Isaac Kwabena Agyei

Department of Industrial Art
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PROFILE

Dr. Isaac Kwabena Agyei is an astute Senior Lecturer, metal artist, and an exceptional academic figure in the Metals Section of the Department of Industrial Art, KNUST. His specialty is in design and fabrication of metal products, aesthetics and industrial casting methods. He has thought at the Section in his capacity as a Technical Instructor and a Lecturer respectively for about 10 years. He has a lot of research papers to his credit. He is currently working on series of designs of metal souvenirs for KNUST which will serve as a design Bank for the institution. Dr. Agyei obtained his first, second and Ph.D. degrees at Kwame Nkrumah University of Science and Technology.

RESEARCH

Interests	Art and Design · Jewelry and Metal smithing · Product Design · Gold and Silver Smithing · Metal Art · Jewellery · art education · casting methods · metal fabrication
Areas	Education · Museology · Mechanical Engineering · Archeology · Building and Construction · Experimental and Cognitive Psychology

RESEARCH SUMMARY

45	47	4	1	0.16	4%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 45 publications listed below, 1828–2026. Field-weighted impact is the mean over the 25 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 25 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer 2010–present
Industrial Art, Kwame Nkrumah University of Science and Technology, kumasi, Ghana

DR. 2010–present
INDUSTRIAL ART, ISAAC KWABENA AGYEI, KUMASI, Ghana

PhD. Art Education 2010–2036
Industrial Art, Kwame Nkrumah University of Science and Technology, kumasi, Ghana

EDUCATION AND QUALIFICATIONS

Dr. 2015–present
Department of Educational Innovation in Science and Technology, Kwame Nkrumah University of Science and Technology College of Science, KUMASI, Ghana

PhD. Art Education 2017–2021
Department of Educational Innovation in Science and Technology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

BEST LECTURER (RUNNER-UP) 2013
CABE, THE ROYAL BANK CASS-AWARDS, Kumasi, Ghana

PUBLICATIONS

Journal articles 45

1. Dickson Adom, Margaret Adu Debrah Sarpong, Steve Kquofi, Kwame Baah Owusu Panin, **Isaac Kwabena Agyei** (2026). Developing A Culturally-Sensitive Teaching Framework for Creative Art Education in the Afigya Kwabre South District, Ghana. *Journal of language, culture and education.*. https://doi.org/10.70267/jlce.v3n5.1324
2. Mohammed Kwaku Baidoo, Charles Adu-Boachie, Sandra Acquah, Prince Edem Dzakpasu, Cyril Etornam Adala, **Isaac Kwabena Agyei** (2025). Exploring the Production and Usage of a Metal Wall Hanging to Highlight some of the Crucial Issues Confronting Girl-Child Education in Ghana. *E-Journal of Humanities Arts and Social Sciences*. https://doi.org/10.38159/ehass.20256829
3. Charles Adu-Boachie, CE Adala, **IK Agyei**, PE Dzakpasu (2025). Exploring the Transformative Power of chasing and Repousse Techniques to create a Metal Craft to support the fight against Corruption in Ghana. *Ghana Journal of Science, Technology and Development*. https://gjstd.org/index.php/GJSTD/article/view/507
4. **IK Agyei** (2024). QUALITY ASSURANCE PRACTICES IN SELECTED PRIVATE COLLEGES OF EDUCATION IN THE ASHANTI REGION, GHANA. *SIBATIK JOURNAL: Jurnal Ilmiah Bidang Sosial, Ekonomi, Budaya, Teknologi, Dan Pendidikan*. https://publish.ojs-indonesia.com/index.php/SIBATIK/article/view/1829
5. Nuako Jerry James, **Isaac Kwabena Agyei**, Peggy Ama Fening, Adu-Agyem Joe, Kofi Adjei (2024). THE IMPACT OF EDUCATIONAL STAKEHOLDERS' ATTITUDES ON STUDENTS' ACADEMIC AND CAREER INTERESTS IN CERAMICS WITHIN THE KUMASI METROPOLIS, GHANA. *JADECS (Journal of Art, Design, Art Education and Culture Studies)/Media, Seni dan Desain*. https://doi.org/10.17977/um037v9i12024p1-11
6. **Isaac Kwabena Agyei** (2024). The teaching of wood carving skills into teaching and learning of wood carving. *ARTISTIC: International Journal of Creatiion and Innovation*.
7. JJ Nuako, **IK Agyei** (2023). AN INVESTIGATION OF THE CAUSATIVE FACTORS UNDERPINNING STUDENTS'LOW ACADEMIC AND CAREER INTEREST IN CERAMICS IN THE KUMASI METROPOLIS. *SIBATIK JOURNAL: Jurnal Ilmiah Bidang Sosial, Ekonomi, Budaya, Teknologi, Dan Pendidikan*. https://publish.ojs-indonesia.com/index.php/SIBATIK/article/view/1785
8. Kofi Adjei, Kwabena Asubonteng, **Isaac Kwabena Agyei** (2023). Advancing Indigenous Pottery for Modern Application: An Appraisal of a Ghanaian Modernist Ceramist-James Kwame Amoah. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v41i2.8
9. Peggy Ama Fening, **Isaac Kwabena Agyei**, Dickson Adom (2023). An Exploratory Study on Management Competence for Better Work Practices of The Traditional Metal Fabrication Industry in Kumasi, Ghana. *International Journal of Social Science and Religion (IJSSR)*. https://doi.org/10.53639/ijssr.v4i2.175
10. Fening, P. A., Asomaning, K. A., **Isaac Agyei**, Adu Boachie, C. (2023). DESIGN AND FABRICATION OF A MANUAL CENTRIFUGAL CASTING DEVICE PROTOTYPE FOR POST COVID-19 RECOVERY GROWTH OF THE TRADITIONAL GOLD JEWELLERY INDUSTRY IN GHANA. *SIBATIK JOURNAL Jurnal Ilmiah Bidang Sosial Ekonomi Budaya Teknologi dan Pendidikan*. https://doi.org/10.54443/sibatik.v2i5.787
11. Fening, P. A., **Agyei, I. K.**, Howard, E. K., Asinyo, B. K. (2023). Dynamics of Student Internship System in Faculty of Art of KNUST, Kumasi, Ghana: Exploring Perceptions, Values, Access and Development Outcomes. *International Journal of Social Science and Religion (IJSSR)*. https://doi.org/10.53639/ijssr.v4i3.180
12. Owusu Panin Kwame Baah, Peggy Ama Fening, **Isaac Kwabena Agyei**, Dickson Adom (2023). Innovative

Use of the Pointillism Technique for the Production of Scrap Metal Mural Art of Kofi Annan for Environmental Sustainability. *Journal of Innovations in Science and Technology*. https://doi.org/10.60129/jinces.v1i1.00523

13. Peggy Ama Fening, **Isaac Kwabena Agyei**, Charles Adu-Boachie, Cyril Etornam Adala (2023). Strategic Implementation of the PDCA and 5S Concepts to Improve the Productivity of the Informal Welding Industry in Kumasi, Ghana. *E-Journal of Humanities Arts and Social Sciences*. https://doi.org/10.38159/ehass.20234115
14. **IK Agyei** (2023). THE USE OF INDIGENOUS SYMBOL DESIGN CONCEPT AS A TYPE STYLE FOR FABRICATION OF DISTINCTIVE JEWELLERY TOOL RACK. *SIBATIK JOURNAL: Jurnal Ilmiah Bidang Sosial, Ekonomi, Budaya, Teknologi, Dan Pendidikan*. https://publish.ojs-indonesia.com/index.php/SIBATIK/article/view/1826
15. Peggy Ama Fening, **Isaac Kwabena Agyei**, Mohammed Kwaku Baidoo (2023). The Changing Face of Precious Jewellery as a Body Adornment: An Exploratory Study in the Ashanti Region of Ghana. *E-Journal of Humanities Arts and Social Sciences*. https://doi.org/10.38159/ehass.20234516
16. **Isaac Kwabena AGYEI** (2023). The Use of Aluminium Solid Waste as an Alternative Material for Casting in Sculpture: The Case of Nkawie Senior High Technical School, Ghana. *Sibatik Journal*. https://www.academia.edu/download/111162108/Emmanuel_Addai.pdf
17. **IK Agyei**, P Fening, C Adu-Boachie (2023). The rhythm of globalization and persistence of the socio-cultural significance of gold jewellery in Asante, Ghana. *SIBATIK JOURNAL: Jurnal Ilmiah Bidang Sosial, Ekonomi, Budaya, Teknologi, Dan Pendidikan*. https://publish.ojs-indonesia.com/index.php/SIBATIK/article/view/825
18. P Fening, **IK Agyei** (2023). UNMASKING THE SCAR OF COVID-19 PANDEMIC ON THE TRADITIONAL GOLD JEWELLERY INDUSTRY IN ASHANTI, GHANA FOR QUICK RECOVERY AND GROWTH OUTPUT. *SIBATIK JOURNAL: Jurnal Ilmiah Bidang Sosial, Ekonomi, Budaya, Teknologi, Dan Pendidikan*. https://publish.ojs-indonesia.com/index.php/SIBATIK/article/view/1361
19. Francis R. Ackah-Jnr, John Appiah, Hyacinth Udah, Emmanuel Abedi, Kwesi Yaro, Kwaku Addo-Kissiedu, **Isaac Kwabena Agyei**, Isaac Opoku-Nkoom (2022). COVID-19 Pandemic Experiences: Cross-Border Voices of International Graduate Students in Australia and America. *International Journal of Learning Teaching and Educational Research*. https://doi.org/10.26803/ijlter.21.4.6
20. **Isaac Kwabena Agyei** (2022). Exploring Ghana's Indigenous Metalworks By Using Chasing and Repousse Techniques. *Journal of Positive School Psychology*.
21. Fening, P.A. Fening, P.A., Adala, C. E. Adala, C. E., **Agyei, I. K. Agyei, I. K.**, Obuobi, J. Obuobi, J. (2022). Exploring the art of screen printing asphaltum for etching on medals and trophies for the indigenous metal art industry. *International Journal of Health Sciences*. https://doi.org/10.53730/ijhs.v6ns7.11683
22. PA Fening, **IK Agyei**, CE Adala (2022). Technological advancement and survival of SMEs in Ghana: the case of the blacksmithing industry in Kumasi metropolis. *Resmilitaris*. https://scholar.google.com/scholar?cluster=7371012059050789479&hl=en&oi=scholarr
23. PA Fening, **IK Agyei** (2022). The Impact of Covid-19 Pandemic on the Traditional Gold Jewellery Industry in Ghana: The Gold Price Factor. *Neuroquantology*. https://www.researchgate.net/profile/Isaac-Agyei-4/publication/365729094_The_Impact_of_Covid-19_Pandemic_on_the_Traditional_Gold_Jewellery_Industry_in_Ghana_The_Gold_Price_Factor/links/63807a807b0e356feb80cc50/The-Impact-of-Covid-19-Pandemic-on-the-Traditional-Gold-Jewellery-Industry-in-Ghana-The-Gold-Price-Factor.pdf
24. P. A. Fening, C. E. Adala, **I. K. Agyei**, R. T. Quashie (2022). The dark side of Galamsey. *International Journal of Health Sciences*. https://doi.org/10.53730/ijhs.v6ns6.9791
25. PA Fening, **IK Agyei** (2021). An improved method of traditional Centrifugal nugget casting with less occupational hazards for the ghanaian jeweler. *Design Engineering*. https://scholar.google.com/scholar?cluster=10026562583451759768&hl=en&oi=scholarr
26. **Agyei I.K** (2021). Design and Fabrication of Chain of Office for the Chancellor of Knust Using the Lost Wax Casting Technique. *International Journal of Innovative Science and Research Technology*.

27. **Dr. Isaac Kwabena Agyei** (2021). Jewelry Selection to Match Clothing; Ghanaian's Perspective. *Turkish Online Journal of Qualitative Inquiry (TOJQI)*.

28. PA Fening, **IK Agyei**, CE Adala (2021). Safety, Practices and Associated Healthy Hazards among Informal Welders in Kumasi Workplace, Ghana. *Design Eng*. https://www.researchgate.net/profile/Isaac-Agyei-4/publication/357051252_Design_Engineering_Safety_Practices_and_Associated_Healthy_Hazards_among_Informal_Welders_in_Kumasi_Workplace_Ghana/links/61b9e0ff4b318a6970e2e9c5/Design-Engineering-Safety-Practices-and-Associated-Healthy-Hazards-among-Informal-Welders-in-Kumasi-Workplace-Ghana.pdf

29. Dickson Adom, Ekta Sharma, Sandeep Sharma, **Isaac Kwabena Agyei** (2021). Teaching Strategies, School Environment, and Culture: Drivers of Creative Pedagogy in Ghanaian Schools. *Studies in Learning and Teaching*. https://doi.org/10.46627/silet.v2i2.68

30. **Isaac Kwabena AGYEI** (2021). "Akuma'su Adie3" (A Hearts Desire) A Metal Mural Depicting The Psychology of Fraud. *Arts and Design Studies(IISTE)*.

31. **Isaac Kwabena Agyei**, Peggy Ama Fening, Charles Adu-Boachie, Ofori Asare Amankwa (2020). Avocado Pear as a Source of Inspiration for the Design of a Model Truck as a Desk Organiser. *Arts and design studies*. https://doi.org/10.7176/ads/86-05

32. **AGYEI, ISAAC KWABENA**, DR. JOE ADU-AGYEM, MOHAMMED KWAKU BAIDOO (2020). Design And Production Of A Desktop Organizer For Kwame Nkrumah University Of Science And Technology. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.4012452

33. **Isaac Kwabena Agyei**, Peggy Ama Fenning, Kofi Adjei (2020). Design and Construction of a Multipurpose Device for Doming and Punching. *International Journal of Innovative Research and Development*. https://doi.org/10.24940/ijird/2020/v9/i8/aug20065

34. **Isaac Kwabena Agyei**, Joe Adu-Agyem, Peggy Ama Fenning, Mohammed Kwaku Baidoo, Samuel Kissi Baah, Cyril Etornam Adala (2020). Design and Fabrication of Metal Key Holders and Cufflinks as Souvenirs for Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. *Arts and design studies*. https://doi.org/10.7176/ads/83-01

35. Cyril Etornam Adala, **Isaac Kwabena Agyei**, Samuel Baah Kissi (2020). Metal Fasteners for the Local Fashion Accessories Industry in Ghana. *American Journal of Art and Design*. https://doi.org/10.11648/j.ajad.20200503.12

36. **IK Agyei**, D Adom (2020). Metal Welding Sculptural Portraiture for the Historical Remembrance of Political Figure in Ghana: The Case of Osagyefo Dr. Kwame Nkrumah. *Global Journal of Human-Social Science*. https://www.academia.edu/download/76389981/2_Metal_Welding_Sculptural_1_1_.pdf

37. **Isaac Kwabena Agyei**, Owusu Oteng Bediako, Dickson Adom (2020). Metal Welding Sculptural Portraiture for the Historical Remembrance of Political Figures in Ghana: The Case of Osagyefo Dr. Kwame Nkrumah. *Global Journal of Human-Social Science*. https://doi.org/10.34257/gjhssavol20is19pg1

38. **I Agyei** (2017). On the review of Homotopy and Cohomology: Similarities and differences. *Journal of Mathematical Acumen and Research*. https://www.researchgate.net/profile/Isaac-Agyei-3/publication/385292988_On_the_review_of_Homotopy_and_CohomologySimilarities_and_differences/links/671f1b3b2b65f6174dce821a/On-the-review-of-Homotopy-and-CohomologySimilarities-and-differences.pdf

39. **I Agyei** (2016). On the Conception of Open base. *Journal of Mathematical Acumen and Research*. https://www.researchgate.net/profile/Isaac-Agyei-3/publication/384045341_On_the_conception_of_Open_base/links/671f1a0e2b65f6174dce820d/On-the-conception-of-Open-base.pdf

40. **AGYEI, ISAAC KWABENA**, DR. JOE ADU-AGYEM, N.A. TETTEH (2013). Appraisal Of Works Produced By Metal Products Design Students Of Kwame Nkrumah University Of Science And Technology (Knust), Kumasi, Ghana. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.4012052

41. STEINER RUDOLF, **AGYEI, ISAAC KWABENA**, KWAME KYERE (2013). Fashioned for Fashion, the Dynamic Culture of Bamboo in Ghana. *Journals & Books Hosting (International Knowledge Sharing Platform)*.

https://doi.org/10.5281/zenodo.4012407

42. **AGYEI, ISAAC KWABENA**, DR. JOE ADU-AGYEM, K.A. AGYAPONG (2013). The Philosophical And Aesthetic Significance Of The Silver-Stool Of Mampong-Asante In Ghana. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.4011810

43. **AGYEI, ISAAC KWABENA**, DR. JOE ADU-AGYEM, P. AMPONSEM (2012). Female Genital Mutilation: Design and Fabrication of a Wall Plaque for Awareness Creation. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.4012392

44. **IK Agyei**, J Adu-Agyem (2010). Design and Production of Trophies for Selected Sports and Games in KNUST. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v30i1.53938

45. PA Fening, CE Adala, **IK Agyei** (1828). Exploring the Art of Screen Printing Asphaltum for Etching on Medals and Trophies for the Indigenous Metal Art Industry. *International Journal of Health Sciences*.