CURRICULUM VITAE



Personal information	
First name(s) / Surname(s)	Charles Kwame Bandoh
Address(es)	Department of Chemical Sciences University of Energy and Natural Resources P. O. Box 214, Sunyani
	Ghana
Telephone	+233 246689454
E-mail	charles.bandoh@uenr.edu.gh/charleskwame2021@gmail.com
Nationality	Ghanaian
Date of birth	10.03.1979
Marital status	Married
Gender	Male
Objective	A highly motivated personality looking to join a high-performing group of professionals that will make the most of my wealth of experience and education in the field of Industry, teaching, researching and other associated fields to its full potential.
Work experience	
Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	November 2024 to Date Assistant Examiner Marking of Physics 2 examination papers West African Examination Council (WAEC), Accra Professional Institution

Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	August 2024 to Date Team Leader Marking of integrated science examination papers & vetting Assistant Examiners' marked scripts National Board for Professional and Technician Examination (NABPTEX), Accra Professional Institution
Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of Business or sector	November 2023 to Date Lecturer Teaching, Researching, Supervising undergraduate project work, Academic Counselling, etc. Department of Chemical Sciences, University of Energy and Natural Resources, P. O. Box 214, Sunyani-Ghana Educational Institution
Dates Occupation or position held Main activities and responsibilities	February 2021 to November 2023 Assistant Lecturer Teaching, Researching, Supervising undergraduate project work, Academic Counselling, etc.
Name and address of employer Type of Business or sector	Department of Chemical Sciences, University of Energy and Natural Resources, P. O. Box 214, Sunyani-Ghana Educational Institution
Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of Business or sector	March 2023 to date Examiner Develop text items for the Ghana Teacher Licensure Examination. National Teaching Council, P. O. Box MB 247, Accra, Ghana Educational Institution
Dates Occupation or position held Main activities and responsibilities Name and address of employer	October 2017 to January 2021 Tutor Teaches Integrated Science, Methods of Teaching Science, General Biology, General Physics, General Chemistry; Project work supervision, Teaching practice supervision, Course Advisor. St. Monica's College of Education, P. O. Box 250, Mampong Ashanti, Ghana
Type of Business or sector	Educational Institution
Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	April 2020 to January 2021 Team Leader Vetting of marked scripts. University of Cape Coast, University Post Office, Cape Coast, Ghana Educational Institution

Dates	October 2017 to January 2021
Occupation or position held	Assistant Examiner
Main activities and responsibilities	Marking of examination papers
Name and address of employer	University of Cape Coast, University Post Office, Cape Coast, Ghana
Type of business or sector	Educational Institution
Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	June 2016 to Date Assistant Examiner Marking of integrated science examination papers National Board for Professional and Technician Examination (NABPTEX), Accra Professional Institution
Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	October 2014 to Date Senior Tutor Assistant Examiner, Teaches General Physics, Elementary School Science and Methods of Teaching Basic School Science College of Distance Education (CoDE), University of Cape Coast, University Post Office, Cape Coast, Ghana Educational Institution
Dates	September 2012 to September 2017
Main activities and responsibilities	Teacher
Occupation or position held	Teaches Integrated Science, Examination Committee Member
Name and address of employer	Kumasi Technical Institute (KTI), P. O. Box 1471, Kumasi - GES
Type of business or sector	Educational Institution
Dates Main activities and responsibilities Occupation or position held Name and address of employer Type of business or sector	October 2011 to August 2012 Teaching Assistance (National Service) Organise tutorial classes, supervise and mark laboratory work for the undergraduates and assist the lectures in academic work Department of Physics, Kwame Nkrumah University of Science and Technology, University Post Office, Kumasi, Ghana Educational Institution
Dates	2004 to 2007
Occupation or position held	Furniture Designer and Builder
Main activities and responsibilities	Designing and Construction of all Kinds of Furniture
Name and address of employer	Exotic Wood Works, Ahinsan Estate-Kumasi
Type of business or sector	Manufacturing Company

Dates Occupation or position held Main activities and responsibilities Name and address of employer	2002 to 2004 Furniture Designer and Builder Designing and construction of all kinds of furniture Pideck Interior Design and Furnishing, Oduom – Kumasi
Type of business or sector	Manufacturing Company
Committees Served	
Date Committee Position held Duties/Responsibilities	 1st August 2023 to Date School Undergraduate Project Committee Departmental Coordinator and Member for the School of Science Organize research seminars and training for final-year students Assist students in solving project work-related issues with their supervisors Organize and set a date for the final project work defense for final-year students Assist students in collecting data for their projects.
Workplace	School of Sciences, University of Energy and Natural Resources, P. O. Box 214, Sunyani-Ghana
Date Committee Position held Duties/Responsibilities Workplace	October 2022 to Date School of Energy Board Cognate Member • Present a Report to the School of Science Board School of Energy, University of Energy and Natural Resources, P. O. Box 214, Sunyani-Ghana
Date Committee Position held Duties/Responsibilities Workplace	August 2021 to 31 st July 2023 Sports Departmental Coordinator and Member for the School of Science • Oversee all aspects of a sports program in the department Department of Chemical Sciences, University of Energy and Natural Resources, P. O. Box 214, Sunyani-Ghana

Date Committee Position held Duties/Responsibilities Workplace	 October 2019 to January 2021 Academic Affairs Committee Assistant Academic Affairs Officer Assist the Academic Affairs Officer in planning and implementing Assist the Academic Board Committee in preparing timetables for various courses Assist the Academic Affairs Officer in planning and conducting all examinations in the school. Assist in ensuring timely cueing and submission of students' data to appropriate quarters, etc. St. Monica's College of Education, P. O. Box 250, Mampong Ashanti, Ghana
Date Committee Position held Duties/Responsibilities Workplace	 October 2019 to January 2021 Quality Assurance Unit Member Encourage the establishment of management systems for effective teaching, learning, research and outreach, Assist the Academic Planning and Quality Assurance office in harmonizing Action Plans of the various Departments of the College. Provide the Academic Board/management with timely feedback on activities of the unit, etc. St. Monica's College of Education, P. O. Box 250, Mampong Ashanti, Ghana
Date Committee Position held Duties/Responsibilities Workplace	October 2019 to January 2021 Electoral Commission Member • Plan and coordinate all activities relating to elections in the college. • Sensitize Staff and Students on elections in the college, etc. St. Monica's College of Education, P. O. Box 250, Mampong Ashanti, Ghana

Dates	December 2020 to November 2024
Title of qualification awarded	Doctor of Philosophy (Solid State Physics)
Principal subjects /occupational	Seminars and Conferences
skills covered Name and type of organisation	Kwama Nikrumah University of Science and Technology, Kumasi, Chana
providing education and training	Kwame Nkrumah University of Science and Technology, Kumasi, Ghana
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Dissertation	Metal Oxides-Based Nanocomposites for the Photocatalytic Degradation of
	Eosin Yellow Dye in Water
	Supervisor: Prof. Francis. K. Ampong & Prof Eric S. Agorku
	Cuperviser, Front Francis, IX. Ampoing & Front Ene C. Agonta
Dates	July 2020 to November 2021
Title of qualification awarded	Diploma in Education
Principal subjects/occupational	General Principles and Methods of Instruction, Educational Assessment and
skills covered	Evaluation, Instructional Methods in Specific Subjects, Guidance and
Name and time of annonication	Counselling, Fundamentals of Psychology of Education, etc.
Name and type of organisation providing education and training	Faculty of Education and General Studies, AAMUSTED, Mampong-Ashanti Campus
providing education and training	Campus
Dates	September 2012 to June 2015
Title of qualification awarded	Master of Philosophy (Solid State Physics)
Principal subjects/occupational	Classical and Quantum Physics, Low Temperature Physics, Theory of
skills covered	Fields, Experimental Methods in Condensed Matter Physics, Statistical
Name and type of organisation	Physics, Electrical and Optical Properties of Solids, etc. Kwame Nkrumah University of Science and Technology, PMB, Kumasi,
Name and type of organisation providing education and training	Ghana
Dissertation	Optical and Structural Properties of Cadmium Selenide and Lead Selenide
	Thin Films Deposited by Chemical Bath Deposition (CBD) Technique
	Supervisor: Prof. F. K. Ampong
	oupervisor. Front F. Ampolig
Dates	August 2007 to June 2011
Title of qualification awarded	Bachelor of Science in Physics
Principal subjects/occupational	Basic Research in Physics, Quantum and Classical Mechanics, Statistical
skills covered	Mechanics, Electricity and Magnetism, Atomic Physics, Digital Electronics
	Microprocessors, Optoelectronics, Electronic Materials and Devices, Solid
	State Physics, Spectroscopy, Electromagnetic Theory, Experimental Physics, etc.
Name and type of organisation	Kwame Nkrumah University of Science and Technology, Kumasi, Ghana
providing education and training	

Dissertation	Investigation of Optical Properties of Zinc Sulphide Thin Films Deposited by Chemical Acidic Bath Technique
	Supervisor: Prof. F. K. Ampong
Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organization providing education and training	December 2004, December 2006 Senior Secondary School Certificate Examination (SSCE), Private Physics, Chemistry, Mathematics (Elective), English Language, Integrated Science and Mathematics (core) West Africa Examination Council (WAEC), Kumasi branch, P. O. Box 3513, Kumasi, Tel: +233-3220-26064 / 34452 / 34454 / 34448
Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organization providing education and training	2000 to 2002 Furniture Design and Construction-Advance Craft Furniture Design and Construction (theory and practical), Technical Drawing, English Language Kumasi Polytechnic, P. O. Box 854 Kumasi, Ghana, Tel: +233-3220-23387, +233-3220-23388. Email: info@kpoly.edu.gh, registry@kpoly.edu.gh
Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organization providing education and training	February 1997 to November/December 1999 Carpentry and Joinery Craft Carpentry and Joinery (theory and practical), General construction, English language and Mathematics Asuansi Technical Institute, P. O. Box 162, Asuansi – Cape Coast, Ghana
Conferences, Workshops and Seminars attended	
Date Conference	5 th to 9 th May 2024 American Chemical Society (ACS) Africa Regional Conference on Green and Sustainable Chemistry
Role played	Oral Presentation on the Title: Synthesis and characterization of cobalt- doped ZrO_2 -g- C_3N_4 heterostructure for photocatalytic degradation of eosin
Organizer(s) Venue	yellow dye in synthetic wastewater Jointly organised by ACS Chapters in Egypt, Ghana and Nigeria Sheraton Hotel, Ikeja, & University of Lagos, Lagos, Nigeria

Date Conference Role played Organizer(s) Venue	25 th to 29 th September 2023 The 3rd African Conference on Fundamental and Applied Physics (ACP2023) Poster Presentation on the Topic: The Influence of Gadolinium on the Photocatalytic Performance of ZrO ₂ -g-C ₃ N ₄ Systems Towards the Degradation of an Organic Dye in Water African School of Physics, the South African Institute of Physics & Nelson Mandela University, George, South Africa Protea Hotel King George, South Africa
Date Conference Role played Organizer(s) Venue	5 th to 8 th September 2023 Ghana Science Association (GSA) 33 rd Biennial Conference Oral Presentation on the Title: Synthesis and Characterization of Zirconium Oxide-Based Nanocomposites for Photocatalytic Degradation of Eosin Yellow Dye in Water. Ghana Science Association (GSA) Department of Biochemistry, Cell and Molecular Biology, University of Ghana, Legon
Date Conference Role played Organizer(s) Venue	23 rd to 25 th August 2023 Maiden Edition of the International Conference on Science, Technology, and Health Innovation for Sustainable Development Oral Presentation on the Title: The Effect of Gadolinium on the Photocatalytic Performance of ZrO ₂ -g-C ₃ N ₄ Systems Towards the Degradation of an Organic Dye in Water School of Sciences, University of Energy and Natural Resources, Sunyani Tyco City Hotel, Sunyani, Ghana
Date Conference Role played Organizer(s) Venue	29 th to 31 st May 2023 KNUST Scientific Research Conference (TEKCONFAB) Poster Presentation on a Title: Cobalt/Graphitic Carbon Nitride Co-doped Zinc Oxide Nanocomposite as an Advanced Photocatalyst for the Degradation of an Organic Dye in Water Kwame Nkrumah University of Science and Technology (KNUST) School of Business, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana
Date Workshop Role played Organizer(s) Venue	10 th to 12 th January 2022 Innovative Teaching & Assessment Practices in Higher Education Training Participant Centre For Professional Development, UENR University of Energy and Natural Resources, Sunyani (UENR)

Date Workshop	January 2020 to January 2021 Professional Development Course (Modules: Developing positive attitude to learning, Modelling, Managing behaviour for learning, Success criteria and assessment, Providing formative feedback and checking for understanding, etc. Participant
Role played Organizer(s) Venue	Train for Tomorrow Project of Plan International Ghana in Collaboration with National Teaching Council. St. Monica's College of Education, Mampong-Ashanti, Ghana
Date Workshop Role played Organizer(s) Venue	13 th April to 1 st May 2020 Certificate in Online Design, Teaching and Learning. Participant Digital Society School, Amsterdam University for Applied Sciences Virtual (through Zoom)
Date Workshop Role played Organizer(s)	8 th to 10 th September 2019 Subject-Based Workshop for Course Tutors Participant School of Educational Development and Outreach, Institute of Education. University of Cape Coast
Venue	Wesley College of Education. Kumasi, Ghana.
Date Workshop Role played Organizer(s) Venue	February 2019 Colleges of Education subject-based workshop for first year second semester Participant School of Educational Development and Outreach, Institute of Education. University of Cape Coast Wesley College of Education. Kumasi, Ghana.
Date Workshop Role played	21 st to 22 nd February 2019 Orientation on Gender Pedagogical Skills in Teaching and Learning for First and Second Year Teacher Trainees. Facilitator
Organizer(s) Venue	Centre for Gender and Disability Research and Advocacy (CeGDRA) St. Monica's College of Education, Mampong-Ashanti, Ghana
Date Workshop	18 th February 2019 Orientation on Gender Pedagogical Skills in Teaching and Learning for Tutors Participant
Role played Organizer(s) Venue	Participant Centre for Gender and Disability Research and Advocacy (CeGDRA) St. Monica's College of Education, Mampong-Ashanti, Ghana

Date Workshop Role played Organizer(s) Venue	October 2017 to June 2018 T-TEL Professional Development Programme on Assessing Trainee Teachers Participant The National Council for Tertiary Education (NCTE) in partnership with the National Teaching Council (NTC) St. Monica's College of Education, Mampong-Ashanti, Ghana
Date Conference Role played Organizer(s) Venue	09 to 12 June 2014 Crystallographic Training held in celebration of the 2014, the International Year of Crystallography Participant A UNESCO/International Union of Crystallography initiative in collaboration with PANalytical BV, F. Malawi Engineering Co. Ltd., and the Department of Physics at the University of Ghana in Accra University of Ghana, Legon
Date Conference Role played Organizer(s) Venue Date Conference	10 to 15 July 2011 27th Biennial Conference of the Ghana Science Association. Oral Presentation on the Title: "Investigation of Optical Properties of Zinc Sulphide Thin Films Deposited by Chemical Acidic Bath" Ghana Science Association. Kwame Nkrumah University of Science and Technology (KNUST), Kumasi. May 2011 Workshop on "Developing Internationally Competitive Research on Solar Cell
Role played Organizer(s) Venue Personal skills and	Materials at Kwame Nkrumah University of Science and Technology (KNUST)". Oral Presentation on the Title: "Investigation of Optical Properties of Zinc Sulphide Thin Films Deposited by Chemical Acidic Bath". Ghana Chemical Society, KNUST Branch. Department of Chemistry, KNUST.
competences Languages spoken	English, Fanti, Asanti twi
Social skills and competencies	Great communication skills and, a team player. Ability to adapt to a multicultural environment, acquired through the KNUST campus and secondary school.
Technical skills and competencies	Excellent working knowledge in furniture design and construction

Computer skills and competencies	Good command of Microsoft [™] tools (Word [™] , Excel [™] and PowerPoint [™]) Good command of e-learning tools such as Google Classroom, Edmodo, Microsoft Teams, Zoom, Moodle, etc.
Hobby	Listening to gospel music, Sharing God's word with people, helping people to achieve their goals, Teaching.
Professional Association Membership	
Association	Ghana Science Association (GSA), University Teachers Association of Ghana (UTAG)
Publications	
Articles	
	Bandoh, C. K., Adu-Poku, D., Haruna, M., Pinto, O., Danu, B. Y., Tutuwaa, A., Agorku, E. S., & Ampong, F. K. & Nkum, R. K. (2025). The influence of cobalt and graphitic carbon nitride on the efficiency of zirconium oxide for photodegradation of an organic dye in wastewater. <i>Journal of Chemical Research</i> , 49(1), <u>https://doi.org/10.1177/17475198251316376</u> .
	Bandoh, C. K. , Haruna, M., Adu-Poku, D., Danu, B. Y., Toku, M., Ampong, F. K., Nkum, R. K. & Agorku, E. S. (2025). Gadolinium doped-zirconium oxide-graphitic carbon nitride heterostructures for photocatalytic degradation of eosin yellow dye in water. <i>Next Materials</i> , 6, 100424. <u>https://doi.org/10.1016/j.nxmate.2024.100424</u>
	Adu-Poku, D., Saah, S. A., Sakyi, P. O., Bandoh, C. K ., Agyei-Tuffour, B., Azanu, D., Oteng-Peprah, M., Hawawu, I., Azibere, S., & Affram, K. A. (2024). Acid-Activated Biochar for Efficient Elimination of Amoxicillin From Wastewater. <i>Journal of Chemistry</i> , 2024, 3648098. <u>https://doi.org/10.1155/2024/3648098</u>
	Haruna, M., Bandoh, C. K ., Agorku, E. S., Opoku, F., Asare–Donkor, N. K., & Adimado, A. A. (2024). Experimental and ab initio studies of enhance photocatalytic efficiency of La-doped ZnO/g-C ₃ N ₄ nanocomposites for bromothymol blue dye degradation. <i>Next Materials</i> , 4, 100212. <u>https://doi.org/10.1016/j.nxmate.2024.100212</u>
	Haruna, M., Bandoh, C. K., Agorku, E. S., Opoku, F., Asare-Donkor, N. K., & Adimado, A. A. (2024). Synthesis of La-doped ZrO ₂ /g-C ₃ N ₄ nanocomposite for eosin yellow photodegradation: A combined experimental and theoretical studies. <i>Catalysis Communications</i> , 187(2024), 106852. <u>https://doi.org/10.1016/j.catcom.2024.106852</u>

	Haruna, M., Eshun, F., Bandoh, C. K. , Agorku, E. S., Francis, O., Asare– Donkor, N. K., & Adimado, A. A. (2024). Binary Ce-doped-ZnO/rGO composite as excellent photocatalyst for bromothymol blue dye degradation. <i>Sustainable Chemistry for the Environment</i> , 5, 100069. <u>https://doi.org/10.1016/j.scenv.2024.100069</u>
	Bandoh, C. K ., Danu, B. Y., Agorku, E. S., Ampong, F. K., & Nkum, R. K. (2024). The effect of cobalt-doped ZnO-g-C3N4 heterostructures on photocatalytic degradation of eosin yellow dye in water under simulated solar light. <i>Results in Materials</i> , 21, 100515. https://doi.org/10.1016/j.rinma.2023.100515
	Bandoh, C. K ., Agorku, E. S., & Ampong, F. K. (2022). Graphitic Carbon Nitride Based Composites as Advanced Photocatalysts, from Synthesis to Application : A Review. <i>Research & Reviews: Journal of Material Sciences</i> . <i>10</i> (4), 1–17.
	Bandoh, C. K., Nkrumah, I., Ampong, F. K., Nkum, R. K. & Boakye, F. (2021). Effect of Annealing on The Structure and Optical Properties of Lead Selenide and Cadmium Selenide Thin Film Prepared by Chemical Bath Deposition. <i>Chalcogenide Letters.</i> 18(2), 81-89. <u>https://chalcogen.ro/81_BandohCK.pdf</u>
Books	Amoako, S. K., Siaw, W. N., Bandoh, C. K ., Duut, K. B. & Yeboah, A. (2020). <i>Fundamentals of Chemistry for College Students</i> . Kumasi: Eddygraphics. ISBN: 978-9983-3-0429-4
	Duut, K. B., Siaw, W. N., Amoako, S. K., Bandoh, C. K ., Asumang, P., Kyenkyehene, S. A., Nkrumah, A. A. (2020). <i>Fundamentals of Biology for College Students</i> . Kumasi: Eddygraphics. ISBN: 978-9988-3-0105-7

References	
	1. Prof. Francis K. Ampong HoD, Department of Physics KNUST Tel: +233 (0) 244660301 Email: kampxx@yahoo.com
	 Prof. Robert. K. Nkum Professor of Physics Department of Physics, KNUST, PMB, Kumasi, Ghana Tell: +233 208222460 Email: rknkum.cos@knust.edu.gh
	 Prof. Eric Selorm Agorku Department of Chemistry, KNUST, Kumasi Tell: +233242901956 Email: seaky2k@gmail.com
	 4. Dr. Selina Ama Saah HoD, Department of Chemical Sciences University of Energy and Natural Resources P. O. Box 214, Sunyani, Ghana Tell: +233 242857466 Email: Selina.saah@uenr.edu.gh