CURRICULUM VITAE

Dr. Ayman M. Atta
Professor of polymer chemistry
https://fac.ksu.edu.sa/aatta/

1. Personal Data and contact information:

Name: Ayman Mohamady Atta.
Birth Date and place: 27 / 9 / 1965 (Berket El-Sabeaa- Menoufia)
Home Address: New Cairo, third collection, 5th region, build 9, apart 2.
Telephone: 0489137866 – 0122881662.
Work Address: Chemistry Department, College of Science, King Saud University, P.O.Box - 2455, Riyadh - 11451, Saudi Arabia.
Egyptian Petroleum Research Institute (EPRI), 1-Ahmad El Zomor St., Nasr City, Cairo, Egypt.
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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 of polymer chemistry, chemistry department, college of science, king Saud university, 2012 up to date
- 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 Feb. 2012 resigned to work at King saud university, KSA.
- 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**" passed 2011.

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**, passed 2013.

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** " passed 2013.

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**" passed 2013.

27. M.Sc. Thesis of Abdelrahman O. Ezzat, College of science, King Saud Univ**., Synthesis of Core –Shell Self-Assembled Silver Nanoparticles- Polymeric Surfactants for Different Industrial Applications (2014).**

28. Ph.D thesis of Sami A. El-Housany, College of science, King Saud Univ**. Synthesis of modified highly dispersed magnetic nano-powder-polymeric surfactants as petroleum crude oil spill collector (2015).**

29. Ph.D thesis **Kamel Rizq Elshahaat,** Faculty of Science, Mansoura Univ., **SYNTHSIS AND EVALUTION OF SMART IONIC HYDROGELS NANOPARTICLE FOR EFFECTIVE ENVIRONMENTAL APPLICATIONS, (2015).**

30. Ph.D thesis Ahmed M. Tawfik, faculty of science, Beni Suef University, USING OF SOME NEW INTELLIGENT INORGANIC NANOPOLYMERS FOR WATER TREATMENT APPLICATIONS (2016).

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.**
- **Professor of polymer chemistry, chemistry department, college of science, King Saud university, Saudi Arabia since Feb. 2012 up to date**

B. Postgraduate lecturer in applied chemistry:

- Lecturer of polymer chemistry, chemistry department, college of science, King Saud university (2012 upe to date).
- Lecturer **(2008 -2011) Department of Chemistry, Applied chemistry, faculty of science, Helwan University, Egypt.**
- Lecturer **(2012 up to date) chemistry department, college of science, King Saud university, Saudi Arabia since Feb. 2012 up to date**

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:

- 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.

- Nonionic surfactants as oil spill dispersants. A. M. Atta, 14th petroleum conference, Cairo, Egypt, 1998, (P 209).
- Graft copolymerization of PIB onto polystyrene. A. M. Atta,14th petroleum conference, Cairo, Egypt, 1998, (P 302).
- Swelling Parameters of Modified Poly(Vinyl Alcohol) based on Chemical Crosslinking, A.M.Atta, . IUPAC 2000, Warso, Poland.
- New crosslinkers to synthesize Temperature sensitive gels, A.M.Atta MACRO 04(2004), Paris, France.
- Oil sorbers to alleviate petroleum oil spill pollution, IUPAC August 2007, Torino, Italy.

- I attended a conference of Polymer recycling (2005), Manchester, England 4-9 /3/05.
- Facile preparation of stabilized core – shell magnetite acrylamide – co- acrylic acid nanoparticles, Hamad A. Allohedan, Ayman M. Atta, 26 th conference of the European colloid and interface society, ECIS 2012/ 2-7 September, Sweden
- Using of New Modified Poly(propylene oxide) /Poly(ethylene Oxide) Block- and graft Copolymers as Demulsifier for Petroleum Crude Oil, Ayman M. Atta*, Hamad A. Allohedan, 26 th conference of the European colloid and interface society, ECIS 2012/ 2-7 September, Sweden
- Novel Superabsorbanent Clay Nanogel Based on Crosslinked Sodium Acrylate/ Acrylamide Copolymers For Efficient Dye Waste Water Treatment, Ayman M. Atta, Hamad A. allohedan, 12thAnnual UNESCO/IUPAC workshop and conference on macromolecules &materials 24March2013(workshop), 25-28March 2013(conference), Stellenbosch,South Africa, Novel Dispersed Silver Core-Shell Nanogel Polymers as Corrosion Inhibitors For Carbon Steel In Acdic Media, Ayman M. Atta, Hamad A. allohedan, 12thAnnual UNESCO/IUPAC workshop and conference on macromolecules &materials 24March2013(workshop), 25-28March 2013(conference), Stellenbosch,South Africa.
- Synthesis and Surface activity of Amphiphilic 2-Acylamideo-2-methylsulphonic acid –Co-N-isopropyl Acylamide nanoparticles in non-aqueous media, Ayman M. Atta, Amro K. F. Dyab and Hamad A. Al-Lohedan, Nanotech conference and Expo, May 12-16, 2013. Washington DC. Synthesis of stabilized silver nanoparticles exposed to hydrochloric acid, A.M. Atta, H. A. Allohedan*, A.O. Ezzat and Z. A. Issa, Nanotech conference and Expo, May 12-16, 2013. Washington DC
- Synthesis and Characterization of New Modified Core-Shell Magnetite Nanogels and their Electrochemical Behavior In Acidic Medium, Ayman M. Atta, Hamad A. Allohedan*, and Gamal A. El-Mahdy, 246th American Chemical society National meeting and exposition, sept. 8-12-2013, Indianapolis, Indiana **USA.** Surface activity of amphiphilic 2-acylamido-2-methylpropane sulfonic acid - co-N-isopropyl acylamide nanoparticles in aqueous and non-aqueous media, Ayman M Atta, Hamad A Al-Lohedan, Amro K Dyab, 246th American Chemical society National meeting and exposition, sept. 8-12-2013, Indianapolis, Indiana **USA.**

- Characterization of New Modified Core-Shell Magnetite Nanogels and their Electrochemical Behavior In Acidic Medium, Ayman M. Atta, Hamad A. Allohedan*, and Gamal A. El Mahdy, 12th International Conference on Frontiers of Polymers and Advanced Materials (12th ICFPAM), held from 8-13th December 2013 in Auckland, New Zealand. **ICFPAM 2013**
- Wettability and Oil Recovery by Imbibition of Modified Magnetite Nanoparticles from Fractured and Heterogeneous Carbonates, Ayman M. Atta and Hamad A. Al-Lohedan, 247th ACS National Meeting & Exposition, March 16-20, 2014 | Dallas, Texas • Chemistry & Materials for Energy
- Synthesis and application of modified silver nanoparticles with high yield as anticorrosion self-assembled nanoparticles films on the surface of carbon steel alloys, Ayman M. Atta, Gamal A El-Mahdy Hamad A. Al-lohedan* and Abdelrahman O. Ezzat, 247th ACS National Meeting & Exposition, March 16-20, 2014 | Dallas, Texas • Chemistry & Materials for Energy
- Surface Properties of Hydrocolloid-Stabilized Magnetite Murrh Capped Nanoparticles , Hamad A. Allohedan*, Ayman M. Atta, and Sami A. Al-Hussain, 249th ACS National Meeting & Exposition, March 22-26, 2015 | Denver, CO • Chemistry of Natural Resources.

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

1. Improvement Properties of High Density Polyethylene for Petroleum and Gas Pipeline Coating, M.A. Elsockary, Ayman M. Atta, O.F. Kandil, 26249 (2013).
2. 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**.(26572:2014)
3. Method of synthesizing silver nanoparticles from waste film, Ayman Mohamamdy Atta, Hamad Abdullha Al-Lohedan, Abdelrahman Osama Ezzat, US 9347114 B1 (2016)
4. Synthesis of zinc oxide nanocomposites using poly (ionic liquid) Ayman Mohamamdy Atta, Hamad Abdullha Al-Lohedan, Abdelrahman Osama Ezzat, US 9468902 B1 (2016).
5. Coated magnetite nanoparticles, method for the preparation thereof and their use , Ayman Mohamady Atta, Amro Khalil Fakhry Dyab, EP 2804186 B1.
6. **Synthesis of modified chitosan particles for oral insulin delivery**, Ayman M. Atta, Hamad A. Al-Lohedan, Abdelrahman O. Ezzat, US **Patent number:** 9828445 (2017).
7. Ayman Mohamamdy Atta, Hamad Abdullha Al-Lohedan, Abdelrahman Osama Ezzat, Client Reference: 052016-00687, October 24, 20182016, Document: 15378017.
8. **Synthesis of bimetallic oxide nanocomposites using poly (ionic liquid)**, Ayman M. Atta, Hamad A. Al-Lohedan, Abdelrahman O. Ezzat, Mahmood M. S. Abdullah, US **Patent number:** 9850389 (2017)
9. **Composition and method for enhanced oil recovery**, Ayman Mohamamdy Atta, Mahmood Mohammed Abdullah, Hamad Abdulla Al-Lohedan, US **Patent number:** 9850420 (2017).

13 . Published books

- **Demulsification of Crude Oil Emulsion: Utility of Modified Polypropylene oxide-Polyethylene oxide Copolymer as... by Ahmed Ali Fadda, Rasha Refat Fouad and Ayman Mohamady Atta (Jul 3, 2012), 168 pages, Publisher: LAP**

LAMBERT Academic Publishing (July 3, 2012), Language: English, ISBN-10: 3659160873, ISBN-13: 978-36591608.

- **Facile Green Strategy for Preparation of Advanced Structured Materials Based on Amphiphilic Cardanol**

  AM Atta, HA Allohedan

  Cashew Nut Shell Liquid, 57-91

14. 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. 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.

2. Recycled flexible resins in concrete: A. A. Abdel-Azim, Ayman M. Atta, **Polymer Journal**, 29, 21(1998).

3. 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). http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1099-1581(199805)9:5%3C282::AID-PAT755%3E3.0.CO;2-N/abstract

4. 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). http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1099-1581(199806)9:6%3C340::AID-PAT787%3E3.0.CO;2-F/abstract

5. 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).

6. 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).

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. http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-0126(199811)47:3%3C303::AID-PI21%3E3.0.CO;2-0/abstract

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). http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-4628(19980822)69:8%3C1471::AID-APP1%3E3.0.CO;2-9/abstract

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).

http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1099-1581(199903)10:3%3C187::AID-PAT863%3E3.0.CO;2-2/abstract

12. Synthesis and surface activity of poly(maleic diester) surfactants, Ayman M. Atta **Polym. International**, 48(7), 571-579, (1999). http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-0126(199907)48:7%3C571::AID-PI172%3E3.0.CO;2-J/abstract

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. http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-4660(199911)74:11%3C1075::AID-JCTB125%3E3.0.CO;2-3/abstract

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. http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-0126(199909)48:9%3C837::AID-PI224%3E3.0.CO;2-A/abstract

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). http://onlinelibrary.wiley.com/doi/10.1002/pi.790/abstract

16. Swelling behaviors of polyelectrolyte hydrogels containing sulfonate groups, Ayman M. Atta, polym. Adv.Technol, 13(8), 567-576 (2002). http://onlinelibrary.wiley.com/doi/10.1002/pat.226/abstract

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). http://onlinelibrary.wiley.com/doi/10.1002/app.11151/abstract

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). http://onlinelibrary.wiley.com/doi/10.1002/pi.921/abstract

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. http://onlinelibrary.wiley.com/doi/10.1002/pi.1606/abstract

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. http://onlinelibrary.wiley.com/doi/10.1002/pat.507/abstract

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). http://link.springer.com/article/10.1007%2Fs10965-004-2936-x

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. http://onlinelibrary.wiley.com/doi/10.1002/app.21735/abstract

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. http://onlinelibrary.wiley.com/doi/10.1002/pat.606/abstract

29. 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. http://onlinelibrary.wiley.com/doi/10.1002/pi.1718/abstract

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). http://link.springer.com/article/10.1007%2Fs10965-004-2025-1

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