A total of 32 journal articles were published during 2023 in line with the thematic areas adopted by the University thereby contributing to knowledge creation as per University mandate.

Below details of the publications made by the University staff during the quarter under review:

1. **Kawimbe, S** (2023). Framework of Entrepreneurship Theories in Augmenting Performance of Small and Medium Enterprises (SMEs) in Zambia. *International Journal of Latest Engineering and Management Research, 8 (2), 47-52* [*https://doi.org/*10.56581/8.2.47-52](https://doi.org/10.56581/8.2.47-52)
2. **Mweshi, G & Mweemba, B** (2023). Economic Benefits for the Integration of Supply Chain Networks on the Global Market. *International Journal of Advanced Engineering, 5 (3), 55-69.* [*https://doi.org/*10.35629/5252-05035569](https://doi.org/10.35629/5252-05035569)
3. **Kawimbe, S** (2023). Information and Communication Technologies (ICTs) as a Source of Education in Selected Higher Institutions of Education in Zambia. *International Journal of Advanced Multidisciplinary Research and Studies, 3 (2), 398-400. https://doi.org.10.47191/ijcrr/*
4. **Kawimbe, S** (2023). Black Tax and its Impact on Entrepreneurship Growth in Zambia: A Conceptual Perspective. *International Journal of Advanced Multidisciplinary Research, 9 (12) 317-321 https://doi.org/* 10.22192/2022.09.12.025
5. **Kalunga, P., Neene, V., Jere, B., Phiri, M & Chembe, C.** (2023). Challenges of Crowdfunding (Village Banking) in Zambia: Solutions and Opportunities. *Zambia Information Communication Technology Journal, 7 (1), 38-46.* <https://doi.org/10.33260/zictjournal.v7i1>
6. Sinyangwe, C., **Kunda, D**., & Abwino, W. P. (2023). Detecting Hate Speech and Offensive Language using Machine Learning in Published Online Content. *Zambia ICT Journal*, *7*(1), 79–84. <https://doi.org/10.33260/zictjournal.v7i1.143>
7. Mwape, S. C., & **Kunda, D**. (2023). Using data mining techniques to predict university student’s ability to graduate on schedule. *International Journal of Innovation in Education*, 8(1), 40. <https://doi.org/10.1504/IJIIE.2023.128470>
8. Mkandawire, Y., & **Zimba, A**. (2023). A Supervised Machine Learning Ransomware Host-Based Detection Framework. Zambia ICT Journal, 7(1), 52–56. https://doi.org/10.33260/zictjournal.v7i1.132
9. Kabaso, W., & **Zimba, A**. (2023). An Arduino-Based Smart Digital Flushable Toilet for Efficient Water Management and Enhanced Hygiene. Zambia ICT Journal, 7(1), 16–22. https://doi.org/10.33260/zictjournal.v7i1.136
10. Lishomwa, K., & **Zimba, A.** (2023). A Privacy-Preserving Scheme for Medical Diagnosis Records Based on Encrypted Image Steganography. Zambia ICT Journal, 7(1), 23–28. <https://doi.org/10.33260/zictjournal.v7i1.151>
11. **Kayombo, K. M., Bbune, C. M.** & Mwape, C. (2023). Credit Management and Profitability of Banks in Zambia. *Research Journal of Finance and Accounting*. 14(10), 36-44. [Credit Management and Profitability of Banks in Zambia | Kayombo | Research Journal of Finance and Accounting (iiste.org)](C:/Users/sidney.kawimbe/Documents/ZCAS%20UNIVERSITY%202023%20ANNUAL%20REPORT.docx#google_vignette)
12. Chisongo, E. M. and **Kayombo, K. M.** (2023). Determinants of Profitability of Commercial Banks in Zambia. *Research Journal of Finance and Accounting*. 14(12), 10-20.DOI:10.7176/RJFA/14-12-02. <https://iiste.org/Journals/index.php/RJFA/article/view/61132/63099>.
13. Phiri, M., Mulenga, M., **Zimba, A.,** & Eke, C. I. (2023). Deep learning techniques for solar tracking systems: A systematic literature review, research challenges, and open research directions. Solar Energy, 262, 111803. <https://doi.org/10.1016/j.solener.2023.111803>
14. **Muhyila, M., Lengwe, E., Bbenkele,** E (2023). Evaluating the Impact of the Internet on Sales Growth of Aquaculture MSMEs in Lusaka*. International Journal of Innovative Science and Research Technology*. 8 (6), 3397- 4402. <https://www.scribd.com/document/660313586/Evaluating-the-Impact-of-the-Internet-on-Sales-Growth-of-Aquaculture-MSMEs-in-Lusaka>
15. Mwanza, J., **Zimba, A.,** & Sinyinda, M. (2023). A Facial Authentication-based Deepfake Detection Machine Learning Model. Proceedings of International Conference for ICT (ICICT) - Zambia, 5(1), 134–140. Retrieved from <https://ictjournal.icict.org.zm/index.php/icict/article/view/291>
16. **Muhyila, M., Lengwe, E.,** **Bbenkele, E** (2023). Zambia's Strategic Roadmap for Thriving Aquaculture Micro, Small and Medium Enterprises*. RA Journal of Applied Research. 15 (9), 27-31.* <https://doi.org/10.47191/rajar/v9i7.01>
17. **Chisongo, E. M. and Kayombo, K. M.** (2023). Determinants of Profitability of Commercial Banks in Zambia. *research journal of finance and accounting*. 14 (12), 10-20. DOI: 10.7176/rjfa/14-12-02. <https://iiste.org/journals/index.php/rjfa/article/view/61132/63099>
18. Musonda, M., **Zimba, A.,** & Sinyinda, M. (2023). Machine Learning-Based Crypto Ransomware Detection Model On Windows Platforms. Proceedings of International Conference for ICT (ICICT) - Zambia, 5(1), 141–147. Retrieved from <https://ictjournal.icict.org.zm/index.php/icict/article/view/292>
19. **Chembe, C.,** Nasilele, N. B., & Msendo, R. (2023). The Fuss about Artificial Intelligence in Education Sector: Should we Worry? Zambia ICT Journal, 7(2), 30–35. <https://doi.org/10.33260/zictjournal.v7i2.269>
20. **Muyhila, M., Bbenkele, B., Lengwe, E** (2023) Zambia’s Strategic Roadmap for Thriving Aquaculture Micro, Small and Medium Enterprises. *Ra Journal of Applied Sciences.* 9 (7) 361-367. DOI:1.0.471.91/rajar/r917.0 <https://zenodo.org/record/8123521#.ZSQKOHZBw84>
21. Nasilele, N. B., Msendo, R., & **Chembe, C.** (2023). The Role of Teaching Methodology in Higher Learning Institutions in Zambia. Zambia Association of Public Universities and Colleges (ZAPUC) Conference, 3(1), 135–140. Retrieved from <https://ictjournal.icict.org.zm/index.php/zapuc/article/view/227>
22. Msendo, R., Nasilele, N., Nyimbile, P., & **Chembe, C.** (2023). Unveiling the Hidden Side: Exploring the Potential for Academic Dishonesty Among Lecturers during Examination Marking. Zambia Association of Public Universities and Colleges (ZAPUC) Conference, 3(1), 140–146. Retrieved from <https://ictjournal.icict.org.zm/index.php/zapuc/article/view/229>
23. **Muyhila, M., Bbenkele, B., Lengwe, E** (2023) "Evaluating the Impact of the Internet on Sales Growth of Aquaculture MSMEs in Lusaka. ".*International Journal of Innovative Science and Research Technology.* 6 (8), 3397-4201. DOI:10.5281/zenodo.81.70871 <https://zenodo.org/record/8170871#.ZSQHwnZBw84>
24. Halubanjza, B., Phiri, J., Nyirenda, M & **Kunda, D** (2023) [Low Cost IoT-Based Automated Locust Monitoring System, Kazungula, Zambia](https://www.researchgate.net/publication/372381744_Low_Cost_IoT-Based_Automated_Locust_Monitoring_System_Kazungula_Zambia?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHJvZmlsZSJ9fQ). DOI: [10.1007/978-3-031-35317-8\_59](http://dx.doi.org/10.1007/978-3-031-35317-8_59) <https://link.springer.com/chapter/10.1007/978-3-031-35317-8_59>
25. **Kayombo, K (2023).** Working Capital Management and Profitability of Banks in Zambia. *Research Journal of Finance and Accounting*. 14(16), 56-62. DOI: 10.7176/RJFA/14-16 <https://iiste.org/Journals/index.php/RJFA/article/view/61461/63446>
26. Mtambo, H., **Kawimbe, S.,** Kombe, C & **Mwange, A** (2023) Understanding the Impact of Electricity Load Shedding on Small and Medium Enterprises: Exploring Theoretical Underpinnings. *European Journal of Business and Management.* ISSN (Paper)2222- 1905 ISSN (Online)2222-2839.
27. **Kawimbe, S & Chilinda Muya** (2023). Emerging Role of Universities in Collective Impact Initiatives for Business and Community Benefit: The Tripple Helix Model. *International Journal of Research and Innovation.* Vol *No* 12, (9),DOI: [10.47772/IJRISS.2023.71025](http://dx.doi.org/10.47772/IJRISS.2023.71025) <https://www.researchgate.net/publication/374801021_Emerging_Role_of_Universities_inCollective_Impact_Initiatives_for_Business_and_Community_Benefit_the_Tripple_Helix_Model>
28. Mtambo, H., Meki, C., **Mwange, A** & **Kawimbe, S** (2023). Understanding the Impact of Electricity Load Shedding on Small and Medium Enterprises: Exploring Theoretical Underpinnings. *European Journal of Business and Management.* Vol No 15 (15)*.* DOI:10.7176/EJBM/15-15-08 <https://iiste.org/Journals/index.php/EJBM/article/view/61618/63610>
29. Mtambo, H., Meki, C., **Mwange, A** & **Kawimbe, S** (2023). Impact of Electricity Load Shedding on Operations of Small-Scale Enterprises in Selected Developing Countries: A Review of Literature*. Journal of Economics and Sustainable Development.*  Vol.14, No. (13). DOI: 10.7176/JESD/14-13-06 <https://iiste.org/Journals/index.php/JEDS/article/view/61619>
30. Mtambo, H., Meki, C., **Mwange, A** & **Kawimbe, S** (2023). Understanding the Impact of Electricity Load Shedding on Small and Medium Enterprises: Exploring Theoretical Underpinnings. *European Journal of Business and Management.* Vol No 15 (15)*.* DOI:10.7176/EJBM/15-15-08 <https://iiste.org/Journals/index.php/EJBM/article/view/61618/63610>
31. **Kayombo, K** & Himbondo, M (2023). Challenges Affecting Effective Application of Strategic Management Techniques in the Process of Implementing Organisational Change in Zambia Correctional Service. *Ra Journal of Applied Research.* Vol. 09, No (11).DOI.ORG/10.47191/RAJAR/V9I11.01 <http://www.rajournals.in/index.php/rajar/article/view/1250> *1799-1805*

**8.2 Conference Papers**

During the year under review the following four (5) staff participated in conferences:

1. Associate Christopher Chembe attended the Pan-African Conference on Information & Communications Technology (PACT-2023) at Confucius Institute, University of Zambia, Lusaka.
2. The Vice Chancellor Professor Douglas Kunda attended the ZAMREN conference in Lusaka
3. The Vice Chancellor Professor Douglas Kunda attended the conference in Lilongwe Malawi and presented a paper on Artificial Intelligence (AI)
4. Associate Professor Christopher Chembe attended ZAPUC conference and presented paper titled “Unveiling the Hidden Side: Exploring the Potential for Academic Dishonest Among Lecturers During Examination Marking”
5. Dr Sidney Kawimbe and Muya, C. attended ZAPUC conference in Livingston and presented paper titled “Emerging Role of Universities in Collective Impact Initiatives for and Community Benefit: The Tripple Helix Model”
6. Associate Professor Chembe attended ZAPUC conference in Livingston and presented paper titled “The Role of Teaching Methodology in Higher Institutions in Zambia”
7. Kalunga, P attended ZAPUC conference and presented paper titled “Evaluation of Multimedia and Gaming in Education: Opportunities and Solutions for the Education Sector in Zambia”
8. Mukosa, F., Mweemba, B., & Kayombo, K.attended ZAPUC conference and presented paper titled “The impact of Social Media Marketing on Branding of Higher Education Institutions (HEIs) in Zambia-A perspective of the changing role of Marketing”.
9. The Vice Chancellor Professor Douglas Kunda attended the ZAPUC conference and presented a paper titled “Locust Infestations and Mobile Phones: Exploring the Potential of Digital Tools to Enhance Early Warning Systems and Response Mechanisms”

**8.2 Book/Book Chapters**

One (1) book chapter was published in the quarter under review:

Halubanza, B., Phiri, J., Nyirenda, M., Nkunika, P. O. Y., & **Kunda, D**. (2023). Low Cost IoT-Based Automated Locust Monitoring System, Kazungula, Zambia. In R. Silhavy & P. Silhavy (Eds.), *Networks and Systems in Cybernetics* (Vol. 723, pp. 654–666). Springer International Publishing. <https://doi.org/10.1007/978-3-031-35317-8_59>