## 12. Invited Talks

- Invited Speaker, *Women in Energy*, Egypt Petroleum Show EGYPS, February 2017.
- Invited Speaker, 10.04.2015, University of Twente, Enschede, The Netherlands.
- Invited speaker to Baker Hughes Egypt within the workshop: *Springboard Women’s Development Project*, organized by the British Council, 27.06.13.

- Invited speaker to Texas A&M at Qatar on “Greener construction”, 23.01.11, Doha, Qatar.
- 10 Academy 3<sup>rd</sup> Batch 2020, Germany.
- Volkhochschule, Germany

### 13. Public talks

- Panelist in the Closing Session about “Science for the benefit of Mankind“, *Nobel Laureate meeting* in Lindau, Germany, 2014; participation from 02.07.-04.07.2014. <https://www.mediatheque.lindau-nobel.org/videos/33787/2014-panel-discussion-science-for-the-benefit>
- Global Young Academy representative in its presentation at the *Lindau Nobel Laureate meeting*, Germany, 2014. <https://www.mediatheque.lindau-nobel.org/videos/33786/2014-presentation-offered-by-the-global-young-academy>
- Global Young Academy representative at the Brainstorming session on Research Strategies with the *European Commission*, Brussels, Belgium, 09.-10.07.2014 and 08.05.15.
- Global Young Academy representative on Interdisciplinarity and Gender Equality (MENA regional meeting) with the *Global Research Council*, Muscat, Oman, 10.-11.01.2016.
- Video (Lindau Diary) Explaining what it is like to be a woman in a man's world (physics)!  
[https://www.youtube.com/watch?time\\_continue=1&v=G8OEGWjgmNA](https://www.youtube.com/watch?time_continue=1&v=G8OEGWjgmNA)
- TED-like scientific pitch at the Next Einstein Forum in Dakar Senegal, March 2016. <https://www.youtube.com/watch?v=MqdqEqEMHhQ>
- Interview for the Lindau Nobel Laureate Meetings: <https://www.lindau-nobel.org/interview-ghada-bassioni-global-scientist/>

### 14. Service at the ASU, Egypt

- Organization of conferences and workshops.
- Organization of public lectures and seminars.
- Member of the Quality Control Team for Accreditation.

### 15. Service at the TUM, Germany

- Coordinator of the international collaboration between the Faculty of Engineering, Ain Shams University and the Technische Universität München, Munich, Germany. (2011- now). Signed MoU in 2011 (departmental) and 2018 (institutional).

- Coordinator of the international collaboration between The Petroleum Institute, Abu Dhabi, UAE and the Technische Universität München , Munich, Germany. (2007-2011).
- Elected women’s representative (Frauenbeauftragte), Chemistry Department, Technische Universität München, Munich, Germany. (2005-2007) and related organizations of seminars and workshops (Maedchen machen Technik etc.) as well as the attendance of faculty meetings and faculty recruitment.
- Guest-Professorship at the Chemistry Department:
  - August-Wilhelm Scheer Professorship, 2015
  - Bavarian State Ministry for Science, Research and the Arts, visiting professorship short-term program, 2018
  - Bavarian State Ministry for Science, Research and the Arts, visiting professorship short-term program, 2021
- Supervision of Students with Prof. Fritz E. Kuehn, TUM:
  - Internship students: Mohammed M. Ali
  - Master Students: Abdelrahman Khalaf, Mayar Ahmed, Reham Farid
  - Ph.D. Students: Khalfan Al Marzouqi (discontinued)

## 16. Other Institutional and Professional Service

- Coordinator of the international collaboration Egypt-Germany, Egypt-Japan and Egypt-Italy, Science and Technology Development Fund (STDF), Ministry of Scientific Research, Cairo Egypt. (2017-now).
- Coordinator of the international collaboration Egypt-Russia, Egypt-Japan and Egypt-South Korea, Science and Technology Development Fund (STDF), Ministry of Scientific Research, Cairo Egypt. (2013-2015).
- “Young Scientists Ambassador Program” of the Global Young Academy: Science Day, 24.09.2015, Libellenschule Dortmund, Germany.
- “Young Scientists Ambassador Program” of the Global Young Academy: Science Day for school children, 13.04.2015, University of Twente, The Netherlands.
- “North-South Interdisciplinary Research Grant” of the Global Young Academy: Invited Speaker, 10.04.2015, University of Twente, The Netherlands.
- Coordinator of the international cooperation between the Faculty of Engineering, Ain Shams University and the Institut National de la Recherche Scientifique, Quebec, Canada. (2015- now).
- Co-Leader of the “Women in Science“ working group of the Global Young Academy since May 2014-now.
- Contribution to the booklet: *GenderInSITE - Career Pathways of Young Scientists in Africa* by the South African Young Academy since 2014.

- Active member of “Women in Science and Engineering” of The Petroleum Institute, Abu Dhabi (2007-2011).
- Students’ recruitment and retention by visiting local schools, The Petroleum Institute, Abu Dhabi, UAE, (2007-2009).
- Organization of open days of the Petroleum Institute, Abu Dhabi, UAE, (2007-2011).
- Committee member for assessing the foundation program at the Petroleum Institute (2009).
- Chair of the outreach committee of the chemical engineering program, The Petroleum Institute, Abu Dhabi, UAE, (2008-2011).
- Member of the faculty recruiting committee of the chemical engineering program, The Petroleum Institute, Abu Dhabi, UAE, (2008-2010).
- Member of the undergraduate curriculum committee of the chemical engineering program, The Petroleum Institute, Abu Dhabi, UAE, (2008-2010).
- Student advising since, The Petroleum Institute, Abu Dhabi, UAE, (2007- 2011).
- The Petroleum Institute’s Production Chemistry Technical Committee, The Petroleum Institute, Abu Dhabi, UAE, (2007-2011).
- Member of the HSE committee, Chemical Engineering Program, The Petroleum Institute, Abu Dhabi, UAE (2010-2011).
- Student Faculty advisor for The Petroleum Institute’s Environmental Club, The Petroleum Institute, Abu Dhabi, UAE, (2010-2011).
- Faculty Advisor of the female AIChE student chapter, The Petroleum Institute, Abu Dhabi, UAE, (2009-2011).
- Member of the organizing committee and session chair of the First Ain Shams International Conference in Environmental Engineering *ASCEE I* at the Ain Shams University, Cairo, on 9<sup>th</sup> –11<sup>th</sup> April 2005 and (Second) *ASCEE II*, Cairo, on 10<sup>th</sup>-12<sup>th</sup> April 2007 and (Third) *ASCEE III*, Cairo, on 14<sup>th</sup>-16<sup>th</sup> April 2009.
- Member of the organizing committee and session chair of the Fourth International Conference on Thermal Engineering -Theory and Applications, Abu Dhabi, UAE, on 12<sup>th</sup>-14<sup>th</sup> January 2009.
- Member of the technical steering committee of the Fifth International Conference on Thermal Engineering -Theory and Applications, Marrakesh, Morocco, on 10<sup>th</sup> -14<sup>th</sup> May 2010.
- Member of the technical steering committee and session chair of the SPE ATW titled: “Managing Scale and Asphaltenes in Mature Oil and Gas fields”, Abu Dhabi, UAE, on 9<sup>th</sup> – 12<sup>th</sup> February 2009 and 29<sup>th</sup> November- 1<sup>st</sup> December 2010.
- Member of the technical steering committee and session chair of the SPE ATW titled: “Flow assurance”, Dubai, UAE, on 30<sup>th</sup> May- 2<sup>nd</sup> June 2011.

- Co-Chair and key note speaker of the MEDMA conference on “Green Buildings”, organized at The Petroleum Institute, 23.03.2010, Abu Dhabi, UAE.
- Co-Chair of the SPE regional education week held in conjunction with ADIPEC, 30.10.-03.11.10 2010, Abu Dhabi, UAE.
- Co-Chair of the SPE regional education day held in conjunction with ADIPEC, 02.11.2010, Abu Dhabi, UAE.
- Steering committee member of the SPE regional education week held in Bahrain September 2011.
- Steering committee member of the SPE young inventor’s workshop held in Bahrain September 2011.
- Technical committee member and session chair of the 1<sup>st</sup> Middle East Process Engineering Conference and Exhibition MEPEC, Bahrain, October 2011.
- Founder of the students' club "Alienz fi handasa" at the Faculty of Engineering, Ain Shams University, Cairo, Egypt with activities related to technical awareness and soft skills development of engineering students, 2001-now.
- Member of the Organizing Committee of the First and Second Ain Shams International Conference on Environmental Engineering organized by the Faculty of Engineering, Ain Shams University from (9 – 11 April 2005 and 9 – 11 April 2007, respectively).
- Member of the Quality Assurance unit (QAU) Faculty of Engineering, Ain Shams University (2012-2014).
- Steering Committee member and session chair in the SPE ATW on "Flow assurance", 16<sup>th</sup> -19<sup>th</sup> April 2012, Aberdeen, UK.
- Chair of the "First Ain Shams University Workshop on Oilfield Chemistry", 02.05.12, Cairo, Egypt.
- Chair of the "Second Ain Shams University Workshop on Oilfield Chemistry", 18.09.13, Cairo, Egypt.
- Chair of the "Third Ain Shams University Workshop on Oilfield Chemistry", 17.09.14, Cairo, Egypt.
- Technical committee member of the “Middle East Process Engineering Conference and Exhibition MEPEC” 29.09.-02.10.2013, Bahrain.
- Steering committee member and session chair in the SPE ATW on “Flow assurance”, 12<sup>th</sup> -14<sup>th</sup> November 2013, Oslo, Norway.
- Technical Committee member of “Abu Dhabi International Petroleum Exhibition and Conference ADIPEC”, 10<sup>th</sup> -13<sup>th</sup> November 2014, Abu Dhabi, UAE.
- Steering committee member and session chair in the SPE ATW on “Flow assurance”, 27<sup>th</sup> -28<sup>th</sup> January 2015, Abu Dhabi, UAE.



- Steering committee member and session chair in the SPE ATW on “Flow assurance: Ensuring Production Today, Creating Solutions for Tomorrow”, 12<sup>th</sup> - 14<sup>th</sup> October 2015, Edinburgh, UK.
- Technical Committee member of “Abu Dhabi International Petroleum Exhibition and Conference ADIPEC”, 9<sup>th</sup> -12<sup>th</sup> November 2015, Abu Dhabi, UAE.
- Technical committee member of the “Middle East Process Engineering Conference and Exhibition MEPEC” 14.09.-17.09.2015, Bahrain.
- Chair of the "Forth Ain Shams University Workshop on Oilfield Chemistry", 28.10.15, Cairo, Egypt.
- Technical Committee member of “Abu Dhabi International Petroleum Exhibition and Conference ADIPEC”, 7<sup>th</sup> -11<sup>th</sup> November 2016, Abu Dhabi, UAE.
- Technical Committee member of “Egypt Petroleum Show EGYPS”, 12<sup>th</sup>-14<sup>th</sup> February 2017, Cairo, Egypt.
- Chair of the "Fifth Ain Shams University Workshop on Oilfield Chemistry", 21.04.16, Cairo, Egypt.
- Technical Committee member of “Abu Dhabi International Petroleum Exhibition and Conference ADIPEC”, November 2017, Abu Dhabi, UAE.
- Chair of the "Sixth Ain Shams University Workshop on Oilfield Chemistry", 22.10.17, Cairo, Egypt.
- Technical Committee member of “Abu Dhabi International Petroleum Exhibition and Conference ADIPEC”, 12<sup>th</sup> -15<sup>th</sup> November 2017, Abu Dhabi, UAE.
- Technical Committee member of “Egypt Petroleum Show EGYPS”, 12<sup>th</sup>-14<sup>th</sup> February 2018, Cairo, Egypt.
- Chair of the "Seventh Ain Shams University Workshop on Oilfield and Construction Chemistry” within COSIMENA 17.07.2018.
- Technical Committee member of “Abu Dhabi International Petroleum Exhibition and Conference ADIPEC”, 12<sup>th</sup> -15<sup>th</sup> November 2018, Abu Dhabi, UAE.
- General Chair, INTERSOL 2019 - 3rd EAI International Conference on Innovations and Interdisciplinary Solutions for Underserved Areas, 14-15 February 2019, Cairo, Egypt and "Eighth Ain Shams University Workshop on Oilfield Chemistry” .
- General Chair, African Science Week 2019, 15-16 December, Cairo, Egypt and "Ninth Ain Shams University Workshop on Oilfield Chemistry”.
- Chair of the "Tenth Ain Shams University Workshop on Oilfield and Construction Chemistry", 20.10.21, Cairo, Egypt.

## **17. Professional Development (Training/ Workshops):**

- 1991** Summer Internship at Saudi Wiemer und Trachte LTD., Jeddah, Saudi Arabia.

- 2000** A one-month occupation as a chemistry and biology teacher at the German School in Cairo, Egypt.
- 2003** A four-day workshop dealing with the theoretical background and application of magnetic materials “Workshop in magnetochemistry molecular magnetism”, 29.09.-02.10.03 in Kaiserslautern, Germany.
- 2005** A three-week workshop dealing with teaching skills and psychology of university students, Cairo University, Egypt.
- 2005-2007** Postdoc fellow of the „HWP II Programm zur Förderung von Frauen in der Bundesrepublik Deutschland in Forschung und Lehre“ for promoting highly qualified women in Germany. Execution of the scientific work at the Chair for Construction Chemicals, Chemistry Department, Technische Universität München, Munich, Germany and and on leave from the Department of Chemistry, Faculty of Engineering Ain Shams University, Cairo, Egypt as an Assistant Professor.
- 2007** A one-day workshop dealing with faults and fractures, The Petroleum Institute, Abu Dhabi, UAE.
- 2008** A three-day workshop dealing with reservoir layering, “Reservoir Layering- Ignore it at your peril” SPE, 12.-14.02.08, London, UK
- 2008** A three-day training course dealing with mass spectrometry, Waters, Manchester, UK.
- 2008** A three-day workshop dealing with managing scales and asphaltenes, ADCO, Abu Dhabi, UAE.
- 2009** A three-day workshop on excellence in teaching, The Petroleum Institute, Abu Dhabi, UAE.
- 2009** A three-day SPE ATW on managing scales and asphaltenes, 09.-12.02.09, Abu Dhabi, UAE.
- 2010** A one-day workshop on all aspects dealing with oilfield scale, 28.11.10, Abu Dhabi, UAE.
- 2010** A three-day SPE ATW on “Managing scales and asphaltenes”, 29.11.-01.12.10, Abu Dhabi, UAE.
- 2011** A one-day ABET workshop, 09.01.11, Yas Island, Abu Dhabi, UAE.
- 2011** A one-day HSE workshop, 10.01.11, The Petroleum Institute, Abu Dhabi, UAE.
- 2011** A three-day SPE ATW on "Flow assurance", June, Le Meridien, Dubai, UAE.
- 2011** A three-day workshop on "Emotionally Intelligent Leadership", October, The Petroleum Institute, Abu Dhabi, UAE.
- 2011** A three-day workshop on "Introduction on NLP", October, The Petroleum Institute, Abu Dhabi, UAE.

- 2012** A three-day SPE ATW on "Flow assurance", 16.-19.04.12, Hilton Treetops, Aberdeen, UK.
- 2013** A three-day SPE ATW on "Flow assurance- Tackling Tomorrow's Challenges", 12.-14.11.13, Oslo, Norway.
- 2014** Trainer of the trainers' workshop, 01. - 02. and 07.09.14, German Academic Exchange Service (DAAD), Cairo, Egypt.
- 2015** A three-day SPE ATW on "Flow assurance- Tackling Tomorrow's Challenges", 12.-14.10.15, Edinburgh, UK.
- 2016** African Science Leadership Program, 11.-16.4.16, Pretoria, South Africa.
- 2016** Women in Science Mentorship Workshop by CIFAR, 06-09.10.16, Banff Center, Canada
- 2018** Program for African Women Scientists in STEM (PAWS) by BMBF, 20-21.03.18, Kigali, Rwanda
- 2018** Women in Science Mentorship Workshop by CIFAR, 22-24.03.18, Kigali, Rwanda
- 2021** Leadership and Department Management Workshop by ASU 22-24.08.21, Cairo, Egypt, online.

**18. Languages (spoken and written):**

Arabic, German and English (excellent)

French (fair)