

# CURRICULUM VITAE

of

**PROFESSOR JONATHAN OYEBAMIJI BABALOLA**

B.Sc (Ed) (Ife), M.Sc (Ibadan), Ph.D (Ibadan)

FCSN, FRSC, FAS

**Department of Chemistry  
Faculty of Science  
University of Ibadan  
Ibadan, Nigeria.**

May, 2023

# CURRICULUM VITAE

- I Name:** Jonathan Oyebamiji BABALOLA
- II Date of Birth:** 14 February, 1968  
**Town:** Saki  
**State of Origin:** Oyo State
- III Nationality:** Nigerian
- IV Current Postal Address:** Department of Chemistry  
P. O. 22788, UIPO  
University of Ibadan  
Ibadan.
- Permanent Home Address:** 6, Ajibade Adenigi Street, Isokun, Off  
Arulogun Road, Ojoo, Ibadan, Nigeria
- Phone Numbers:** +2348034540881  
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- E-Mail Addresses:** [bamijibabalola@yahoo.co.uk](mailto:bamijibabalola@yahoo.co.uk)  
[bamijibabalola@gmail.com](mailto:bamijibabalola@gmail.com)  
[jo.babalola@ui.edu.ng](mailto:jo.babalola@ui.edu.ng)
- V Marital Status:** Married  
**Spouse:** Olufunmilayo Ayobami BABALOLA  
(Nee Ojeleye)
- VI Names and Ages of Children:**
- |                             |          |   |
|-----------------------------|----------|---|
| John Oluwaseun BABALOLA     | 27 years | Electrical/Electronics<br>Engineering         |
| David Oluwasayo BABALOLA    | 24 years | Medical Doctor                                |
| Eunice Oluwasikemi BABALOLA | 21 years | 400L Psychology Student                       |
| Bernice Oluwasola BABALOLA  | 18 years | 200L Communication &<br>Language Arts Student |
- VII First Academic Appointment:** Assistant Lecturer, 1997

**Present Academic Status:**  
**Salary:**

Professor (Full, Tenured Chair), 2011  
CONUASS 7 STEP 10

**VIII Institutions Attended (with dates):**

- |  |                       |
|--|-----------------------|
| (a) University of Bonn, Bonn, Germany,           | Nov. 2004 – Dec. 2005 |
| (b) University of Parma, Parma, Italy,           | Sep. 2003 – Oct. 2004 |
| (c) University of Ibadan, Ibadan, Nigeria,       | Aug. 1994 – Apr. 1999 |
| (d) University of Ibadan, Ibadan, Nigeria,       | Dec. 1991 – Dec. 1993 |
| (e) Obafemi Awolowo University, Ile-Ife, Nigeria | Dec. 1984 – Apr. 1989 |
| (f) Baptist High School, Saki, Nigeria           | Sep. 1979 – Jun. 1984 |

**IX Academic Qualifications**

- |   |           |                             |
|---|-----------|-----------------------------|
| (a) Post-Doctoral                       | Dec. 2005 | University of Bonn, Germany |
| (b) Post-Doctoral                       | Oct. 2004 | University of Parma, Italy  |
| (c) Ph.D. Biophysical Chemistry         | Apr. 1999 | University of Ibadan.       |
| (d) M.Sc. Chemistry (Ph.D. grade)       | Dec. 1993 | University of Ibadan.       |
| (e) B.Sc. (Ed.) (Hons.) Chemistry (2:2) | Apr. 1989 | O.A.U Ile-Ife.              |
| (f) WASCE (3 distinctions, 6 credits)   | Jun. 1984 | Baptist High School, Saki   |

**X Professional Qualifications and Diplomas**

- (a) Organisation for the Prohibition of Chemical Weapons' Fourth Regional Assistance and Protection Course for Instructors from African States, Tshwane, South Africa, 31 August – 11 September 2015.
- (b) DIES International Deans' Course, Modern Higher Education Management and Leadership, 2013-2014
- (c) IUPAC Safety Training, Dow Benelux BV, Terneuzen, The Netherlands, Feb. 2013.
- (d) National Council for Tertiary Education (NTE), Senior Academic Leadership Training (SALT), Training for Heads of Department, sponsored by The Carnegie Cooperation of New York, held at the International Conference Centre, University of Ibadan from 29 March – 1 April, 2017.
- (e) Certificate of Attendance, German Language (A1), Goethe Institute, Bonn, Oct.-Dec., 2004
- (f) Certificate of Attendance, Italian Language (Basic), University of Parma, Jan. – Jun., 2004

**XI Teaching, Research, Administrative and Managerial Experience:**

**Teaching Experience**

*At Ladoke Akintola University of Technology Ogbomoso, Nigeria (1995 – 1997)*  
Courses Taught

CHM 101	Introductory Chemistry I	4 units
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CHM 191	Practical Chemistry I	1 unit
CHM 192	Practical Chemistry II	1 unit
CHM 331	Chemical Kinetics	3 units
CHM 332	Thermodynamics	3 units
CHM 495	Industrial Supervision	3 units
CHM 595	Project	6 units

***At University of Ibadan, Ibadan, Nigeria (1997 – Date)***

**Undergraduate Courses Taught**

CHE 157	Physical Chemistry I (Now CHE 156)	4 units
CHE 195	Practical Chemistry I	2 units
CHE 257	Thermodynamics, Kinetics and Electrochemistry	4 units
CHE 259	Physical chemistry for the Life Sciences	3 units
CHE 357	Introductory Quantum Chemistry, Statistical Thermodynamics and Electrochemistry	4 units
CHE 358	Organic and Physical Chemistry of Macromolecules	4 units
CHE 481	Chemistry Seminar (Physical Chemistry)	2 units
CHE 495	Research Project	4 units

**Postgraduate Courses Taught**

CHE 745	Biophysical Chemistry	4 units
CHE 746	Biological Macromolecules	4 units
CHE 754	Special Topics in Physical Chemistry	4 units
CHE 785	National and Global Chemical Environmental Issues I	4 units
ECH 785	National and Global Chemical Environmental Issues II	4 units
CHE 796	Research Project	6 units
MFS 718	Techniques for Chemical Analysis I	3 units

***At Obafemi Awolowo University, Ile-Ife, Nigeria***

***(15 December, 2015 – 14 December, 2016)***

**Undergraduate Courses Taught**

CHM 101	Introductory Chemistry	4 units
CHM 203	Basic Physical Chemistry	4 units
CHM 304	Chemical Thermodynamics	3 units
CHM 309	Experimental Physical Chemistry	2 units
CHM 403	Electrochemistry	3 units
CHM 406	Spectroscopy	3 units

***Postgraduate Courses Taught***

CHM 602	Experimental methods in Physical Chemistry	3 units
CHM 608	Advanced Thermodynamics	3 units



Sulfhydryl reactivity of haemoglobins has been used as an indicator of both tertiary and quaternary structure in haemoglobin. Various haemoglobins from different animals have been giving diverse interesting results. The study has become very important because it reveals the in-situ structural changes in haemoglobins in solution, hence giving better details than the static crystal structure of x-ray diffractions. Recent experimental confirmation of the tertiary structural changes has widened the research scope of this study. This is a basic research without any immediate application but it will increase the understanding of the structural changes in proteins, hence understanding of the functions. I collaborate in this area of research with

- Professor K. O. Okonjo, A retired professor from University of Ibadan
- Professor Stefano Betatti, University of Parma, Italy.
- Professor Simonetta Croci, University of Parma, Italy
- Professor Alberto Luis Caparelli, National University of La Plata, Argentina.

Lipid transfer and membrane fusion in neurodegenerative diseases. Accumulation of lipids causes various diseases hence the need to regulate the synthesis, esterification, degradation and transfer of lipids from one vesicle membrane to another. A new method of assaying lipid transfer, which is better than the previous ones, has been developed. This has no significant effect on the chemical and physical properties of the lipids. A recent discovery however revealed that some of the lipid transfer has been by fusion. Research is presently being carried out on how to measure lipid transfer that has occurred by fusion and subsequently to separate it from the total lipid transfer. This research may become a basic tool in solving the problems of some neurodegenerative diseases. The work was expanded to include how lipids/polymers can form nanodiscs and how they can solubilise native proteins. I collaborate in this work with

- Professor Dr Konrad Sandhoff, University of Bonn, Germany.
- Professor Dr Sandro Keller, University of Graz, Austria/ Technical University of Kaiserslautern, Germany.
- Professor Dr Nicole Frankenberg-Dinkel, Technical University of Kaiserslautern, Germany.
- Professor Dr Michael Schlierf, Technical University of Dresden, Germany.

Environmental studies with special interest in kinetics, thermodynamics and isotherms of biosorption. This research is exploring the use of various waste biosorbents in the removal of heavy metals from water. The method is effective, safe and cheap; however there is a need for an in-depth research into the properties of the materials. There are still a number of indigenous biosorbents to be explored. Some of them are doped with nanoparticles or chemically modified for a better sorption/desorption capacities. The adsorption work was extended to the use of electrochemistry for adsorption of organic pollutants and water purification. This also led to catalytic dehydrogenation of organic compounds for environmental remediation. I collaborate in this studies with

- Professor Omotayo Arotiba, University of Johannesburg, South Africa.
- Professor N. Adesola Babarinde, Olabisi Onabanjo University, Ago-Iwoye.
- Dr Umesh Kumar, CSIR-Indian Institute of Petroleum, Dehradun, India.

- Professor Suman L Jain, CSIR-Indian Institute of Petroleum, Dehradun, India.

### **Research Supervision**

*List of former Ph.D students and their thesis titles*

<b>S/ No</b>	<b>Name</b>	<b>Title of Thesis</b>	<b>Year of Graduation</b>	<b>Status/Current Affiliation</b>
1	Patricia Ogochukwu MMEKA	Nanodisc formation mediated by neutral derivatives maleic acid polymers for solubilising membrane proteins and lipids	2023	Postdoc in Germany
2	Michael Tope AGBADAOLA	Purification and functional characterization of membrane proteins in native-like lipid-bilayer polymer-mediated nanodiscs	2023	Waiting to take up a Postdoc position
3.	Kenechi Kanayo ONYIA	Fluorinated Surfactants as Mild Alternatives to Conventional Detergents for Membrane-Protein Extraction	2021.	Senior Lecturer at University of Nigeria, Nsukka.
4.	Temilade Abisola ADEDIJI	Tertiary and Quaternary Structural Implications of the Effect of Inositol hexakisphosphate on the Affinities of Liganded Haemoglobins for Ellman's Reagent.	2021	Strategy and Innovation Specialist at Saskatchewan Health Authority, Canada.
5.	Joshua Olugbenga OLOWOYO	Photocatalytic Reduction of Carbon Dioxide by Engineered Titanium Dioxide Nanoparticles and their Modified Forms.	2019	Research Fellow at North West University, South Africa.
6.	Moses Gbenga PELEYEJU (Co-supervised in University of Johannesburg)	Electrochemical and Solar Photoelectrocatalytic Oxidation of Selected Organic Compounds at Carbon-Semiconductor Based Electrodes	2018	Lecturer at Vaal University of Technology, South Africa.
7.	Abraham Olusegun OLUWOLE	Solubilisation of Membrane Proteins and Lipids into Functional Bilayer Nanodiscs by Poly(diisobutylene- <i>alt</i> -maleic acid) and Poly(styrene- <i>co</i> -maleic acid).	2017	Research Fellow at Oxford University, United Kingdom.
8.	Loretta Chukwudumebi UMUNNA-JIKEME	Preparation and Characterisation of Magnetite/ <i>Raphia Farinifera</i> Nanocomposite and Its Evaluation for the Adsorption of	2015	Senior Lecturer at Delta State University

9.	Olutoyin Temilola AJELABI	some divalent metal ions from aqueous solutions. Equilibrium and kinetic studies on the reaction of 5,5'-dithiobis(2-nitrobenzoate) with the haemoglobin of domestic fowl ( <i>Gallus gallus domesticus</i> ).	2015	Business woman at Port Harcourt
10.	Martins Osaigbovo OMOROGIE	Adsorption of some toxic metal ions onto West African boxwood ( <i>Nauclea diderrichii</i> )	2014	Associate Professor at Redeemers' University, Ede.
11.	Abimbola Modupe OLATUNDE	Affinity and reactivity studies of the reaction of human ( <i>Homo sapiens</i> ) and cat ( <i>Felis catus</i> ) haemoglobins with 5,5'-dithiobis(2-nitrobenzoate).	2013	Senior Lecturer at University of Ibadan, Ibadan
12.	Vincent Olukayode ONINLA	Regulation of acid sphingomyelinase activity by membrane lipids.	2013	Senior Lecturer at Obafemi Awolowo University, Ile-Ife
13.	Olaniyi Kamil YUSUFF	Computer simulations of the global dynamics and conformational transitions in adult human haemoglobin.	2013	Senior Lecturer at University of Ilorin, Ilorin.
14.	Chijioke John AJAELU	Kinetic and equilibrium studies of the reaction of 5,5'-dithiobis(2-nitrobenzoate) with goat ( <i>Capra hircus</i> ) haemoglobin.	2012	Associate Professor at Bowen University, Iwo.
15.	Benevolent Orighomisan ATOLAIYE	Kinetic and equilibrium studies of the reaction of 5,5'-dithiobis(2-nitrobenzoate) with haemoglobins of dog and donkey.	2012	Professor at Nassarawa State University, Keffi.
16.	Matthew Ayorinde ADEBAYO	Equilibrium and kinetics studies of the reaction of 5,5'-dithiobis(2-nitrobenzoate) with the haemoglobins of the Guinea fowl.	2010	Associate Professor at Federal University of Technology, Akure.
17.	Misbaudeen ABDUL-HAMMED	Cholesterol transfer and membrane fusion induced by Niemann-pick type C-2 protein.	2010	Professor at Ladoke Akintola University of



18	Abideen Idowu ADEOGUN	The influence of allosteric effectors on the reaction of 5,5'-dithiobis(2-nitrobenzoate) with the CysF9[93] $\beta$ -Sulphydryl group of the haemoglobin of sheep (Oviesaries).	2009	Technology, Ogbomoso. Professor at Federal University of Agriculture, Abeokuta.
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*List of current Ph.D students and titles of their research*

<i>S/No</i>	<i>Name</i>	<i>Proposed Title</i>	<i>Status</i>
1.	Obianuju Leticia NWANJI	Modifications of some natural biosorbents for environmental remediation	Abstract registration
2.	Tolulope Folakanmi OLUOKUN	Ethylene selectivity and activity of iron-modified H-ZSM-5 catalyst for bio-ethanol dehydration to green ethylene	Analysis of data
3.	Jayeola Damilola KEHINDE	Some electrochemical processes for water purification and environmental remediation	Experiments
4.	Oluwatumininu Abosedo MUTIU		Proposal

In addition, I have supervised **58 M.Sc. and more than 60 B.Sc. research projects.**

## **Administrative and Managerial Experience**

*Cognate Administrative and Managerial duties at Bowen University, Iwo, Nigeria:*

### **1. Vice Chancellor, 1 August, 2023 –Date**

- Chief Executive Officer of the University
- Chair the University Senate
- Chairs the Congregation
- Responsible for the day to day running of the University

*Cognate Administrative and Managerial duties in University of Ibadan, Nigeria:*

### **1. Provost, Postgraduate College, October, 2018- July, 2022.**

- Pioneered the Establishment of the Postgraduate College
- Chaired Board of the Postgraduate College
- Chaired the Executive Committee of the Postgraduate College

- Chaired the Finance Committee of the Postgraduate College with a financial base of over **3 billion naira** and an annual budget of over **1 billion naira**
- Coordinated postgraduate programmes of over **12,000 students** in over 100 departments (in 17 faculties) and administered over 100 staff directly at the Postgraduate College. ***The postgraduate activities included admissions, registration, inductions, curricula, registration of titles, examinations and graduation.***
- In attendance at the University Ibadan Governing Council meetings
- Member, University of Ibadan Tenders Board
- Member, University of Ibadan Planning and Procurement Committee
- Member, Committee of Provosts, Deans and Directors
- Member of the University Senate
- And many other committees, ***testimonials*** are attached to this application.

## **2. Dean, Postgraduate School, March, 2017- September, 2018**

- Chaired Board of the Postgraduate School on behalf of the Vice Chancellor
- Chaired the Executive Committee of the Postgraduate School
- Member of the Finance Committee of the Postgraduate School with a financial base of over **3 billion naira** and an annual budget of over **1 billion naira**
- Coordinated Postgraduate programmes of over **12,000 students** in over 100 departments (in 17 faculties) and administered over 100 staff directly at the Postgraduate School. ***The postgraduate activities included admissions, registrations, inductions, curricula, registration of titles, examinations and graduation.***
- Member, University of Ibadan Tenders Board
- Member, University of Ibadan Planning and Procurement Committee
- Member, Committee of Provosts, Deans and Directors
- Member of the University Senate, and
- Many other committees

## **3. Sub-Dean (Sciences), Postgraduate School. August, 2010 – July, 2014**

- The First Sub-Dean (Sciences) of the Postgraduate School
- Member, Board of the Postgraduate School
- Member, Executive Committee of the Postgraduate School
- Member, Finance Committee of the Postgraduate School
- Member, Curriculum Committee of the Postgraduate School
- Coordinated the ICT development of the School
- Coordinated the Postgraduate School Radio Programme

- Coordinated the Publications of the Schools
  - Member, University Board of Survey
  - Chaired the Postgraduate School Planning and Procurement Committee
  - Member of the University Senate, and
  - Many other responsibilities assigned by the Dean, Post graduate School
- 4. Head, Physical Chemistry Unit, October 2008 – December, 2010.**
- Coordinated the Teaching of all Physical Chemistry Courses
  - Coordinated the Setting of Questions, Examination and Grading of all Physical Chemistry courses
  - Responsible for the Administrative Needs of the 9 Lecturers in the Unit
  - Coordinated the Activities of the Physical Chemistry Laboratories and their Technologists
- 5. Sub-Dean (Postgraduate), Faculty of Science, August 2008-July. 2010**
- Coordinated all the Postgraduate Activities in the Faculty.
  - Member of the Board of the Postgraduate School
  - Member of the Executive Committee of the Postgraduate School
  - Chaired the Faculty Postgraduate Board on behalf of the Dean
- 6. Ag. Director, General Studies Programme, June – August, 2003**
- Coordinated the Teaching and Examinations of all General Studies Courses
  - *Introduced Personalised and Scrabbled Questions for General Studies Examinations before Joint Admission and Matriculation Board, Nigeria commenced same.*
  - Chaired Senate Committee of General Studies Programme
  - Chaired the Finance Committee of the General Studies Programme
- 7. Course Supervisor for GES 104 (Science and Mankind) August, 1999 – July, 2003**
- Coordinated the Teaching and Examination of GES 104 (Science and Mankind) for all Students in the University
  - Member of the Senate Committee on General Studies Programme
- 8. Sub-Dean (Physical Sciences) Faculty of Science. August, 1999 – July, 2001**
- Coordinated the Registration of all Students for General Studies Courses in the Faculty of Science
  - Ensured Availability of Venue and Coordinated Teaching of General Studies Courses in the Faculty.
  - Member of the Senate Committee on General Studies Programme
  - Other duties as assigned by the Dean

*Administrative responsibilities at departmental level*

1. Examination Officer, Department of Chemistry, 2011-2012
2. Departmental Seminar Coordinator December 2006-September 2008.
3. Representative of Chemistry Department on the Faculty Board of Veterinary Medicine
4. Member - Departmental registration committee
5. Member - Departmental examination committee

*Other responsibilities in the University*

1. Member of University Senate August, 2006 – date
2. University of Ibadan Representative on the Governing Board of Osun State College of Education, Ila-Orangun, Osun State, Nigeria August, 2011 – July, 2013
3. Chair of the Faculty of Science, Inaugural Lecture Committee, August, 2009 – July, 2011
4. Member of the University Strategic Planning Committee
5. Member of the Faculty of Science Appointment and Promotion Committee
6. Chair of the Technical Committee for the Faculty of Science biannual International Conference.

***Other administrative/managerial responsibility outside the University***

*Committee of Provosts and Deans of Postgraduate Colleges and Schools in Nigerian Universities*

1. Chairman, Board of Doctoral Academy of Nigeria, 2020 till date
2. Public Affairs Secretary, Nigerian Academy of Science, January 2022 till date
3. Ex-officio, Committee of Provosts and Deans of Postgraduate Colleges and Schools in Nigeria Universities October, 2021 – date.
4. Chairman, Committee of Provosts and Deans of Postgraduate Colleges and Schools in Nigeria Universities, 2019 -2021
5. Vice-Chairman, Committee of Provosts and Deans of Postgraduate Colleges and Schools in Nigeria Universities, 2018 - 2019

*Community*

1. Justice of the Peace of Oyo State, Nigeria, 2006
2. Oyo State Scout Council Management, Committee
3. Scout Master
4. Cub Master

**XII Academic Distinctions:**

### ***Research Fellowships***

1. Senior Associate, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 2017 – 2023.
2. Return Fellowship, Alexander von Humboldt Fellowship, Germany, October – December, 2016
3. Short-term Research Fellowship, DAAD, July – September, 2008.
4. Regular Associate, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 2004 – 2011.
5. Fellow, Alexander von Humboldt Fellowship, Germany, 2004-2005.
6. Fellow, Training and Research in Italian Laboratories (TRIL), 2003-2004.
7. Visiting Scientist, Jawaharlal Nehru Centre for Advance Scientific Research (JNCASR), Bangalore, India under the auspices of the Committee on Science and Technology in Developing Countries (COSTED) of the International Council of Scientific Union (ICSU), October – December, 2002.
8. Visiting Associate Scientist, International Institute for Theoretical and Applied Physical Chemistry, La Plata, Argentina. under the auspices of The Third World Academy of Science Associate fellowship TWAS-UNESCO), 2001 – 2004.

### ***Honours and Distinctions:***

1. ***Chairman, Board of Doctoral Academy of Nigeria, 2020 till date***
2. Council member, Nigerian Academy of Science, 2020 till date
3. ***Chairman, Committee of Provosts and Deans of Postgraduate Colleges and Schools in Nigeria Universities, 2019 -2021***
4. Fellow, Chemical Society of Nigeria, 2019
5. Fellow, Nigerian Academy of Science, 2018
6. Vice-Chairman, Committee of Provosts and Deans of Postgraduate Colleges and Schools in Nigeria Universities, 2018 - 2019
7. Senior Associate, International Centre for Theoretical Chemistry, Trieste, Italy, 2017-2022
8. Fellow, Royal Society of Chemistry (UK), 2015
9. International Deans' Course Participant, Germany/Ghana/Ethiopia, 2013-2014.
10. Associate Member, Royal Society of Chemistry, 2013
11. Fellow, International Union of Pure and Applied Chemistry, 2013
12. Regular Associate, International Centre for Theoretical Physics, Trieste, 2004-2011
13. Justice of the Peace of Oyo State, Nigeria, 2007
14. Pilot Associate of the Organisation for the Prohibition of Chemical Weapons, The Hague, 2000
15. In 2019, I was searched for the position of Vice-Chancellor, University of Abuja. I declined to formally submit my application for the post.

16. In 2022, I was searched for the position of Vice-Chancellor, University of Lagos. I declined to formally submit my application for the post.
17. In 2022, I was searched for the position of Vice-Chancellor, Federal University of Technology, Minna. I declined to formally submit my application for the post.

### ***Grants and Awards***

1. i-COOP 2022 grant (Reference COOPB22038) from Ministerio De Ciencia e Innovacion, Spain. For 2023 and 2024 research visits between Spain, Nigeria and Argentina. Co-Principal Investigator.
2. Carnegie African Diaspora Fellowship Program to host Dr Alice Etim – 2021 .
3. DAAD In-country/In-region - Strengthening Higher Education and Research in West and Central Africa grant for Fisheries and Aquaculture – 3 years sponsorship for 10 students (5 Nigerian, 5 International) -2019
4. DAAD In-country/In-region - Strengthening Higher Education and Research in West and Central Africa grant for Energy Studies – 3 years sponsorship for 10 students (5 Nigerian, 5 International) -2019
5. Four DAAD Scholarship Under the Programme Research Grants - Bi-nationally Supervised Doctoral Degree with Prof. Dr. Keller Sandro, Technical University of Kaiserslautern, Kaiserslautern, Germany.
  - Michael Agbadaola 2020 – 2022
  - Patricia Mmeka 2018 – 2021
  - Kenechi Onyia 2017 – 2020
  - Abraham Oluwole 2015 – 2017
6. Alexander von Humboldt Book Grant - 2016
7. MacArthur Grant of 1 Million USD for the Establishment Centre for Sustainable Development, University of Ibadan, (Part of the team) – 2010
8. Three DAAD Scholarship Under the Programme Research Grants - Bi-nationally Supervised Doctoral Degree with Prof. Dr. Konrad Sandhoff, University of Bonn, Bonn, Germany.
  - Vincent Oninla 2011 – 2012
  - Misbaudeen Abdul-Hammed 2008 – 2009
  - Matthew Adebayo 2007 – 2008
9. University of Ibadan Senate Research Grant SRG/FSC/2010/1A for the Research on “Molecular and Structural Roles of the HisHC3[146]β Contribution to the Bohr Effect on Haemoglobin” ₦ 400,000:00.
10. A member of the University of Ibadan team that put up proposal for hosting of the Pan African University for Life and Earth Sciences Institute (including Health and

- Agriculture), PAULESI for the African Union Call – 2009
11. Organisation for the Prohibition of Chemical Weapon, The Hague, travel grant to present Plenary Lecture in La Plata, Argentina, November 2008.
  12. Alexander von Humboldt Return Grant, 2006, Ten thousand Euro.
  13. University of Ibadan Senate Research Grant SRG/FSC/2006/16A for the Research on “Hemoglobin C Disease: Solution-Active Structural Interaction on Liganded Haemoglobin C ( A3[6] $\beta^{Glu\rightarrow Lys}$  Mutation of Normal Haemoglobin A) from Reactivity of CysF9[93] $\beta$  sulfhydryl group” ₦ 400,000:00.
  14. University of Ibadan Senate Research Grant SRG/FSC/2000/9A for the Research on “Detoxification of Ricin (from Castor Oil Bean Plant) by Breaking its  $\alpha$  and  $\beta$  chains Disulphide Bonds” ₦ 100,000:00.
  15. University of Ibadan Senate Research Grant SRG/FSC/1996/30A for the Research on “Effects of Ionic Strength on Reactions of Human Haemoglobin A” ₦ 90,000:00.
  16. University of Ibadan Senate Research Grant SRG/FSC/94-95/29A for the Research on “Reactivities of Sulphydryl Groups in Haemoglobin with Multiple Sulphydryl Groups” ₦ 50,000:00.
  17. First Postgraduate School Multidisciplinary grant for Prof. K. O. Okonjo’s Team – 1995 (Ph.D Student Part of the Team) on the Projects “ Implications of Haemoglobin Reactivities for Human Health” ₦ 1,000,000:00
  18. Federal Government of Nigeria Postgraduate Scholarship, 1992

### **External Examinations/ External Assessments/Articles Reviews**

#### ***External Examiner for***

- |   |             |
|---|-------------|
| 1. University of Kwazulu-Natal, Durban, South Africa                    | 2019 – 2022 |
| 2. Federal University of Technology Akure                               | 2017        |
| 3. Obafemi Awolowo University, Ile Ife                                  | 2017 – 2021 |
| 4. Federal University of Agriculture, Abeokuta                          | 2016 – 2022 |
| 5. University of Johannesburg, South Africa                             | 2015 – 2022 |
| 6. General, Olabisi Onabanjo University, Ago-Iwoye, Ogun State, Nigeria | 2015 – 2019 |
| 7. Ladoke Akintola University of Technology, Ogbomoso, Nigeria          | 2015 – 2019 |
| 8. M.Sc. and Ph.D., University of Abuja, Nigeria                        | 2015 – 2017 |
| 9. University of Lagos, Nigeria   | 2014 – 2020 |
| 10. B.Sc. and M.Sc., University of Ilorin, Nigeria                      | 2014 – 2016 |

#### ***External Assessments for Professorial Grade***

- |  |      |
|--|------|
| 1. University of Cape Coast, Cape Coast, Ghana | 2022 |
| 2. Elizade University, Ilara-Mokin             | 2022 |
| 3. Nnamdi Azikiwe University, Awka             | 2021 |
| 4. Federal University of Technology, Akure     | 2021 |

5. Mountain Top University, Lagos	2021
6. Fountain University, Osogbo	2021
7. University of Nigeria, Nsukka	2020
8. Adamawa State University, Mubi	2019
9. Federal University Oye-Ekiti	2017
10. Umaru Musa Yar'adua University, Katsina	2018
11. Federal University of Agriculture, Abeokuta	2015 – 2022
12. Ladoke Akintola University of Technology, Ogbomoso	2015 – 2022.
13. University of Ilorin, Ilorin	2015 – 2020
14. Obafemi Awolowo University, Ile-Ife	2015 – 2020
15. Imo State University, Owerri	2015
16. Bowen University, Iwo	2014

***Other Assessments***

1. The AGNES-BAYER Research Grant for Biodiversity, Conservation and Sustainable Agriculture in Sub-Saharan Africa 2022
2. National Academy of Science Gold Medal Award for Physical Sciences 2022
3. Carnegie Scholarship for Ph.D in Public Policy through Partnership for Social and Governance Research 2020 – 2021

***Reviewer to the following ISI Journals***

1. Bioremediation Journal
2. Arabian Journal of Chemistry
3. Journal of Environmental and Chemical Engineering
4. Environmental Progress and Sustainable Energy
5. Journal of Water Process Engineering
6. Process Safety and Environmental Protection
7. Journal of the Taiwan Institute of Chemical Engineers
8. Desalination and Water Treatment
9. Journal of Cleaner Production
10. International Journal of Phytoremediation.
11. Journal of Molecular Structure
12. Biomass and Bioenergy
13. Proceedings of the Nigerian Academy of Science
14. Diamond & Related Materials
15. International Journal of Phytoremediation
16. Inorganic Chemistry Communications
17. Chemical Engineering Research and Design
18. Egyptian Journal of Petroleum



19. Bioresource Technology
20. Hazardous Materials

### **XIII) Membership of Academic and Professional Bodies:**

#### **Membership**

1. Chemical Society of Nigeria (CSN)
2. Institute of Chartered Chemists of Nigeria (ICCON)
3. Science Association of Nigeria (SAN)
4. Pan African Chemistry Network (PACN)
5. Italian Physical Society, Italy
6. Royal Society of Chemistry, United Kingdom (RSC)
7. International Union of Pure and Applied Chemistry (IUPAC)
8. Nigerian Academy of Science

#### **Fellowship Awards**

1. 2019 Chemical Society of Nigeria
2. 2018 Nigerian Academy of Science
3. 2015 Royal Society of Chemistry, United Kingdom
4. 2013 International Union of Pure and Applied Chemistry

### **XIV Scholarly publications, the link to Google Scholar, ORCID, SCOPUS and Research Gate (to be properly cited)**

#### **Dissertation/Thesis for Degrees**

1. M.Sc. Project - Kinetics of cyanide binding to chicken methaemoglobin (September, 1993).
2. Ph.D. Thesis - Effects of neighbouring groups and aggregation on sulfhydryl reactivity of haemoglobin (September, 1998).

#### **Peer-Reviewed Journal Articles**

**2023**

1. Akintelu Sunday Adewale, Oyebamiji Abel Kolawole, Olugbeko Seyifunmi Charles, Afolabi Deborah Omowunmi, David Dennisha Magdalene, Banda

- Lazarus Obed Livingstone, Kaka Mary Oluwatosin and Babalola Jonathan O. (2023). Mycosynthesis of Nanobiomaterials and Their Wound Healing, Antimicrobial, and Biofilm Inhibitory Activities. *Plasmonics* <https://doi.org/10.1007/s11468-023-01863-4>.
2. Oyebamiji Abel Kolawole, Akintelu Sunday A., Akande Ismail O., Aworinde Halleluyah O., Adepegba Oluwafunmilola A., Akintayo Emmanuel T., Akintayo Cecillia O., Semire Banjo, Babalola Jonathan O. (2023). Dataset on biochemical inhibiting activities of selected phytochemicals in *Azadirachta indica L* as potential NS2B–NS3 proteases inhibitors. *Data in Brief* **48**: 109162-109200. [View article \(google.com\)](#)
  3. Oyebamiji Abel Kolawole, Sunday Adewale Akintelu, Kehinde Abraham Odelade, Babatunde Adetuyi, Emmanuel Temitope Akintayo, Cecillia Olufunke Akintayo, Banjo Semire, and Jonathan Oyebamiji Babalola. (2023). Electron Withdrawing Group Effect on Biological Activities of Pyrimidine Hybrids as Potential Anti-Matrix Metalloproteinase-7. *Quimica Nova* **46**(8): 791-797. [https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=n-hnXkMAAAAJ&sortby=pubdate&citation\\_for\\_view=n-hnXkMAAAAJ:uLbwQdceFCQC](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=n-hnXkMAAAAJ&sortby=pubdate&citation_for_view=n-hnXkMAAAAJ:uLbwQdceFCQC)
  4. Abel Kolawole Oyebamiji, Jonathan Oyebamiji Babalola, Kehinde Abraham Odelade, Sunday Adewale Akintelu, Olubunmi Ayoola Nubi, Halleluyah Oluwatobi Aworinde, Esther Faboro, Emmanuel Temitope Akintayo, Banjo Semire (2023). Potential inhibiting activities of phytochemicals in *Scilla natalensis* bulbs against schistosomiasis. *Eclética Química* **48**(3) :54-80

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5. Adetoun E. Morakinyo, Femi E. Omoniyi, Samuel C. Nzekwe, Idris O. Agbabiaka, Paula A. Odole, Abel K. Oyebamiji, Anyim Godwin, Kafayat O. Bello-Ogunesan, Emmanuel T. Akintayo, Cecillia O. Akintayo, Sunday A. Akintelu, Temitope A. Oyedepo, and **Jonathan O. Babalola** (2022). Antioxidant, anti-hyperlipidemic and cardioprotective potentials of diet supplemented with *Parkia biglobosa* roasted seeds on isoproterenol-induced cardiotoxicity in Wistar rats. *Tropical Journal of Natural Product Research* **6** (11): 1882-1887. <http://www.doi.org/10.26538/tjnpr/v6i11.23>
6. Vincent O Oninla, Kehinde N Awokoya, **Jonathan O Babalola**, Kolawole I Balogun, Opeyemi S Ismail (2022). Optimization of synthesis conditions for graft copolymerization of methacrylic acid onto *Garcinia kola* pods and use in the sequestration of cationic dyes from simulated wastewaters. *Biomass Conversion and Biorefinery* 1-18 <https://doi.org/10.1007/s13399-022-03443-8> [View article \(google.com\)](#)
7. David Glueck, Anne Grethen, Manabendra Das, Ogochukwu Patricia Mmeka, Eugenio Pérez Patallo, Annette Meister, Ritu Rajender, Stefan Kins, Markus Räschele, Julian Victor, Ci Chu, Manuel Eitzkorn, Zoe Köck, Frank Bernhard, **Jonathan Oyebamiji Babalola**, Carolyn Vargas, Sandro Keller (2022). Electroneutral Polymer Nanodiscs Enable Interference-Free Probing of Membrane Proteins in a Lipid-Bilayer Environment. *Small*: 2202492. <https://doi.org/10.1002/sml.202202492> [View article \(google.com\)](#)
8. John, Kingsley I., Abesa Solomon, Aderemi Timothy Adeleye, Martins O. Omorogie, and **Jonathan O. Babalola** (2022). Nanocarbon Composites: Synthesis, Characterization, and Applications in Water Purification. *Heterogeneous Nanocatalysis for Energy and*

*Environmental Sustainability, Volume 2: Environmental Applications*: 10017.

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9. Kingsley Igenepo John, Daniel Agbor, Luqman Abdullahi Sani, Aderemi Timothy Adeleye, Abraham A Adenle, Ahmed M Idris, Ahmed O Omoniyi, **Jonathan O. Babalola**, Oludare O Osiboye, Mohammed Elawad (2022). Adsorption Performance of Zinc Semiconductor Nanoparticles in Tetracycline Removal. *Journal of Cluster Science* 1-13. DOI: [10.1007/s10876-022-02312-8](https://doi.org/10.1007/s10876-022-02312-8). [View article \(google.com\)](#)
10. Bartholomäus Danielczak, Marie Rasche, Julia Lenz, Eugenio Pérez Patallo, Sophie Weyrauch, Florian Mahler, Michael Tope Agbadaola, Annette Meister, **Jonathan Oyebamiji Babalola**, Carolyn Vargas, Cenek Kolar, Sandro Keller (2022). A bioinspired glycopolymer for capturing membrane proteins in native-like lipid-bilayer nanodiscs. *Nanoscale* **14** (5): 1855-1867. <https://doi.org/10.1039/D1NR03811G>. [View article \(google.com\)](#)
11. Vincent O. Oninla, Kehinde N. Awokoya, **Jonathan O. Babalola**, Asisat A. Abimbola, Taiwo B. Adesokan (2022). Comparison of methylene blue sequestration potentials of unmodified and Fenton's modified plantain (*Musa paradisiaca*) peels biomass. *International Journal of Energy and Water Resources* Pages 1-14. DOI: [10.1007/s42108-022-00185-1](https://doi.org/10.1007/s42108-022-00185-1). [View article \(google.com\)](#)
12. Martins O. Omorogie, Michael T Agbadaola, Abimbola M. Olatunde, B. Helmreich and **Jonathan O. Babalola** (2022). Surface Equilibrium and Dynamics for the Adsorption of Anionic Dyes onto MnO<sub>2</sub>/biomass Microcomposite. *Green Chemistry Letters and Reviews* **15**(1): 51-60. DOI: [10.1080/17518253.2021.2018508](https://doi.org/10.1080/17518253.2021.2018508). [View article \(google.com\)](#)

## 2021

13. Obianuju L. Nwanji, Martins O. Omorogie, **Jonathan O. Babalola**, Joshua O. Olowoyo (2021). Fenton-modified Malacanthaalnifolia tree bark for effective surface separation of tetracycline. *Biomass Conversion and Biorefinery* **11**(5):1853-1863. DOI: [10.1007/s13399-019-00552-9](https://doi.org/10.1007/s13399-019-00552-9). [View article \(google.com\)](#)
14. Abimbola M Olatunde, Martins O Omorogie, Michael T Agbadaola, Oreoluwa O Adesina, Elizabeth O Adeleye, **Jonathan O Babalola** (2021). Valorization and Evaluation of *Terminalia Ivorensis* Fibrous Waste for Its Environmental Sequestration Potential for Industrial Anionic Dyes in Aqua System. *Journal of Natural Fibers* 1-18. DOI: [10.1080/15440478.2021.1944441](https://doi.org/10.1080/15440478.2021.1944441). [View article \(google.com\)](#)
15. Martins O Omorogie, **Jonathan O Babalola**, Muhsinah O Ismaeel, James D McGettrick, Trystan M Watson, Daniel M Dawson, Mariolino Carta, Moritz F Kuehnel (2021). Activated carbon from *Naucleadiderrichii* agricultural waste—a promising adsorbent for ibuprofen, methylene blue and CO<sub>2</sub>. *Advanced Powder Technology* **32**(3): 866-874. DOI: [10.1016/j.apt.2021.01.031](https://doi.org/10.1016/j.apt.2021.01.031). [View article \(google.com\)](#)
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Ilham Bouchemal, Carolyn Vargas, **Jonathan Oyebamiji Babalola**, Cécile Breyton, Christine Ebel, Sandro Keller, Grégory Durand (2021). Maltose-Based Fluorinated Surfactants for Membrane-Protein Extraction and Stabilization. *Langmuir* **37(6)**: 2111-2122. <https://doi.org/10.1021/acs.langmuir.0c03214>.  
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18. Joshua O.Olowoyo, Upasana Saini, Manoj Kumar, Héctor Valdés, Hitendra Singh, Martins O.Omorogie, **Jonathan O. Babalola**, Alexander V.Vorontsov, Umesh Kumar, Panagiotis G.Smirniotis ((2020). Reduced graphene oxide/NH<sub>2</sub>-MIL-125(Ti) composite: Selective CO<sub>2</sub> photoreduction to methanol under visible light and computational insights into charge separation. *Journal of CO<sub>2</sub> Utilization*, **42**: 101300. DOI: [10.1016/j.jcou.2020.101300](https://doi.org/10.1016/j.jcou.2020.101300)  
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20. Gbenga Peleyeju, Eseoghene Umukoro, **Jonathan Babalola**, and Omotayo Arotiba, Omotayo (2020). Solar light responsive titanium sheet based carbon nanoparticles/B-BiVO<sub>4</sub>/WO<sub>3</sub> photoanode for the photoelectrocatalytic degradation of orange II dye water pollutant. *ACS Omega* **5 (10)**: 4743-4750. DOI: [10.1021/acsomega.9b02148](https://doi.org/10.1021/acsomega.9b02148)  
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23. Kehinde O. Okonjo, Adedayo A. Fodeke, Orighomisan B. Atolaiye, Abimbola M. Olatunde, Chijioke J. Ajaelu, Oluwatoyin Ajelabi, Abisola T. Adediji, Ayorinde M. Adebayo, Onyinyechi V.Uhuo and **Oyebamiji J. Babalola** (2019). R and R2 quaternary structures of

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<http://www.scopus.com/inward/record.url?eid=2-s2.0-85059419273&partnerID=MN8TOARS>
26. Loretta C Overah, Chukwujindu M Iwegbue, **Jonathan O Babalola**, Bice S Martincigh (2019). Fabrication and characterisation of a Fe<sub>3</sub>O<sub>4</sub>/Raphia farinifera nanocomposite for application in heavy metal adsorption. *Environmental Technology and Innovation* **13**: 11-29. DOI: [10.1016/j.eti.2018.09.007](https://doi.org/10.1016/j.eti.2018.09.007)  
<http://www.scopus.com/inward/record.url?eid=2-s2.0-85055874660&partnerID=MN8TOARS>
27. Kehinde N. Awokoya, Vincent O. Oninla, Iyanuoluwa T. Adeleke and **Jonathan O. Babalola** (2018). Preparation and Characterization of Methacrylic Acid-based Molecularly Imprinted Polymer as a New Adsorbent for Recognition of 1,4-dihydroxybenzene. *International Research Journal of Pure and Applied Chemistry* **16**(2), 1-11. DOI: [10.9734/IRJPAC/2018/38586](https://doi.org/10.9734/IRJPAC/2018/38586)
28. Vincent O Oninla, Abimbola M Olatunde, **Jonathan O Babalola**, Olubukade J Adesanmi, Gbolahan S Towolawi, Kehinde N Awokoya (2018). Qualitative assessments of the biomass from oil palm calyxes and its application in heavy metals removal from polluted water. *Journal of Environmental Chemical Engineering* **6** (4): 4044-4053. DOI: [10.1016/j.jece.2018.05.030](https://doi.org/10.1016/j.jece.2018.05.030).  
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29. Joshua O Olowoyo, Manoj Kumar, Nikita Singhal, Suman L Jain, **Jonathan O Babalola**, Alexander V Vorontsov, Umesh Kumar (2018). Engineering and modeling the effect of Mg doping in TiO<sub>2</sub> for enhanced photocatalytic reduction of CO<sub>2</sub> to fuels. *Catalysis Science & Technology* **8** (14):3686-3694. DOI: [10.1039/c8cy00987b](https://doi.org/10.1039/c8cy00987b).  
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114. Kehinde O. Okonjo, Yetunde O. Aken'ova, C. Olumuyiwa Aboluwoye, Sarah Nwozo Fredrick U. Akhighe, **J. Oyebamiji Babalola** and N.A. Adesola Babarinde, (1996). Effect of the A3[6] $\beta^{Glu-Val}$  Mutation on the reactivity of the CysF9[93] $\beta$  Sulfhydryl Group of Human Hemoglobin S. *Journal of Chemical Society (Faraday Transactions)* **92**(10), 1739-1746. DOI: [10.1039/FT9969201739](https://doi.org/10.1039/FT9969201739).  
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#### Chapters in Book/Edited Books

116. KM Samuel, ASO Ogunjuyigbe, JO Babalola (2020). Disruptions and eruptions: assessing the impact of COVID-19 on higher education in Nigeria. Centre for Petroleum, Energy Economics and Law (CPEEL), Ibadan, Oyo State [View article \(google.com\)](#)
117. Re-thinking Higher Education and National Development 2 (2019). Edited by **Jonathan Oyebamiji Babablola**, OyeduntanAdejoju Adediran, Kehinde Oluwaseun Kester, Ayodeji Samson Ogunjuyigbe and Kayode Samuel. Published by The Postgraduate School, University of Ibadan, Nigeria. **2019** ISBN 978-978-50949-0-1. 279 pages
118. Re-thinking Higher Education and National Development 1 (2019). Edited by Adeyinka Abideen Aderinto, **Jonathan Oyebamiji Babablola**, Aderemi Ismail Alarape, OyeduntanAdejoju Adediran and Kehinde Oluwaseun Kester. Published by The Postgraduate School, University of Ibadan, Nigeria. **2019** ISBN 978-978-50949-0-2. 215 pages
119. The Postgraduate School, University of Ibadan, Statistical Digest (2011-2012) Edited by Olajide Olorunnisola, **Oyebamiji Babalola** and Aderemi I. Alarape. Published by The Postgraduate School, University of Ibadan, Nigeria. **2014** ISBN 978-978-50948-9-3. 178 pages
120. Compendium of Abstracts of Ph.D Theses, 2011-2012, Volume 3, No. 1, Humanities-Based Disciplines. Edited by Olajide Olorunnisola, **Oyebamiji Babalola** and Aderemi I. Alarape. Published by The Postgraduate School, University of Ibadan, Nigeria. **2014** ISBN 978-978-50949-0-6. 178 pages
121. Compendium of Abstracts of Ph.D Theses, 2009-2010, Volume 2, No. 2, Science-Based Disciplines. Edited by Olajide Olorunnisola, **Oyebamiji Babalola** and Aderemi I. Alarape. Published by The Postgraduate School, University of Ibadan, Nigeria. **2014** ISBN 978-978-50949-0-7. 82 pages
122. Postgraduate School interdisciplinary Discourse: A Collection of Lectures Volume 2 (2014). Edited by Olajide Olorunnisola, Oyebamiji Babalola and Aderemi I. Alarape. ISBN 978-978-50949-0-9. 104 pages. [View article \(google.com\)](#)
123. Postgraduate School interdisciplinary Discourse: A Collection of Lectures Volume 1

- (2014). Edited by Olajide Olorunnisola, Oyebamiji Babalola and Aderemi I. Alarape. ISBN 978-978-50793-8-8. 124 pages [View article \(google.com\)](#)
124. Issues in Contemporary Evaluation (2014). Edited Olajide Olorunnisola Adams Otuoze U. Onuka, Oyebamiji Babalola, A. I. Alarape and S. A. Babarinde. ISBN 978-978-50948-7-9.
125. Compendium of Abstracts of Ph.D Theses, 2009-2010, Volume 2, No. 1, Humanities-Based Disciplines. Edited by Olajide Olorunnisola, **Oyebamiji Babalola** and Aderemi I. Alarape. Published by The Postgraduate School, University of Ibadan, Nigeria. **2013** ISBN 978-978-50948-3-0. 132 pages
126. African Culture and Identity, Volume 1. Edited by Olajide Olorunnisola, **Oyebamiji Babalola**, Adeyinka Aderinto and Aderemi I. Alarape. Published by The Postgraduate School, University of Ibadan, Nigeria. **2013** ISBN 978-978-50948-4-8. 146 pages.
127. Maria-Mandu Ekpeyong and **J. O. Babalola** (2012). Admission procedures and challenges. In understanding the Operations of the Postgraduate School. Edited by Olajide Olorunnisola, Bamiji Babalola and Adeyinka Aderinto. Published by The Postgraduate School, University of Ibadan, Nigeria. 2012 ISBN 978-978-488855-9-1. Pages 28-38
128. Contemporary Issues in Sustainable Development, Volume IV. Edited by Olajide Olorunnisola, **Bamiji Babalola** and Adeyinka Aderinto. Published by The Postgraduate School, University of Ibadan, Nigeria. **2012** ISBN 978-978-50948-1-7. 155 pages
129. Understanding the Operations of the Postgraduate School. Proceedings of a Workshop. Edited by Olajide Olorunnisola, **Bamiji Babalola** and Adeyinka Aderinto. Published by The Postgraduate School, University of Ibadan, Nigeria. **2012** ISBN 978-978-488855-9-1. 157 pages
130. Compendium of Abstracts of Ph.D Theses, 2005-2008, Volume 1, No. 1, Science-Based Disciplines. Edited by Labode Popoola, Olajide Olorunnisola, **Bamiji Babalola** and Ismail Azeez. Published by The Postgraduate School, University of Ibadan, Nigeria. **2010** ISBN 978-978-48855-4-6. 226 pages
131. **J. O. Babalola**, N.A.A. Babarinde, V.O. Oninla and O.A. Popoola (2008). Kinetics, Equilibrium, and Thermodynamics Studies of the Biosorption of Cadmium (II) and Nickel (II) by *Basella alba* L. in Food, Health and Environmental Issues in Developing Countries: The Nigerian Situation Edited by O.C Adeboye, K.O. Taiwo and A.A. Fatufe. Pages 482-491. Published by Cuvillier verlag Göttingen, Germany.
132. Sonibare, O.O., **Babalola, J. O.** and Odola, J.A. 2005. Chemistry and Industry: *In Science, Industry and Mankind* pages 27-51. Published by General Studies Programme, University of Ibadan. ISBN 978-978-365 84 8 4
133. Bolarinwa A.T. and **Babalola, J. O.** 2005. Philosophy of Science: *In Science, Industry and Mankind*, pages 13-26. Published by General Studies Programme, University of Ibadan. ISBN 978-978-365 84 8 4
134. **J. Oyebamiji Babalola** (2005). Oxidation and Reduction/Electrochemistry: *In Fundamentals of Physical Chemistry* pages 67-111. Published by University of Ibadan Press. ISBN 978-121-407-4

### Conference Proceedings

135. Abdul-Hammed, M., **Babalola, J.O.**, Breiden, B. and Sandhoff, K. (2012). Regeneration of streptavidin-coated paramagnetic beads for multiple uses in assays for inter-membrane lipid transfer. Proceedings of Nigerian Young Academy (PNYA). June 2012.



136. Adebayo, M.A., **Babalola, J.O.** and Abdul-Hammed, M. (2012). Liposomal Investigation of membrane fusion using radio-labelled ceramide and galactosyl ceramide. Proceedings of Nigerian Young Academy (PNYA). June 2012.
137. Abimbola M. Olatunde, Matthew A. Adebayo, **Jonathan O. Babalola** and Kehinde O. Okonjo (2011). Effect of inositol hexakisphosphate on the transition constant for the reaction of 5,5'-dithiobis(2-nitrobenzoate) with the carbonmonoxyhaemoglobin of pigeon (*Columba livia*) and Japanese quail (*Cortunixcortunix japonica*). A proceeding of Chemical Society of Nigeria. PHY 012 -016.
138. Babarinde N. A. A., **Babalola J.O.**, Ogunsile B. O., Onyekachi I.E., Ajibade O.O., Adeogun M.Y., Jetawo O.F. and Gideon P.O. (2009). Kinetic, Equilibrium and Thermodynamic studies of the biosorption of Cd(II) and Pb(II) from solutions using Bamboo Leaf (*Bambuza vulgaris*). *World Conference Series with Virtual ParticipationTM:2009 Interdisciplinary Conference on Chemical, Mechanical and Materials Engineering (2009 ICCMME) Hosted by Australian Institute of High Energetic Materials in Melbourne, Australia, 07-20 December 2009*

### Technical Reports

139. **J. Oyebamiji Babalola** and A.B. Nazrul Islam (2000). Survey of Biotechnology on the production of scheduled chemicals. A report submitted to The Organisation for the Prohibition of Chemical Weapons. Pp. 1-61.
140. **J. Oyebamiji Babalola** and Orlando Bravo. The mass balance of Cell room production and de-bottlenecking of chlorine production at Akzo-Nobel, East Chemical Base, Hengelo, The Netherlands. Reported in *Vereniging van de Nederlandse Chemische Industrie* (2001), **43** (1): 4-6.

### Google Citation Indices

Citations:	2552
h-Index:	26
i-10 Index:	66

### ResearchGate Indices

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h-index:	23

### Scopus

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Citations:	1336
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## Invited Lectures

S/No.	Details	Role
1.	Jomo Kenyatta University of Agriculture and Technology (JKUAT) 17 <sup>th</sup> Scientific, Technological and Industrialization Conference and Exhibition themed <b>'Leveraging Higher Education, Research and Innovation for Sustainable Development,'</b> held at the institution's Convocation Hall from 23-24 March, 2023.	Guest Speaker
2.	3 <sup>rd</sup> International Conference of the Faculty of Natural and Applied Sciences (FASCON), Lead City University, Ibadan on the theme <b>"Translational Research in Science and Technology for Sustainable Development Circa COVID-19 Era"</b> held at the International Conference Hall, Lead City University, Ibadan from 2 – 4 November, 2022.	Keynote Speaker
3.	Pharmacists Council of Nigeria's Mandatory Continuing Professional Development <b>"Strategic Management in Higher Education"</b> held at the Distance Learning Centre, University of Ibadan, Ibadan from 11 – 19 October, 2022.	Guest Lecturer
4.	British Council, Kenya office for the SPHEIR Forum <b>"Achieving sustainable change in higher education: Transforming institutions and systems, including quality assurance"</b> held at Emara Hotel Ole Sereni, Nairobi Kenya Nairobi on 22-23 March, 2022.	Panelist
5.	One-day Capacity Building Workshop for Selected Stakeholders of Postgraduate College in UNIOSUN <b>"Management and Administration of Postgraduate Examination and Output from Postgraduate Research Work"</b> held at the Olagunsoye Oyinlola Auditorium, Osun State University, Osogbo on 12 October, 2021.	Guest Lecturer
6.	One-day Capacity Building Workshop for Selected Stakeholders of Postgraduate College in UNIOSUN <b>"Running an Efficient Postgraduate College: A Critical Look at the Administrative Structure and Regulation Guiding the Operation of the College"</b> held at the Olagunsoye Oyinlola Auditorium, Osun State University, Osogbo on 12 October, 2021.	Guest Lecturer
7.	Launching of the Doctoral Academy of Nigeria and Training Workshop for PhD Supervisors <b>"Skills and Processes for Evaluating PhD Research Reports"</b> held at the CVC Conference Hall, Wuse II, Abuja on 28 September - 3 October, 2021.	Guest Lecturer
8.	Chemical Society of Nigeria (CSN), Enugu Chapter, 18 <sup>th</sup> Biennial Conference, COALCITYCHEM 2021, <b>"The Role of Chemistry in Mitigating COVID-19 and Other Diseases: Formation of Nanodiscs for Drug Delivery"</b> University of Nigeria, Nsukka, 26 - 27 July, 2021. Presented virtually.	Plenary Speaker
9.	Bowen Postgraduate School Submit <b>"Ethics and Ethos of Postgraduate Training"</b> held at the University Library, Bowen University, Iwo on 19 July, 2021.	Guest Speaker
10.	African Physical Society (AfPS) International Conference in	Plenary Speaker

- conjunction with the Abdus Salam International Centre for Theoretical Physics conference “**Complexity of Biological Macromolecules: Lipid Transfer and Unconstant Rate Constant**”, 18 - 21 November, 2020 held at University of Rwanda, Kigali. Presented virtually
11. McGoldrick Fellowship Programme, Harvard T. H. Chan School of Public Health in collaboration with Addis Continental Institute of Public Health, workshop on “**Complex Survey Analysis**” held at Addis Ababa, Ethiopia from 21 – 31 January, 2020. Guest Lecturer
  12. Training Workshop for Senior Academic Staff of Tai Solarin University of Education on the Theme Best Practices in Doctoral Programme Training and Administration “**Issues in Supervision and Mentoring of PhD Students**” held at the TETFUND 2012 Special Intervention Hall, Tai Solarin University of Education, Ijagun on 31 October, 2019. Guest Lecturer
  13. Thesis/Dissertation Supervision Workshop, Theme: Postgraduate Supervision and Mentoring for National Development and Global Relevance, organised for Postgraduate Teachers in Babcock University “**Postgraduate Supervision and Capacity Building for National Development**” held at the Postgraduate College, Babcock, Ilisan Remo on 14 August, 2019. Guest Speaker
  14. First Postgraduate Conference for Postgraduate Teachers and Students at Redemeer’s University, Ede “**Inter-disciplinarity and Methodological Issues in Postgraduate Studies and Research**” held at the Main Hall of the University on 27 March, 2019. Guest Speaker
  15. UNICEF in Conjunction with University of Nigeria, Nsukka “**Consultative Forum with University Policymakers on Introduction of M.Sc. Degree in Social Policy**” held at Nike Lake resort Enugu on 10 – 14 September, 2018. Curriculum Expert
  16. Postgraduate College, University of Ibadan Retreat “**Repositioning Postgraduate Education in University of Ibadan for Global Relevance**” held at Western Sun hotel Ede on 24 August, 2018. Resource Person
  17. Chemical Society of Nigeria (CSN), North West Zone, 3rd Zonal Conference and Exhibition SOKOTO 2018 “**Science and Chemistry: Potentials for Entrepreneurial Tool for Wealth Creation and Poverty Alleviation**” held at Uthman Dan Fodio University, Sokoto from 9 August, 2018. Keynote Speaker
  18. CEMAR Retreat “**Executive Education and Economic Advancement in Nigeria: The Place of University of Ibadan**” held at Lagos 23 February, 2018. Guest Speaker
  19. A symposium in Honour of Professor Modupe Ogunlesi @ 70. **Where is the bloody group?** held at the Department of Chemistry, University of Lagos on 15 February, 2017. Keynote Speaker
  20. Postgraduate Education and Curriculum in University of Ibadan, The way forward for The University of the Gambia held at Banjul on 3 August, 2017. Curriculum Expert

21. Chemical Society of Nigeria (CSN), South West Zone, 2nd Zonal Conference and Exhibition ABEEKUTA 2017 “**Chemistry for Energy Production and Manpower Development**” held at Moshood Abiola Polytechnic, Abeokuta from 18 – 20 May, 2017. Plenary Speaker
22. Chemical Society of Nigeria (CSN), North Central Zone, 1<sup>st</sup> Zonal Conference and Exhibition, NASARAWA 2016, “**Chemistry and Chemical Technology in the Diversification of the Nigerian Economy**” held at Federal Polytechnic Nasarawa on 8 April, 2016. Keynote Speaker
23. Humboldt Kolleg, Ibadan 2016 held at Conference Centre, University of Ibadan, Ibadan. Resource Person
24. 1<sup>st</sup> International Conference of the Oke-Ogun Polytechnic, Saki, “**Building and Sustaining a Truly Indigenous Science/Technological Education for National Development**” held at The Oke-Ogun Polytechnic, Saki from 26 - 29 January, 2016. Keynote Speaker
25. 10<sup>th</sup> Unilag Annual Research Conference and Fair held at the University of Lagos Multipurpose Hall, Akoka, Lagos between 24 to 26 November, 2015. Assessor
26. Workshop for Stakeholders on a Five-year Strategic Planning for the newly autonomous The Oke-Ogun Polytechnic Saki held at the Polytechnic Campus from 13 – 14 November, 2014. Key Facilitator
27. 9th University of Lagos Annual Research Conference and Fair on Health, Infrastructure and Development. Held at University of Lagos, Akoka, Lagos between 8-10 October, 2014. Assessor
28. Organisation for the Prohibition of Chemical Weapons Education and Outreach Conference on “**Education for Peace – New Pathways for Securing Chemical Disarmament**” held at OPCW Conference Hall, The Hague between 22-23 September, 2014. Nigerian Representative
29. Research Management Office, University of Ibadan, Training Workshop on Research & Grant Writing for Doctoral Students: **Research Report Writing and Presentation** held at MacArthur Building, University of Ibadan on 17 September, 2014. Resource Person
30. Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA) Diamond Jubilee Conference “**Transportation, Transfer, Transition and Transformation in Biological Macromolecules**” held at INIFTA, La Plata, Argentina from 24 – 28 November, 2008. Plenary Speaker

### Congress and Conferences

31. International Union of Pure and Applied Chemistry 2019, 47<sup>th</sup> World Chemistry Congress held at Palais des Congres, Paris, France from 5 to 12 July, 2019.  
**Paper Presented:** Safety Practices in Nigeria and Attitudinal Issue in Nigerian: A Lecturer’s Perspective
32. International Union of Pure and Applied Chemistry 2015, 45<sup>th</sup> World Chemistry Congress held at Bexco, Busan, South Korea from 7 to 14 August, 2015.  
**Paper Presented:** Behavioural Based Safety Attitudes/Performances in the Nigerian Environment

33. Pan African Chemistry Network (PACN) Congress 2015: Healthcare: From discovery to delivery held at University of Nairobi, Kenya from 17-19 November, 2015.
34. Pan African Chemistry Congress 2013/Federation of African Chemical Society Congress 2013. Held at African Hall, United Nations buildings, Addis Ababa, Ethiopia between 3-7 December, 2013.
35. International Union of Pure and Applied Chemistry 2013, 44<sup>th</sup> World Chemistry Congress held at Harbiye Military Museum Istanbul, Turkey from 11 to 16 August, 2013.

**Paper presented:**

- (a) High Ionic Strength or Presence of Inositol Hexakisphosphate Reverses the Unusually Low pKa of CysH3(125) $\beta$  of Guinea Pig Haemoglobin
- (b) The reactivity of CysF9[93] $\beta$  sulphhydryl group of des-HisHC3[146] $\beta$  human haemoglobin A.
36. The Federation of African Societies of Chemistry-Pan African Chemistry Network (PACN) Congress 2012 on “Agricultural Productivity, Water and Waste” held at the United Nation Conference Centre, Addis Ababa, Ethiopia from 26- 28 November, 2012.
37. XCVI National Congress of Italian Physical Society, Bologna, Italy, 20 – 24 September, 2010.  
**Paper presented:** Conformational changes induced by inositol hexakisphosphate in duck major haemoglobin.
38. 42<sup>nd</sup>International Union of Pure and Applied Chemistry Congress: Chemistry and Solutions, held at SEEC Glasgow, Scotland, United Kingdom from 2-7 August, 2009.  
**Paper Presented:** Probing Cholesterol Homeostasis in model membranes by biotin-streptavidin equilibrium system.
39. 20<sup>th</sup> International Conference on Chemical Thermodynamics. Held at Warsaw Poland from 3 -8 August, 2008.  
**Paper Presented:** Transition of haemoglobin between two tertiary conformations: The transition constant differs significantly for major and minor hemoglobins of the Japanese quail (*Cortunix cortunix japonica*)

**Workshops, Trainings and Schools**

40. Humboldt Kolleg, Lagos 2022 on the theme “Africa’s Bioeconomy and Sustainable Development: Emerging Biological Technologies for Food Production, One Health and Waste to Wealth” held at Aderinokun Auditorium, University of Lagos from 6 – 9 November, 2022.
41. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. School on Information, Noise, and Physics of Life (smr 3736) held at NIS, Serbia between 19- 30 September, 2022. Virtual Participation.
42. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. Workshop on Professional and Communications Training for Scientists (smr 3710) held virtually at ICTP from 23 – 27 May, 2022.
43. Partnership for African Social and Governance Research (PASGR), Pedagogical Leadership in Africa (PedaL) Egerton University Hub Training held at Sarova Woodlands Hotel, Nakuru, Kenya from 11 – 19 September, 2019.
44. Partnership for African Social and Governance Research (PASGR), Pedagogical

- Leadership in Africa/ Master in Research and Public Policy Western Hub Training held at Accra, Ghana from 31 July – 8 August, 2019.
45. Partnership for African Social and Governance Research (PASGR), Pedagogical Leadership in Africa Annual Convening and / Master in Research and Public Policy Week held at Mombasa, Kenya from 24 – 28 June, 2019.
  46. Partnership for African Social and Governance Research (PASGR), Pedagogical Leadership in Africa training in Entebbe, Uganda from 23 February – 5 March, 2019.
  47. Partnership for African Social and Governance Research (PASGR), Doctoral Design Workshop held at Panari Hotel, Nairobi from 4 – 6 February, 2019.
  48. Partnership for African Social and Governance Research (PASGR), Doctoral Design Workshop held at Panari Hotel, Nairobi from 5 – 7 September, 2018.
  49. Consortium for Advanced Research Training in Africa (CARTA)., CARTA Faculty and Administrators’ workshop hosted by the University of Rwanda, Kigali from 17 – 19 July, 2017.
  50. Humboldt Kolleg, Osogbo 2017 on Translating Research Findings into Policy in Developing Countries, held at College of Medical Sciences, Osun State University, Osogbo.
  51. Humboldt Kolleg, Akure 2017 on the Theme “Functional Foods and Nutraceutical: Translating the knowledge of Food Bioactive Compounds to Effective Health Care Delivery in Developing World” held at the Federal University of Technology Akure from 2 – 4 April, 2017
  52. Pan African Chemistry Network-International Network for Advancing Science and Policy (PACN-INASP) Training workshop on Scientific Writing and Publishing held at University of Nairobi, Kenya from 20 -21 November, 2015.
  53. University of Ibadan, Vice Chancellor’s Strategic Plan 2015 – 2020 Vision Implementation Committee Sensitization Workshop held at the Conference Centre, University of Ibadan on 26 October, 2015.
  54. Faculty of Science, University of Ibadan, 2<sup>nd</sup> International Conference on “Scientific Research and Innovation in Nigeria” held in the Faculty of Science lecture theatre from 16 – 2- March, 2015.
  55. DAAD Alumni Meeting, Convened German Academic Exchange Service (DAAD) with the theme “Sustainable Development in Africa's Biggest Oil Producing Economy” held at the International Institute of Tropical Agriculture/University of Ibadan from 7 – 9 December, 2013.
  56. The Postgraduate School, University of Ibadan in Collaboration with Adejuwon Clement Oladele Esq Human Capital Development and Training Consultant workshop on :Office Ethics and Work Relationship” held at the Postgraduate School, University of Ibadan on 5 September, 2013.
  57. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy “Advanced School on Synchrotron Radiation Techniques and Nanotechnology: A synergic to life sciences and medicine” (smr 2516) held at Cape Town Campus, Stellenbosch, South Africa between 11-22 November, 2013.
  58. Faculty of Science, University of Ibadan training workshop on “Responsible Conduct in Research” held at the Faculty Lecture Theatre from 25 – 26 July, 2012.
  59. Consortium for Advanced Training and Research in Africa (CARTA)/Development Partnership in Education (DeIPHE) Joint Workshop for Junior Faculty and

- Administrators held at Protea Hotels Courtyard, Dar es Salaam, Tanzania from 30 January – 1 February, 2012.
60. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. Joint ICTP-IAEA school on “Synchrotron Applications in Cultural Heritage and Environmental Sciences and Multidisciplinary Aspects of Imaging Techniques” (smr 2272) held at Leonardo da Vinci Building Main Lecture Hall Miramare, Trieste, Italy from 21 – 25 November, 2011.
  61. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. "2nd Conference on Systems Biology and New Sequencing Techniques" (2-4 November), preceded by Introductory Lectures on "Quantitative Approaches to Biological Problems" (31 October - 1 November) (smr 2255) held at Adratico Guest House, Kastler Lecture Hall, Miramare, Trieste, Italy from 31 October – 4 November, 2011.
  62. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. Joint ICTP-TWAS Workshop on Science Communication in Developing Countries: Bridging the Gap between Science, Policy and the General Public (smr 2293) held at Adratico Guest House, Kastler Lecture Hall, Miramare, Trieste, Italy from 17 – 21 October, 2011.
  63. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. Joint ICTP-SISSA Workshop on “New Materials for Renewable Energy” (smr 2269) held at Miramare, Trieste, Italy from 17 – 21 October, 2011.
  64. The Association of Commonwealth Universities London Workshop on “Research Management and Staff Development: How can Universities better support Early Career Staff held at University of Buea, Cameroon from 28-30 July, 2011.
  65. West African Research and Innovation Management Association (WARIMA), Workshop on “Training and Professional Development in Research and Innovation Management” held at the Conference Centre, University of Ibadan from 31 August – 2 September, 2010.
  66. The Abdus Salam International Centre for Theoretical Physics-The International Atomic Energy Agency-The European Nuclear Education Network-Kuwait Foundation for the Advancement of Science: “Joint ICTP-IAEA School of Nuclear Knowledge Management” (Smr 2161) held at Miramare, Trieste, Italy from 23 – 27 August, 2010.
  67. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy’s ICTP After 45: Science and Development for a Changing World (smr 2215) held Trieste, Italy from 8 – 19 November, 2010.
  68. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy’s Advanced School on Complexity, Adaptation and Emergence in Marine Ecosystem (smr 2170 held at Adratico Guest House, Giambiagi Lecture Hall, Miramare, Trieste, Italy from 18 – 27 October, 2010.
  69. The Postgraduate School, University of Ibadan, workshop on “Grant Proposal Writing for Research Students” held at the Conference Centre, University of Ibadan from 16 – 17 June, 2010.
  70. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy’s Conference on Molecular Aspects of Cell Biology: A Perspective from Computational Physics (smr 2169) held at Adratico Guest House, Kastler Lecture Hall, Miramare, Trieste, Italy from 11 – 15 October, 2010.
  71. Committee of Deans of Postgraduate Schools (CDPGS) in Nigerian Universities in

- Collaboration with The School of Media and Communication (The Pan-African University) Lekki, Lagos: workshop pm Writing Winning Research Proposal held at Pan-African University, Lekki, Lagos from 16 – 17 March, 2010.
72. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy's Summer College on Plasma Physics (smr 2052) held at Leonardo da Vinci Building Lecture Hall, Miramare, Trieste, Italy from 10 – 28 August, 2009.
  73. MacArthur Foundation Grant (University of Ibadan) Staff and Research Capacity Building training on "Advanced ICT Techniques" held at Computer Science Department, University of Ibadan from 23 – 27 March, 2009.
  74. MacArthur Foundation Grant (University of Ibadan) Staff and Research Capacity Building training on "ICT in Teaching, Research and Administration" held at Computer Science Department, University of Ibadan from 23 – 27 March, 2009.
  75. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy's Conference on Knots and other Entanglements in Biopolymers: Topological and Geometrical Aspects of DNA, RNA and Protein Structures (smr 1963) held at Adratico Guest House Kastler Lecture Hall, Miramare, Trieste, Italy from 15 – 19 September, 2008.
  76. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy's "African Regional College on Science at the Nanoscale" (smr 1874) held at iThemba LABS, Cape Town, South Africa from 19 – 30 November, 2007.
  77. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy's Conference on Structure and Dynamics in Soft Matter and Biomolecules: From Single Molecules to Ensembles (smr 1845) held at Miramare, Trieste, Italy from 4 – 8 June, 2007.
  78. The Abdus Salam International Centre for Theoretical Physics-The International Atomic Energy Agency-Sincrotrone, Trieste, Italy. X-ray Emission Techniques for Forensic Applications (smr 1843) held at Miramare, Trieste, Italy from 28 May – 1 June, 2007.
  79. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy Conference on "From Physical Understanding to Novel Architectures of Fuel Cells" (smr 1841) held at Miramare, Trieste, Italy from 21 – 25 May, 2007.
  80. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy Spring College on "Water in Physics, Chemistry and Biology" (smr 1831) held at Miramare, Trieste, Italy from 10 – 20 April, 2007.
  81. G8-UNESCO World Forum on "Education and Innovation: New Partnership for Sustainable Development" held at Trieste, Italy from 10 – 12 May, 2007.
  82. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy's Workshop on Medical Applications of Synchrotron Radiation MASR 2004 (smr 1581) held at Miramare, Trieste, Italy from 23 – 25 September, 2004.
  83. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy's College on Medical Physics (smr 1577) held at Miramare, Trieste, Italy from 30 August – 22 September, 2004.
  84. The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. International Workshop on "Proteomics: Protein Structure, Function and Interactions" (smr 1499) held at Miramare, Trieste, Italy from 5 – 16 May, 2003.



## XV Referees:

1. Emeritus Professor Olufemi Adebisi BAMIRO, FAS, FNSE, FNESN, FNAE.  
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