

CURRICULUM VITAE

1. BIO-DATA:

- i. Name: ADIGWE, JOSEPH CHUKWUMA
- ii. Date of Birth: 20th April, 1955
- iii. Place of Birth: Okwe
- iv. Nationality: Nigerian
- v. State of Origin: Delta State
- vi. Geopolitical Zone: South-South
- vii. Sex: Male
- viii. Marital Status: Married
- ix. Number of Children: Seven
- x. Correspondence Address: Department of Science Education,
University of Nigeria, Nsukka.
- xi. Permanent Address: 370, Margret Cartwright Avenue, University
of Nigeria, Nsukka.
- xii. E-mail Address: jsphadigwe@gmail.com /
joseph.adigwe@unn.edu.ng
- xiii. Cellular Phone No: 0806377572
- ix. Present Rank: Professor of Chemical Education, 2004

2. EDUCATION INSTITUTIONS ATTENDED WITH DATES

- i. 1989 – 1990 University of Strathclyde, Glasgow,
Scotland, United Kingdom
- ii. 1985 – 1987 University of Wales, Cardiff, Wales, United

- iii. 1984 – 1985
Kingdom
University of East Anglia, Norwich, England,
United Kingdom
- iv. 1981 – 1982
University of Jos, Jos Nigeria
- v. 1976 – 1979
University of Nigeria, Nsukka, Nigeria
- vi. 1972 – 1975
Delta State College of Education, Abraka,
Delta State, Nigeria
- vii. 1967 – 1971
Pilgrim Baptist Grammar School, Issele-Uku,
Delta State, Nigeria

3. EDUCATION QUALIFICATIONS OBTAINED WITH DATES

- i. 1990
Postgraduate Certificate in Environmental
Education
- ii. 1987
Philosophiae Doctor (Ph.D.) (Chemical
Education)
- iii. 1982
Master’s Degree in Education (M.Ed)
(Psychology of Education)
- iv. 1979
Bachelor’s Degree in Science Education
(B.Sc. Hons) (Chemistry/Education)
- v. 1975
Nigeria Certificate in Education (NCE)
(Physics and Chemistry)
- vi. 1971
West African School Certificate (WASC)

4. SCHOLARSHIPS

- i. Federal Government of Nigeria, Overseas Postgraduate Scholarship Award (1983 – 1987): Utilized at the University of East Anglia, Norwich, England, UK and University of Wales, Cardiff, Wales, UK.
- ii. Worldwide fund for Nature (WWF – UK) Study Fellowship at Jordanhill College of Education, University of Strathclyde, Glasgow, UK.

5. WORK HISTORY AND PROFESSIONAL EXPERIENCE

A. AT DELTA STATE COLLEGE OF EDUCATION, AGBOR, DELTA STATE, NIGERIA.

a.	<u>Ranks</u>	<u>Date</u>
	Lecturer Grade III	1980 – 1982
	Lecturer Grade II	1982 – 1984
	Lecturer Grade I	1984 – 1986
	Senior Lecturer	1986 – 1989

b. Teaching Experience:

Courses Taught

Physical Chemistry

Organic Chemistry

Inorganic Chemistry

Chemistry Methodology and

Supervision of Research Projects

c. Administrative Experience:

	<u>Positions Held</u>	<u>Date</u>
i.	Head, Chemistry Department	1980 – 1984 and 1987 – 1989
ii.	Dean, School of Science	1988 – 1989
iii.	Chairman, Examination Committee	1988 – 1989
iv.	Chairman, Students' Disciplinary Committee	1988 – 1989

B. AT INSTITUTE OF EDUCATION, UNIVERSITY OF CALABAR, CALABAR

a.	<u>Ranks</u>	<u>Date</u>
	Lecturer II	1989 – 1994

b. Teaching Experience:

Courses Taught

Chemical Education

Environmental Education

Integrated Science

Primary Science

Supervision of Research Projects

(Undergraduates/Postgraduates)

c. Administrative Experience:

	<u>Positions Held</u>	<u>Date</u>
i.	Coordinator, Sandwich Degree, Diplomas and Certificate Programmes	1990 – 1991

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| ii. | Coordinator, Distance Learning Programmes | 1990 – 1991 |
| iii. | Examination Officer for Institute of Education | 1991 – 1992 |
| iv. | Chairman, Examination Malpractice Committee | 1991 – 1992 |
| v. | Foundation Coordinator, Environmental Education
Research Centre | 1991 – 1992 |

**C. AT CURRICULUM DEVELOPMENT AND INSTITUTIONAL MATERIALS CENTRE
(CUDIMAC), UNIVERSITY OF NIGERIA, NSUKKA.**

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| a. | <u>Ranks</u> | <u>Date</u> |
| | Research Fellow Grade I | 1994 – 1997 |
| | Senior Research Fellow | 1997 – 2003 |

b. Teaching Experience:

Courses Taught

Chemical Education

Integrated Science

Supervision of Undergraduates/Postgraduates

Research Projects

c. Administrative Experience

- | | | |
|-----|---------------------------------------|--------------------|
| | <u>Positions Held</u> | <u>Date</u> |
| i. | Secretary, CUDIMAC Science Division | 1994 – 2004 |
| ii. | Secretary, CUDIMAC Steering Committee | 1999 – 2003 |

D. AT DEPARTMENT OF SCIENCE EDUCATION, UNIVERSITY OF NIGERIA, NSUKKA

a. Ranks	<u>Date</u>
Senior Research Fellow	1997 – 2003
Professorship	2004 – date

b. Teaching Experience:

Courses Taught

Science Curriculum

Integrated Science

Chemistry Education Methods

Applications of Psychology in Chemical Education

Supervision of M.Ed and

Ph.D. Research Projects

c. Administrative Experience:

	<u>Positions Held</u>	<u>Date</u>
i.	Chairman, Timetable Committee	2011 – 2015
ii.	Member, Examination Committee	2011 – 2012
iii.	Head of Department	2017 – date

E. AT THE FACULTY OF EDUCATION

a. Administrative Experience:

	<u>Positions Held</u>	<u>Date</u>
	Member, Faculty of Education Publication Committee	1997 – 1998

Member, Faculty of Education Library Committee	1997 – 1998/ 2000 – 2004
Member, Faculty of Education Consultancy Committee	1997 – 1998/ 2000 – 2004
Associate Dean, Faculty of Education	2016 – 2018

F. PERIODS SPENT IN RESEARCH INSTITUTES/CENTRES

<u>Institute/Centres</u>	<u>Date</u>
UNESCO Centre for Science Education, University of Ljubljana	April 1987 – Dec 1987
International Centre for Chemical Education, University of Leuven, Belgium	Oct 1985 – March 1986
Institute of Education, University of Calabar, Calabar	Aug 1989 – Feb 1994
Curriculum Development and Instructional Materials Centre, University of Nigeria, Nsukka	Feb 1994 – 2012

6. SERVICE TO PUBLIC BODIES

<u>Body</u>	<u>Position</u>	<u>Date</u>
Nigeria Conversation Foundation (NCF), Lagos	Consultant on Environmental Education	1990 – 1998
Nigeria Educational Research and Development Council (NERDC) Abuja	Consultant on Environmental/ Science Education	1992 – 2000

7. MEMBERSHIP OF LEARNED SOCIETY

Science Teachers' Association of Nigeria (STAN)

PUBLICATIONS:

A. PUBLISHED RESEARCH REPORTS

1. ADIGWE, J. C. (1991) Problem-solving processes of Pre-service Chemistry teachers in Nigeria. *Research, Science and Technological Education* (U.K), 8, 1, 107 – 120.
2. ADIGWE, J. C. (1992a) Gender Differences in Chemical Problem Solving Amongst Nigerian Students. *Research, Science and Technological Education* (U.K), 102, 2, 105 – 200.
3. ADIGWE, J. C. (1992b) Problem-Solving Process of Nigerian Chemistry Teachers. *Research, Science and Technological Education* (U.K), 10, 11, 93 – 104.
4. ADIGWE, J. C. (1993a) Pre-service Chemistry Teachers Misconceptions in Chemical Equilibrium. *Journal of the Science Teachers' Association of Nigeria*, 25, 1 & 2, 70 – 76.
5. ADIGWE, J. C. (1993b) Some Correlates of Nigerian Students Performances in Chemical Problem-Solving. *Research, Science and Technological Education* (U.K), 11, 1, 39 – 48.
6. ADIGWE, J. C. (1993c) Misconceptions in Chemical Kinetics: The Case of Nigerian Chemistry Teachers. *Journal of Science Teachers' Association of Nigeria*, 28, 1 & 2, 77 – 85.
7. ADIGWE, J. C. (1995a) The Effect of Sex, School Locations and Type on Nigerian Students' Preferences of Chemistry Laboratory Environment. *Journal of Studies in Curriculum*, 5, 1 & 2, 32 – 40.
8. ADIGWE, J. C. (1995b) Teachers' Attitudes, Teaching Behavior and Students' Chemistry Achievement. *International Journal of Humanities and Social Science*, 2, 1, 191 – 198.

9. ADIGWE, J. C. (1997a) Relationship among Students' Perceptions of Chemistry Laboratory Environments, their Preferences and Inquiry Skills Achievement. *Journal of Studies in Curriculum*, 5, 1 & 2, 34 – 40.
10. ADIGWE, J. C. (1997b) Ethnicity, Test Anxiety and Science Achievement of Nigerian Students. *International Journal of Science Education (U.K)*, 60, 54 – 67.
11. ADIGWE, J. C. (1998) The Effects of Three Problem-Solving Instructional Strategies on Nigerian Students' Achievement in Chemical Problem Solving. *Research in Education (U.K)*, 60, 54 – 67.
12. ADIGWE, J. C. (2000a) Ethnicity, School Location and Type and Attitudes of Girls towards Science Education. *Jos Journal of Education*, 5, 1, 37 – 41.
13. ADIGWE, J. C. (2000b) A Topology of Primary Science Environment. *Journal of Curriculum Studies*, 2, 1, 12 – 20.
14. ADIGWE, J. C. (2001a) Attitudes, Study Habits, Test Anxiety and Science Achievement of Nigerian Students. *Benin Journal of Educational Studies*, 15, 1, 31 – 39.
15. ADIGWE, J. C. (2001b) Psychosocial Learning Environment in some Nigerian Primary Science Classrooms and Pupils Learning Outcomes. *Benin Journal of Educational Studies*, 15, 1, 1 – 11.
16. ADIGWE, J. C. (2002) Gender and Classroom Interactions in Science Lessons. *Benin Journal of Educational Studies*, 16, 2, 86 – 95.
17. ADIGWE, J. C. (2003) Influence of Sex, School Location and Type on Students' Perceptions of Chemistry Laboratory Environment. *Abuja Journal of Education*, 5, 1, 235 – 248.
18. ADIGWE, J. C. (2004) School Climate and Chemistry Classroom Environment of Senior Secondary Schools. *Benin Journal of Educational Studies*, 18, 1 & 2, 83 – 89.
19. ADIGWE, J. C. (2005) Influence of Ethnicity, Formal Reasoning and Cognitive Styles on Students' Achievement in Balancing Chemical Equations. *Review of Education*, 16, 2, 21 – 31.

20. ADIGWE, J. C. (2011) Effect of Mathematical Reasoning Skills on Students' Achievement in Chemical Stoichiometry. *Review of Education*, 23, 1, 1 – 22.
21. ADIGWE, J. C. (2013) Influence of Cognitive Style, Formal Reasoning and Sex on Students' Achievement in Chemical Bonding. *Review of Education*, 24, 1, 9 – 24.
22. OKONKWO, I. G. and ADIGWE, J. C. (2013a) Influence of Concept Map Teaching Strategy, Gender and School Location on Students' Interest in Environmental Concepts in Chemistry. *Review of Education*. 24, 4, 7 – 73.
23. ADIGWE, J. C. and OKONKWO, I. G. (2013a) Influence of Concept Map and Simulation-Game Instructional Strategies, Gender and School Location on Students' Interest in Environmental Concepts in Chemistry. *Benin Journal of Educational Studies*, 28, 5, 15 – 35.
24. OKONKWO, I. G. and ADIGWE, J. C. (2013b) Effects of Concept Map and Simulation-Game Instructional Approaches on Students' Achievement in Environmental Concepts in Chemistry. *Journal of Studies in Science and Mathematics Education*, 53, 8, 6 – 7, 11 – 30.
25. ADIGWE, J. C. (2014) Emotional Intelligence and Problem-Solving Achievement of Chemistry Students in Chemical Stoichiometry. *Journal of Science, Technology and Education*, 3, 1, 80 – 95.
26. OKONKWO, I. G. and ADIGWE, J. C. (2014) Effects of Concept Mapping Teaching Strategy on Students' Interest in Environmental Concepts in Chemistry. *Review of Education*, 25, 1, 40 – 60.

B. PUBLISHED THEORETICAL PAPERS

27. ADIGWE, J. C. and UME, T. A. (1997) Education and Culture: Beyond the Language Dimension. *Nigerian and African Education: Crucial Issues*, 189 – 198.

28. ADIGWE, J. C. and OKONKWO, I. G. (2013b) The Role of STEM in Human Capital Development for Attainment of Millennium Development Goals in Nigeria. *Proceedings of the 54th Annual Conference of the Science Teachers' Association of Nigeria*, 74 – 82, August, 2013.
29. EZEUDU, F. O., NKEKOLONYE, C. U. and ADIGWE, J. C. (2013) Science Education and Challenges of Globalization in Igbo Nation. *US – China Education Review*, 3, 2, 116 – 127
30. ADIGWE, J. C. (2014) Teaching Problem Solving in Chemical Stoichiometry. *Review of Education*, 27, 1, 15 – 35.
31. Adigwe, J.C. (2018) Teaching and Learning of Science , Technology and Mathematics in Nigeria. *Review of Education*, 20,2, 14 – 26.

C. TEXTBOOKS

32. ADIGWE, J. C. and AKPEKE, M. (2014) Basic Principles of Physics, Nsukka: Great AP Publishers Ltd.
33. ADIGWE, J. C. (2018) Principles of Curriculum and Instruction. Nsukka: University of Nigeria Press.
34. BRENDA, N. L. and ADIGWE, J. C. (ed) (2013) Language, Location and Gender Issues in Environmental Education . Deutschland: *Scholar's Press*.

D. AREA OF SPECIALIZATION

Chemical Education/Environmental Education.

E. CURRENT AREAS OF STUDY

Problem Solving in Chemistry/Language/Classroom Interaction and Environmental Education.