

# **Curriculum Vitae (CV)**

**أ.د. الفيتوري عياد فرحات العكاري**

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**Sex:** Male

**Date of birth/ place:** 1965/ Souq Elgouma (Tripoli) , Libya

**Nationality:** Libyan

**Marital Status:** Married

**Number of Children:** 4

## **Educational qualifications:**

**1988-** Bachelor of Science (B.Sc.) (chemistry); Tripoli University, Tripoli, Libya

**1992-** Master of Science (M.Sc.) (chemistry); Tripoli University, Tripoli, Libya

**Thesis:** "Intercalation of pellicular materials (thin film) of zirconium-, hafanium phosphate and zirconium-titanium-, hafnium-titanium phosphate with nitrogen heterocyclic compounds " Tripoli University, Tripoli, Libya, 1991/1992.

**2006-** Doctor of philosophy (Ph.D.) (chemistry); Torvergata University, Rome, Italy

**Thesis:** "Cyclooligomerization reactions catalyzed by ruthenium and rhodium porphorins," Torvergata University, Rome, Italy, 2006.

**Academic degree:** Professor 2014

**Area:** Inorganic chemistry

**Specific area:** Chemistry of Catalysis , Organometallic Chemistry , Tetravalent metals phosphate , General Chemistry and Staff member in the Department of Chemistry, Faculty of science, Tripoli University from 1992 to 2022

## **Teaching experience: 28years:**

**1992-1996** -Teaching Assistant (Chem. Dept.), Faculty of Science, Tripoli university.

**1996-2000-** Lecturer (Chem. Dept.), Faculty of Science, Tripoli University, Tripoli Libya.

**2000-2008-** Assistant Professor (Chem. Dept.), Faculty of Science, Tripoli University, Tripoli Libya.

**2008-2014-** Associated Professor (Chem. Dept.), Faculty of Science, Tripoli University, Tripoli Libya.

2014-2022- Professor (Chem. Dept.), Faculty of Science, Tripoli University, Tripoli Libya.

### **Teaching and reseache experience and courses:**

- 1- Teaching General chemistry to the students of the faculties of Science , Pre-Pharm, Medicine and Vet and Agriculture (Theoretical and Practical courses)
- 2- Italian language courses in Perugia, Italy, 2001-2002
- 3- Teaching Inorganic chemistry for undergraduate Students (Theoretical and Practical courses), for the chemistry departments of Tripoli University.
- 4- Teaching Inorganic chemistry for graduate Students (Theoretical and Practical courses), for the chemistry departments of Tripoli University.
- 5- Member of the Committee on the development of master degree Syllabus of the Chemistry Department, Faculty of Education, Tripoli
- 6- Member of the Committee on the development of syllabus of Chemistry Department for students of teacher training colleges in Libya and in teacher training system, four and six semesters
- 7- Coordinator of General chemistry and Organic chemistry courses in the Committee of Pre-Pharm., Medicine and Vet. ,Tripoli University, 2007-2016

### **Undergraduate level courses taught:**

- 1- General chemistry and general practical chemistry I&II.
- 2- Organometallic chemistry.
- 3- Coordination Chemistry I (Properties of transition metals, nomenclature, isomers and theories of bonding of complexes)
- 4- Practical inorganic Chemistry (Synthesis and analysis of the complexes).
- 5- Aqueous and non-aqueous Solvents.
- 6- Coordination chemistry II (Electronic spectra).

### **Graduate level courses taught:**

- 1- theoretical Inorganic CH520
- 2- practical inorganic CH520P
- 3- theoretical Inorganic CH621 , CH622
- 4- Practical inorganic Chemistry (Synthesis and analysis of the complexes).
- 5- Spectroscopy and Special topics in Inorganic Chemistry.

#### **رسائل الشكر:**

1. من اللجنة المشرفة على المؤتمر العلمي الثاني للعلوم الاساسية /طرابلس ليبيا 2007/11
2. من اللجنة المشرفة على وضع مناهج مراكز تأهيل واعداد المعلمين 2008/2007
3. من اللجنة المشرفة على اليوم العلمي الثاني للكيمياء 2017
4. من اللجنة المشرفة على اعداديات الطب 2007
5. من اللجنة المشرفة على اليوم المفتوح (البحث العلمي واقع وافاق بأشراف كل من وزارة التعليم والبحث العلمي والهيئة الليبية للبحث والعلوم والتكنولوجيا) 2014/12/15

#### **اللجان التي شارك بها:**

1. لجنة الكيمويات بالقسم 2007 – 2016
2. لجنة قبول أعضاء هيئة التدريس بقسم الكيمياء كلية التربية 2015
3. لجنة الكتب والمجلات 2007 - 2012
4. لجنة الاجهزة الخاصة بالتحاليل الكيميائية بالقسم 2009 - 2018
5. اللجنة المشرفة على وضع مفردات ومناهج مراكز تأهيل واعداد المعلمين 2008/2007
6. اللجنة المشرفة على اليوم العلمي الثاني للكيمياء 2017
7. اللجنة المشرفة على اعداديات الطب 2007 - 2016
8. اللجنة المشرفة على وضع مفردات منهج قسم الكيمياء لطلبة الماجستير كلية التربية 2010
9. اللجنة المشرفة على المؤتمر العلمي الثاني للعلوم الاساسية /طرابلس ليبيا 2007/11

### **Publications and Conferences :**

- 1- Effect of H<sub>3</sub>PO<sub>4</sub> Concentration on The Degree of Crystallinity of Pellicles of Mixed Hafnium-Titanium Phosphates., S.K.Shakshooki and F.A.El-Akari , 4<sup>th</sup> *Chemistry in industry Conference & Exhibition, Gen-5 , pp 1-4, Bahrain (2000).*
- 2- Thermal Behavior of 2,2'-Bipyridyl, 4,4' Bipyridyl and 1,10-Phenanthroline Products of Pellicular of Hafnium Phosphate., S.K.Shakshooki and F.A.El-Akari, O. El-Azzabi, Y. Shaaban and A. El-Rais, 4<sup>th</sup> *International Conference & Exhibition on Chemistry in industry, Gen-8 , pp 1-8, Bahrain (2000).*
- 3- Effect of H<sub>3</sub>PO<sub>4</sub> Concentration on The Degree of Crystallinity of Pellicular Zirconium Phosphate and Hafnium Phosphate Prepared Via Reflux Method S.K.Shakshooki, F.A.Tarish, and F.A. El-Akari, 6<sup>th</sup> *International Conference on Inorganic Membranes, Montpellier, France (2000).*
- 4- Thermal Behavior of 2,2'-Bipyridyl, 4,4' Bipyridyl and 1,10-Phenanthroline Products of Pellicles Mixed Zirconium- Titanium Phosphates., S.K.Shakshooki and F.A.El-Akari, 2<sup>nd</sup> *International Conference of Pure Applied and Environmental Chemistry, SL-11, Irbid, Jordan(2002).*
- 5- The formation of substituted benzene aryethynes catalyzed by ruthenium and rhodium porphyrins. E. Elakkari, B. Floris, P. Galloni, P. Tagliatesta, VII *FIGIPS Meeting in Inorganic Chemistry, Lisbona, giugno 2003.*
- 6- Catalysis by metalloporphyrins. The formation of substituted benzene from aryethynes catalyzed by Ru and Rh porphyrins. E. Elakkari, B. Floris, P. Galloni, P. Tagliatesta, VII *Italian Seminar on Catalysis, New Frontiers in Molecular Catalysis, Venezia, luglio 2003.*
- 7- The Formation of 1-Aryl-Substituted Naphthalenes by an Unusual Cyclization of Arylethynes Catalyzed by Ruthenium and Rhodium Porphyrins. Elfituri Elakkari,

- Barbara Floris, Pierluca Galloni and Pietro Tagliatesta, *Eur. J. Org. Chem.* 2005, 889–894.
- 8- The cyclooligomerization of arylethyne in ionic liquids catalyzed by ruthenium porphyrins: a case of real catalyst recycling. Valeria Conte, Elfituri Elakkari, Barbara Floris, Valentina Mirruzzo and Pietro Tagliatesta, *Chem. Commun.*, 2005, 1587–1588.
- 9- Highly Selective Biaryls Formation by the Cyclooligomerization of Arylethyne Catalysed by Ruthenium Porphyrins ; Pietro Tagliatesta, Elfituri Elakkari, Agostina Capodilupo, a Giuditta Viticchie', Angelo Lembo and Daniel Cicero; International conference on porphyrins and phtalocyanines (ICPP-4) Roma , 2-7 July 2006
- 10- Highly selective biaryl formation by the cyclooligomerization of arylethyne catalyzed by rhodium and ruthenium porphyrins, Pietro Tagliatesta, Elfituri Elakkari, Alessandro Leoni, Angelo Lembo and Daniel Cicero, *New J. Chem.*, 2008, 32, 1847–1849.
- 11- Conductometric Studies On CC-Substituted Ferrites; M. R. El-Talbi, E. E. Elshereafy, Elfituri Elakkari and Elhamassi Ali; *Journal of Faculty of Teachers Training*; 16-26(2009).
- 12- The Cyclooligomerization of Ethynyl naphthalenes Catalyzed by Ru(OEP)CO; Elfituri Elakkari, Marco Mereu, Agostina-Lina Capodilupo, Pietro Tagliatesta. *XXXIII Congresso Nazionale di Chimica Inorganica, Siena, luglio, 2005.*
- 13- The Cyclooligomerization of Ethynyl naphthalenes Catalyzed by Ru(OEP)CO. Elfituri Elakkari, Marco Mereu, Agostina-Lina Capodilupo, Pietro Tagliatesta, 5<sup>th</sup> Scuola Internazionale di Chimica Organometallica, Camerino, Settembre, 2005.
- 14- Conductivity Studies on Synthetic Rubber, effect of Accelerator Percent; Elhamassi Ali, Elfituri Elakkari, A. Etorki and A. Mashaly, *Second basic science conference, Tripoli- Libya, 04-08/11/ 2007.*
- 15- Further Conductivity Studies on mixed natural-synthetic Rubber; Elfituri Elakkari, Elhamassi Ali A. Etorki and A. Mashaly, *The 14<sup>th</sup> Arab Chemistry Conference & Exhibition (ACC-14), Tripoli-Libya , 18-21 Feb. 2008.*
- 16- Under potential Deposition and Stripping of Lead Ions at Disorganized Monolayer Modified Gold Piezoelectrode; A. M. Etorki, E. Elakkari, A. Elhamassi and M. M. Abuein, *The International Conference of Inorganic Chemical Industries & Mineral Recourses Research Division, February 1-2, 2009, Cairo, Egypt.*

- 17- Synthesis and Thermal Behaviour of Pillares  $\gamma$ -Zirconium Phosphate,  $\gamma$ -Zirconium Phosphate Phosphite-, 1,10-Phenanthroline Cu(II) Materials; S. K. Shakshooki, R. S. Abudlal, and F.A. El-Akari; *10<sup>th</sup> International Conference on Chemistry and its Role in Development ICCRD' 10; Mansoura-Sharm El-Sheikh* , March 16-21, 2009
- 18- Thermal behaviour of pillars zirconium phosphate, zirconium phosphate-phosphite-, 1,10-phenanthroline-Cu(II) materials. S.K.Shakshooki, R.S.Abudlal , F.M.Turki, F.A. El-Akari and R.Abukhatwa *University Bulletin – Issue No.12-2010*.
- 19- Poly-Vinylalcohol/Exfoliated Pellicular  $\gamma$ -Zirconium Phosphate Nanocomposites; S.K.Shakshooki, F.A.El-Akari, A.M.Hamassi, N.M.Etorki and A.M. El-Hamady, *11<sup>th</sup> Eurasia Conference on Chemical Sciences, 6-10 October 2010, Dead Sea Jordan*.
- 20- Poly(vinylalcohol/ $\alpha$ -vanadylphosphate-,  $\alpha$ -typepellicular zirconiumphosphate composite membranes, S.K.Shakshooki, O.H. Azzabi, F.A. El-Akkari, F. Tarish, A.M. EL-Dernawi, R.S. Tunisi and O.H. Burshan *International Conference On Materials Imperatives In The Millennium [MINM 2010] 29 Nov. -2 Dec. 2010, Cairo, Egypt*
- 21- Application of 1, 4-benzenedimethanethiol self-assembled monolayer on gold piezoelectrode as a sensor for determination of Hg(II) Abdunnaser M. Etorki , Elfituri Elakkari, Elhamassi Ali :, *Chemical Sensors 2011, 1: 10*
- 22- S.K.Shakshooki<sup>1</sup>, Omar H. El-Azzabi<sup>1</sup>, F.A.El-Akkari<sup>1</sup> , F. A. Tarish<sup>1</sup>, A. M. EL-Dernawi<sup>1</sup> R. S. Tunisi , A. S. Benhamed and O. H. Burshan Poly(vinyl alcohol) /  $\alpha$  –Vanadyl phosphate-,  $\alpha$ -Type Pellicular Zirconium Phosphat Composite Membranes., *Journal Faculty of Education Number Seven , Autumn (2011)pages12-20*.
- 23- S. K.Shakshooki, A. M. Rhuma and F.A.El-Akari, .Inclusion Of Amino Acids L- alanine, L-arginine, L-serine, L- lysine, L-asparagine And proline Into Fibrous Cerium Phosphate Membrane. *Journal Faculty of Education Number Seven Autumn (2011)pages21=38*.
- 24- FT-IR and thermal Behaviour of  $\theta$ -Type Zirconium-, and Hafnium phosphates And their pellicular membranes. S. K. Shakshooki , O. H. EL-Azzabi , F. M. Turki , F. A. EL-Akari, R. S. Abodlal and S. R. EL-Tarhuni,. *Egypt J. Anal. Chem. Vol. 21 , pp. 45-56 (2012)*.
- 25- Thermal and Sorption Properties of Nano Fibrous Cerium Phosphate/Exfoliated  $\alpha,\gamma$ -Zirconium Phosphates Composites S. K. Shakshooki, S. R. EL-Tarhuni' F. A.

- EL-Akari, R. H. Ghariani , S. M. EL-Fetury, A. M. EL-Hamady , A. Benhamed and O.H. Burshan ,. “*Nanotechnology, Biotechnology and Spectroscopy, Tools of success in the coming era*” 1-3 March 2012, Cairo - Egypt
- 26- Poly(vinylalcohol)/Fibrous Cerium Phosphate Nano Composite Membranes A.A. Elejmi, S.K.Shakshooki, A.M.Hamassi, F.A.El-Akari and N.A.Masoud,. “*Nanotechnology, Biotechnology and Spectroscopy, Tools of success in the coming era*” 1-3 March 2012, Cairo - Egypt
- 27- Complexation of Trace Metal Ions by Ligands Anchored to Gold Surfaces Different than by Ligands Dissolved in Homogeneous solutions Abdunnaser M. Etorki, Elfituri Elakkari and Ali Elhamassi :, *Orient. J. Chem.*, Vol. 27(3), 919-927 (2011).
- 28- Fibrous Cerium(IV) Hydrogen Phosphate Membrane Self Supported Benzimidazole Polymerization Agent, S. K. Shakshooki a, F. A. El-Akari b, S. M. El-Fituri and S. S. El-Fituri *Advanced Materials Research Vol. 856 (2014) pp 3-8.*
- 29- Polystyrene/Lamellar Germanium Phosphate Nanocomposite Membranes, S. K. Shakshooki, F. A. El-Akari, S. M. El-Fituri and S. S. El-Fituri , *Advanced Materials Research Vol. 856 (2014) pp 9-15.*
- 30- Facile Synthesis of Poly (vinylalcohol)/Fibrous Cerium Phosphate Nanocomposite Membranes, S.K.Shakshooki, A.A. Elejmi, A.M.Hamassi, F.A.El-Akari, N.A.Masoud, *Physics and Materials Chemistry, 2014, Vol. 2, No. 1, 1-6*
- 31- Poly(vinyl alcohol) /  $\alpha$ -Vanadylphosphate-,  $\alpha$ -Type Pellicular zirconium Phosphate Composite Membranes , Sadek K.Shakshooki , Omar H. El-Azzabi , Fituri A.El-Akari , Fatheia A. Tarish, Amira M. ELDernawi , Randa S. Tunisi , Ahlam S. Benhamed and Osama H. Burshan, *Journal Of Faculty Of Education , Number Seven Autumn 2011,pp21-38.*
- 32- Inclusion of Amino Acids L-alanine, L-arginine, L-serine, L- lysine, L-Asparagine and Proline into Fibrous Cerium Phosphate Membrane; S. K.Shakshooki, A. M. Rhuma and F. A.El-Akari , *Journal Of Faculty Of Education , Number Seven Autumn 2011,pp1-11.*
- 33- Facile Synthesis of  $\gamma$ -Zirconium Phosphate-Fibrous Cerium Phosphate / Emeraldine Salt Nanocomposite Membrane: S. K. Shakshooki, F. A. El-Akari, A. A. Jangher, A. M. Hamasi, *American Journal of Chemistry 2015, 5(3): 75-85*
- 34- Exfoliated Zirconium Phosphate-Fibrous Cerium Phosphate Nanocomposite Membrane Self Supported Indole, Its Co-Aniline and Co-Pyrrole Polymerization

- Agent : S. K. Shakshooki, F. A. Elakari, Aisha M. Shaabani; *American Journal of Chemistry* 2015; 5(4): 115-123
- 35- Novel Nanosized Mixed  $\gamma$ -Zirconium - Titanium Phosphates: S. K. Shakshooki, F. A. El-Akari, R. H. Idris, A. M. Hamassi, M. R. Eltalbi, Rabiea A. Elmabrouk, Amira A. Elfaki , *American Journal of Chemistry*, 2016; 6(4), pp. 104-110
- 36- Synthesis and Characterization of Novel Highly Crystalline Layered Nanosized Zirconium-, Hafnium-, Titanium Tellurates from Their Parent Glassy Sodium Forms via HF Solution: S. K. Shakshooki, F. A. El-Akari , Salima M. El-Hamroni , R. H. Idris and Amani M.El-Aouzi; *J. Pharm. Appl. Chem.*, No. 3, 205-210 (2016)
- 37- Synthesis and Characterization of Novel Pellicular  $\gamma$ -Zirconium Phosphate Phosphite/Fibrous Cerium Phosphate Nanocomposite Membranes: S. K. Shakshooki, F. A.Elakari, A. M. EL-Hamady, S. M. Elfituri and R. Elghariani: *J. Pharm. Appl. Chem.*, No. 1, 27-31 (2016)
- 38- Poly (vinylalcohol)-, Polystyrene/Theta Type Zirconium Phosphate Nanocomposite Membranes:, S. K. Shakshooki ; F. Masaudi ; F. El-Akari ; A. Jangher: *Academic Journal of Chemistry.*, No. 2017; 2(12), pp 143-154
- 39- Zirconium Phosphate/Fibrous Cerium Phosphate Nanocomposite Membrane Self Supported Benzimidazole, Its Co-Aniline, Co-Pyrrole and Co-Indole Polymerization Agent: S. K. Shakshooki, F. A. Elakari, Aisha M. Shaabani; *Academic Journal of Chemistry* ,Vol. 3, Issue. 10, pp: 88-100, 2018
- 40- Shakshooki, S.K, Elakari, F.A. , Alahemmer, A.A, Glassy-,  $\alpha$ -Zirconium-Tin Phosphates / Fibrous Cerium(iv)Phosphate-Nanocomposite Membranes Self Supported Aniline, its Co-Pyrrole and co-Indole Polymerization Agent, The 4th International conference Theories and Application Basic and Biosciences, J. Faculty of Science University of Misurata,(2020) pp335-354.
- 41- Shakshooki, S.K, Elakari F.A., Aisha, A., Fawzeia Khamis, Glassy-,  $\alpha$ -Zirconium-Tin Phosphates /Fibrous Cerium Phosphate-Nanocomposite Membranes Self Supported Aniline , Pyrrole , Indole, Carbazole Polymerization, *International Conference on Applied Chemistry July 01-03, 2021 Munich, Germany.*
- 42- S. K. Shakshooki, F. A. El-Akari and Najat A. Abozaid; Synthesis and Characterization of Novel  $\Theta$ -Type Zirconium Phosphate-Crystalline Cerium Phosphate/ Polyaniline, Polyindole, Polycarbazole, Polyaniline-co-Polyindole, and Polyaniline-co-Polycarbazole Composites; *Academic Journal of Chemistry*; Vol. 6, Issue. 2, pp: 45-59, 2021

43- Sadek K. Shakshook, Fituri. A. El-Akari, Najat A. Abozaid,  $\alpha$ -Vanadyl Phosphate- Crystalline Cerium Phosphate Nanocomposite Self-Support Polymerization of Aniline, Indole, Carbazole and their Co-monomers. New York Congress, January15-16, 2022. pp345-350.

**Supervision:**

**3 M.Sc. theses (Awarded)**