Harry Barton Essel

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PROFILE

Harry Barton Essel (PhD) is an Associate Professor at the Department of Educational Innovations in Science and Technology, Kwame Nkrumah University of Science and Technology. He also services the Department of Publishing Studies and, Integrated Rural Art and Industry. He was born at Koforidua in the Eastern Region. He had his basic and Junior High School education at Seven Day Adventist Demonstration school (SDA) at Koforidua. He proceeded to Pope John Secondary School - now Pope John Senior High School, where he pursued Visual Art. After his secondary education, he furthered his studies at the Department of Publishing Studies at the Kwame Nkrumah University of Science and Technology located in the Ashanti region (Kumasi). After his first degree, he had the opportunity to enroll in the Art, Design, and Technology Education Programme - Kwame Nkrumah University of Science and Technology - where he had his Doctor of Philosophy.

RESEARCH

Interests	Learning Analytics · Educational Data Science and Engineering · Computational Thinking · Emerging · Educational Technologist
Areas	Education · Experimental and Cognitive Psychology · Sociology and Political Science · Developmental and Educational Psychology · Visual Arts and Performing Arts · Artificial Intelligence

RESEARCH SUMMARY

90	1,663	21	32	4.85	42%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 90 publications listed below, 2010–2026. Field-weighted impact is the mean over the 53 works scored for it; 1.00 is the world average for works of the same field, type and year. 22 of the 53 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Associate Professor 2024–present
Educational Innovations in Science and Technology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Senior Lecturer 2019–present
Educational Innovations in Science and Technology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Lecturer 2012–2019
Educational Innovations in Science and Technology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

Ph.D. Art Education 2006–2010
Educational Innovations in Science and Technology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

BA Publishing Studies 2001–2005
Publishing Studies, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 87

1. George Attah Aboagye, Kwame Fordjour Owusu, Emmanuel Aklasu, Frank Paul Mathews Nti, Dorothy Enyonam Adamtey, Kwadwo Fosu Duako, **Harry Barton Essel** (2026). A systematic review of Design Thinking as a pedagogical strategy in higher education learning experiences. *Discover Education*. https://doi.org/10.1007/s44217-026-02088-3
2. S Kquofi, **HB Essel**, EA Asante (2026). An analysis on the cultural contexts of Bɔsoɛ as an endangered Asante traditional dance. *Research in Dance Education*.
3. Phyllis Mensah, **Harry Barton Essel**, Akosua Tachie-Menson, Benjamin Tawiah, Abena Okyerewa Siaw (2026). Assessing Effectiveness of Workplace Experience Learning in HND Fashion Design TVET Programmes: Insights from Fashion Design Facilitators in Ghana. *Fashion and Textiles Review.*. https://doi.org/10.35738/ftr.v7.2025.51
4. Esi Eduafua Johnson, Paa Kwame Baah, **Harry Barton Essel**, Akosua Tachie-Menson, Ama Amponsah Dwamena, Vicentia Okpattah Wemegah, Akwasi Adomako Boakye (2026). Association between digital addiction subtype and emotional intelligence among preservice teachers in Ghana. *Discover Education*. https://doi.org/10.1007/s44217-026-01433-w
5. **HB Essel**, EE Johnson, FKN Nunoo, B Sarpong-Danquah (2026). Beyond the hype: Decoding how generative AI shapes academic achievement in higher education. *Australasian Journal of Educational Technology*. https://ajet.org.au/index.php/AJET/article/view/10395
6. **HB Essel**, A Tachie-Menson, B Tawiah, AD Akuteye (2026). Constraints of workplace experience learning implementation among fashion design TVET in Ghana. *Indonesian Journal of Education and Science*. http://www.journal.formadenglishfoundation.org/index.php/IJES/article/view/149
7. Prosper Setsoafia, **Harry Baton Essel**, Akosua Tachie-Menson, Dickson Adom, Steve Kquofi (2026). Creative thinking disposition among Ghanaian pre-service visual arts teachers. *Journal of Creativity*. https://doi.org/10.1016/j.yjoc.2026.100133
8. Benjamin Ansah, **Harry Barton Essel**, Kafui Kwesi Agyeman, Frank Kwabena Afriyie Nyarko (2026). Design, Development and Testing of a Science, Technology, Engineering, Art and Mathematics Education Localised Cycle Car Model: A Case in Kwame Nkrumah University of Science and Technology. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v44i2.7
9. Prosper Setsoafia, **Harry Baton Essel**, Akosua Tachie-Menson, Julliet Appiah-Kubi, Charles Atta Koduah, Macharious Nabang, Edmund Boamah Acheampong, George Attah Aboagye (2026). Digital literacy and academic performance in visual arts teacher education in Ghana. *Discover Education*. https://doi.org/10.1007/s44217-026-02055-y
10. Jacinta Mandy Baah, Eric Nana Ayeh Ntow, Jesse Ohene Boakye, Kotei Neequaye, Mavis Acquah, **Harry Barton Essel**, Akwasi Adomako Boakye, Eugene Paditey (2026). Enigma of generative AI literacy, self-efficacy, attitude, interest and dependence-induced task completion among university students: evidence from Ghana. *Journal of Applied Research in Higher Education*. https://doi.org/10.1108/jarhe-12-2025-1182
11. Ama Amponsah Dwamena, **Harry Barton Essel**, Akosua Tachie-Menson, Akwasi Adomako Boakye (2026). Exploring the impact of drawing anxiety on the creative performance of senior high school visual arts students in Ghana. *Discover Education*. https://doi.org/10.1007/s44217-026-01821-2

12. **HB Essel** (2026). From symbolic to empirical: confirmatory factor analysis of indigenous knowledge integration system into Ghanaian basic education curriculum for sustainable futures. *Journal of African Arts and Culture*. https://journals.uew.edu.gh/index.php/jaac/article/view/936

13. Samuel Nii Adamah Sampah, Macharious Nabang, Elikem Kofi Krampa, Mustapha Issah, Francis Koduah, **Harry Barton Essel**, Joe Adu-Agyem (2026). Generative AI Competence and Student Engagement in Higher Education. *Journal of Interdisciplinary Studies in Education*. https://doi.org/10.32674/3s3cx241

14. P Setsoafia, CA Koduah, **HB Essel**, FN Nunoo (2026). Here, There, and Everywhere: Generative AI Literacy as a Predictor of Academic Performance among Ghanaian University Students. *RESEARCH and*. https://elearningconference.knust.edu.gh/sites/default/files/2026-07/E-Learning%20Research%20%26%20Practice%20Journal%20Issue%201%20Vol1%202026.pdf#page=57

15. Samuel Nii Adamah Sampah, **Harry Barton Essel**, Joe Adu Agyem, Charles Atombo (2026). How Generative AI Competence Shapes Student Engagement: Configurational Pathways Through AI Utilisation, Perceived Autonomy, and Formal AI Learning. *Journal of Educational Technology Systems*. https://doi.org/10.1177/00472395261452533

16. Isaac Nana Kwame Afoakwa, Benjamin Tawiah, Ebenezer Kofi Howard, **Charles Frimpong**, Benjamin Kwablah Asinyo, Andrew Kwaku Boakye Tieku (2026). Response Surface Modelling Optimisation of Bamboo Fibre Extraction Using Ultrasonic-Assisted Alkaline Bath Method. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v44i3.8

17. Phyllis Mensah, **Harry Barton Essel**, Benjamine Tawiah, Akosua Tachie-Menson, Abena Okyerewa Siaw (2026). The Effectiveness of Workplace Experience Learning in HND Fashion Design (TVET) Programmes: Insights from Host Organizations in Ghana. *Journal of Art, Design, and Music*. https://doi.org/10.55554/2785-9649.1084

18. **HB Essel**, A Tachie-Menson (2026). The Effects of System-Paced, Learner-Paced and Learner-Attenuated System-Paced Conditions on Project-Based Learning Outcomes: Learning Pace and Project-Based Outcomes. *Journal of Science and Technology*. https://journal.knust.edu.gh/index.php/just/article/view/1937

19. Hamza Alhassan, **Harry Barton Essel**, Steve Kquofi (2026). The Standard-Based Creative Arts Curriculum Implementation in Primary Schools: Teacher Perceptions, Agency, and Resource Availability. *Studies in Learning and Teaching*. https://doi.org/10.46627/silet.v6i3.702

20. Michael Ato Essuman, Dickson Adom, **Harry Barton Essel**, Eugene Padditey, Aaron Daniel Akuteye (2026). Toward A Hybrid Use of Printed Textbook and Electronic Resources: An Inquiry of Publishing Studies Undergraduate Students' Educational Resource Use at KNUST, Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v44i2.9

21. **Harry Barton Essel**, Dimitrios Vlachopoulos, Esi Eduafua Johnson, Emmanuel Kweku Quansah (2026). Undergraduate students' perceptions of generative artificial intelligence as a predictor of learning autonomy in Ghana. *Discover Artificial Intelligence*. https://doi.org/10.1007/s44163-025-00725-8

22. Michael Ato Essuman, Twene Ampofo, **Harry Barton Essel**, Francis Nimo Nunoo, Reuben Agbelengor Glover (2025). An Investigation of Textbook Purchase and Usage Patterns among Undergraduate Students at Kwame Nkrumah University of Science and Technology, Ghana. *Journal of Education and Learning Technology*. https://doi.org/10.38159/jelt.2025674

23. P Setsoafia, CA Koduah, **HB Essel** (2025). Are They AI-Literate? Exploring The Impact Of Generative AI Literacy On Academic Performance Among Ghanaian University Students. *EDITORS: Eric Appau Asante*. https://www.researchgate.net/profile/Prosper-Setsoafia/publication/394107007_Are_They_AI-Literate_Exploring_The_Impact_Of_Generative_AI_Literacy_On_Academic_Performance_Among_Ghanaian_University_Students/links/688a221df7e6f27ff4763257/Are-They-AI-Literate-Exploring-The-Impact-Of-Generative-AI-Literacy-On-Academic-Performance-Among-Ghanaian-University-Students.pdf#page=142

24. Godwin Deku, Christopher Antwi, **Paul Kofi Karikari**, Daniel Boye Okai, Andrew Babatunde Omojola (2025). Cattle Demography, Farm Operations and Challenges Faced by Herdsmen in The Ejisu/Juaben Municipality of The Ashanti Region of Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/

10.4314/just.v1i2.1s

25. Fatimatu hajia Ibrahim, Akosua Tachie-Menson, **Harry Barton Essel**, Dennis Atsu Dake (2025). Development of Interactive Multimedia for Enhancing the Teaching and Learning of Macramé in Textile Education. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v43i3.8
26. Betty Essuman, **Harry Barton Essel**, Rudolf Steiner, Aaron Daniel Akuteye, Albert Benjamin Essuman (2025). Digital Literacy, Motivation, Self-Regulation, Interest, and Task Difficulty as Predictors of Performance in Online Learning: A Path Analysis. *International Journal of Current Educational Studies*. https://doi.org/10.46328/ijces.164
27. Akwasi Adomako Boakye, **Harry Barton Essel**, Akosua Tachie-Menson, Francis Kofi Nimo Nunoo, Ama Amponsah Dwamena (2025). Enhancing Project-Based Learning in Under-Resourced Ghanaian Senior High Schools Through a Pedagogical Agent Persona. *Journal of Education*. https://doi.org/10.1177/00220574251393975
28. Emmanuel Amos, **Harry Barton Essel**, George Kwame Fobiri, Akwasi Adomako Boakye, Yaw Boateng Ampadu (2025). Exploring the Analytics Readiness Among Students in Kumasi Technical University, Ghana. *SAGE Open*. https://doi.org/10.1177/21582440251368938
29. Akosua Tachie-Menson, **Harry Barton Essel**, Paa Kwame Baah, Esi Eduafua Johnson, Grace Sintim Adasi, Joy Seko Abra Amankwa, Beatrice Sarpong-Danquah (2025). Impact of Digital Addiction on Technology-Related Fatigue among University Preservice Teachers in Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v43i4.8
30. Prosper Setsoafia, **Harry Barton Essel**, Richard Bruce Lamptey, Francis Kofi Nimo Nunoo, Johnson Esi Eduafua, Grace Adasi Sintim, Akosua Tachie-Menson (2025). Investigating Information Literacy Self-Efficacy among Senior High School Visual Arts Students in Ghana. *Ghana Library Journal*. https://doi.org/10.65861/glj.v30i3.5
31. Hamza Alhassan, **Harry Barton Essel**, Steve Kquofi (2025). Navigating the Standard-based Creative Arts Curriculum Challenges in Primary Schools: A Qualitative Exploration. *International Journal of Education and Teaching Zone*. https://doi.org/10.57092/ijetz.v4i3.497
32. Akosua Tachie-Menson, **Harry Barton Essel**, Michael Ato Essuman, Francis Kofi Nimo Nunoo, Emmanuel Appau, Aaron Daniel Akuteye, Eunice Achiamaa Boadi, Nathaniel Tetteh Quaye (2025). Relationship Between Digital Nativity and Internet Addiction Among University Students in Ghana. *F1000Research*. https://doi.org/10.12688/f1000research.156283.1
33. Francis Kofi Nimo Nunoo, Eric Anane-Antwi, Michael Ato Essuman, Adolph Agbo, **Harry Barton Essel**, Ismail Moro (2025). Role of Colour in Information Retention Among Undergraduate Students in Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v43i2.7
34. Mohammed Seini Issah, Akosua Tachie-Menson, **Essel Harry Barton** (2025). Teacher Practical and Pedagogical Skills Acquisition (TPPSA) Framework For Skills Acquisition In Leatherwork. *Indonesian Journal of Education and Social Sciences*. https://doi.org/10.56916/ijess.v4i1.981
35. A Tachie-Menson, **HB Essel**, EE Johnson, GS Adasi (2025). The Impact of Digital Addiction on Technology-Related Fatigue among University Preservice Teachers in Ghana: Digital Addiction on Technology-Related Fatigue Among University …. *Journal of Science and Technology (Ghana)*. https://www.ajol.info/index.php/just/article/view/310211
36. FKN Nunoo, MA Essuman, A Agbo, **HB Essel** (2025). The Role of Colour in Information Retention Among Undergraduate Students in Ghana. *Journal of Science and Technology (Ghana)*. https://www.ajol.info/index.php/just/article/view/301847
37. Akwasi Adomako Boakye, **Harry Barton Essel**, Ernest Appiah, Eric Anane-Antwi (2024). Effectiveness Of Interactive Multimedia-Based Learning in Teaching Art History as A Component of General Knowledge in Art for Senior High School Students. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v42i2.9
38. **Harry Barton Essel**, Dimitrios Vlachopoulos, Henry Nunoo-Mensah, John Opuni Amankwa (2024). Exploring the impact of VoiceBots on multimedia programming education among Ghanaian university students. *British Journal of Educational Technology*. https://doi.org/10.1111/bjet.13504

39. Ernest Appiah, **Harry Barton Essel**, Eric Anane-Antwi, Akwasi Adomako Boakye (2024). Gamification In Educational Space: A Systematic Review. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v42i2.10

40. **HB Essel** (2024). The Impact of Instructional Spaces on Digital Graphic Design Ideation Outputs. *ADRRI Journal (Multidisciplinary)*. https://scholar.google.com/scholar?cluster=3939920170338928 37&hl=en&oi=scholarr

41. Ronit Akomeah, S. Kquofi, **H. B. Essel**, E. A. Asante (2023). An analysis on the cultural contexts of Bɔsoɛ as an endangered Asante traditional dance. *Research in Dance Education*. https://doi.org/10.1080/14647893.2023.2220664

42. Emmanuel Amos, **Harry Barton Essel**, George K. Fobiri, Mohammed Ibrahim (2023). Analysis on Students' Performance to Promote Gender Equality in Creative Fashion Design. *Edukasiana Jurnal Inovasi Pendidikan*. https://doi.org/10.56916/ejip.v2i4.445

43. **HB Essel**, P Osei-Poku (2023). Assessing creative arts teachers' competence in the implementation of inclusive creative arts education using universal design for learning framework. *ADRRI Journal (Multidisciplinary)*. https://www.researchgate.net/profile/Harry-Essel/publication/371982851_Assessing_Creative_Arts_Teachers'_Competence_in_the_Implementation_of_Inclusive_Creative_Arts_Education_Using_Universal/links/64a0cb9db9ed6874a5ed2825/Assessing-Creative-Arts-Teachers-Competence-in-the-Implementation-of-Inclusive-Creative-Arts-Education-Using-Universal.pdf

44. **Harry Barton Essel**, Dimitrios Vlachopoulos, Albert Benjamin Essuman, John Opuni Amankwa (2023). ChatGPT effects on cognitive skills of undergraduate students: Receiving instant responses from AI-based conversational large language models (LLMs). *Computers and Education Artificial Intelligence*. https://doi.org/10.1016/j.caeai.2023.100198

45. William Kwabena Nantwi, **Harry Barton Essel**, Patrick Osei-Poku (2023). Creative Arts Teachers Job Satisfaction in the Implementation of Inclusive Creative Art Education. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v41i2.6

46. **HB Essel** (2023). FEASIBILITY OF MODERN PEDAGOGICAL TECHNOLOGIES IN EDUCATION. *European Journal of Science, Innovation and Technology*. https://scholar.google.com/scholar?cluster=8845513763597763360&hl=en&oi=scholarr

47. Annette Akuamoah Boateng, **Harry Barton Essel**, Dimitrios Vlachopoulos, Esi Eduafua Johnson, Vincentia Okpattah (2022). Flipping the Classroom in Senior High School Textile Education to Enhance Students' Learning Achievement and Self-Efficacy. *Education Sciences*. https://doi.org/10.3390/educsci12020131

48. Mohammed Kwaku Baidoo, Akosua Tachie-Menson, **Harry Barton Essel** (2022). Institutional Dynamics and Skills Acquisition in School-Based Jewellery Education in Ghana. *Social Education Research*. https://doi.org/10.37256/ser.3220221418

49. **Harry Barton Essel**, Dimitrios Vlachopoulos, Akosua Tachie-Menson, Francis Kofi Nimo Nunoo, Esi Eduafua Johnson (2022). Nomophobia among Preservice Teachers: a descriptive correlational study at Ghanaian Colleges of Education. *Education and Information Technologies*. https://doi.org/10.1007/s10639-022-11023-6

50. Nana Yeboaa Opuni-Frimpong, **Harry Barton Essel**, Emmanuel Opuni-Frimpong, Elizabeth Asantewaa Obeng (2022). Sustainable Development Goal for Education: Teachers' Perspectives on Climate Change Education in Senior High Schools (SHS). *Sustainability*. https://doi.org/10.3390/su14138086

51. **Harry Barton Essel**, Dimitrios Vlachopoulos, Ralph Nyadu-Addo, Akosua Tachie-Menson, Paa Kwame Baah, Charles Owusu-Antwi (2022). The Impact of Mental Health Predictors of Internet Addiction among Pre-Service Teachers in Ghana. *Behavioral Sciences*. https://doi.org/10.3390/bs13010020

52. **Harry Barton Essel**, Dimitrios Vlachopoulos, Akosua Tachie-Menson, Esi Eduafua Johnson, Papa Kwame Baah (2022). The impact of a virtual teaching assistant (chatbot) on students' learning in Ghanaian higher education. *International Journal of Educational Technology in Higher Education*. https://doi.org/10.1186/s41239-022-00362-6

53. Osei Adiyaa, P. Osei-Poku, **H. Barton Essel** (2022). Validating Visual Art Educators' Test Construction Skills at the Senior High School in the Sekyere South District of Ashanti Region, Ghana. https://doi.org/

10.56388/edu220827

54. **HB Essel** (2021). Progressive mathematics initiative (PMI): An innovative approach to teaching and learning mathematics, evidence from three senior high schools in Ghana. *International Journal of Innovative Science and Research Technology*. https://www.academia.edu/download/68233741/Progressive_Mathematics_Initiative_PMI_.pdf

55. **Harry Barton Essel**, Dimitrios Vlachopoulos, Akosua Tachie-Menson, Esi Eduafua Johnson, Alice Korkor Ebeheakey (2021). Technology-Induced Stress, Sociodemographic Factors, and Association with Academic Achievement and Productivity in Ghanaian Higher Education during the COVID-19 Pandemic. *Information*. https://doi.org/10.3390/info12120497

56. Patrick Baiden, **Harry Barton Essel**, Dimitrios Vlachopoulos, Akosua Tachie-Menson, Michael Ato Essuman (2021). The Effect of Gamification on Home Economics Students' Motivation and Engagement in Drawing Activities. *Technology Knowledge and Learning*. https://doi.org/10.1007/s10758-021-09566-7

57. **Harry Barton Essel**, Dimitrios Vlachopoulos, Akosua Tachie-Menson (2021). The relationship between the nomophobic levels of higher education students in Ghana and academic achievement. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0252880

58. **Harry Barton Essel**, Dimitrios Vlachopoulos, Dickson Adom, Akosua Tachie-Menson (2021). Transforming higher education in Ghana in times of disruption: flexible learning in rural communities with high latency internet connectivity. *Journal of Enterprising Communities People and Places in the Global Economy*. https://doi.org/10.1108/jec-08-2020-0151

59. **HB Essel** (2020). Assessment of COVID-19 on primary education in Ghana. *Journal of internet banking and commerce*. https://ideas.repec.org/a/ris/joibac/0013.html

60. Effie Koomson, Mavis Osei, **Harry Barton Essel** (2020). Beyond words: art therapy for self-expression with female inmates. *Nairobi Journal of Humanities and Social Sciences*.

61. **HB Essel** (2020). Digital Technologies in Nursing and Midwifery Education in Ghana: Educators Perspective, Practice And Barriers. *Library Philosophy and Practice (eJournal)*. https://scholarworks.sjsu.edu/libphilprac/3722/

62. A Tachie-Menson, **HB Essel** (2020). Teaching challenging topics in English language, mathematics, and natural science in primary school using creative arts methods. *International Journal of Research and Innovation in Social Science (IJRISS)*. https://www.academia.edu/download/89836750/Article_Teachingofchallengingtopicsusingcreativearts.pdf

63. Dickson Adom, **Harry Barton Essel**, Joshua Chukwuere (2020). The State of Academic Stress in the Higher Institutions of Ghana: The Way Forward. *Universal Journal of Educational Research*. https://doi.org/10.13189/ujer.2020.080201

64. **HB Essel**, RB Lamptey (2019). ADOPTING A LOGIC FRAMEWORK FOR THE EVALUATION OF THE OPERATIONAL PROCESSES AND OUTCOMES OF KNUSTSpace ON RESEARCH, LEARNING AND TEACHING: A CASE OF EMPIRICAL RESEARCH OUTPUT BY …. *Library Philosophy and Practice (eJournal)*. https://scholarworks.sjsu.edu/libphilprac/2826/

65. **HB ESSEL**, RB LAMPTEY (2019). Awareness of Law Students of Kwame Nkrumah University of Science and Technology (KNUST) on Copyright Law: Emphasis on Photocopying and Fair Use. *All Nations University Journal of Applied Thought (ANUJAT)*. https://scholar.google.com/scholar?cluster=5253143880986551727&hl=en&oi=scholarr

66. Ofosu-Asare, Yaw, **Essel, Harry Barton**, Bonsu, Frank Mensah (2019). E-LEARNING GRAPHICAL USER INTERFACE DEVELOPMENT USING THE ADDIE INSTRUCTION DESIGN MODEL AND DEVELOPMENTAL RESEARCH: THE NEED TO ESTABLISH VALIDITY AND RELIABILITY. *HAL (Le Centre pour la Communication Scientifique Directe)*.

67. **HB Essel**, PK Butakor (2019). Summative e-Examination for High Stake Assessment in Higher Education: A Case of Undergraduate Students at the Kwame Nkrumah University of Science and Technology. *Global Journal of Human-Social Science Research: Arts and Humanities - Psychology*. https://www.academia.edu/download/83206284/2673.pdf

68. **HB Essel**, A Tachie-Menson (2018). 21st Century Skill Set Deficiency in Ghanaian Basic Education: A Review of Basic Design and Technology, and Information and Communications Technology Syllabi. *Indian Journal of Applied Research*. https://www.researchgate.net/profile/Harry-Essel/publication/322021093_Twenty-first_Century_Skill_Set_Deficiency_in_Ghanaian_Basic_Education_A_review_of_Basic_Design_and_Technology_and_Information_and_Communications_Technology_Syllabi/links/5a82c63e0f7e9bda869fb087/Twenty-first-Century-Skill-Set-Deficiency-in-Ghanaian-Basic-Education-A-review-of-Basic-Design-and-Technology-and-Information-and-Communications-Technology-Syllabi.pdf

69. **HB Essel**, Michael Boakye-Yiadom (2018). Assessing students' experiences of internal quality assurance practices in selected private higher education institutions. *International Journal of Science and Research*. https://www.academia.edu/download/81688436/ART20179738.pdf

70. **HB Essel**, A Tachie-Menson (2018). Effects of Student Support Services on Distance Learners in Selected Centres of Jackson College of Education. *International Journal of Science and Research*. https://www.researchgate.net/profile/Harry-Essel/publication/324496261_Effects_of_Student_Support_Services_on_Distance_Learners_in_Selected_Centres_of_Jackson_College_of_Education/links/5ad060c00f7e9b18965cf03d/Effects-of-Student-Support-Services-on-Distance-Learners-in-Selected-Centres-of-Jackson-College-of-Education.pdf

71. **HB Essel** (2018). Evaluating the Reasons for The Non-Participation of Kwame Nkrumah University of Science and Technology Institutional Repository by Academic Staff. *Journal of Basic and Applied Research International*. https://www.researchgate.net/profile/Harry-Essel/publication/325361051_EVALUATING_THE_REASONS_FOR_THE_NON-PARTICIPATION_OF_KWAME_NKRUMAH_UNIVERSITY_OF_SCIENCE_AND_TECHNOLOGY_INSTITUTIONAL_REPOSITORY_BY_ACADEMIC_STAFF/links/5b07e6384585157f871378f7/EVALUATING-THE-REASONS-FOR-THE-NON-PARTICIPATION-OF-KWAME-NKRUMAH-UNIVERSITY-OF-SCIENCE-AND-TECHNOLOGY-INSTITUTIONAL-REPOSITORY-BY-ACADEMIC-STAFF.pdf

72. **HB Essel**, FKN Nunoo, JO Amankwa (2018). Higher Education Students' Ownership and Usage of Smart Phones and Tablets: The Case of Kwame Nkrumah University of Science and Technology (KNUST). *International Journal of Educational Technology*. https://eric.ed.gov/?id=EJ1182237

73. **Harry Barton Essel**, Michael Boakye-Yiadom, Shamsudeen Mohammed (2018). Internal quality assurance practices of nursing and midwifery training colleges and the role of regulatory bodies: The perspectives of health tutors. *Journal of Nursing Education and Practice*. https://doi.org/10.5430/jnep.v8n10p68

74. Shamsudeen Mohammed, **Harry Barton Essel** (2018). Motivational factors for blood donation, potential barriers, and knowledge about blood donation in first-time and repeat blood donors. *BMC Hematology*. https://doi.org/10.1186/s12878-018-0130-3

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