

Curriculum Vitae

CURRICULUM VITAE OF TIMOTHY ISIOMA ODIAKA

- a) **NAME:** ODIAKA, Timothy Isioma
- b) **POST HELD:** Professor of Organometallics and Coordination
Chemistry, University of Ibadan
- (c) **DATE AND PLACE OF BIRTH:** 26th September, 1952
Idumuje – Unor, Aniocha North Local Government,
Delta State.
- (d) **PERMANET HOME ADDRESS:** Odiaka's Residence, Idumuobu
Quarters, Ogbe-Owelle, Idumuje-Unor,
Delta State
- (e) **CURRENT POSTAL ADDRESS:** Department of Chemistry,
University of Ibadan, Ibadan,
Oyo State, Nigeria.
- (f) **MARITAL STATUS:** Married to Dr. (Mrs.) Stella Ifeyinwa Odiaka

(g) **NUMBER AND AGES OF CHILDREN:** Five

(h) **EDUCATIONAL INSTITUTIONS ATTENDED WITH DATES**

- (i) Urhobo College, Effurun, Delta State: (1965-1967)
- (ii) St. Anthony's College, Ubulu-Uku, Delta State: (1967-1968)
- (iii) Rumney College, Cardiff, Wales, United Kingdom: (1971-1974)
- (iv) University of College, Cardiff, Wales, United Kingdom: (1974-1980)
- (v) University of Cambridge, England, United Kingdom: (1980-1981)
- (vi) University of Ottawa, Ottawa, Canada: (1988)
- (vii) University of Witten-Herdecke, Germany: (1990-1992)

(i) **ACADEMIC/PROFESSIONAL QUALIFICATIONS OBTAINED (WITH DATES AND LOCATIONS)**

O/LEVELS: June 1972, Rumney College, Cardiff, U.K.

A/LEVELS: June 1974, Rumney College, Cardiff, U. K.

B.Sc. (Hons) Chemistry: June 1977, University College, Cardiff, Wales, U. K.

Ph.D. Chemistry (Organometallics): October 1980, University College, Cardiff, Wales, U. K.

C. Chem; MRSC: Royal Society of Chemistry, London: (June, 1980)

Member, New York Academy of Science, U.S.A.: (1998)

FICCON: Fellow of the Institute of Chartered Chemists of Nigeria: (2004)

FAS: Fellow of the Academy of Science: (2016)

(j) **NAMES AND ADDRESSES OF PREVIOUS EMPLOYERS, STATING STATUS:**

(i) University College, Cardiff, Wales, U. K.

Visiting Lecturer of Organometallic Chemistry: (1984-1985)

(ii) Olabisi Onabanjo University, Ago-Iwoye, Ogun State,

Nigeria. Visiting Professor of Organometallics and

Coordination Chemistry (1st November, 2003 to 30th

April, 2006 and 1st October, 2011 to 11th July, 2013)

(k) **NAME AND ADDRESS OF PRESENT EMPLOYER, POSTS HELD, DATE AND SALARY**

University of Ibadan, Ibadan, Oyo State, Nigeria (August 1981 till date)

August 21, 1981 to September 30, 1983: Lecturer II

October 1, 1983 to September 30, 1985: Lecturer I

October 1, 1985 to September 30, 1990: Senior Lecturer

October 1, 1990 to September 30, 1994: Reader

October 1, 1994 till date: Professor of Organometallics and
Coordination Chemistry
CONUASS 7: Step 10 (N3,209,139.96)

(1) **RESEARCH JOURNAL/BOOK PUBLICATIONS**

BOOKS

- (i) Modern Organometallic Chemistry by T. I. Odiaka (2004), University Press PLC, Jericho Ibadan, Nigeria, ISBN 978-030-887-3
- (ii) A Modern Approach to Undergraduate Practical Inorganic Chemistry by T. I. Odiaka (2008), Ibadan University Press. ISBN 978-075-072-X. Reprinted in 2012, 2015 and 2017.
- (iii) University Inorganic Chemistry by T. I. Odiaka (2017), University Press PLC, Jericho, Ibadan, Nigeria. ISBN 978- 978-940-260-1.
- (iv) History of the Chapel of The Resurrection, University of Ibadan (2008). Author of Chapter 11. Edited by T. N. Tamuno. SIBN 978-032-385-6 (Soft back) and ISBN 978-032-421-6 (Hard back).

JOURNAL ARTICLES

- 1. T. I. Odiaka and L. A. P. Kane-Maguire (1979). Addition of N. N. – dimethylaniline to Tricarbonyl (Cyclohexadienyl) ruthenium cation *Inorg. Chim. Acta.* 37, 85-87.
- 2. M. Gower, G. R. John, L. A. P. Kane-Maguire, T. I. Odiaka and A. Salzer (1979). Mechanism of Attack by Trialkylphosphines on Dicarbonyl (dienyl) iodoiron complexes. *Journal Chem. Soc., Dalton Trans.* 2003-2010.
- 3. L. A. P. Kane-Maguire, T. I. Odiaka, S. Turgoose and P. A. Williams (1980). The significance of amine basicity in determining the nucleophilicities of pyridines and anilines towards [(1-5- η - dienyl) Fe (CO)₃]⁺cations. *J. Organomet. Chem.* 188, C₅-C₉.

4. L. A. P. Kane-Maguire, T. I. Odiaka and P. A. Williams (1981). Addition of P-Toluidine to Tricarbonyl (1-5- η -dienyl) iron cations. *J. Chem. Soc. Dalton Trans.*, 200-204.
5. T. I. Odiaka and L. A. P. Kane-Maguire (1981). Addition of pyridines to $[\text{Fe}(1-5-\eta\text{-dienyl}(\text{CO})_3)]^+$ cations (dienyl = C_6H_7 , 2-MeOC $_6\text{H}_6$ or C_7H_9). *J. Chem. Soc., Dalton Trans.* 1163-1168.
6. L. A. P. Kano-Maguire, T. I. Odiaka, S. Turgoose and P. A. Williams (1981). Addition of anilines to Tricarbonyl (1-5- η -dienyl) iron cations. *J. Chem. Soc. Dalton Trans.* 2489-2495.
7. B. F. G. Johnson, J. Lewis, T. I. Odiaka and P. Raithby (1981). Reactions of $[\text{Os}_3(\text{CO})_{10}(\text{NCMe})_2]$ with amides and aldehydes; X-ray Crystal Structure of $[\text{Os}_3(\text{CO})_{10}(\mu\text{-H})(\text{COCH}_2\text{Ph})]$. *J. Organomet. Chem.* 216, C $_{56}$ -C $_{60}$.
8. G. R. John, L. A. P. Kane-Maguire, T. I. Odiaka and C. Eaborn (1983). Synthetic and Mechanistic Studies of Electrophilic attack by the cations $(\text{Fe}(\text{CO})_3 - (1-5-\eta\text{-dienyl}))^+$ (dienyl = C_6C_7 or 2-MeOC $_6\text{H}_6$) on Aryltrimethyl – silanes and – stannanes. *J. Chem. Soc., Dalton Trans.*, 1721-1727.
9. T. I. Odiaka and L. A. P. Kane-Maguire (1985). Mechanisms of Addition of Primary aromatic amines and Cyclohexylamine to Tricarbonyl (Cycloheptatrienyl) tungsten cation. *J. Organomet. Chem.*, 284, 35-46.
10. T. I. Odiaka and J. I. Okogun (1985). New Tricarbonyl (amido-substitued-1, 3-diene) iron complexes. *J. Organomet. Chem.*, 288, C $_{30}$ -C $_{32}$.
11. T. I. Odiaka (1985). Mechanism of Addition of Aryltrimethyl – silanes and – stannanes to Tricarbonyl (Cyclohexadienyl) ruthenium (II) cation. *J. Chem.Soc., Dalton Trans.*, 1049-1052.
12. T. I. Odiaka (1985). Mechanism of Attack on Tricarbonyl (Cycloheptatrienyl) tungsten cation by Triphenylphosphine. *Inorg. Chem. Acta.*, 103, 9-13.
13. T. I. Odiaka (1985). New Triosmium Metal Clusters derived from the reactions between $[\text{Os}_3(\text{CO})_{10}(\text{NCMe})_2]$ and amides. *J. Organometallic Chem.*, 284, 95-99.
14. B. F. G. Johnson, J. Lewis and T. I. Odiaka (1986). Synthetic Studies of the reaction between aldehydes and the triosmium metal cluster $(\text{Os}_3(\text{CO})_{10}(\text{NCMe})_2)$. *J. Organomet. Chem.*, 307, 61-64.

15. T. I. Odiaka (1986). Mechanism of Addition of 2 – Ethylpyridine to Tricarbonyl (1-5- η -dienyl) iron (II) cations (Dienyl = C₆H₇, 2-MeOC₆H₆ or C₇H₉). *J. Chem. Soc., Dalton Trans.*, 2707-2710.
16. T. I. Odiaka (1987). Synthetic and Mechanistic Studies of the Addition of 4-Chloroaniline to Tricarbonyl (1-5- η -dienyl) iron (II) cations (dienyl – C₆H₇, 2-MeOC₆H₆ or C₇H₉). *J. Organomet. Chem.* 321, 227-235.
17. T. I. Odiaka (1988). Synthetic and Mechanistic Studies of the addition of 2, 6-Dimethylaniline to Tricarbonyl (1-5- η -dienyl) iron (II) complexes (Dienyl = C₆H₇, 2-MeOC₆H₆ or C₇H₉), *Inorg. Chim. Acta.*, 145, 267-271.
18. T. I. Odiaka (1988). Steric and Electronic influences on the rate of addition of pyridines to Tricarbonyl (Cycloheptadienyl) iron (II) cation. *J. Organomet. Chem.*, 345, 135-141.
19. T. I. Odiaka (1988). Steric and Electronic influences on the addition of pyridines to Tricarbonyl (2-Methoxy-cyclohexadienyl) iron (II) cation. *J. Organomet. Chem.*, 356, 199-205.
20. T. I. Odiaka (1989). Addition of anilines to the (Fe(CO)₃ (1-5- η -C₇H₉)] BF₄ complex, and the “ordered Transition State” Mechanism. *J. Chem. Soc., Dalton Trans.*, 561-565.
21. T. I. Odiaka (1989). Steric and Electronic influences on the rate of addition of anilines to the Tricarbonyl (Cyclohexadienyl) iron (II) cation. *Inorg. Chim. Acta.*, 164, 143-147.
22. T. I. Odiaka and R. Van Eldik (1992). Effects of Temperature and Pressure on the Addition of 4-Ethylpyridine to Tricarbonyl (1-5- η -dienyl) iron II complexes. *J. Chem. Soc., Dalton Trans.*, 2215-2218.
23. T. I. Odiaka and R. Van Eldik (1992). Significance of entropies and volumes of activation for the addition of 4-Formylpyridine to Tricarbonyl (1-5- η -dienyl) iron (II) complexes (dienyl = C₆H₇, 2-MeOC₆H₆ and C₇H₉). *J Organomet Chem.*, 438, 131-142.
24. T. I. Odiaka and R. Van Eldik (1992). Temperature and Pressure dependence of the addition of 4-Cyanopyridine to Tricarbonyl (1-5- η -dienyl) iron (II) complexes (dienyl = C₆H₇ or C₇H₉). *J. Organomet. Chem.*, 425, 89-97.
25. T. I. Odiaka (1992). Mechanism of Addition of N, N-Dimethylaniline to [Os (CO)₃ [(1-5- η -C₆H₇)] BF₄]. *Nigerian J. Science*: 26, 173-179.

26. T. I. Odiaka (1992). Mechanistic Studies of the formation of the Kinetic and thermodynamic products of the reaction between the Organometallic cation (1-5- η -C₆H₇) Fe (CO)₃]⁺ and aniline. *Nigerian J. Science*: 26, 165-172.
27. T. I. Odiaka, J. I. Okogun and D. A. Okorie (2007). New Iron Tricarbonyl (Cyclohexa-1, 3-diene-substituted) natural products. *J. Science Research*. 7, (1), 1-8
28. T. I. Odiaka, I. A. Adejoro and O. F. Akinyele (2009), Synthesis and Characterization of new tricarbonyl (1-4 η -cyclohexa-1, 3-diene) – N-anilino iron complexes. *Inorganic Chemistry (India)*, 4, 1-4.
29. I. A. Adejoro, T. I. Odiaka and O. F. Akinyele (2010). Structure, Electronic and Thermodynamic Properties of New Pyridino-1 4- η -Cyclohexa- 1, 3- Diene Iron Tricarbonyl Complexes – A Theoretical Approach. *European Journal of Scientific Research*, 47, (2), 230-240.
30. I. A. Adejoro, T. I. Odiaka and O. F. Akinyele (2011). Semi-empirical (P. M. 3) Studies of New Pyridino-1-4- η -2-Methoxycyclohexa-1, 3-diene iron tricarbonyl complexes. *Inorg. Chem*: 6, 5-9 India).
31. T. I. Odiaka, O. F. Akinyele and I. A. Adejoro (2011). Synthesis and Characterization of New Pyridino- 1, 4- η -cyclohexa-1, 3-diene derivatives of Iron tricarbonyl complexes, *European Journal of Chem.* 8, 960-965.
32. T. I. Odiaka, I. A. Adejoro and O. F. Akinyele (2012). Semi-empirical (PM3) Studies of novel Aminopyridino-1, 4- η -cyclohexa-1, 3-diene iron tricarbonyl complexes. *American J. Scientific and Ind. Res. (AJSIR)*. 3, 1-13.
33. I A. Adejoro, T. I. Odiaka and O. F. Akinyele (2012). Molecular Modeling and Computational Studies of Dimethylpyridino-1, 4- η -2-methoxycyclohexa-1, 3-diene Iron Tricarbonyl Complexes. *Asian Journal of Research in Chemistry (AJRC)*, 5, 146-152.
34. I. A. Adejoro, T. I. Odiaka and O. F. Akinyele (2013). Structure and Electronic Properties of Aminopyridino-1, 4- η -2-methoxycyclohexa-1, 3-diene iron tricarbonyl complexes – A Semi empirical PM.3 approach. *Asian Journal of Research in Chemistry (AJRC)*, 6, 1034-1039.
35. I. A. Adejoro, T. I. Odiaka and O. F. Akinyele (2014). Density Functional Theory and Reactivity Parameters of Dimethylpyridino-1, 4- η -cyclohexa-1, 3-diene iron Tricarbonyl Complexes, *Journal of Natural Sci. Res.* 4, 38-45.
36. T. I. Odiaka, T. T. Adebisin and I. A. Oladosu (2014). Demetallation of 1, 3-diene products obtained from Addition of Natural Products to tricarbonyl (Cyclohexadienyl) iron tetrafluoroborate. *J. Organomet. Chem.*, 761, 179-189.

37. O. F. Akinyele, T. I. Odiaka and I. A. Adejoro (2016). Molecular Simulation of Tricarbonyl (1-4- η -5-exo-N-X, X-dimethylpyridino-cyclohexa-1, 3-diene) Iron Complexes: - A Semi Empirical PM6 Approach. American Chemical Science Journal, 16, 1-8.
38. T. T. Adebisin, I. A. Oladosu, N. O. Obi-Egbedi and T. I. Odiaka (2016). Dematallation, antimicrobial and computational studies of methoxy-1, 3-diene substituted products from addition of natural products to tricarbonyl (2-methoxycyclohexa-dienyl) iron tetrafluoroborate. J. Organomet. Chem., 819, 87-94.

(m) **ADMINISTRATIVE EXPERIENCE**

1. Dean, Faculty of Science, University of Ibadan, Ibadan, Oyo State, Nigeria (August 01, 2007-July 31, 2009)
2. Editor –in-Chief, Journal of Science Research, University of Ibadan (ISSN 11179333) (August 01, 2007-July 31, 2009).
3. Head, Inorganic Chemistry Unit, Department of Chemistry, University of Ibadan (October 01, 1992 – July 31, 2017).
4. Member of Senate, University of Ibadan (1988 till date).
5. Coordinator of Postgraduate Programmes, Department of Chemistry, University of Ibadan (1995 to 2003).
6. Editor, Physical Sciences, Journal of Science Research, University of Ibadan (1993 to 2006).
7. Member, University of Ibadan Central Appointment and Promotions Committee (2005-2009).
8. Member, Committee of Provost and Deans, University of Ibadan, Ibadan (2007-2009).
9. Chairman, Eight-man team of distinguished academics from University of Ibadan to the 3rd Nigerian Universities Research and Development Fair (NURESDEF), University of Lagos, Lagos. (26th to 28th March, 2008)
10. I have represented the Vice-Chancellor, University of Ibadan, Professor Olufemi A. Bamiro, on several occasions both within and outside the University. (2007-2009).

11. Secretary, Nigerian Association of Humboldt Fellows, University of Ibadan Branch, (1993-2000).
12. Vice-President, University Prime Chapter, Full Gospel Businessmen's Fellowship International, University of Ibadan (2002 to 2004).
13. Chairman, Evangelism Committee, Chapel of the Resurrection, University of Ibadan, Ibadan, (May 2004 to May 2015).
14. Head, Department of Chemistry, University of Ibadan, from August 01, 2017

(n) **ACADEMIC DISTINCTION/SPECIAL AWARDS**

1. Undergraduate Scholarship by the British Government (1974 to 1977).
2. Postgraduate Scholarship by University College, Cardiff, United Kingdom (1977 to 1980).
3. Postdoctoral Fellowship Award at University of Cambridge, England by the Natural Sciences and Engineering Research Council, United Kingdom (1980-1981)
4. Research Fellowship Award at the University of Ottawa, Ottawa, Canada by the Natural Sciences and Engineering Research Council, Canada (1988).
5. Alexander von Humboldt Research Fellowship Award at the University of Witten-Herdecke, Germany (1990 to 1992)
6. Cited in "Who 's Who in Nigeria" (2003 and 2007 Editions)
7. Cited in "The Contemporary Who's Who of Professionals in the World" (U.S.A., 2004/2005 Edition).

8. Cited in "Who's Who in the World" (Cambridge, England, 2004/2005 Edition).
9. Have mentored several M.Sc and PhD students in Organometallic Chemistry including Professor Tobi Oluwafemi (University of Johannesburg, Johannesburg, South Africa), Dr. Olawale Akinyele (Obafemi Awolowo University) and Dr. Tunmise Adebisin (U. I.).

(o) **ADMINISTRATIVE EXPOSURE/KNOWLEDGE BACKGROUND**

1. Chairman, Faculty of Science Appointments and Promotions Committee, University of Ibadan, Ibadan (2007 to 2009). There were ten Departments in the Faculty with 28 Professors and 14 Readers during my tenure as Dean.
2. Chairman, Faculty Board of Science, University of Ibadan, Ibadan (2007 to 2009).
3. Chairman, Committee of Heads of Departments and Sub-Deans, Faculty of Science, University of Ibadan (2007 to 2009).
4. Chairman, Finance Committee of The College of Science and Technology, University of Ibadan (2007 to 2009).
5. Chairman, Finance Committee of the Zoo Management Board, University of Ibadan (2007 to 2009).
6. Chairman, Finance Committee of the Computing Centre, University of Ibadan (2007 to 2009).
7. Chairman, Faculty of Science Board of Studies, University of Ibadan (2007 to 2009).
8. Chairman, Undergraduate and Postgraduate Committees, Faculty of Science, University of Ibadan (2007 to 2009).
9. Chairman, Faculty of Science Student's Disciplinary Committee, University of Ibadan (2007 to 2009).
10. Member, University of Ibadan Central Disciplinary Committee for Students and Staff (2007 to 2009).

11. External Examiner (B.Sc., Ph.D.) to:
- (i) University of Lagos, Lagos, Nigeria (2002-2005).
 - (ii) Ladoke Akintola University of Technology, Ogbomosho, Oyo State (2007 to 2010).
 - (iii) Olabisi Onabanjo University, Ago-Iwoye, Ogun State (2008 to 2011)

Covenant University, Ota, Ogun State (2010 to 2013)
 - (iv) Obafemi Awolowo University, Ile-Ife, Osun State, (2013 till date)

12. **ASSESSOR OF THE PUBLICATIONS OF CANDIDATES FOR PROMOTION TO THE PROFESSORIAL GRADE IN THE FOLLOWING UNIVERSITIES:**

- (i) University of Calabar, Calabar, Cross River State, Nigeria.
- (ii) University of Lagos, Lagos, Nigeria.
- (iii) Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria.
- (iv) Federal University of Petroleum Resources, Effurun, Delta State, Nigeria.
- (v) Lagos State University, Lagos, Nigeria.
- (vi) Covenant University, Ota, Ogun State, Nigeria.
- (vii) Osun State University, Osogbo, Osun State, Nigeria.
- (viii) Bowen University, Iwo, Osun State.
- (ix) University of Port-Harcourt, CHOBA, Rivers State.
- (x) Redeemer's University, Ede, Osun State
- (xi) Kano University Science and Technology, Wudil, Kano State
- (xii) Federal University of Agriculture, Abeokuta, Ogun State.

- (xiii) Olabisi Onabanjo University, Ago-Iwoye, Ogun State
- (xiv) Umar Musa Yar'adua University, Katsina, Katsina State
- (xv) University of Nigeria, Nsukka, Enugu State.

(p) **EXTRA CURRICULAR ACTIVITIES**

- (i) Reading
- (ii) Travelling
- (iii) Playing Table Tennis
- (v) Watching Football (Liverpool FC fan)

(q) **NAMES AND ADDRESSES OF THREE REFEREES:**

1. **Emeritus Professor Ayo Banjo, CON, NNOM, FNAL, D-LTT (HON)**
Department of English
University of Ibadan
Ibadan, Oyo State
(GSM NO. 08033400062)
2. **Professor Olufemi A. Bamiro, FNSE, FAS**

Department of Mechanical Engineering

University of Ibadan

Ibadan, Oyo State

(GSM NO. 08023151513)

3. **Professor Olusegun Ekundayo, FAS**

Department of Chemistry

University of Ibadan

Ibadan, Oyo State

(GSM NO. 08023245475)

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Professor Tim Odiaka

B.Sc., Ph.D. (Wales), C. Chem., MRSC, (London) FICCON, FAS

GSM NO. 08023209247