

## CURRICULUM VITAE and LIST Of Publications

### PROFESSOR EL SAYED H. EL ASHRY, D.Sc.

**E-mail:** [eelashry60@hotmail.com](mailto:eelashry60@hotmail.com)

**Mobile:** +2012-7430924. **Tel:** +203-4246601. **Fax:** +203-4271360.

**Date of Birth:** 29 December 1942. **Nationality:** Egyptian

**Present Position:** Professor Em. of Organic Chemistry, Chemistry Department, Faculty of Science, University of Alexandria, Egypt.

**Previous Positions:** At the University of Alexandria: Demonstrator (1963-1970), Lecturer (1970-1975), Associate Professor (1975-1980), Professor (1980 onwards), head of the organic chemistry section from 1991-1999, Head of the Chemistry Department 1999-2003.

**Degrees and Institutions:** from the University of Alexandria **B.Sc.** (1963), **M.Sc.** (1966), **Ph.D.** (1969) and **D.Sc. (1997)** “**Referees nominated by the Royal Chemical Society (London)**”.

**Diploma** (1971) “chemistry and Chemical Engineering” with *J. Yoshimura*, Tokyo Institute of Technology, **Japan**.

**Post Doc.** (1972) with *D. Horton*, Ohio State University, **U.S.A.**

(1973) with *H. El Khadem*, Michigan Technological University, **U.S.A.**

**Visiting Scientist** (1978) **Alexander von Humboldt fellow**, Inst. of Org. Chem. (*F.Lichtenthaler*), Darmstadt, **Germany**.

**Research Associate** (1979 and 1981) with *C. Schuerch*, ESF, State Univ. of New York, Syracuse, **U.S.A.**

#### Visiting Professor

- (1982-1988) Faculty of Applied Sciences, Univ. Umm Alquara, Mekkah, **Saudi Arabia**.
- (Aug. 1990) with *H. Hashimoto*, Tokyo Institute of Technology, Japan.
- (June-Sept. 1994) **Fulbright Fellow**, *D.C. Baker*, Univ. of Tennessee, Knoxville, **U.S.A.**
- (Aug 1996), *A. Katritzky*, University of Florida, **U.S.A.**
- (Jun-Aug, 1993) with *R.R. Schmidt*, (June-July 1995,1996), (July-Aug. 1997,1998, 2000-2003), and with *V. Whittman* (2004-2006,2008, 2011,2012,2014,2015) Konstanz University, **Germany**.
- 2006-2008 Invited as a foreign professor at the Higher Education Commission (Pakistan) for Development of Research and Education at the International Centre for Chemical and Biological sciences, HEJ Research Institute, Karachi, **Pakistan**.
- Oct2013-jan 2014 invited professor through the distinguished faculty program at princess Nora Univesrsity At Riyadh, Saudi Arabia.

#### From google scholar

**Total Impact Factor:** *more than 370*

**Highest Impact Factor:** *11.5*

**Total citations:** *more than 4077*

**Highly cited:** *more than 290*

**Current H-index:** **31**

## **Awards and Decoration:**

### ***i. International Awards***

1. A 1989 Diploma of Recognition of Scientific Research from World Cultural Council  
(Consjo Cultural Mundal).
2. The 1991 Melvin Rohmanof Award by NACE (U.S.A.).
3. The 2007 Honorary award from the International Scientific Partnership Foundation (Russia) for valuable contribution to research and international relations.
4. The 2011 Gold Medal Telesio-Galilei Academy of Science for the pioneering work in Chemistry.

### ***ii. National Awards***

5. The name of Prof. Dr. E. El Ashry included in the comprehensive Egyptian Famous persons in 1989.
6. A laureate of 1980 State-Encouragement Prize in Basic Sciences.
7. The 1981 Egypt 1st Class Ribbon of Science and arts from the President of Egypt.
8. A laureate of the 1998 first State-Excellence Prize in Basic Sciences.
9. **A laureate of 2014 State-Merit Prize in basic sciences.**

### ***iii. Alexandria University Awards***

10. The 1976 first Alexandria University-Encouragement Award for Chemical Research.
11. The 1999, First Alexandria University Award for Scientific Distinction in basic sciences.
12. A 2003, gold medal from Alexandria University.
13. The 2008 Dr. Taha Hussein Award (first President of Alexandria University) for Cultural and Scientific leadership, from Alexandria University.
14. The 2010 Shield of distinguished scientist of Alexandria University.
15. The 2012 honorary certificate and a medal for receiving Telesio-Galilei award in 2011.
16. The 2012 Alexandria University Appreciation Award for basic sciences.
17. Many honorary certificates from Faculty of Science.

**From Scopus and google**

**Total Impact Factor: *more than 400***

**Highest Impact Factor: 11.83**

**Total citations: *more than* 3923**

**Highly cited: *more than* 240**

**Current *h-index*: 30; *The highest one at Alexandria University***

#### **Guest Speaker:**

Tokyo Institute of Technology(1990). University of Toronto (1991). Aqualon Company, Wilmington (1991). The American University, Washington D.C. (1991) . 1st Astro-Egyptian Meeting on Advances in Heterocyclic Chemistry, Cairo (1991). Konstanz University (1993, 2000). Plenary Lectures at 5th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry , Cairo (1995); the 1st International Conference on Basic Sciences and Advanced Technology, Assiut (1996); El Mansoura University (1997), Cairo Univ. Conference (2000), Konstanz Univ. (2000), the First Eurasian meeting on Heterocycles in organic and Combinatorial Chemistry, Russia (2000) , Aviero University (2001), 8th ISIC, Luxor (2002), Um-Alqura university (2003), 9th Int. Symposium on Natural Products, Karachi (2004), Chem.03, Cairo university 92004), Wyeth Pharmaceuticals, New York (2004), Drug Biotechnology Conf. Amman (2004), REQOMED2, Spain (2004). REQOMED2, Spain (2004), ISNPC Karachi (2006), 9th Euroasia Conference on Chemical Sciences, Antalya, Turkey (2006), Ibn-Sina Conference Luxor (2007), Saudia Chemical society Makka (2007), Petra conference Jordan (2007). Fronteirs of chemical sciences-Istanboul-Turky (2007).Konstanz University [2008], ISNPC Karachi (2008), Ibn-Sina Conference-Cairo (2008). 8th Int. Sym. On New Trends In Chemistry and 2nd congress of the Federation of African Societies of Chemistry (FASC), Cairo (2009). iv Colloq. Internat. De Chim. Heterocycl. Oran, Algeria, PL 1 (2009). Fronteirs of chemical sciences, Amman Jordan L(2009). PAK-Chemical society PL (2010).Albath University, Homs, Syria (2011). Konstanz University (2011). Sustainable Chemistry, Polish Academy of Sciences, Warsaw (2011). Frontiers of chemical sciences V: Research and education in the Middle East, UNESCO, Paris, France (2011). Flohet 2012, Florida, USA. Um-Alqura University, Saudi Arabia 2012. German Universty at Cairo, 2012. Um-Alquara University, SAudiArabia, 2013. Princess Nora University, Saudi Arabia. 1<sup>st</sup> Int. Conf. on Applied Chemical, Biological and Aquatic Sciences, FaisalAbad, 2014. Konstanz University 2014. AvH colleg, Ismalia, 2014. IbnSina Conference, at Ghardaga 2015. Jordan conference 2016

#### **Visiting Scholars from Abroad**

- Graduate students: 1 from Germany, 3 from Algeria, 2 from Yemen, 1 from Libia
- Postdoctorate: 2 from Cameron, 1 from yemen
- Visiting Professors: 2 from Syria

#### **Scientific Contributions**

- More than 400 publications, Book Chapters and Invited Review articles from the Editorial Boards of the most outstanding series in the world. Presentations at more than 50 International Symposia.
- Applied for a patent on Vaccine
- Author of a book on: "Synthesis of naturally occurring nitrogen heterocycles from Carbohydrates" by E.S.H. El Ashry and A.El Nemr, Published by Blackwell, Oxford, UK (2005).
- Editor of volume 7 on: "Heterocycles from Carbohydrate Precursors" by E. S. H. El

Ashry, volume 7 in the series Topics In heterocycles Edited by Gupta, Springer, Germany (2007).

#### **Member of Scientific Societies**

- A member of Telesio-Galilei Academy of Science 2011
- Elected member of the Society of Sigma Xi (1973).
- A member of the heterocyclic chemical society, Egypt.
- A member of the International Society of Nucleosides, Nucleotides and Nucleic acids.
- A 2009, Diploma witnesses the election as Fellow of the chemical Society of Pakistan in recognition of outstanding contributions to chemistry and its Development.

#### **Member of National Committees**

- A member of the National committee for promotion to professors.
- A member of committee for selecting scientists to national awards.
- Evaluator to various awards at the universities in Egypt.

#### **Advisory Editorial Board member of the International Journals:**

- 1- *Nucleosides, Nucleotides and Nucleic acids.*
- 2- *Arkivoc, National representative of Egypt*
- 3- *Molecules.*
- 4- *Mini Reviews in Organic Chemistry.*
- 5- *Organic Chemistry Letters.*
- 6- *The Open Natural products Journal*
- 7- *Int. J. Biological and Chemical Sciences.*
- 8- *J. Biochemistry Biotechnology*
- 9- *Phytodynamic therapy*
- 10- *Egyptian Journal of Chemistry.*
- 11- *The Egyptian Science Magazine.*
- 12- *Arabian Journal of Chemistry.*
- 13- *Global Journal of Organic Chemistry*
- 14- *Mediterranean Journal of Chemistry*
- 15- *Walailak Journal of Science and Technology*
- 16- *Current Research in Chemical Sciences (CRCSci)*

#### **Organizing and chairing conferences**

- Chairman of the 7th Ibn Sina Int. Conference on pure and Applied Heterocyclic Chemistry, 2000. It was recognized by its High International features and presence of a great numbers of highly eminent scientists from all over the world.
- Founder and Chairman of 1<sup>st</sup> Internat. Conference on Science Diplomacy and developments in chemistry, 2012.
- Chairperson in various national and international conferences.

#### **Supervisor on MSc and PhD theses at Alexandria University**

Shared the Supervision on more than 50 candidates for M.Sc. and Ph.D. degrees at Alexandria University. Of these candidates, 7 Professors, 1 Assistant Professor and 2 Lecturers are Faculty members at Alexandria University. Others are working at: other Universities, Research Institutes, Army, Industry, Government, and Schools.

#### **Supervisor on MSc and PhD theses at other Universities**

Shared the supervision on many M.Sc. and Ph. D. theses at Menoufia University, Zagazig University, Suez Canal University, Benha University.

#### **Examiner for Ph.D. and M.Sc. Theses**

Examined many theses at various universities in Egypt and foreign countries for example:

1. Phytotoxicity of Lead on Leguminous Plants Phaseolus mungo and Lens culinaris, by **Saba Haider**, for Ph.D. from Jinnah University for Women, Karachi, Pakistan, 2012.
2. Regiochemistry and stereochemistry of addition reactions, by **L. Anjana** for Ph.D. from Madurai Kamaraj University, Madurai, India, 2007
3. panel of Experts Chemistry (Organic)/16- UNIVERSITY OF KARACHI

### Funded Projects

- Awarded two projects from DFG and VW, Germany.
- Awarded two projects from HEC, Pakistan

### Activity in Establishing and developments

- He has contributed and developed recent trends in education, research and administration at the the Chemistry Department at Alexandria University
- Established a laboratory for carbohydrates and nucleosides at the International center for chemical and biological sciences, HEJ Research Institute for Chemical Sciences, at University of Karachi, Pakistan.

### Major Research Interest:

#### ❖ Synthetic potential of carbohydrates in the field of heterocycles.

- Novel methodologies in the carbohydrate field have been developed. The potential of carbohydrates as raw materials, for the synthesis of other classes of organic compounds, heterocyclic compounds, acyclic nucleosides and C-nucleosides.
- The scope of the reactions of hydrazones and osazones has been explored. These compounds could be degraded and/or modified into functionalized heterocycles with various potential applications. The feasibility of this approach became evident from the great number of publications on the topic. Thus chemical modifications of carbohydrates, L-ascorbic acid and its analogues, furantriones, kojic acid as well as the chemistry of enolones and functionalized carbonyl compounds have been considered of potential significance.
- The study of the scope of these reactions led to the probing of some unusual reactions which turned to be new approaches for the synthesis of heterocyclic compounds. Along this line novel approach for the synthesis of biheterocycles and fused heterocycles.
- Glycosylthio-heterocycles as donors and acceptors have been explored. Synthesis of oligosaccharides. New synthetic approaches for human milk oligosaccharides and artificial antigens have been achieved
- Generation of Glycosyl bonds especially  $\beta$ -mannosidic linkage. Devise of protecting groups and role of acetals in deducing the configuration of the diol from the respective isopropylidene derivative via a shift rule to recognize the configuration of diols.
- The conformational analysis of various acyclic side chains has been studied. Quantum chemical calculations have been used to deduce the reaction mechanism of novel reactions.
- X-Ray analysis and advanced spectroscopic techniques has been used to assign the structures.

#### ❖ Chemistry of Functionalized carbonyl compounds:

Ascorbic acids, Kojic acid, Dimedone, Enolones, Hydrazones and osazones

#### ❖ Microwave assisted organic synthesis

#### ❖ Studies on natural products

- The chemical constitution of Papyrus and its characteristics were studied.
- Studies on Marine natural products.

#### ❖ Studies towards the applied area

- Explorations towards finding new leads of potential activity against Hepatitis B virus, antimicrobial agents, immunomodulator activity and glycosidase inhibitors have attracted considerable attention in order to substitute the known ones with less complicated and economic pathways.
- A study has been directed towards corrosion inhibition and correlation of the phenomenon with structures of inhibitors.
- The distribution of carbohydrates in the Mediterranean and Red seas (Egypt) was investigated and correlated with pollution and environmental aspects.
- Improvements of Asphalt and lubrication oils have been investigated.
- Development of petroleum Additives and antioxidants for Lubricating Oils.

### List of Publications

*This list is divided into Books, Book chapters, review*

*Articles, Research papers and presentations at conferences*

***Principle author in more than 90 % of the publications***

#### ***Authored Book***

1. "Synthesis of naturally occurring nitrogen heterocycles from carbohydrates". El Sayed H. El Ashry and Ahmed El Nemr, Blackwell, Oxford, UK (2005).

#### ***Edited Books***

2. "Heterocycles from Carbohydrate Precursors". Edited by E. S. H. El Ashry, volume 7 in the series "Topics In heterocycles" Edited by Gupta, Springer, Germany (2007).
3. Book of abstracts, 7th Ibn Sina conference for pure and applied heterocyclic chemistry, Edited by E.S.H. El Ashry, A. Kassem and S. Kholeif, Alexandria univesity, Egypt (2000).

#### ***Patent***

4. SeptivaK vaccine" [647/2012 dated 8/4/2012]. Ahmad TA, El-Sayed L, and El Ashry SH. Egyptian Office of Patents in Alexandria University.

#### ***Book Chapters and Review Articles***

5. Nitrogen derivatives of L-ascorbic acid.E.S.H.El Ashry, in "Ascorbic Acid, Chemistry Metabolism and Uses", P.A. Seib and M Tolbert, Eds., Advances in Chemistry Series, American .Chemistry Society, Washington, D.C. 1, 200 (1982) 179.
6. 2,3,4-furantriones, E. S. H. El Ashry, A. Mousaad and N. Rashed, in 'Advances in Heterocyclic Chemistry', ed. A.R. Katritzky, Academic Press, New York, vol. 53 (1992) 233.  
***IF 2.38***
7. Condensed 1,2,4-triazines: I. Fused to heterocycles with three-, four-, and five-membered rings. E.S.H. El Ashry, N. Rashed, M. Taha and E. Ramadan, in 'Advances in Heterocyclic Chemistry', ed. A.R. Katritzky, Academic Press, New York, vol. 59 (1994) 39.  
***IF 2.38***
8. Condensed 1,2,4-triazines: II. Fused to heterocycles with six-and seven-membered rings and fused to two heterocyclic rings. E.S.H. El Ashry, N. Rashed, A. Mousaad and E. Ramadan, in 'Advances in Heterocyclic Chemistry', ed. A.R. Katritzky, Academic Press. New York, vol. 61 (1994) 207.  
***IF 2.38***

9. "Bicyclic 6-6 system: three heteroatoms 1:2. E.S.H. El Ashry and N. Rashed, in "Comprehensive Heterocyclic Chemistry", 2nd Ed., ed. A.R. Katritzky, C.W. Rens and E.F.V. Scriven, Pergamon Press, vol. 7 (1996) 561.
10. Acyclonucleosides: Part I. Seco-Nucleosides E.S.H. El Ashry and Y. El Kilany in Advances in Heterocyclic Chemistry, ed. A. R. Katritzky, Academic Press, New York, vol. 67 (1996) 391. **IF 2.38**
11. Acyclonucleosides: Part 2. Diseco-nucleosides, E.S.H. El Ashry and Y. El Kilany in "Advances in Heterocyclic Chemistry", ed. A.R. Katritzky, Academic Press, New York, vol. 68 (1997) 1. **IF 2.38**
12. Acyclonucleosides. Part 3: tri-, tetra-, and penta seco-nucleosides, E. S: H. El Ashry and Y. El Kilany, in "Advances in Heterocyclic Chemistry", ed. A. R. Katritziky, Academic Press, New York, vol. 69 (1998) 129. **IF 2.38**
13. Synthesis and reaction of Acenaphthenequinones. Part-1, A Review, E. S. H. El Ashry, H. Abdel Hamid and M. Shoukry, Ind. J. Heterocycl. Chem., 7 (1998) 313. **IF 0.30**
14. 1,2,3-Triazolo[x,y-z]pyrimidines. E.S.H. El Ashry and N. Rashed in "Advances in Heterocyclic Chemistry", Ed. A.R. Katritzky, Academic Press, New York, Vol. 71 (1998) 57. **IF 2.38**
15. 1,2,4-Triazolo and tetrazolo[x,y-z]pyrimidines, E. S. H. El Ashry and N. Rashed., in "Advances in Heterocyclic Chemistry", ed. A. R. Katritziky, Academic Press, New York, vol.72 (1998)127. **IF 2.38**
16. Dimroth Rearrangement. Translocation of heteroatoms in heterocyclic rings and its role in ring transformations of heterocycles, E. S. H. El Ashry, Y. El Kilany, N. Rashed, and H. Assafir in „Advances in Heterocyclic Chemistry“,e.d. A. R. Katritziky, Academic Press, New York, Vol. 75 (1999) 79. **IF 2.38**
17. Glycosidase inhibitors and their chemotherapeutic value, part I. E.S.H. El Ashry, N. Rashed and A. H. Shobuer, Pharmazie, 55 (2000) 251. **IF 0.81**
18. Glycosidase inhibitors and their chemotherapeutic value, part II. E.S.H. El Ashry, N. Rashed and A. H. Shobuer, Pharmazie, 55 (2000) 331. **IF 0.81**
19. Glycosidase inhibitors and their chemotherapeutic value, part III. E.S.H. El Ashry, N. Rashed and A. H. Shobuer, Pharmazie, 55 (2000) 403. **IF 0.81**
20. Carbohydrate hydrazones and osazones as organic raw materials for nucleosides and heterocycles. E.S.H. El Ashry and N. Rashed, Current Org. Chem., 6(2000)609.
21. Synthesis and reactions of acenaphthenequinones. Part-2. A Review, E. S. H. El Ashry, H. Abdel Hamid, A. Kassem and M. Shoukry, Molecules, 7 (2002) 155. **IF 1.74**
22. Components, therapeutic value and uses of myrrh. E. S. H. El Ashry, N. Rashed, O. M. Salama and A. Saleh, Pharmazie, 58 (2003) 163 **IF 0.81**
23. Fused heterocycloquinolines containing one nitrogen atom at ring junction: Part 1. four and five membered heterocyclo-quinoline. E. S. H. El Ashry, N. Rashed and E. I. Ibrahim, Advan. Heterocycl. Chem. 84 (2003) 71. **IF 2.38**
24. Synthesis of mono- and di-hydroxylated proline and 2-hydroxymethylpyrrolidines from non-carbohydrate precursors, A. El-Nemr and E. S. H. El ashry, Carbohydr. Res.. 338 (2003) 2265. **IF 2.03**
25. Thiohydantoin nucleosides. Synthetic approaches. A. I. A. Khodair, E. S. H. El Ashry and N. A. L. Al-Masoudi, Monatsh. Chem., 135 (2004) 1061. **IF 1.31**

26. Strategies of synthetic methodologies for constructing  $\beta$ -mannosidic linkage. E. S. H. El Ashry, N. Rashed and E. S. I. Ibrahim, *Curr. Org. Synth.* 2 (2005) 547. **IF 3.62**
27. Microwave irradiation for accelerating Organic reactions. Part 1: Three, Four and Five membered heterocycles. E. S. H. El Ashry, E. Ramadan, A. A. Kassem and M. Hagar, *Advan. Heterocycl. Chem.* 88 (2005) 1-110. **IF 2.38**
28. Microwave irradiation for accelerating organic reactions. Part 2: Six, seven fused and spiro heterocyclic ring systems. E. S. H. El Ashry, A. A. Kassem and E. Ramadan, *Advan. Heterocycl. Chem.* 90 (2006) 1. **IF 2.38**
29. Account of microwave irradiation for accelerating organic reactions. E. S. H. El Ashry and A. A. Kassem, *ARKIVOC*, (2006) 1. **IF 1.09**
30. Synthesis and role of glycosylthio heterocycles in carbohydrate chemistry. E. S. H. El Ashry, L. F. Awad, and A. I. Atta, *Tetrahedron*, 62 (2006) 2943. **IF 3.04**
31. Manipulation of Carbohydrate-carbon atoms for the synthesis of heterocycles. E. S. H. El Ashry, Y. El Kilany and N. M. Nahas. *Chemistry, Heterocycles from Carbohydrate Precursors*. Ed. E. S. H. El Ashry, *Topics in Heterocyclic Chemistry*, 7 (2007) 1.
32. New Developments in the Synthesis of Anisomycin and its Analogues. A. El Nemr and E. S. H. El Ashry. *Topics in Heterocyclic Chemistry, Heterocycles from Carbohydrate Precursors*. Ed. E. S. H. El Ashry), 7 (2007) 249.
33. Synthesis and biological relevance of N-acetylglucoseamine-containing oligosaccharides, E. S. H. El Ashry, M. R. Aly. *Pure Appl. Chem.*, 79 (2007) 2229. **IF 2.29**
34. Bicyclic 6-6 Systems: Three Heteroatoms 1: 2. E. S. H. El Ashry, N. Rashed. *Comprehensive Heterocyclic Chemistry. CHC III*, 10 (2008) 759.
35. Challenges in the stereocontrolled syntheses of  $\beta$ -rhamnosides. E. S. H. El Ashry, N. Rashed., E. I. Ibrahim, *Tetrahedron*, 64 (2008) 10631. **IF 3.04**
36. Growth factors: properties, receptors and inhibitors. M. Balba, K. Bassiouny, E. H. El Ashry, *Current Trends in Medicinal Chemistry*, 5 (2008) 33.
37. Carbohydrate hydrazones and osazones as organic raw materials for nucleosides and heterocycles, revisited and updated. E. S. H. El Ashry, *Current Org. Chem.*, 13 (2009) 976.
38. Dimedone: A versatile precursor for annulated heterocycles. E.S.H. El Ashry, L. Awad, Y. El Kilany, E.I. Ibrahim, *Adv. Heterocycl. Chem. Adv. Heterocycl. Chem.* 98 (2009) 1-141. **IF 2.38**
39. Recent Advances in Dimroth Rearrangement. A Valuable Tool for Synthesis of Heterocycles E.S.H. El Ashry, S. Nadeem, M.R.Shah, Y. El Kilany, *Adv. Heterocycl. Chem.* 101 (2010) 162. **IF 2.38**
40. Potential trehalase inhibitors: synthesis of trehazolin and its analogues. A. El Nemr, E. S. H. El Ashry, *Advan. Carb. Chem. Biochem.* 65 (2011) 45. **IF 2.67**
41. Development of Immunization Trials Against Klebsiella pneumonia. T. A. Ahmad, L. H. El-Sayed, M. A.Haroun, A. A. Hussein, E. S. H. El Ashry, *Vaccine*, 30 (2012) 2411-2420. **IF 3.62**
42. The use of propolis as vaccine's adjuvant. E. S. H. El Ashry, T. A. Ahmad, *Vaccine*, 31 (2012) 31-39. **IF 3.62**
43. Enzyme inhibitors as therapeutic tools. M. Balbaa, and E. S. H.El-Ashry, *Biochemistry & Physiology: Open Access*, 1 (2012) 1-8.



44. K.F.M. Atta, O.O.M. Farahat, T.Q. Al-Shargabi, M.G. Marei, and E.S.H. El Ashry, Chemistry of Pent-4-yne-1,3-diones (Acetylenic  $\beta$ -diketones) as Precursors for Heterocyclic Compounds. In A.R. Katritzky, editor: Advances in Heterocyclic Chemistry, Academic Press, 113 (2014), 67-110. **IF 2.38**
45. Recent Advances Towards Robust N-Protecting Groups for Glucoseamine as Required for Glycosylation Strategies. M. R. E. Aly and E.S. H. El Ashry. Adv. Carbohydr. Chemistry Biochem. 73 (2016)

***Research Papers published in International journals***

46. Acylated saccharide hydrazones and osazones. Z.M. El Shafei and E.S.H. El Ashry, Carbohydr. Res., 3 (1966) 184. **IF 2.03**
47. Substituted arylazoethylenes from aldose arylhydrazones. H.El Khadem, M.L. Wolfrom, Z.M. El Shafei and E.S.H. El Ashry, carbohydr. Res., 4 (1967) 225. **IF 2.03**
48. The structure of dehydro-L-ascorbic acid phenylosazone. H. El Khadem and E.S.H. El Ashry, Carbohydr. Res., 7 (1968) 501. **IF 2.03**
49. Oxidation of dehydro-L-ascorbic acid phenylosazones. H. El Khadem and E.S.H. El Ashry, Carbohydr. Res., 7 (1968) 507. **IF 2.03**
50. Studies on dehydro-L-ascorbic acid arylosazones. H. El Khadem and E.S.H. El Ashry, J. Chem. Soc., (1968) 2247. **IF 2.18**
51. Studies on dehydro-L-ascorbic acid arylosazones, Part II. Conversion into substituted azopyrazolones. H. El Khadem and E.S.H. El Ashry. J. Chem. Soc., (1968) 2248. **IF 2.18**
52. Studies on dehydro-L-ascorbic acid arylosazones, Part III. Oxidation of dehydro-L-ascorbic acid arylosazones. H. El Khadem and E.S.H. Ashry, J. Chem. Soc., (1968) 2251. **IF 2.18**
53. Studies on dehydro-L-ascorbic acid arylosazones. Part IV. Olefinic monohydrazones and anhydro bis(hydrazones). H. El Khadem and E.S.H. Ashry, Carbohydr. Res., 13 (1970) 57. **IF 2.03**
54. Derivatives of dehydro-L-ascorbic acid bis(hydrazones). H. El Khadem, M.H. Meshreki, E.S.H. El Ashry and M. El Sekeili, Carbohydr. Res., 21 (1972) 430. **IF 2.03**
55. Synthesis of Cordycepin-C [8-(3'-deoxy- $\beta$ -D-ribofuranosyl)adenine]. H. El Khadem and E.S.H. El Ashry, Carbohydr. Res., 29 (1973) 525. **IF 2.03**
56. Anhydroosazones: Mass spectra and direct formation from glycosuloses and hydrazines. H. El Khadem R. Sindric and E.S.H. El Ashry, Carbohydr. Res., 30 (1973) 165. **IF 2.03**
57. 3-Acetoxy-1-phenylpyrazolin-4,5-dione 4-arylhyazone and related compounds. H.S. El Khadem and E.S.H. El Ashry, J. Heterocycl. Chem. 10 (1973) 1051. **IF 1.01**
58. Synthesis of a C-nucleoside analog of the antibiotic Cordycepin. H. El Khadem and E.S.H. El Ashry, Carbohydr. Res., 32 (1974) 339. **IF 2.03**
59. Mode of action of phenylhydrazine on kojic acid. E.S.H. El Ashry, Carbohydr. Res., 33 (1974) 178. **IF 2.03**

60. Preparation of a substituted 3-acetamido-3-deoxy-ribofuranosyl bromide suitable for the synthesis of puromycin analogs. H.S. El Khadem, T.D. Audichya, E.S.H. El Ashry and R. Sindric, *Carbohydr. Res.*, 41 (1975) 318. **IF**  
2.03
61. Saccharide oxadiazoles. M. Shaban, E.S.H. El Ashry and M.A.M. Nassr and V.N. Reinhold, *Carbohydr. Res.*, 42 (1975) cl. **IF**  
2.03
62. Chelation and the nucleophilicity of  $\alpha$ -ketoaldehyde and  $\alpha$ -diketone monophenyl hydrazones. H. El Khadem, G.P. Kreisman and E.S.H. El Ashry, *J. Org. Chem.*, 40 (1975) 3149. **IF**  
4.22
63. Heterocycles from Carbohydrate precursors. E.S.H. El Ashry and Y. El Ashry, *Chem. Ind. (London)* (1976) 372. **IF**  
0.14
64. Mono and bishydrazones of D-erythrose and 2,3-dioxo- $\gamma$ -butyrolactone. H. El Khadem, Z.M. El Shafei, E.S.H. El Ashry and M. El Sadek, *Carbohydr. Res.*, 49 (1976) 185. **IF**
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