

DIRECTORATE OF RESEARCH, INNOVATION, PUBLICATION AND TECHNOLOGY TRANSFER (DRIPTT)

RESEARCH PUBLICATIONS BULLETIN

VOLUME 2, 2023

DIRECTORATE OF RESEARCH, INNOVATION, PUBLICATION AND TECHNOLOGY TRANSFER (DRIPTT)

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FOREWORD

ccra Technical University (ATU) seeks to foster much prominence on quality teaching, research, and innovation in order to successfully compete nationally and internationally in terms of university rankings and networks as part of its mission and vision to improve applied and impact-oriented research quality and output.

The academic staff's efforts to conduct applied and impact-oriented research in support of Pillar 2 of our Strategic Plan (2021–2025) have led to a steady increase in the university's research outputs. ATU strongly supports the publications of staff in prestigious academic journals and conference proceedings. The awareness of such publications has been developed in each academic department in ATU, and this bulletin, which is the second edition for the calendar year 2022, specifically provides this information. This accomplishment by eminent academic staff members reflects ATU's persistent dedication to the growth of scholarly, technological, and applied (impactoriented) research.

I take this opportunity to thank all academic staff in ATU for their innovative contributions in providing the compendium of completed research activities and subsequent compilation of publications in high impact publication outlets (publishers) and publication outlets indexed by web of science and scopus in each of our five (5) academic faculties for the calendar year 2022 by the Directorate of Research, Innovation, Publication and Technology Transfer (DRIPTT).

This second edition (volume 2) provides details of Research Publications in ATU and as Vice-Chancellor, I will continue to dedicate my vision towards impact-oriented and applied research to enhance our research outputs. Thumbs-up to the Director and staff of DRIPTT for their consistent efforts in producing ATU's second Research Publication Bulletin.

It is my hope that this Research Publications Bulletin Volume 2, 2023, will consistently provide a broad avenue of reference materials for the purpose of research activities, which will motivate staff to conduct more applied and impact-oriented research by annually publishing their research findings, results and innovations.

Prof. Samuel Nii Odai

Vice-Chancellor January, 2023

PREFACE

TU is committed to the development and reputation of academic staff through quality research outputs as exhibited in this Research Publications Bulletin Volume 2, 2023. This Research Publications Bulletin contains the publications of academic staff in high impact refereed journals and conference proceedings indexed by Web of Science and Scopus in all our five (5) Faculties and sixteen (16) Academic Departments in ATU.

Specifically focusing on Pillar 2 (Impact-Oriented Research) in our Strategic Plan (2021-2025), DRIPTT drives the research agenda of ATU, as stated by the Vice-Chancellor. This will guarantee high standards for research in our institution, which will eventually raise ATU's standing on national and international scales.

DRIPTT under the Office of the Vice-Chancellor's is committed to ensure quality of publications, which is in line with Pillar 2 of our Strategic Plan (2021–2025). In summary, a total of 55 articles/papers have been published by 28 out of 248 full time academic staff in the year 2022, representing a staff to publication ratio of 0.11 (11%). The total number of publications by academic staff has improved in comparison to 50 in 2021. In recognition of the extensive difficulties in publishing in web of science and scopus, the 28 academic staff as shown in this research bulletin, have done extremely well and made ATU tremendously proud. Additionally, at the closure of 2022, 83 out of 248 full time academic staff (33%) in comparison 18% in 2021 are currently registered on Google Scholar. DRIPTT will continue to liaise with HODs and Deans to improve this situation by further facilitating research publications and visibility agenda in ATU.

It is important to note that this Research Publications Bulletin Volume 2, 2023 contains a thorough overview of the academic staff in each academic department and faculty, as well as information about their publication trends in high impact publication outlets for the calendar year 2022. We sincerely thank all academic departments and faculty members for the submission of their research outputs in order for the second edition of the Research Publications Bulletin to be developed and published.

Prof. Nana Yaw Asabere

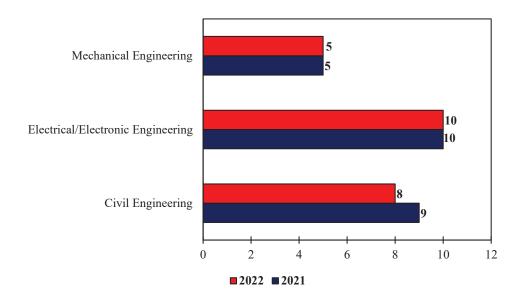
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Director, DRIPTT January, 2023

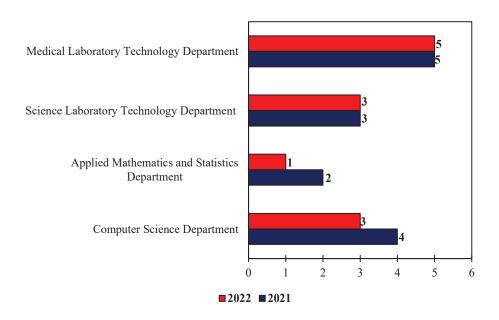
TWO-YEAR STATISTICAL TREND ANALYSIS OF RESEARCH **OUTPUTS (PUBLICATIONS)**

TWO-YEAR STATISTICAL TREND ANALYSIS OF RESEARCH OUTPUT (PUBLICATION) TRENDS IN HIGH IMPACT JOURNALS AND JOURNALS INDEXED BY WEB OF SCIENCE AND SCOPUS

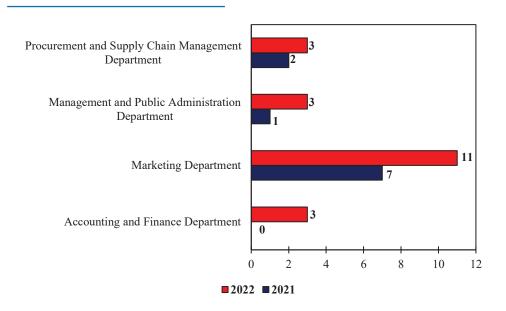
FACULTY OF ENGINEERING



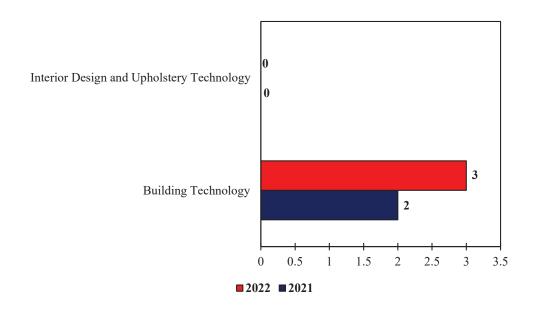
FACULTY OF APPLIED SCIENCES



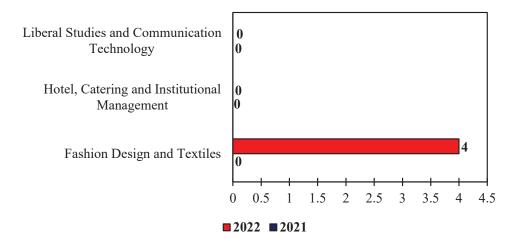
FACULTY OF BUSINESS



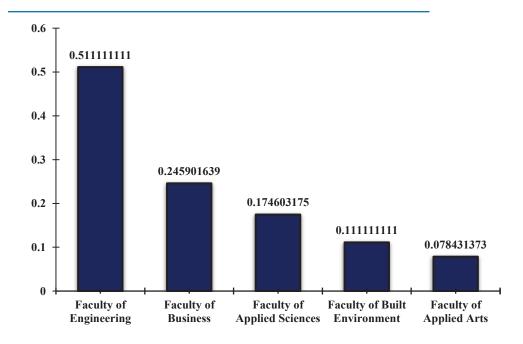
FACULTY OF BUILT ENVIRONMENT



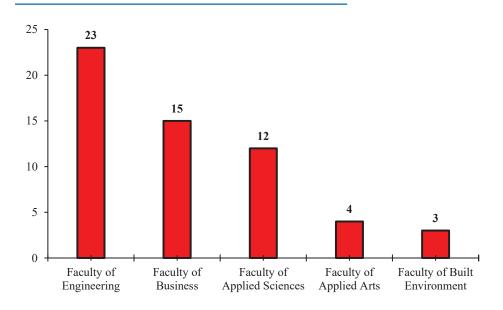
FACULTY OF APPLIED ARTS



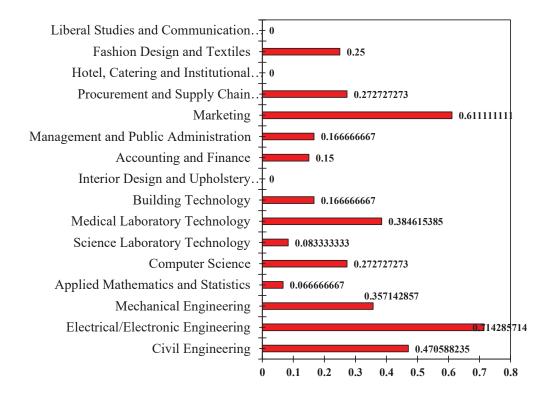
STAFF PUBLICATION RATIO OF FACULTIES IN 2022



OVERALL PUBLICATION PERFORMANCE OF FACULTIES IN 2022



STAFF PUBLICATION RATIO OF DEPARTMENTS IN 2022



FACULTY OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

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Mr. David Kwame Amoah	B.Sc. (Civil Engineering) Peoples' Friendship University Moscow - USSR, M.Sc. (Civil Engineering) Peoples' Friendship University - Moscow, USSR
Mr. Bright Aforla	M.Sc. (Civil Engineering) Tashkent University, USSR.

Lecturers

Dr. Sarah Fanny Hackman-Duncan	B.Sc. (Chemistry) UCC, M.Sc. (Water Environmental Sanitation) KNUST, Ph.D. (Civil Engineering), KNUST.
Dr. Prodeo Yao Agbotui	B.Sc. (Civil Engineering) KNUST, M.Sc. (Hydrogeology), University of Leeds, UK, Ph.D. (Hydrogeology), University of Leeds, UK.
Dr. Latif Kikaa Mohammed.	M.Sc. (Industrial and Civil Engineering) Moscow State University of Civil Engineering, Russia, Ph.D. (Construction Technology & Civil Engineering) Voronezh State Technical University, Russia.
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Assistant Lecturers	
Mr. David Dzitse-Awuku	B.Sc. (Geological Engineering) KNUST, M.Sc. (Geological Engineering), KNUST.
Mr. Archibald Nii Afotey Quaye	B.Sc. (Civil Engineering) KNUST, M.Sc. (Water Resources Engineering and Management), KNUST.
Mr. Jonathan Sasah	B.Sc. (Civil Engineering) KNUST, M.Sc. (Structural Engineering), KNUST.
Mr. John Nkansah Boateng	B.Sc. (Environmental Science) KNUST, M.Sc. (Water Supply and Environmental Sanitation), KNUST.
Ms. Leticia Osae Adum	B.Sc. (Civil Engineering) KNUST, M.Sc. (Water Resources Engineering and Management), KNUST.

- Agbotui, P., Anornu, G., Agbotui, T., Gyabaah, F., Amankwah-Minkah, A., Brookman-Amissah, M., ... & Sallah, J. (2022). Risk-based contaminated land management policy mindset: A way out for Ghana's environmental challenges. African Geographical Review, 41(2), 226-239.
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DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

Professor	
Prof. Amevi Acakpovi (Pro Vice-Chancellor)	B.Sc. (Computer & Electrical Engineering) Institute of Technology of Lokossa-Republic of Benin, M.Sc. (Electrical Engineering) University of Abomey-Calavi-Benin, Ph.D. (Engineering - Power and Energy Systems Engineering), Open University of Malaysia.
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Dr. Osman Salifu	General & Polytechnic Certificate of Education (Andrei Greecko Pre-University Institute, Cuba), M.Sc. (Electrical Engineering) Institute of Mining and Metallurgy of Moa, Cuba, Ph.D. (Electrical Engineering) Liverpool John Moore University, UK.
Dr. Richard Barnes Asamoah	B.Eng. (Electronics and Communications Engineering) KNUST, MEng (Biomedical Engineering) Anna University, India, Ph.D. (Material Science and Engineering) UG.
Mr. Eric Ananga	B.Sc. (Mechanical Engineering) KNUST, M.Sc. Engineering (Energy, Electrical & Renewable Energy)
Mr. Futa Osumanu	HND (Electrical Engineering) ATU, B.Eng. (Instrumentation and & Engineering) KNUST, M.Sc. (Telecommunication Engineering) KNUST.
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- Seddoh, M. A., Sackey, D. M., Acakpovi, A., Owusu-Manu, D. G., & Sowah, R. A. (2022). Maximum Power Point Tracking in Power System Control Using Reservoir Computing. Frontiers in Energy Research, 60.
- Acakpovi, A., Botwe-Ohenewaa, G., & Sackey, D. M. (2022), Impact of energy efficiency and conservation programs on the national grid in some selected households in Ghana. Energy Efficiency, 15(1), 1-20.
- Omani, J., & Acakpovi, A. (2022). Assessing the Performance of Liquid Waste Disposal Systems in West Africa: A Case Study in Ghana and Nigeria. Engineering Proceedings, 25(1), 1.

PUBLICATIONS IN PUBLICATIONS IN HIGH IMPACT CONFERENCE PROCEEDINGS INDEXED BY WEB OF SCIENCE AND/OR SCOPUS

- Sulley, M., Acakpovi, A., Adjei, P., Sackey, D. M., Offei, F., Afonope, M., ... & Tay, G. (2022). Techno-Economic Assessment of Grid Connected Solar PV/Wind hybrid System. In IOP Conference Series: Earth and Environmental Science (Vol. 1042, No. 1, p. 012016). IOP Publishing.
- Sackey, D. M., Owusu-Manu, D. G., Acakpovi, A., Appiah, F. K., Edwards, D. J., & Hosseini, R. M. (2022). Exploring the state of solar photovoltaic decentralization in Ghana: trends and success factors. In IOP Conference Series: Earth and Environmental Science (Vol. 1042, No. 1, p. 012013). IOP Publishing.
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DEPARTMENT OF MECHANICAL ENGINEERING

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Mr. Daniel Kweku Govi	B.Sc. (Mechanical Engineering) KNUST, M.Sc. (Mechanical Engineering) University of Derby, UK.
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Dr. Peter Nyanor	B.Sc. (Mechanical Engineering) KNUST, M.Sc. (Mechanical Engineering) Ruth International Aachen University – Germany, Ph.D. (Material Science and Engineering) Egypt-Japan University of Science and Technology, Egypt.

Lecturers

Dr. Glenn Kwabena Gyimah (Ag. Head, Research, Innovation and Grants)	HND (Mechanical Engineering) ATU, MEng (Mechanical Engineering and Theory) South China University of Technology - China, Ph.D. (Mechanical Engineering) South China University of Technology, China
Mrs. Patricia Kwakye-Boateng	B.Sc. (Mechanical Engineering) KNUST, M.Eng. (Refrigeration Engineering) Pukyong National University, South Korea.
Mr. Michael Kwesi Akpakpavi	HND (Mechanical Engineering) ATU, B.Ed. (Technical Education) UEW, MSc (Mechanical Engineering) KNUST.
Mr. Anthony Deku	B.Sc. (Mechanical Engineering) KNUST, M.Sc. (Mechanical Engineering) Blekinge Institute of Technology, Sweden.
Mr. Wilson Amenyah	M.Sc. (Automobile Engineering) Kharkov Automobile & Highway Construction Institute, Ukraine
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Chief Instructor	
*Mr. Isaiah Baidoo	B.Sc. (Mechanical Engineering) KNUST

- Agyekum, A. A., Kutsanedzie, F. Y., Mintah, B. K., Annavaram, V., & Braimah, A. O. (2022). Rapid Detection and Prediction of Norfloxacin in Fish Using Bimetallic Au@ Ag Nano-Based SERS Sensor Coupled Multivariate Calibration. Food Analytical Methods, 1-11.
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FACULTY OF APPLIED SCIENCES

DEPARTMENT OF APPLIED MATHEMATICS AND STATISTICS

Associate Professor	
Prof. (Mrs.) Alice Constance Mensah (Dean, Faculty of Applied Sciences)	BA (Economics and Statistics) UG, M.Sc. (Statistics) UCC, Ph.D. (Applied Statistics) UDS.
Senior Lecturers	
Mr. Edwin Mends-Brew (Head of Department)	B.Sc. (Mathematics) KNUST, M.Sc. (Mathematics) KNUST.
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Mr. Joseph Dadzie	B.Sc. (Mathematics) KNUST, M.Sc. (Statistics) UCC, M.Phil. (Industrial Mathematics) KNUST.
Mr. Martin Owusu Amoamah (Dean, Students' Affairs)	B.Sc. (Statistics) UG, M.Sc. (Statistics) UCC, M.Phil. (Industrial Mathematics) KNUST.
Mr. Ben Apau-Dadson	B.Ed. (Mathematics) UEW, M.Sc. (Statistics) UCC, M.Phil. (Industrial Mathematics) KNUST
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Dr. Richard Nkrumah	B.Sc. (Statistics) KNUST, M.Phil. (Statistics) KNUST, MSc (Cyber Security and Digital Forensics) KNUST, Ph.D. (Applied Statistics) UDS.
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Assistant Lecturers	
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Mr. Michael Pobbi Asamani	B.Sc. (Mathematics and Statistics) UCC, M.Phil. (Applied Statistics) KNUST.
Ms. Eunice Yaa Afriyie Frimpong	B.Sc. (Actuarial Science) KNUST, M.Phil. (Actuarial Science) KNUST.
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Mr. Moses Odamtten	B.Sc. (Statistics) UCC, M.Sc. (Statistics) University of Warwick, UK.

Asare, I. O., & Yeboah, J. O. (2022). Application of multilevel and panel data statistical techniques in modelling the amount of rainfall in selected locals in the Greater Accra Region. International Journal of Social Ecology and Sustainable Development (IJSESD), 13(1), 1-13.

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Mr. Tonny Paul Montana Adegboyega	HND (Electrical/Electronic Engineering) KTU, M.Sc. (Information Systems) University of Portsmouth, UK.
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- Asabere, N. Y., Fiamavle, E., Agyiri, J., Torgby, W. K., Dzata, J. E., & Doe, N. P. (2022). SARCP: Exploiting cyber-attack prediction through socially-aware recommendation. International Journal of Decision Support System Technology (IJDSST), 14(1), 1-21.
- Asabere, N. Y. (2022). CoSPARP: Collaborative and social-personality aware recommendation of programmes. Mobile Information Systems, 2022.
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DEPARTMENT OF SCIENCE LABORATORY TECHNOLOGY

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Ms. Charity Ahiabor	B.Sc. (Botany/Zoology) UCC, M.Phil. (Biological Sciences) KNUST.
Mr. Livingstone K. Gati	B.Sc. (Chemistry) KNUST, M.Sc. (Analytical Chemistry) KNUST.
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	Faculty Of Applied Science		
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DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY

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FACULTY OF BUILT ENVIRONMENT

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FACULTY OF BUSINESS

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- Opuni, F. F., Snowden, M., Winful, E. C., Hyams-Ssekasi, D., Halsall, J. P., Quaye, J. N. A., ... & Opoku-Asante, K. (2022). The Nexus between Entrepreneurial Education and Entrepreneurial Self-Competencies: A Social Enterprise Perspective. Sustainability, 14(19), 12725. https://doi.org/10.3390/su141912725
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DEPARTMENT OF MARKETING

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PUBLICATIONS IN HIGH IMPACT REFEREED JOURNALS AND JOURNALS INDEXED BY WEB OF SCIENCE AND/OR SCOPUS

- Afriyie, S. O., Akomeah, M. O., Amoakohene, G., Ampimah, B. C., Ocloo, C. E., & Kyei, M. O. (2022). Forensic Accounting: A Novel Paradigm and Relevant Knowledge in Fraud Detection and Prevention. International Journal of Public Administration. 1-10.
- Coffie, I. S., Nkukpornu, A., Kankam, W. A., & Ocloo, C. E. (2022). Using Social Marketing to Demystify the Myths Surrounding COVID-19 Vaccination: The Mediating Role of Important Others. Social Marketing Quarterly, 28(2), 169-183.
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- Opuni, F. F., Snowden, M., Winful, E. C., Hvams-Ssekasi, D., Halsall, J. P., Ouave, J. N. A., ... Ocloo, E. C., & Opoku-Asante, K. (2022). The Nexus between Entrepreneurial Education and Entrepreneurial Self-Competencies: A Social Enterprise Perspective. Sustainability, 14(19), 12725. https://doi.org/10.3390/su141912725
- Sghaier, S., Asiamah, N., Danguah, E., Opuni, F. F., & Hatsu, S. (2022). Information technology ability mediates the association between older adults' subjective age and social activity: A STROBE-compliant cross-sectional analysis. Archives of Gerontology and Geriatrics, 103. 104790.
- Asiamah, N., **Opuni, F. F.,** Muhonja, F., Danguah, E., Agyemang, S. M., Agyemang, I., ... & Manu, C. A. (2022). The relationship between job components, neighbourhood walkability and African academics' physical activity: a post-COVID-19 context. *Health Promotion* International, 37(2), daab090.
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- Effah, E. A., & Hinson, R. E. (2022). Green Brand Equity in an Emerging Economy: Ghana in Perspective. In Green Marketing in Emerging Economies (pp. 193-224). Palgrave Macmillan, Cham.
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DEPARTMENT OF PROCUREMENT & SUPPLY CHAIN **MANAGEMENT**

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PUBLICATIONS IN HIGH IMPACT REFERED JOURNALS AND JOURNALS INDEXED BY WEB OF SCIENCE AND/OR SCOPUS

- Antwi-Boampong, A., Boison, D. K., Doumbia, M. O., Boakye, A. N., Osei-Fosua, L., & Owinedu Sarbeng, K. (2022). Factors Affecting Port Users' Behavioral Intentions to Adopt Financial Technology (Fintech) in Ports in Sub-Saharan Africa: A Case of Ports in Ghana. FinTech, 1(4), 362-375.
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PUBLICATIONS IN HIGH IMPACT REFEREED JOURNALS AND JOURNALS INDEXED BY WEB OF SCIENCE AND/OR SCOPUS

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PUBLICATIONS IN HIGH IMPACT REFEREED JOURNALS AND JOURNALS INDEXED BY WEB OF SCIENCE AND/OR SCOPUS

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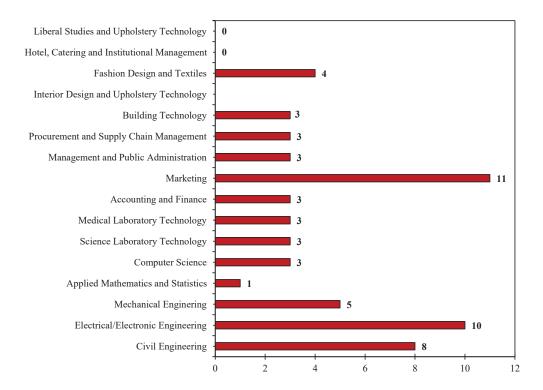
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NUMBER OF PUBLICATIONS PER DEPARTMENT



ACADEMIC STAFF WITH HIGHEST NUMBER OF QUALITY RESEARCH PUBLICATIONS IN HIGH IMPACT AND WEB OF SCIENCE/SCOPUS JOURNALS/CONFERENCE PROCEEDINGS PER DEPARTMENT

