Dr. Ayman M. Atta
Professor of polymer chemistry, Surfactant Research Chair
Department of Chemistry faculty of science, King Saud University

1. Personal Data and contact information:

Name: **professor** Ayman Mohamady Atta.
Birth Date: 27 / 9 / 1965.
Home Address: New Cairo, third collection, 5th region, build 9, apart 2.
Telephone: 0489137866 – 0122881662.
Work Address: Egyptian Petroleum Research Institute (EPRI), 1-Ahmad El Zomor St., Nasr City, Cairo, Egypt.
Work Telephone: 26707521.
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aatta@ksu.edu.sa
Marital Status: Married.
Nationality: Egyptian.
Military State: Completed.

2. Academic Qualification:

- Ph. D. **Ain Shams University, Cairo, Egypt (1995), faculty of science, Polymer Chemistry,** Title: Synthesis and characterization of water sorbers by catalytic and irradiation.
- Ms.C. **Ain Shams University, Cairo, Egypt (1992), faculty of Science, polymer Chemistry,** Title: Synthesis of organosilicon and chelate polymers.
- B.Sc. **Monofia University, Monofia, Egypt (1986), faculty of science, Major Chemistry, very good degree**

3. Employment History:

- Professor researcher of polymer chemistry in Petroleum Applications Department, Egyptian petroleum research institute (EPRI) since 28/6/2005.
- Assoc. Prof: (EPRI). Pet. Appl. Dep., since 28/6/2000 to 28/6/2005.
- Researcher: (EPRI). Pet. Appl. Dep., since 23 /6/1995 to 28/6/2000.
- Assist. Researcher: (EPRI). Pet. Appl. Depart., since 17/10/1992 to 23/6/1995.
- Demonstrator: (EPRI). Pet. Appl. Depart, from 2/4/1989 to 16/10/1992.

4. Administrative Assignment:

- Head of Petroleum Application Department since Feb 2011 till now.
- Head of Special Applications Lab of EPRI, since 2007 till Feb 2011.
- Deputy Director of Surface Protection Center (EPRI), since 2002 till now.

5. Consultation:

- 1999 till present member of Consultant team for Petrojet Company (Egypt) in onshore coating and painting.
- 1999-2005 technical consultants for Egyptian social fund for devolpent in chemical and petrochemical small projects.

- 2008 till present consultant for Moharam plast company (private) in plastic compounding and recycling.

6. Postgraduate Experience:

Supervision of Scientific Thesis:

Principal Supervisor on:

1- Ph. D, thesis of Nermine Maysour, Faculty of Science, Faculty of Women Ain Shams Univ. With a title: "**Synthesis and characterization of some novel polymeric surfactants**", "passed"2000.

2- M. Sc. thesis of Ashraf Elsaeed, Faculty of Science, Alazhar Univ. "**Synthesis of some epoxy resins for petroleum pipe lines coatings**", passed 2002.

3- M. Sc, thesis of Abdelrahum Mahmoud, , Alazhar University "**Recycling of some polymeric wastes into sludge and oil spill dispersants**", "passed" 2003.

4- M. Sc. thesis of Husein Shafy, Faculty of Science, Alazhar Univ. "**Synthesis of some modified polymeric additives for solving the transportation problems of petroleum crude oil**", "passed" 2004.

5- Ph. D, thesis of Mohamed Abdelfatah , Faculty of Science, Alazhar Univ. "**SYNTHESIS AND EVALUATION OF SOME EPOXY RESINS FOR STEEL PROTECTION IN THE PETROLEUM FIELD**, "passed" 2005.

6- Ph.D. thesis of Shymaa Elsaeed, Faculty of science, Ain Shams Univ., "**Recycling of PET into curable resins**", "passed" 2005.

7- Ph.D. thesis of Reem Farag, faculty of science, Ain Shams Univ. in "**Synthesis of Oil Sorbers Based on Reactive Polymers to Alleviate Petroleum Oil Spill Pollution**", "passed" 2005.

8- Ph.D. Thesis of Ashraf Elsaeed, Faculty of Science, Azhar Univ. "**Synthesis of some vinyl ester resins based on natural products as organic coatings**, 2006 "passed".

9- Ph. D. Thesis of Moataz Gabr, Menofya Univ., Faculty of Science, **Synthesis of some Oil Polymeric Sorbants for pollution control technology**", 2006"Passed".

10- M.Sc. thesis Morsy Hosney , Ain Shams Univ., Faculty of Science "**Recycling of PET waste into epoxy resins**", 2007"passed".

11- Ph. D. Thesis of Abdelrahum Mahmoud, Faculty of Science, Ain Shams Univ. "**Synthesis of Temperature Sensitive Oil Sorbers Based on New Crosslinkers to Control the Petroleum Oil Spill Pollution**", 2008 "Passed".

12- Ph.D. thesis of Husein Shafy, Azhar Univ., faculty of Science, "Synthesis of some polymeric derivatives based on colophony to solve the transportation problem of some Egyptian waxy crude oils ", 2006"passed".

13- M. Sc. Thesis of Nora Ahmed, Faculty of Science, Monofia Univ. "**Synthesis of some water soluble Schiff base derivatives for some petroleum application**", 2007"Passed".

14- M. Sc. Thesis of Kamel Gabr, Faculty of science, Mansoura Univ. "**SYNTHESIS AND CHARACTERIZATION OF SOME HYDROGELS AND THEIR APPLICATIONS**, 2007 "passed".

15- Ph.D thesis of Reda Abdelhamed, Faculty of science, Azhar Univ '**Evaluation of some water based surfactants derived from plastic waste as corrosion inhibitors for carbon steel alloy**", Passed (2006).

16- Ph.D thesis of Nora Ahmed, Faculty of Science, Mansoura university, Synthesis of porous oil sorber polymers to control petroleum oil spill pollution , 2008 cotinued.

17- M. Sc. Thesis of Ahmed Eraky, Faculty of science Helwan Univ. "**water treatment using ionic gels**", 2010"passed".

18- M. Sc. Thesis of Mohamed Ragab, Faculty of Engineer, Azhar Univ. EVALUATION OF SOME NEW PREPARED EPOXY RESINS FOR SOLVING THE CORROSION PROBLEMS OF GAS PIPLINES "passed 2010".

19- Ph.D thesis of Mohamed Fouda Faculty of Science, Monofia Univ., "**treatment and extraction of urinyl ions from ores**" passed 2010.

20- M.Sc. thesis of Zeinab Farouk Kamel, Faculty of science, Azhar Univ., "**Use metal ions promoted hydrogels for Uranium Recovery**" passed 2009.

21- M.Sc. thesis of Amany Khalil Gafar, Faculty of Science, Ain Shams university **Synthesis of Some Oil Spill Dispersants from Rosin Acid Derivatives**" passed 2009.

22- M.Sc. thesis of Mohamed Fekry, Faculty of Science, Helwan University, **synthesis of rosin surfactants as desludge dispersant**, passed 2009

23- Ph.D. Thesis of Rasha Mohamed , Faculty of Science, Mansoura Univ., "**New Polymers of PEO-PPO copolymers as Demulsifier**"

24- M.Sc. Thesis of Abdullah El-Moursi El-Sayed, faculty of science, Helwan Univ., **Evaluation of Vinyl Acetate Copolymers as Petroleum Crude Oil Additives**, 2009 continued.

25- MSc. Thesis of Salwa abd elkhalek tharwat ahmed, faculty of science, Helwan Univ., **Synthesis and Application of some water soluble polymeric dispersants in Ink manufacture and paper coatings** " 09 continued.

26- M.Sc. Thesis of Ahmed Ragab Abd El-hafiez Ahmed, faculty of science, Helwan Univ**., Application of Some Poly Condensed Water Soluble Schiff Bases as Demulsifier for Asphaltenic Crude Oil Emulsions**" 2009 continued.

7. Teaching Experience:

A. Undergraduate Lecturer in Chemistry:

Delegated from EPRI as a Lecturer of petroleum and Polymer chemistry to :

- Lecturer **as part of time (1996-1999) Department of Chemical Eng., Ain Shams University, Faculty of Eng., Egypt.**
- Lecturer as part of time **(1998-2002) Department of Chemical Eng., High technology institute(private), Alasher of Ramadan., Egypt.**
- Lecturer as part of time **(2005 up to date) Department of Chemistry., faculty of science, Helwan University, Egypt.**

B. Postgraduate lecturer in applied chemistry:

- Lecturer **(2008 up to date) Department of Chemistry, Applied chemistry, faculty of science, Helwan University, Egypt.**

8. Committees:

- 2008-2011 head of EPRI Training committee (training program organizer and designer in field of polymer surfactant petroleum and petrochemical).
- 2005-2011 member of chemical services and devrelopment center of EPRI.
- 2010 member of Tunisian and Egyptian committee in advanced material workshop.
- 2010 member of organization committee Egypt-USA (28^{th} March- 5^{th} April) in Nanotechnology
- **2008 Member in Editorial board of RECENT PATENTS** ON **CORROSION** SCIENCE journal.
- Reviewer for different scientific international journals such as: Macromolecules, Journal of Applied Polymer Science, Journal Polymer Research, electronic polymer journal.

9. Conferences Attendance:

- I attended a conferences of PAT(1999), Tokyo, August 2000.
- I attended a conferences of IUPAC (2000) Warso, Poland
- I attended a conference of MACRO 04 (2004), IUPAC France, Paris 4-9 /7/04.
- I attended a conference of Polymer recycling (2005), Manchester, England 4-9 /3/05.
- I attended conference of IUPAC (2007), Italy, Torino5-11/07.

10 . Scholarships and Grants:

- 2000 -2002 I have scientific visiting research to Germany (institute of physical chemistry and electrochemistry, Dresden, Germany) funded by DFG:

  -Period from 1-9 to 1-12-2000
  - period from 1-10-02 to 1-12-02.
- 2006 Short visiting to university of North Texas (Jun 2006).
- 2011 short visiting research cooperation two months (1^{st} Novmber- 31^{st} December 2011 to 1^{st} Jan 2012).

11. Scientific projects:

- **PRINCIPAL INVESTIGATOR** FOR THE PROJECT FUNDED BY U.S. - EGYPT JOINT BOARD ON SCIENTIFIC AND TECHNOLOGICAL COOPERATION ENTITLED "SYNTHESIS OF SOME RECYCLED DENDRITIC CURABLE RESINS BASED ON PET FOR COATING APPLICATIONS" (2008 TO NOW).

- **Principal Investigator** for the project funded by scientific academy of research and technology under title "Flow Improvement of Egyptian wax crude from locally produced polymeric materials", Cairo, Egypt (2003 - 2007).
- **Principle investigator for** the project funded by national science foundation (NSF, USA, Synthesis and evaluation of porous polymers for absorbing petroleum spills based on recycled PET (2001).
- **Principal Member** in Scientific Group of "The Selection of the Best Technology for Petroleum Pipe Line Coating Project, Cairo, Egypt (1995 - 2000).
- **Principal Member** in Scientific Group of (plastic waste recycling), Cairo, Egypt (1998 - 2000).
- **I Contribute to write** CHAPTER IN BOOK ENTITLED
  NEW POLYMERES AND CHEMICALS BASED ON ROSIN FEEDSTOCK
  I SMITHERS RAPRA PUBLISHER (2010).

12. Patents

I have registered three Egyptian patents in scientific Academy of research and technology

1. synthesis of flow improver for Egyptian Crude oils based on ethylene copolymers and their waste, Ayman M. Atta, M.A. Elsockary, Ref. No., 50/2007 date 31/1/2007.
2. Improvement Properties of High Density Polyethylene for Petroleum and Gas Pipeline Coating, Ayman M. Atta, M.A. Elsockary, O.F. Kandil, Ref. No., 460/2007 date 5/9/2007.
3. Preparation of corrosion inhibitors for carbon steel alloys derived from recycled poly(ethylene terephthalate) waste, ayman M. Atta, M. A. Migahed**, Ref. No., 120/2009 date 27/1/2009**.

13 . Industrial Experiences:

- My experiences are mainly concerned with synthesis of new water soluble linear and crosslinked polymers in application of surfactants and sorbers in petroleum and other industrial applications.
- I have an Egyptian Patent for production of black PE to use for petroleum pipeline coatings. There are 2000 Tons were produced by Egyptian Petrochemical Co., and Mohram Plast.
- I have synthesized new polymers as investigator under commercial name EPRI-PPD65 and EPRI -PD 650 to be used as flow improver of waxy crude oils (transportation of petroleum crude) based on recycling of polymeric wastes. There are 2000 drums were produced and consumed by Khalda Petroleum Company, Qarun Petroleum Co. (Egypt).
- I have great experience for production of demulsifier, Corrosion inhibitors, Drilling mud additives and Enhanced oil recovery surfactant for tertiary recovery.

- I have experience in characterization of materials with the following instruments and equipment: IR, HNMR, GPC, SLS, DLs, TEM, SEM, Surface tension apparatus, Interfacial tension apparatus, Dynamic and Kinematics viscometer.

LIST OF PUBLICATIONS

1996/1998 (10 articles)

1. Unperturbed dimensions of poly(ethylene oxide) in non ideal solvent, M. Farahat, Aiman M. Atta , A. A, Abdel-Azim, Egypt. J. Petrol., 5, 13(1996).
2. A simplified method for determining the molecular weight of polyesterification products, A. A, Abdel-Azim, Aiman M. Atta , M. Farahat, Egypt J. Text. Polym. Sci. Technol. 1(2), 241 (1997).
3. Determination of intrinsic viscosity of polymeric compounds through a single specific viscosity measurement: Abdel-Azim A. Abdel-Azim, Ayman M. Atta, Medhat S. Farahat and Wagdy Y. Boutros Polymer, Volume 39, Issue 26, December 1998, Pages 6827-6833.
4. Recycled flexible resins in concrete: A. A. Abdel-Azim, Ayman M. Atta, Polymer Journal, 29, 21(1998).
5. Preparation and properties of two-component hydrogels based on 2-acrylamido-2-methylpropane sulphonic acid, Abdel-Azim A. Abdel-Azim *, Medhat S. Farahat , Ayman M. Atta, Atef A. Abdel-Fattah, Polym. Adv.Technol, 9(5), 282-289 (1998).
6. Effect of crosslinker functionality on swelling and network parameters of copolymeric hydrogels, Ayman M. Atta, Abdel-Azim A. Abdel-Azim * Polym. Adv.Technol, 9(6), 340-348 (1998).
7. An investigation on rheological properties of some polyesters prepared for plasticizing poly(vinyl chloride), Abdel-Azim A. Abdel-Azim, Ayman M. Atta, El-Shafie A. Gad, Medhat S. Farahat, Polymer International, Volume: 47, Issue: 3, Date: November 1998, Pages: 303-310.
8. Miscibility of polystyrene with poly(ethylene oxide) and poly(ethylene glycol), Abdel-Azim A. Abdel-Azim, Ayman M. Atta, Medhat S. Farahat, Wagdy Y. Boutros,Journal of Applied Polymer Science, Volume:69, Issue: 8, 1471 (1998).
9. Ayman M. Atta, A.M. Alsabagh, N.E. Mayesaour, A.A.Abdel-Azim, Polymer Recycling, 3(3),181(1997/1998).
10. Polymeric structures as cold flow improvers for waxy residual fuel oil, I.M. el-Gamal, Ayman M. Atta and A.M. AL-Sabagh, Fuel , 76(14/15), 1471-1478(1997).

1999 (4 articles)

11. Synthesis of polymeric hydrogels containing sulfonate group, Ayman M. Atta, Abdel-Azim A. Abdel-Azim, Polym. Adv.Technol, 10(3), 187-194 (1999).
12. Synthesis and surface activity of poly(maleic diester) surfactants, Ayman M. Atta Polym. International, 48(7), 571-579, (1999).

13. Water-based non-ionic polymeric surfactants as oil spill dispersants, Ahmed M Al-Sabagh, Ayman M. Atta, Journal of Chemical Technology & Biotechnology, Volume: 74, Issue: 11, Date: November 1999, Pages: 1075.

14. Graft copolymerization of polyisobutylene and polychlorobutyl onto polystyrene waste, Ayman M. Atta, Polymer International, Volume: 48, Issue: 9, Date: September 1999, Pages: 837-842.

2001-2002 (4 articles)

15. Synthesis and characterization of polyelectrolyte hydrogels with controlled swelling behaviour, Ayman M. Atta *, Karl F Arndt, Polym. International, 50(12, 1360-1369 (2001).

16. Swelling behaviors of polyelectrolyte hydrogels containing sulfonate groups, Ayman M. Atta, polym. Adv.Technol, 13(8), 567-576 (2002).

17. Synthesis and characterization of anionic graft copolymers containing poly(ethylene oxide) grafts, Ayman M. Atta, K.-F. Arndt , J.Appl. Polym. Sci., 86, 1138-1148 (2002).

18. Effect of Abietic Acid Derivative Surfactants on Calorific Value and Flow of Crude Oil and Some distillates, A. M. Al-Sabagh, T. T. Khidr, Ayman M. Atta, Petroleum Science and Technology, Volume 20 , Issue 7&8, 693-711 (2002).

2003 (3 articles)

19. Synthesis of Charged Linear and Crosslinked Maleic Diester Polymers with Electron-beam Irradiation, Ayman M. Atta and K.- F. Arndt, Polymer International, 52, 389 (2003).

20. Effect of Chemical Crosslinking on Swelling Parameters of Modified Poly(Vinyl Alcohol) Hydrogel, Ayman M. Atta and Rasha A. M. El-Ghazawy, International Journal of Polymeric Materials, 52: 623-636 (2003).

21. Epoxy resin based on poly(ethylene terphthalate) waste: synthesis and characterization, Ayman M. Atta, Progress in Rubber, plastics and Recycling Technology,19(1), 17 (2003).

2004 (4 articles)

22. Swelling behavior of pH- and temperature-sensitive copolymers containing 2-hydroxy-ethyl methacrylate and N-vinyl-2-pyrrolidone crosslinked with new crosslinkers, Ayman M. Atta, K-F Arndt Polymer.International, Volume 53, Issue 11, Date: November 2004, Pages: 1870-1881.

23. Water Based surfactants from Recycled Poly(ethylene terephthalate) waste: their use as beach cleaners and in petroleum sludge recovery Ayman M. Atta, M. E. Abdel-Raouf, A. M. Abdul-Rahiem and Abdel-azim A. Abdel- Azim progress in rubber, plastics and recycling technology, vol 20, No 4, 311 (2004).

24. Epoxy resins from rosin acids: synthesis and characterization : Ayman M. Atta, R. Mansour, Mahmoud I. Abdou, Ashraf M. Sayed. Polymers for Advanced Technologies:Volume 15, Issue 9, Date: September (2004), Pages: 514-522.

2005 (6 articles)

25. USING OF MODIFIED PLASTIC WASTE BASED ON POLY (ETHYLENE-CO-ACRYLIC ACID) GRAFTS TO SOLVE TRANSPORTATION PROBLEM OF PETROLEUM CRUDE OIL, Al-Azhar Bull. Sci., vol 16(2), Dec., 189-211(2005).

26. synthesis and Characterization of Tetra-Functional Epoxy Resins from Rosin, Ayman M. Atta, Mansour, R. (et al.) Journal of Polymer Research, Springer Netherlands, vol. 12, no. 2, pp. 127-138 (2005).

27. Swelling and network parameters of high oil-absorptive network based. on 1-octene and isodecyl acrylate copolymers, Ayman M. Atta, K.-F. Arndt, Journal of Applied Polymer Science, Volume 97, Issue 1, Date: 5 July (2005) Pages: 80-91.

28. Temperature and pH sensitive ionic hydrogels based on new crosslinkers: Ayman M. Atta, K.-F. Arndt, Polymers for Advanced Technologies, Volume 16, Issue 6, Date: June (2005), Pages: 442-450.

29. Synthesis and Characterization of Strong Polyelectrolyte Characterization of strong polyelectrolyte hydrogels based on poly(vinyl alcohol): Ayman M. Atta, Karl-Friedrich Arndt, Polymer International, Volume 54, Issue 2, Date: February (2005), Pages: 448-455.

30. Swelling of High Oil-Absorptive Network Based on 1-Octene and Isodecyl Acrylate Copolymers, Ayman M. Atta, Arndt, K.-F. , Journal of Polymer Research, Springer Netherlands, vol. 12, no. 2, pp. 77-88 (2005).

31. Crosslinked cinnamoyloxyethyl methacrylate and isooctyl acrylate copolymers as oil sorbers, Ayman M. Atta, Rasha AM El-Ghazawy, Reem K Farag, Ahmed F El-Kafrawy, Abdel-Azim A Abdel-Azim, Polymer International, Volume 54, Issue 7, Date: July (2005) Pages: 1088-1096.

2006 (10 articles)

32. Surfactants from Recycled Poly (ethylene terephthalate) Waste as Water Based Oil Spill Dispersants, Ayman M. Atta, Abdel-Rauf, M.E. (et al.), Journal of Polymer Research, vol.13, no. 1, pp. 39-52 (2006).

33. Swelling Characteristics of pH- and Thermo-Sensitive Crosslinked Poly(Vinyl Alcohol) Grafts, Ayman M. Atta, Maysour, N.E. (et al.), Journal of Polymer Research, Springer Netherlands, vol. 13, no. 1, pp. 53-63(2006).

34. Swelling and Network Parameters of Oil Sorbers Based on Alkyl Acrylates and Cinnamoyloxy Ethyl Methacrylate Copolymers: Ayman M. Atta, Rasha A. M. El-Ghazawy, Reem K. Farag, Abdel-Azim A. Abdel-Azim, Journal of Polymer Research , 13, 257(2006).

35. Crosslinked reactive macromonomers based on polyisobutylene and octadecyl acrylate copolymers as crude oil sorbers • Ayman M. Atta, Rasha A.M. El-Ghazawy, Reem K. Farag and Abdel-Azim A. Abdel-Azim. Reactive and Functional Polymers, 66, 931(2006).

36. Synthesis and Characterization of High Thermally Stable Poly(Schiff) Epoxy Coatings: Ayman M. Atta, N. O. Shaker, M. I. Abdou and M. Abdelfatah Progress in Organic Coatings,56, 91(2006).

37. The influence of the molecular structure on the Chemical Resistivity and Thermal Stability of Cured Schiff's Base Epoxy Resins : Ayman M. Atta and N. O. Shaker, Progress in Organic Coatings, 56,100-110 (2006).

38. Synthesis of Rigid Polyurethane Foams from Recycled poly(ethylene terephthalate) Waste : Abdel Azim A. Abdel Azim, Ayman M. Atta and R.A El-Ghazawy: Cellular polymers, vol25, no 1, 35 (2006).

39. New Vinyl Ester Resins Based on Rosin for Coating Applications: Ayman M. Atta, Shymaa M. El-Saeed and Reem K. Farag, Reactive and Functional Polymers, Volume 66, Issue 12, December (2006), Pages 1596-1608.

40. Compressive Properties and Curing Behaviour of Unsaturated Polyester Resins in the Presence of Vinyl Ester Resins Derived from Recycled Poly(ethylene terephthalate): Ayman M. Atta., Elnagdy, S.I. (et al.), Journal of Polymer Research, Springer Netherlands, vol. 12, no. 5, pp. 373-383 (2005).

41. Curable resins based on recycled poly(ethylene terephthalate) for coating..applications. Ayman M. Atta, Manar E. Abdel-Raouf, Shimaa M. Elsaeed and Abdel-Azim A. Abdel-Azim. Progress in Organic Coatings, Volume 55, Issue 1, 1 January (2006), Pages 50-59.

2007 (10 articles)

42. Mechanical Characterization and Chemical Resistances of Cured Unsaturated Polyester Resins Modified with Vinyl Ester Resins Based on Recycled Poly(ethylene terephthalate): Ayman M. Atta Manar.E.Abdel-Raouf, Shimaa.M.Elsaeed and Abdel-Azim.A.Abdel-Azim, Journal Applied Polymer Science, 103(5), 3175-3182 (2007).

43. Unsaturated Polyester Resins Based on Rosin Maleic Anhydride Adduct as Corrosion Protections of Steel: Ayman M. Atta, Hamed M. Bedawy and I.F.Nassar, Reactive and functional polymers, 67, 617-626 (2007).

44. Synthesis of Unsaturated Polyester Resins Based on Rosin Acrylic Acid Adduct for Coating Applications, Ayman M. Atta Ashraf M. Elsaeed, Reem K. Farag and Shymaa M. El-Saeed, Reactive and functional polymers, 67, 549-563 (2007).

45. Crosslinked Poly (octadecene- alt-maleic Anhydride) Copolymers as Crude Oil sorbers: Sabrnal H. El-Hamouly, Ahmed M. AlSabagh, Moataz M. Gabr and Ayman M. Atta, journal applied polymer science, 105, 2113-2120 (2007).

46. Crosslinked of Reactive α-Olefins and maleic Anhydride Copolymers as Oil Sorbers: Ayman M. Atta, Sabrnal H. El-Hamouly, Ahmed M. AlSabagh and Moataz M. Gabr, Journal Applied Polymer Science,104(2), 871 (2007).

47. New Epoxy Resins Based on Recycled Poly(ethylene terephthalate) as Organic Coatings, Ayman M. Atta, Ahmed F. El-Kafrawy, Morsy H. Aly and Abdel-Azim A. Abdel-Azim, Progress of organic coatings, 58(1), 13-22 (2007).

48. Recycled Poly(ethylene terephthalate) waste oligomers as Corrosion Inhibitors of steel in 1M HCl, Ayman M. Atta, M. El-Sockary, and Samer AbdelSalam, Progress in Rubber, plastics and Recycling Technology 23(4), 241(2007).

49. Synthesis of some oil spill dispersants based on sorbitol esters and their capability to disperse crude oil on sea water to alleviate its accumulation and environmental impact: Sabrnal H. El-Hamouly, Ahmed M. AlSabagh, Moataz M. Gabr and Ayman M. Atta, journal dispersion science technology, 28(5),661 (2007).

50. Surface and thermodynamic parameters of polymeric surfactants from Poly(ethylene terephthalate) waste, Ayman M. Atta, polymer international, 56, 984-995 (2007).

51. Synthesis and Characterization of Porous Crosslinked Cinnamoyloxy Ethyl Methacrylate and Octadecyl acrylate copolymers: Ayman M. Atta, Witold Brostow , Ahmed F El-Kafrawy Abdul Raheim M. Hasan and Abdel-Azim A. Abdel-Azim, e-Polymer, 480, 2007.

2008 (8 articles)

52. Using of Bisphenol A Novolac Epoxy Resins for Coating Applications: Ayman M. Atta, Nevin O. Shaker and Notaila E. Nasser : Journal of Applied polymer science, Volume 107, Issue 1, Date: 5 January 2008, Pages: 347-354.

53. Using of Modified Plastic Waste Based on Poly(ethylene-co-acrylic acid) Grafts to Solve Transportation Problem of Petroleum Crude Oil, Ayman M. Atta; Maher A. Elsockary; Osama F. Kandil; Zakaa M. Mohamed, Journal of Dispersion Science and Technology, Volume 29, Issue 1, 2008, Pages 7 – 19.

54. Demulsification of Crude Oil Emulsions Using Some New Water-Soluble Schiff Base Surfactant Blends, Ayman M. Atta; Adel A. -H. Abdel-Rahman; Shymaa M. Elsaeed; Saeed AbouElfotouh; Nora A. Hamad, Journal of Dispersion Science and Technology, Volume 29, Issue 10, 2008, Pages 1484 – 1495.

55. Nonionic Surfactants from Recycled Poly(ethylene terephthalate) as Corrosion Inhibitors of Steel in 1 M HCl, Ayman M. Atta; Maher A. Elsockary; Osama F. Kandil; Nevin O. Shaker, Journal of Dispersion Science and Technology, Volume 29, Issue 1, 2008, Pages 27 – 39.

56. Synthesis and Evaluation of Some Schiff Base Surfactants for Treating Crude Oil Emulsions, Ayman M. Atta; Adel A. -H. Abdel-Rahman; Nora A. Hamad, Journal of Dispersion Science and Technology, Volume 29, Issue 9, 2008, Pages 1222 – 1232.

57. Use of Electron-Beam Irradiation to Prepare pH and Temperature-Sensitive Hydrogels from Reactive Poly(vinyl alcohol) Grafts, Ayman M. Atta, Ashraf M. Elsayed, Husein I. Shafy, Journal of Applied polymer science,108, 1706-1715 (2008).

58. Surface and Thermodynamic Parameters of Polymeric Surfactants from Recycled Poly(ethylene terephthalate), Ayman M. Atta; Nermin E. Maysour, Journal of Dispersion Science and Technology, Volume 29, Issue 1, 2008, Pages 147 – 159.

59. New Bisphenol Novolac Epoxy Resins for Marine Primer Steel Coating Applications, Ayman M. Atta, M.I. Abdoua, Abdel-Atif. Elsayed, Mohamed E. Ragab, Progress Organic Coatings, 63, 372-376 (2008).

2009 (5 articles)

60. Fast Responsive poly(acrylic acid-co-N-isopropyl acrylamide) hydrogels Based on New Crosslinker, Ayman M. Atta, El-Sayed M. Abdel-Bary, Kamel Rezk, Abdel-Azim, A. Abdel-Azim, Journal Applied Polymer Science, 112, 114-122, 2009.

61. Swelling and Network Parameters of Crosslinked Porous Octadecyl Acrylate Copolymers as Oil Spill Sorbers, Ayman M. Atta, Witold Brostow, A. Mahmoud Abdul-Raheim and Abdel-Azim A. Abdel-Azim, e- Polmer No.134, page 1-14 (2009).

62. Synthesis and Properties of Nonionic Surfactants from Rosin-imides Maleic Anhydride Adduct, Ayman M. Atta, Ahmed M. Ramadan, Khaled A. El-Shafay, Amal M. Mohamed, Nehal S. Ragab and Mohamed Fekry, journal of dispersion science and technology, 30, 1100-1110(2009).

63. Swelling Behavior of Chemically Crosslinked pH- and Temperature- Sensitive (N-isopropylacrylamide-co- 1-vinyl-2-pyrrolidone) Based on New Crosslinker, Ayman M. Atta, Samar Abdel-Azim, A. Abdel-Azim, **International Journal of Polymers and Technologies May-December , 201** 2009.

64. Preparation of pH- Sensitive Copolymers Containing 2-Acrylamido-2-Methyl propane Sulfonic Acid and Acrylic Acid Crosslinked with Vinyl Trimethoxy Silane Crosslinker, Ayman M. Atta, Adlia A. Gaser and Zaneib F. Kamel, **International Journal of Polymers and Technologies , May-December , 135,** 2009.

65. Demulsification of Crude Oil Emulsions Using Some New Water-Soluble Schiff Base Surfactant Blends, Ayman M. Atta,1 Adel A.-H. Abdel-Rahman,2 Shymaa M. Elsaeed,1Saeed

AbouElfotouh,3 and Nora A. Hamad, Journal of Dispersion Science and Technology, 30:725–736, 2009.

2010 (11 articles)

66. Evaluation of Acrylic acid co-2-acrylamido- 2-methylpropane- 1-sulfonic acid hydrogels for Uranium recovery, Ayman M. Atta, Z. H. Abd El wahab, Z. A. El shafey, W. I. Zidan and Z. F. Akl, **International Journal of Polymers and Technologies • 2(1) January-April, 1, 2010**.

67. Uranyl Ions Uptake from Aqueous Solutions Based on 2-Acrylamido- 2-Methylpropane sulfonic acid Copolymers, Ayman M. Atta, Z. H. Abd El wahab, Z. A. El shafey, W. I. Zidan, Z. F. Akl, **International Journal of Polymers and Technologies , 2(1), 11 January-April (2010)**.

68. Surface and Thermodynamic Properties of Nonionic Surfactants Based on Rosin- Maleic Anhydride and Acrylic Acid Adducts, Ayman M. Atta, Ahmed F. El-Kafrawy, Manar E. Abdel-Rauf, Nermine E. Maysour and Amani K. Gafer**, Journal of dispersion science and technology**, **31:567–576, 2010**.

69. Water Based Oil Spill Dispersants Based on Rosin Formaldehyde Resins, Ayman M. Atta, Manar E. Abdel-Rauf, Nermine E. Maysour and Amani K. Gafer**, Journal of dispersion science and technology 31:583–595 (2010).**

70. Synthesis and evaluation of a new water soluble corrosion inhibitor from recycled poly(ethylene terphethalate), M. Attia, A. M. Hasan, Ayman M. Atta, **Materials Chemistry and Physics 121, 208–214 (2010)**.

71. Synthesis of New Cationic Surfactants Based on Recycled Poly (ethylene terephthalate) for Deinking of Solvent-based Ink from Low Density Polyethylene Surface, Fatma A. Morsy, Samya I. El-Sherbiny and Ayman M. Atta**, Journal applied polymer science**, Volume 118 Issue 2, Pages: 1160–1172, 15 October **(2010)**.

72. Swelling Behavior of pH- Sensitive Copolymers Containing 2-Acrylamido-2-Methyl propane Sulfonic Acid and Acrylic Acid Crosslinked with Vinyl Trimethoxy Silane Crosslinker, Ayman M. Atta, Adlia A. Gaser and Zaneib F. Kamel, **Journal of dispersion science and technology**, 31:1456–1464 (2010).

73. Chemically Crosslinked pH- and Temperature- Sensitive (N-isopropylacrylamide-co- 1-vinyl-2-pyrrolidone) Based on New Crosslinker, Ayman M. Atta, Samar Abdel-Azim, A. Abdel-Azim' **Journal of dispersion science and technology** 31:1552–1560 (2010).

74. Uranyl Ions Uptake from Aqueous Solutions Using Crosslinked Ionic Copolymers Based on 2-Acrylamido-2-Methylpropane Sulfonic Acid Copolymers, Ayman M. Atta; Z. Abd El Wahab; Z. El Shafey; W. I. Zidan; Z. F. Akl, **Journal of dispersion science and technology,** Volume 31, Issue 12, , Pages 1601 – 1610 (2010).

75. Characterization and Evaluation of Acrylic Acid Co-2-acrylamido-2-methylpropane-1-sulfonic Acid Hydrogels for Uranium Recovery, Ayman M. Atta; Z. H. Abd El Wahab; Z. A. El Shafey; W. I. Zidan; Z. F. Akl, **Journal of dispersion science and technology**, Volume 31, Issue 10, Pages 1415 – 1422 (2010).

(**2011 - 11 articles**)

76. Studies on the uptake of uranium (VI) ions on polyacrylamidoxime resins synthesized by free radical polymerization with different crosslinking ratios and pore solvents, Adel A.-H.

Abdel-Rahman; Ayman M. Atta; Ibrahim E. El Aassy; Fadia Y. Ahmed; Mohammed F. Hamza, **Journal of dispersion science and technologies** 32, 224-234 (2011).

77. Adsorption Properties of Uranium (VI) Ions on Reactive Crosslinked Acrylamidoxime and Acrylic Acid Copolymer Resin**s,** Ayman M. Atta; Adel A. -H. Abdel-Rahman; Ibrahi E. El Aassy; Fadia Y. Ahmed; Mohammed F. Hamza, **Journal of dispersion science and technology**, Volume 32, Issue 1, Pages 84 – 94 (2011).

78. Novel Core–Shell Magnetic Nanogels As Corrosion Inhibitors for Carbon Steel in Acidic Media, ayman M. Atta, Olfat E. El-Azabawy and H.S. Ismail, **Corrosion science**, 53, 1680–1689 (2011).

79. Synthesis and Characterization of pH-Sensitive PAMPS/PVP Nanogels in Aqueous Media, Ayman M. Atta, Rasha A. M. El-Ghazawy, Reem K. Farag and Shymaa M. Elsaeed, polymer advanced technologies Volume 22, Issue 5, Pages: 732–737 (2011).

80. Acrylonitrile / acrylamidoxime / 2-acrylamido-2-methylpropane sulfonic acid based hydrogels: Synthesis, characterization and their application in the removal of heavy metals, Ayman M. Atta, Husein S. Ismail, Zakaa M. Mohamed and H.M. Mohamed , **Journal Applied Polymer Science** Volume 122, Issue 2, Pages: 999–1011 (2011).

81. Use of rosin-based nonionic surfactants as petroleum crude oil sludge dispersants, , Ayman M. Atta and Ashraf M. Elsaeed, **Journal Applied Polymer Science** Volume 122, Issue 1, Pages: 183–192 (2011).

82. Recycled Poly(ethylene terephthalate) Resins as Corrosion Protective Organic Coatings of Steel Pipelines, Ayman M. Atta, **Recent Patents on Corrosion Science**, vol 2(1), 11-22 (2011).

83. Influence of Ethylene Acrylic Alkyl Ester Copolymer Wax Dispersants on the Rhological Behavior of Egyptian Crude Oil, Ayman M. Atta, H. I. Al-Shafy and E.A. Ismail Accepted in journal of dispersion science and technology, **32, 1269-1305** (2011).

84. Application of Crosslinked acrylamidoxime / 2-acrylamido-2-methylpropane sulfonic acid copolymer in waste water treatment, Ayman M. Atta, Saeed A.Sayed, Abdelfatah B. Farag Husein S. Ismail, Zakaa M. Mohamed and Ahmed M. Eraky, journal of dispersion science and technology, **32, 1285-1295** (2011).

85. Effect of crosslinker and monomer compositions on adsorption of uranium ions based on reactive crosslinked acrylamidoxime acrylic acid resins, Ayman M. Atta, Husein S. Ismail and Ashraf M. Elsaaed, **journal of dispersion science and technology, 32, 1219-1229** (2011).

86. Application of Hydrophobically Modified Water Soluble Polyacrylamide Conjugated with Poly (oxyethylene)-co-Poly (oxypropylene) Surfactant as Emulsifier, Ayman M. Atta and H. I. Al-Shafy and Zakaa M. Mohamed, polymer advanced technologies, Volume 22, Issue 12, Pages: 1879–1887 December (2011).

87. Preparation and characterization of epoxy binders based on rosin, Ayman M. Atta, Ashraf M. Elsaeed, Recent Patents on Corrosion Science, volume 3, Pp.132-143 (2011).

2012

88. Application of Anionic Acrylamide-Based Hydrogels in the Removal of Heavy Metals from Waste Water, Ayman M. Atta, Husein S. Ismail and Ashraf M. Elsaaed, Journal of Applied Polymer Science Volume 123, Issue 4, Pages: 2500–2510 15 February (2012).

89. Synthesis and Characterization of Novel Core-Shell Magnetic Nanogels Based on 2-acrylamido-2-methylpropane Sulfonic Acid in Aqueous Media, Ayman M. Atta, Journal of applied polymer science, Volume 124, Issue 4, 15, Pages: 3276–3285, May 2012.

90. Separation of Uranium and Rare Earth Elements with High Purity from Low-Grade Gibbsite-Bearing Shale Ore by Different Chelating Resins , Mohammed F. Hamza, Ibrahim E. El Aassy, Fadia Y. Ahmed, Adel A.-H. Abdel-Rahman & Ayman M. Atta, Journal of Dispersion Science and TechnologyVolume 33, Issue 4, April 2012, pages 482-489.

91. Effect of Crosslinker Chemical Structure and Monomer Compositions on Adsorption of Uranium (VI) Ions Based on Reactive Crosslinked Acrylamidoxime Acrylic Acid Resins , Ayman M. Atta, Adel A.-H. Abdel-Rahman, Mohammed F. Hamza, Ibrahim E. El Aassy & Fadia Y. Ahmed, Journal of Dispersion Science and TechnologyVolume 33, Issue 4, April 2012, pages 490-496.

92. Microscopic Studies on The Corrosion Resistance of Reinforced Carbon Steel, G. A. El-Mahdy, Ayman M Atta, M. M. Hegazy, M. M. Eissa, A. M. Fathy, F. M. Sayed A.K.F. Dyab and Hamad –Al-Lohedan, **Int. J. Electrochem. Sci., 7 (2012) 8597 – 8611.**

93. Application of New Modified Poly(ethylene Oxide)-Block-Poly(propylene oxide)-Block-Poly(ethylene oxide) Copolymers as Demulsifier for Petroleum Crude Oil Emulsion, Ayman M. Atta, Ahmed A. Fadda, Adel A.-H. Abdel-Rahman,Husein S. Ismail, and Rasha R. Fouad, **Journal of Dispersion Science and Technology, 33:775–785, 2012.**

94. Modification and Application of Poly(Ethylene Terephethalate) Nonwoven Fiber Using Octadecyl Acrylate and Acrylic Acid as Oil Sorbers, Ayman M. Atta, Adel A.-H. Abdel-Rahman & Nora A. Hamad, **Journal of Dispersion Science and Technology, Volume 33, Issue 10, October 2012, pages 1492-1502.**

95. Micellization and Adsorption Parameters of Poly(Propylene Oxide)/Poly(Ethylene Glycol) Block and Graft Copolymers in Aqueous Medium, Ayman M. Atta, H. S. Ismail, A. M. Elsaaed, R. Fouad, A. A. Fada,and A. A.-H. Abdel-Rahman, Journal of Dispersion Science and Technology, 33:1525–1538 (2012).

96. Effects of Water Soluble Rosin on the Corrosion Inhibition of Carbon Steel Ayman M Atta1, 2, Gamal A El-Mahdy, Husein S. Ismail and Hamad A. Al-Lohedan Int. J. Electrochem. Sci., 7 (2012) 11834 – 11846.

97. Insulin Release Behavior of N-Isopropylacrylamide-co-N-Vinyl-2-Pyrrolidone Hydrogel based on Modified Melamine crosslinkers**,** Ayman M. Atta**,** Hamad A. Allohedan**, Polymer Science series A (2012)**.

98. Surface Activity of Novel Polymerizable Anionic Polyoxyethylene 4-Nonyl -2-Prpylene-Phenyl Ether Ammonium Sulfate Succinate Surfactants, Ayman M. Atta*, Amro K. F.Dyab, Hamad A. Allohedan, **Journal of Surfactants and detergents 2012**.

99. Characterization of Modified Styrene-co-2-Acrylamido-2-methylpropane Sulfonic Acid Magnetite Nanoparticles**,** Ayman M. Atta, Magda Akel, R. A. Elghazawy and Mohamed Alaa, **Polymer Science series A (2012)**.

100. Application of Crosslinked Ionic Poly(vinyl alcohol) Nanogel as Adsorbents for Water Treatment, Magda A. Akl, Ali A. Sarhan, Kamel R. Shoueir, Ayman M. Atta **J Disp Sci Technologies (2012).**

101. Porous crosslinked copolymers of octadecyl acrylate (ODA) with acrylic acid (AA) as sorbers for crude petroleum spills, Ayman M. Atta, Witold Brostow [b], Haley E. Hagg Lobland, Abdul-Raheim M. Hasan and Jose Perez , **Polymer International (2012)**.

102. Porous polyurethane foams based on recycled poly(ethylene terephthalate) for oil sorption, AymanM. Atta, Witold Brostow,c,d Tea Datashvili, Rasha A. El-Ghazawy, Haley E. Hagg Lobland,c Abdul-RaheimM. Hasanb, and JoseM. Perez, **Polymer International (2012).**

103. Application of Water Soluble Polymeric Surfactants Based on Schiff Base As Demulsifier for Petroleum Crude Oil Emulsion, Ayman M. Atta, Samya Ibrahim El-Sherbiny, Ali Mohamed Salah Ali and Ahmed Ragab Abd El-hafiez Ahmed, **J Disp Sci Technologies (2012).**

104. Characterization of Stabilized Porous Magnetite Core-Shell Nanogel Composites Based on Crosslinked Acrylamide /Sodium Acrylate Copolymers", has been accepted for publication in Polymer International (2012).

B. Conference attendance

105. Thermodynamics of adsorption and micellization of water soluble surfactants based on poly(ethylene terephthalate) waste, A. M. Atta, 5th international symposium on polymer for advanced technologies, PAT (1999), Tokyo, Japan.P 326.

106. Nonionic surfactants as oil spill dispersants. A. M. Atta, 14th petroleum conference, Cairo, Egypt, 1998, (P 209).

107. Graft copolymerization of PIB onto polystyrene. A. M. Atta,14th petroleum conference, Cairo, Egypt, 1998, (P 302).

108. Swelling Parameters of Modified Poly(Vinyl Alcohol) based on Chemical Crosslinking, A.M.Atta, . IUPAC 2000, Warso, Poland.

109. New crosslinkers to synthesize Temperature sensitive gels, A.M.Atta MACRO 04(2004), Paris, France.

110. Oil sorbers to alleviate petroleum oil spill pollution, IUPAC August 2007, Torino, Italy.