TIGRAY

Bibliography and Bibliometry

1996-2021



YOHANNES ABERRA

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Mekelle 2022

Dedicated to:

The Heroic Medical Personnel of Tigray who suffered with the people and served thousands of victims of sexual violence, airstikes, weaponized hunger, and gunshot-wounds without pay, without equipment, and without medicine for over two harrowing years.

Preface

Dr. Tewodros Adhanom, Director General of the World Health Organization, described the gruesome situation in Tigray to the World Community in these words: "Nowhere in the World would you find a crisis like what is seen in Tigray. Nowhere in the World are we witnessing hell like in Tigray". There is not an iota of doubt about it that super-resilient Tigray will survive and thrive. Every Tigrayan shares the optimism and is looking forward to a period of restoration and an era of sustainable development in Tigray. The enlightened founder of Buddhism, Guatama Buddha, is quoted to have said: "It is during our darkest moments that we must focus to see the light". It requires the blessing of a prophet to foretell when exactly Tigray will be free and embark on the herculean task of restoration with a sustainable development to follow. However, the certainty of the Tigray predicament coming to an end sooner or later demands that those who possess the requisite knowhow need to be proactive and start "buying summer boots in the winter season".

I am one of the tens of thousands of Tigrayan scholars who are motivated by the thought of a possible uplift of Tigray once the long and devastating siege is over. Knowledge produced earlier is like seeds that remain in the soil long after the vegetation cover is gone. With the right restoration measures the seeds can spring up into bush first and into forest next. The creation and dissemination of knowledge in Tigray has an ancient beginning. Axumite scholars, the accomplished predecessors of the present day Tigrayan academics, have given us the rich Geez alphabet the use of which spanned for thousands of years.

After several centuries of medieval darkness and brutal dictatorships Tigray experienced a renaissance in which the creation and dissemination of knowledge reached an unprecedented level. The three decades between the two wars saw a golden age of research and publications in a vast array of disciplinary and interdisciplinary fields. The book captures as much of the research output of the period between 1996 and 2021 as was possible for the single-handed and ill-equipped author under a lot of stress, inconvenience, and insecurity. Although it is neither listed in the bibliography nor included in the bibliometric analysis the limited volume of literature belonging to the entire century proceeding the year 1996 is

summarized briefly in the Introduction. The year 1996 was chosen as a start-year because it is the year after the Federal Constitution came into force, marking the official end of the 17-years of war in Tigray. By Constitutional provision Tigray attained its proper territorial extent befitting the compilation of the bibliography.

Restoration and sustainable development in Tigray need not start from scratch. This book is intended to provide a launch-pad for restoration and sustainable development in Tigray by making the research outputs more accessible to planners and decision makers in all sectors and at all levels. The compilation of the comprehensive bibliography is the first of its kind for Tigray. It is hoped that it can also serve as a foundation-stone for the establishments of an umbrella organization: Institute of Tigray Studies (ITS). Although a lot is already done, as revealed in the bibliography, there is still an insatiable demand for more advanced research output to realize a Super-Technological Society (STS) in Tigray.

Yohannes Aberra Mekelle April 2022

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Part I

Bibliographic Analysis

1. Introduction

1.1.Background

Humanity recorded the knowledge it gained through time, in the course of its interaction with nature, since antiquity. Men of the stone-ages painted the understanding of their environment and their own lives on the walls of their cave dwellings. The Summerian civilization was engraved on clay-tablets with the cuneiform. What was happening for thousands of years in the Lower Nile is extensively portrayed by the hieroglyphics on papyrus and the walls of temples and pyramids. Above all, the Dead-Sea scrolls have blessed us with the scriptures.

With the advent of the population boom and its corollary, the information boom, written records of knowledge acquired through observation and experience increasingly became far beyond the capacity of walls to accommodate them. The literature soared to millions and billions. Hence, the discipline of Bibliography evolved. Bibliographies have been compiled for many years now. Conrad Gesner, who is called the father of bibliography, published "Bibliotheca Universalis" as far back as 1545 AD. Carter and Barker (2004) distinguish enumerative and descriptive bibliographies. The former is a list of the literature consulted or meant for further study; whereas the latter is the systematic description of it. This book is of the second genre. The measurement of all aspects related to the publication of books and

documents (Rousseau 2014) or more specifically, the application of mathematics and statistical methods to books and other media of communication (Pritchard, 1969), is known as bibliometery.

Compilation of the bibliography in Ethiopia, in which a specific collection of the literature on Tigray is expected to be included, is only a few decades young. The 'Bibliography of Ethiopian Studies', edited by Abbink (1990), covered the years from 1957 to 1990. The bibliography with 'Tigray' indicated in their titles appear in the Ethnographic section. Only a PhD thesis on land, leadership and legitimacy; a book on economy and social analysis, and two other publications on land, capital and social stratification and local-level politics and social change are listed.

A year after the 'Bibliography of Ethiopian Studies' was published, another compilation of bibliography was made available for readers. This time it was a discipline-specific compilation for the health sciences. The book by Kloos and Ahmed (1991) is entitled 'Health, disease, medicine and famine in Ethiopia: a bibliography'. It covers the period between 1940 and 1985. Soon after the two bibliographic compilations on Ethiopia were published Sushma (1992) conducted an assessment of the state of the bibliography in Ethiopia and recognized the possibility for individuals to publish national bibliographies although the responsibility lies in the hands of the national library.

The compilation of a bibliography could have several goals. It could be for archiving the literature in which case information contained in the bibliography can be stored for a long enough time. The compilation and analysis of the bibliography in this book is intended for an urgent purpose as an assistance to facilitate the restoration and sustainable development in Tigray. The

bibliography of Tigray is a compilation of research output that is critical for a jump start of the process of restoration and sustainable development. Fayomi, Okokpujie, Mfon (2018) asserted that research will forever be a very important ingredient of development and its significance will forever remain relevant for any system that wants to grow. Intervention strategies that reflect long-term goals need proper application of key research findings and utilization of appropriate technologies (Calame 2005).

The book is organized in two parts. The first part is the bibliographic analyses and the second the bibliography list. The scope of the bibliographic compilation and analysis is at the level of Tigray state, inclusive of all disciplines, and spanning between 1996 and 2021. A survey of the literature for the entire century before 1996 shows that not much was written about Tigray. A web search resulted in 50 books, articles, papers and other documents from 1903 to 1995. Until the Italian occupation of Ethiopia most of the writings on Tigray were written in the Italian Language and focused on the native language of Tigray and cultural songs. A few works of geology are reported during the period of Italian occupation, followed by more attention given to archeological studies and some geology, after liberation. During Military rule in Ethiopia Tigray studies continued to focus on archeology and geology. Research on famine and rural development also came into the spotlight; but it was too weak to be illuminating. Although the emphasis on archeology and geology is reasonable in view of the fact that Tigray is endowed by nature and by history to be an openair geological and archeological museum.

Extensive research in Tigray before the 1990s was considered to be inconvenient, costly, dangerous, and even undesirable. Given the location of the main research centers of Ethiopia, several hundred kilometers away from Tigray, a deep sense of unconnectedness prevailed exacerbated by the difficult transport and chronic insecurity. Of course, researchers are not war correspondents; peace and stability is a strict precondition for research to be conducted successfully. However, taking convenience into serious consideration in research is like 'looking under the lights for something you lost in the darkness'. The best research problem to pick up for research is where it is most significantly manifested. In the research institutions outside Tigray what many know but few talk about is that selecting Tigray as a research site was and still is actively discouraged. It sometimes turns out to be penalizing in cases where students or researchers fail to comply with the norms and engage in research on Tigray. Assuming that it is mainly researchers of Tigrayan origin who would be interested in doing research on Tigray the two decades of war of rebellion in Tigray had engaged almost the entire Tigrayan intelligentsia in armed struggle.

1.2. Methodology

It is absolutely necessary to remind readers at the outset that the analysis is less rigorous than the level reached in international bibliometry. The goal of the analysis is far from involving in methodological debates; it is rather intended to help scholars and ordinary readers alike to get uncomplicated picture of the state of the literature in Tigray and use it as a springboard for action.

1.2.1. The tool-kit

The procedures in bibliographic analysis as set forth, by Donthu et al (2021), are: Step 1: Define the aims and scope of the bibliometric study before the selection of bibliometric analysis techniques and the gathering of bibliometric data (units of publication and

citation); Step 2: Choose the techniques for bibliometric analysis that can meet the aims and scope (performance analysis and science mapping); Step 3: Collect the data for bibliometric analysis in which search terms are defined in a way that will yield search results large enough to warrant bibliometric analysis and focused enough for the scope of study; Step 4: Run the bibliometric analysis and report the findings: The use of bibliometric visualization in figures and tables to curate analytical over descriptive discussions.

For Step 1 a brief statement is made about the aim and scope of the bibliographic analysis in the background sub-section. The techniques for the bibliographic analysis is elaborated by Donthu et al (2021): One is performance-analysis (contributions of research constituents (e.g. authors) and the other is science-mapping (relationships between the constituents). The former is used as an analytical technique as data for latter is could not be derived from the bibliographic data available to the author. Performance analysis has two components: publication-related metrics and citation-related metrics.

Bibliographic information for publication patterns analysis includes productivity indicators: 1. Number of publications and types of publications (books, journal articles, theses); 2. Subject area of publications (agriculture, health, environment); 3. Publications by year; 4. Number of contributing authors and status of author on a publication (sole-authored, co-authored) (Carpenter et al 2014, Donthu et al 2021, Padrós-Cuxart et al 2016, and Padrós-Cuxart et al 2016).

How frequently authors publish in flagship journals of the discipline is also a crucial measure of performance (Wallin 2005).

This leads us to the other performance measure visibility of publications may be assessed from citation counts of articles. Citation-related metrics measure the impact of an author's articles based on the assumption that influential works or scientists are cited more often than others; citation reflects the merit (Vucovich, Baker, and Smith 2008). Citations are proxies for research impact and quality assuming that a simple linear relationship between quality and citation exists. However, it must be kept in mind that citation patterns vary greatly between disciplines, publication types and authors (Wallin 2005) and may lack the consistency as a measure of quality.

1.2.2. Bibliographic data collection

The collection of bibliographic data in this book depended on the Scholar Google search engine. It is arguably a global leader in the search for academic publications and other works. It provides search results with links to PDF and HTML copies, as well as citations with or without links. Attaining exhaustive search results depends on how skillfully the search term or phrase is chosen to ensure a maximum and relevant search output. My Scholar Google search used the 'Advanced Search' window and entered the search term in: 'With the exact phrase', 'In the title of the article', and 'Return articles dated between'.

The search word and phrase were strictly required to appear on the title. The search term selected is the geographical scope of the bibliographic analysis. Two words and a phrase that needed to be entered into the search bar were: 'Tigray', 'Tigrai', and 'Northern Ethiopia'. The two names alternatively used in the literature for the geographical unit under consideration are: 'Tigray' and 'Tigrai'. The reason why 'Northern Ethiopia' was used as a search phrase

is that hundreds of publications don't show 'Tigray' or 'Tigrai' on the titles. There would be no problem if 'Northern Ethiopia' were a reference only to Tigray. The lack of standardized guidelines for stating the location of study areas has messed up the use of compass direction to indicated location of study areas.

Multitudes of writers including international agencies have indicated the compass location of Amhara, Tigray and Afar as 'Northern Ethiopia'. One has to open the text of each of the hundreds of publications to find out whether the study was conducted in Tigray, Gojjam, Gondar, Wello or Afar. For many publications even opening the text did not solve the problem. The abstract or full text of a number of publication did not clearly indicate in which region the study was conducted. Presuming that the study area of the publications may be outside Tigray they were removed from the list. Search in the text of several publications which indicated only 'Northern Ethiopia' as a study area in their titles revealed that the study areas were in Gojjam. Referring to Gojjam as a 'Northern Ethiopian' region is sheer negligence. The author had to discard so many search results after a waste of time and energy.

For zonal level analysis within Tigray there were also many publications that did not indicate their study zones not only in the titles but also in the text. Such publications were deemed as Tigray level studies and analyzed accordingly. This may have inflated the number of Tigray level studies giving a wrong information about the whereabouts of study areas. This had its adverse effect on classifications based on the geographical component of the publications. Of course, authors do not prepare their manuscripts with a post publication bibliographic analyses in mind which could include their publications. Since bibliographic studies are expected

to continue long into the future authors of books and journal articles should care to indicate in the titles the political geographic unit in which their study areas are located in a more specific way.

The thousands of results of the Scholar Google search gave the list of publications and other academic research output on which the bibliographic analysis was launched. In addition to the citation details (author, title, year, and source), citation counts were also available for each search result. However, the way the Scholar Google search results are displayed did not make the ride smooth. The Citation details in most cases were incomplete: not all author names are displayed, not complete titles are displayed, and the sources (e.g. journal names are not written in full. This required pasting the title or any part of it available on the Scholar Google search bar and access the abstract or full text of the publication.

Although most of the abstracts and/or full texts of the publications provided the missing bibliographic information numerous publication did not. Decisions were made to remove such publications from the final list for bibliographic analysis. Some search results were just citations from the reference sections of other publications. Wherever such publications are deemed significant they are included in the analysis after searching for their complete citation from other sources like Scholar Google 'cite' or a new search in Google.com.

1.2.3. Classification

Classification is at the heart of scientific methodology. It is an exhaustive process which creates mutually exclusive categories, where similarity within group is maximized and difference between groups is maximized (Kenneth 2005). This is a neat characterization of the process of classification which does not

match with reality. Practice rather than theory reveals that classification is not a perfect science. Even if it is possible for it to be exhaustive for a given data set, it is difficult to attain complete mutual exclusivity. Sharp boundaries are rare in nature and society; diversity, continuum, and nexuses are the norm. The only realistic option left for classification is to minimize the difference between classes and maximize the similarity within classes. This implies that individual knowledge, skill, and a keen sense of detecting differences and similarities is critically important for successful classification.

Fig. 1 Social science cluster of the subject matter categories

| History | Administration | Economy | Social |
|---|--|--|--|
| Archeology History Ancient Church Political | Conflicts Decentralization Governance Land administration Policies Services Traffic problems | Devel opment Employment Income Manufacturing Market Micro-Enterprises Micro-Finance Miscellaneous Saving-Behavior Supply/Value chain Tourism | Bereavement Cooperation Demography Domestic violence Education Food security Gender Humanitarian Livelihoods Marginalization Sexual behavior Miscellaneous |

Classifying the social sciences cluster was not easy but not as complex as the cluster for the natural sciences. History and archeology have a greater proximity to one another than they do to other social science fields. Moreover, the two disciplines have a time dimension which makes them stand more distinctly than others. The more serious challenge posed in the classification of the social science cluster is drawing a bold enough boundary

between what can be considered as administrative matters, which subjects are for economic analysis, and how distinct could social issues be from administrative and economic research problems. At a closer examination of Fig. 1, one can notice, for example, that some issues listed under 'administration' could possibly be recategorized under 'economy' and the vice versa.

Fig. 2 Natural science cluster of the subject matter categories

| Environment | Health | Agriculture | |
|---|--|---|---|
| Climate Change Carbon stock Drought Ecosystem Enclosures Enclosures Energy Forest Wildlife Hydrology Reservoirs Groundwater Water harvesting Water shed Management Soil erosion/ Land degradation Soil and Water Conservation Natural resources Land cover Pollution Heavy metals Paleo-environment Sanitation use Waste disposal Restoration Recover Water harvesting Wat | Diseases Cervical cancer COVID-19 Diabetes Hepatitis HIV/AIDS Hypertension Leishmaniasis Malaria Tuberculosis Reproductive Health Neonatal Antenatal Pregnancy Postnatal Perinatal mortality Pre-term birth Birth weight Breast feeding Maternity Other Health Malaria Nutrition Drug Medicinal plants Contraceptive Family Planning Miscellaneous | Animal Farming Cattle breed Goat breed Sheep Bee keeping Dairy Poultry Pigs Silk worm Feed Veterinary Miscellaneous Other Agriculture Irrigation Soil fertility Agro climate Miscellaneous Geology Cenozoic Mesozoic Paleozoic Precambrian Miscellaneous | Crop Farming Crop Farming Cereals Barley Finger Millet Maize Rice Sorghum Teff Wheat Legumes Cow peas Dekeko Faba beans Masho Vegetables Garlic Lettuce Mushrooms Onions Pepper Potatoes Tomatoes Sesame Apples |

Geology, in the natural science cluster has a much stronger time dimension than even history and archeology do. There is also no significant subject matter shared between geology and the rest of the members of the cluster (agriculture, environment, and health), except for example the analytical methods in landscape evolution of geomorphology and the processes of induced soil erosion in environmental studies. Next to geology health has a more visible distance from the remaining two categories in the natural science cluster (agriculture and environment). Agriculture also has crop production and animal husbandry lying almost exclusively in the field of agriculture.

At least in the context of a semi-arid, drought-prone, and land-degraded geography agriculture and environment are so interwoven that assigning them into two categories requires a well-informed judgment. The major challenge the classification scheme faced here is firstly, whether or not to categorize silviculture, hydrology, and pedology on their own separately in par with agriculture and environment. Secondly, if this becomes less desirable given the apparent skew of the research output on forest, soil and water to environmental concerns in Tigray. Hence, including the three in the environment category becomes more reasonable.

In view of the fact that forests in Tigray are more valued as providers of environmental services related to air, water and soils rather than their economic value as sources of timber; since water in Tigray is more relevant to the maintenance of ecosystem integrity rather than being an input for mega projects; and soils are viewed more in terms of their erosion and conservation, forests, water, and soils are assigned to the 'environment' category. Irrigation, soil fertility, and some agroforestry are more

appropriately brought under agriculture. Wherever, classification of sub-categories (See Fig.1 and Fig. 2) becomes difficult a sub-category ("Miscellaneous") is created.

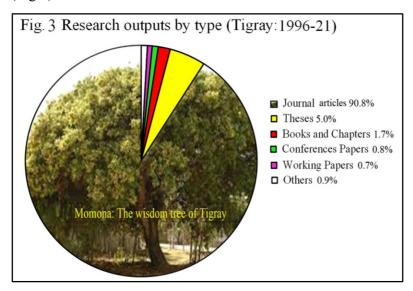
2. Bibliographic Analysis

Bibliographic analysis is presented in two sections: Publication Analysis and Citation Analysis. Publication analysis constitutes: research outputs by type; annual research output; total research output by subject area category; annual research output and trend for agriculture; environment and health; study area distribution of research output by subject area categories; study area distribution of research output by year intervals; number of authors per publication by subject area category; number of authors per publication by year interval; and journals with high publications frequency. Citation analysis constitutes: select articles published in journals for the analysis; rank articles by citation counts since the year of publication; select articles with 100 and above citation counts for in-depth analysis; identify the subject matter, the journal, and the author(s) with higher rankings for agriculture, environment and health.

2.1. Publication analysis

The initial search for the bibliographic list came up with over nearly 3000 results. The removal of duplicates and triplicates, those with unclear or unspecified location of study areas, incomplete sources for which thorough web-search did not help, and those that neither had accessible abstract or full text nor complete citation drastically reduced the bibliographic list to 1675. The search for the bibliographic list in the Scholar Google was not specific to any form of publication or source. The search results were located in journals, as theses, books and book chapters,

conference papers, working papers, and other miscellaneous sources. By far the largest proportion of the sources (91%) are journals. The distribution by source is depicted in the pie-chart (Fig.3).



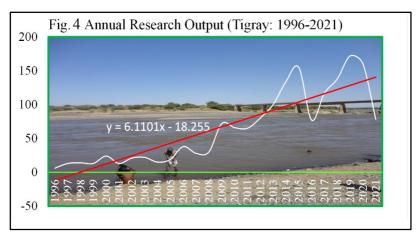
2.1.1. Annual trend of research output

The yearly distribution of the research output in the 26 years from 1996 to 2021 is represented by a line-chart in Fig. 4. The trend line fit into the distribution reveals a relatively high gradient. This can be explained by the coming into existence of high capacity and fervent political and academic enablers that never existed before. The two decades of armed struggle in Tigray, which came to a close by instituting radical changes to the political-administrative setup in Ethiopia in the hands of the leaders of the coalition in the Capital, provided a very fertile ground for the long awaited economic and social development in Tigray.

The significant scale devolution of central power and the resulting administrative autonomy of Tigray allowed the age old aspirations of the people to be realized by laying down the institutional foundations for sustainable development based on research. The critical preconditions for this are higher education for generating knowledge and institutions for putting research output into development practice. The key trigger to the colossal research output in what can be considered as a relatively short duration is the founding of the College of Dry land Agriculture, popularly known by local folks as just "Arid". The college which was destined to become the seedling for the establishments of Mekelle University, was founded in 1993 under the shade of a Momona tree. Teaching and research activities in the College were integrated with the operations of two giant quasi-government environmental organizations in Tigray. The older and more experienced Relief Society of Tigray (REST) and the young by Commission for Sustainable Agriculture Environmental Rehabilitation in Tigray (Co-SAERT) were responsible for the world renowned soil and water conservation and extensive re-greening in Tigray.

Mekelle University, which flourished to become the second ranking university in Ethiopia by 2020 was then 20 years old. The founding father of the University-Professor Mitiku Haile-linked it to several universities in Europe and in other continents. Research funds, collaboration, staff exchange and training, literally put universities in The Netherlands and Belgium in one campus with Mekelle University. Some like Jan Nyssen, a Belgian professor, became naturalized natives of Tigray. The expansion of the University, which started from scratch and was drastically enhanced during the decade of Prof. Mitiku's presidency, reached

its zenith in the following decade led by Prof. Kindeya Gebrehiwot. In the meantime there were other related developments in Tigray that boosted the capacity for research and publication. Three other universities were established in Tigray: Axum (2007), Adigrat (2011), and Raya (2011). The jewel in the crown of research and publication in Tigray is the founding of Mekelle University's Ayder referral and research hospital in 2008. As it is revealed in the discussion to follow health research and publication has been most dominant.



A closer look at the line-graph in Fig. 4 shows a significant dip in the year 2016. Along the otherwise steeply rising annual research output curve. It is hard to explain the anomaly; but some conjectures can be made based on some events that may have had a retarding effect on the flow of research and publications. A year before the 2016 dip in the curve is experienced. A devastating drought hit entire Ethiopia, including Tigray. This was compounded with the youth-led rebellion against the ruling party which had its home-base in Tigray. The uprising had spread to all universities and might have had its adverse influence on the

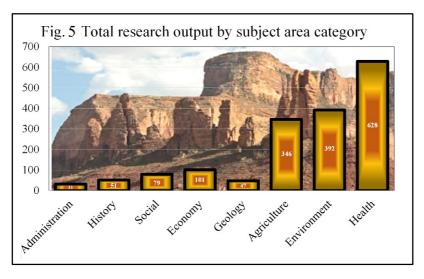
enthusiasm of researchers. There could possibly be other reasons that are internal to the universities in Tigray which the author is not aware of.

2.1.2. Research output by subject matter categories

The share of research output each of the eight subject matter categories have is depicted in Fig. 5. There is a great deal of imbalance in the share of research output among the subject matter categories. Five of the eight categories (administration, economy, geology, history, and social) account for only 18 percent of the total, while three categories (agriculture, environment, and health) form the bulk of the research output: 82 percent. The heavy skew is not only understandable but also desirable. Research output on the three categories has virtually been absent in Tigray before the 1990s. Research on these three categories is indispensable for any adequate level of standard of living to be attained. Unfortunately, research on such subject matters requires huge sums of money and technical assistance. In previous administrations this was far from being a priority for Tigray. Relief aid, rarely made available, is what is felt the people need in perpetuity. As a drought-prone and degraded province the Center saw little value in Tigray to invest in research for. The most durable recommendation for Tigray had been soldiers not researchers.

Research on social affairs, economy, and administration was not considered as significantly pressing as it could imply as expression of dissent on the prevailing political and socio-economic system. It is tacitly agreed, though not with a universal consensus, that the politico-administrative system, which has reshaped the economic systems as per the goals of the armed struggle, is agreeable or at least tolerable. Fig. 3 shows what the areas of focus for research in

the social science cluster have been. Most are diagnostic research with the intension of helping the system to be run more efficiently and/or somehow modify its problematic working procedures. The age-old 'techno fix' approach to solving all problems, including social one, has been actively pursued and given a policy uplift in the educational system by the 30:70 ratio for social and natural sciences respectively. The deleterious bias against social science, as a logical outcome, found its way into the system of research funding and has been having a decelerating effect on social science research. Thinking against the current of paradigmatic change, drawing attention to the decisive role social science research can play in solving development and environment problems, most doggedly continue to feel that little of value can be gained from social science research.



The history of historical research in Tigray has been mostly about archeology and church history. Such research was done by native historians of Tigray but largely by non-Tigrayan historians and archeologists. Except for the value the research output could have for tourism in Tigray, which in fact is for big business rather than for the ordinary people, it fails to be as urgent as agriculture, environment, and health are. Only since the invasion of Tigray in November 2020 has the dearth of research on the political and geopolitical history of Tigray been noticed and also deeply regretted. Professors of history of Tigray origin can only be finger counted and are alleged to be less enthusiastic about historical research autonomous from the research undertaken by the alma mater at AAU. Historical research in this Department, which forms the motive force lying at the core of the Institute of Ethiopian Studies, actively discourages 'devolution'.

Geological research in Tigray is where it can best be done. Four billion years of earth history can be investigated in a 'miniature' in the 50,000 km² area of Tigray. For over a century geological research has been conducted in Tigray and probably suffers from redundancy. What Tigray needs from geological research is in the economic value of its geology. Economic geology is what could be more valuable than the purely academic curiosity about the chemical and physical properties of rocks.

2.1.3. Trends of research output by subject area categories

The annual distribution and trend for the total of the research output, shown in Fig. 4, exhibits the overall picture which hides significant disparity between subject area categories. Fig. 6 (1, 2, and 3) are three charts for the eight subject area categories. To avoid the problem of overcrowding if eight curves and eight trend lines are displayed in a single chart, a situation where legibility or distinguishing one curve and one strandline from the rest becomes difficult doe to the limited choice of line colors with sufficient

contrast, three separate charts are prepared. This is a tradeoff between readability and the comparison on the same y-axis value. Three charts means three different y-axis values weakening the possibility for comparison in the relative magnitudes of the eight categories.

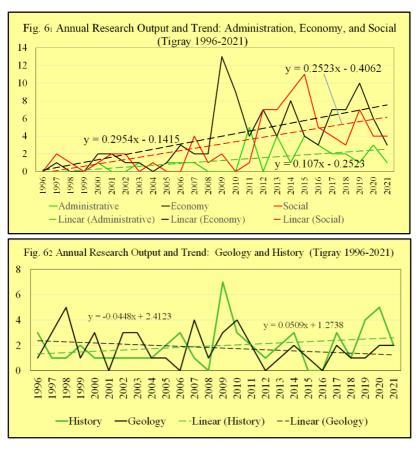
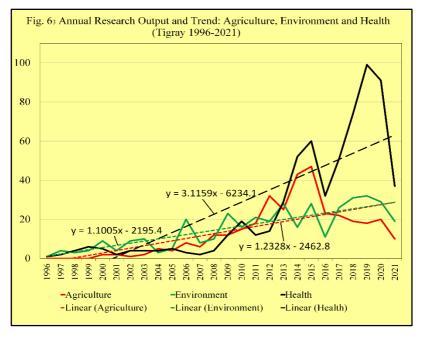


Fig. 61 represents the three components of the social science cluster: administration, economy, and social. The yearly distribution of the three subject area categories shows a high degree

of fluctuation. The trend lines and the corresponding equations illustrate the fact that each of the three categories experienced a positive changes though with varying gradients decreasing from economy, social to administration. The curves for history and geology display drastic fluctuation through the years. The trend line for history portrays a positive change though along a low gradient; but geology as the trend line shows experienced a negative change and is predicted to decline at relatively more rapid rate.



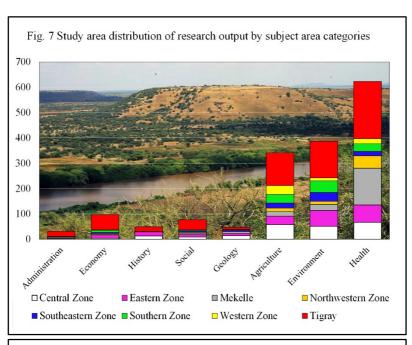
The annual distribution of research output and trends of the three most dominant subject areas (agriculture, environment, and health) is depicted in Fig. 63. Fluctuation is also evident here although the distribution the distribution shows a greater skew to the second half of the period. The steepest of the trend lines is for health. The high

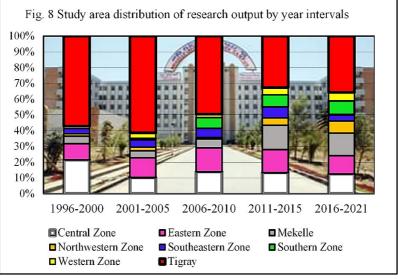
gradient for health is attributed to the rapid ascent after 2008. The "Ayder factor" has energized the research output in the health category. Ayder referral and research hospital, which is a medical faculty of Mekelle University has attained a level of excellence that transcended the health needs of the state of Tigray.

The pioneering subject area categories (agriculture and environment) have had a high standing throughout the period. The rate of positive change, as represented by their respective trend lines, has been moderate. This is clearly due to the dwarfing effect of the volume of health research and publication. Moreover, the curves for agriculture and environment reveal that, in the last quarter of the period environment has outpaced agriculture. Nevertheless, a possible distorting influence of the classification scheme might have contributed to the new trend.

2.1.4. Study area distribution of research output

When embarking on a field research project, Sheppard (2020) elaborates, one of the two major aspects to consider is where to observe which will have consequences for the data you are able to gather. Choosing a site is shaped by area of interest, limitations, opportunities, and being in the right place at the right time. The selection of study sites in Tigray varies from taking the entire state or one or more of its administrative zones. For the analysis in this sub-section the smallest geographic units are taken to be administrative zones although specific villages, micro-watersheds, geologic formations, archeological sites, reservoirs, hospitals, or experimental stations may have been the actual study sites. It is beyond what can possibly be accommodated to cross-tabulate study areas and research output with micro-sites as geographical co-variables.





Tigray is divided into seven administrative zones, one of which is the Capital City Mekelle. In some cases the entire Tigray is taken as a study area, at other times, samples are taken from three of more administrative zones. In both cases the study area is designated as 'Tigray'. If samples are taken from two zones the one point allotted for one zone is split between the two zones. For research in any field Tigray possesses a great deal of diversity in geomorphology, geology, climatology, biology, pedology, hydrology and many other natural, economic, and social phenomena. Hence, the narrower the study site is the more valid research will be. However, research in Tigray cannot be idealized as there have been several enabling and disabling factors which may have had a skewing effect concentrating research in fewer zones. The location of universities, research hospitals, experimental stations, and the attitudes and conveniences of researchers may have had a role in the selection.

Fig.7 is a stacked column chart which depicts both inter-column comparison of total values and intra-column comparison of proportions. Here subject area categories are plotted against the study areas research was conducted in. Over half of the research output on administration, and the economy is at the geographic level of Tigray. So is the research on social issues, nearly half of which is done at the macro Tigray level. In view of the nature of disciplinary focus of history/archeology and geology there is a greater share of zonal location of study sites. Study areas in Central and Eastern zones dominate for history and geology. The location of Axum and Yeha in the Central zone and the significant presence of numerous archeological sites in the Eastern zone could explain the preference in the selection of study sites for history in the two zones. For geological research the diversity and localization of

geologic formations calls for a lower-tier geographic unit selected as a study site. The high spatial concentration of rocks belonging to the four geologic Eras could most likely explain why the 'hammer' is tilted towards the two zones.

The three subject area categories (agriculture, environment, health), which make up over 80 percent of the total, have been well distributed among Tigray and the remaining seven zones. Tigray as a study area takes slightly over a third of the total for each of the three subject area categories. No doubt, agriculture, environment, and health research are much more micro level than macro level studies. The most credible explanation to the Tigray level study area designation for the three categories could likely be that three or more samples are taken from different zones. Given the diversity of agriculture, environment, and health conditions in Tigray taking more samples from as many zones as the research design allows tends to make comparisons and conclusions more valid.

For agriculture, Central, Eastern, Southern, and Western zones in that rank order together account for more than half of the column. Except for the urban agriculture, which is very limited, Mekelle's small share is explicable. Mekelle is busy taking more agricultural land and extensively encroaching into the land cover for its 'concrete jungle' scheme rather than for agronomy or environmental stewardship. Zonal level environment and related research has been most focused on Southern, Southeastern, Eastern, and Central. Forest, drought, water storage, soil erosion, and soil and biodiversity conservation have taken the lion's share.

The health column in the chart has a unique story to tell. Mekelle is a study site that has taken about a quarter of the share. There is little doubt that the location of Ayder referral and research hospital in Mekelle explains the situation. The samples for health research are taken from Mekelle and its environs. That makes Mekelle the most researched on health matters. However, viewed from a different perspective Mekelle zone level studies could also be considered as Tigray level studies in view of the fact that the status of Ayder Hospital as a referral hospital which draws patients from all over Tigray, even beyond.

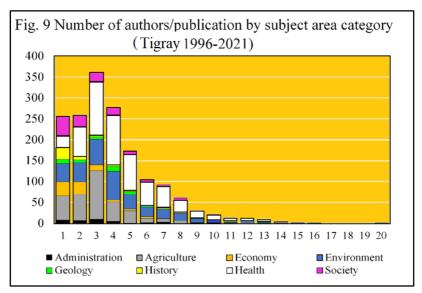
Temporal changes in the focus of research study sites are useful indicators of how much research has been probing into the various manifestations, in spatial context, of problems and issues that need solutions. Fig. 8 represents the changes in focus on different study areas with the march of time. The stacked Column chart shows only proportions of study areas by an interval of five years. In the first decade Tigray level studies had dominance although Central and Eastern zones were also significantly spotlighted. Throughout the entire period Southeastern zone has had a low but fluctuating share. The overshadowing effect of Mekelle City may have had its effect on drawing research attention to it. It has been considered as the outskirt of the oversized Capital. Southern zone was almost invisible to research in the first decade but burst into attention in the second decade and beyond. Research in Tigray seems to have taken more time, into the second decade, not only to familiarize itself with Western Tigray but also to get used to the great physical distance from the centers of scholarship and the relatively inhospitable climatic conditions. The share of Mekelle appeared significantly in the last decade attributed to health research.

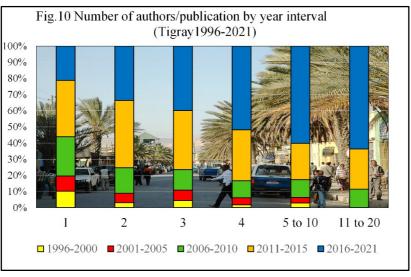
2.1.5. Number of authors per publication

Authorship and co-authorship ranged from sole authors to 20 co-authors. The article authored by 20 co-authors was on HIV-care

which was published in BMJ Global Health in 2017. Of the total research output listed in this book 15 percent is sole-authored; 16 percent by two co-authors; 21 percent by three co-authors (the Mode and the Median, See Fig.9); and 16 percent by four co-authors (the Mean). A third of research output is authored by five to 10 co-authors; but those co-authored by greater than 10 are only three percent. The stacked column chart in Fig.9 depicts the distribution of the number of authors per publication by subject area categories. Comparison can be made by the total value for each authorship and co-authorship and by proportion of subject matter categories. The Mode (three co-authors) is overwhelmingly a phenomena in health, agriculture, and environment publications. The same goes for the Mean number of authors per publication (four). More than half of the sole-authorship is taken by social, economy, history, and geology in that rank order.

Project-based donor funded research in which the membership or participants in the groups may be large, multiple co-authorship would be the logical outcome. Environmental and health research and to a certain extent in agriculture multiple co-authorship is typical if not a rule. In Fig 9 shows that co-authorship above ten is most common in these particular fields of research. Another perspective is to view the number of authors per publication in a time dimension. The stacked proportion column chart in Fig. 10 represents the change in the proportion of the number of authors per publication in the different time segments. A closer look at the proportion columns in Fig. 10 reveals that there has been a change from the prevalence of smaller number of authors per publication in the earliest years to drastic increase in the final years of the period. This could hint a paradigmatic shift in the way research is done. There is an increasing tendency to do team work than the individual efforts that characterized earlier research. Obviously, 'two heads tend to be better than one'.





2.1.6. Publication frequency in particular journals

Publications are assessed in terms of how frequently they were published in particular journals. A total of 1532 journal articles are identified published in 680 journals (See Annex I). This is on average 2.25 articles per journal. In view of the mean distribution there has been a huge tendency to spread-out articles in numerous journals rather than patronizing a limited number of journals. Deviating from the general pattern are 11 journals which published more than 10 articles each from Tigray. Fig. 11 shows journals that have published more than 10 articles on health (6 counts), environment (3 counts), and agriculture (2 counts). The highest frequency is observed in the health journals of PloS One (70 counts) and BMC Research Notes (53 counts). A local journal hosted by Mekelle University, named 'Momona' published a total of 23 articles on environment and agriculture in Tigray. It is clear from Fig. 11 that the BMC series journals have been significantly patronized by health research in Tigray.

How importance or ranking of these journals is measured by the "Impact Factor (IF)" depends on citation counts. IF is computed from the citation counts of the articles in the journal. ILOVEPHD.com has compiled a ranked list of the top 100 journals in terms IF. Only PloS One appears in this list as 30th with Impact Factor of 3.2. The fact that 70 articles from Tigray out of the total 75 published in PloS One journal originate from health research deserves a 'thumbs up'. Reputability of journals is desirable in the academia; but higher acceptability rate of manuscripts is preferred.

| Fig.11 Publication Frequency in Journals (10+) | | |
|---|----------------------------|--|
| Health | | |
| PLoS One BMC Research Notes BMC Pregnancy and Childbirth BMC Public Health BMC Infectious Diseases BMC Pediatrics | 70 53 26 21 12 | |
| Environment | | |
| Land Degaradation and Development Journal of Arid Environments Momona Ethiopian Journal of Science | 13 11 11 | |
| Agriculture | | |
| Momona Ethiopian Journal of Science Livestock Research for Rural Development | 12 11 | |

2.2. Citation analysis

In this last section of the bibliographic analysis the quality of articles and the reputability of the journals in which the articles are published is measured and analyzed using a proxy indicator: citation count. It is not possible in this analysis to determine the Impact Factor of journals only from the citation counts of articles that are written on Tigray. The quality of a journal is judged from citation counts of articles that originate from all parts of the world covered by the journals' catchment areas. Such data is not available for the analysis in this book. The Impact Factor of the articles is measured using citation counts as provided by Scholar Google; while for the journals in which the articles are published international rankings are referred to.

The total number of journal articles is 1532, whereas those for which at least one citation count is reported by the end of 2021 are 1415. The range of citation counts is between one and 585. The sum of the citation counts is 48, 513 and the average per article is 34. There is a huge variation from the mean. Half of the articles with citations reported have below 20 citations. Those articles with citation counts 100 and over are 95. This is only 6.7 percent of the total number of articles with citation counts reported; whereas the sum of the citation counts is 15,948 making up a third of the of the total. The three subject area categories (agriculture, environment, and health) account for 87 percent of the articles with citations 100 and over. The colossal subject area categories must have been literally devouring one another by way of inter- and intra-citation. A more detailed description of the citation count data is tabulated in Fig. 12 for agriculture, environment, and health.

| Fig. 12 Citation counts of publications in Agriculture, Environment, and Health | | | | | |
|---|-------------|-------------|--------|--|--|
| | Agriculture | Environment | Health | | |
| Total number of articles | 315 | 352 | 620 | | |
| Articles with citation counts | 295 | 332 | 578 | | |
| Sum of citation counts | 9011 | 15453 | 17496 | | |
| Average citation counts per article | 31 | 47 | 30 | | |
| Number of articles 100+ citation counts | 14 | 43 | 26 | | |
| Sum of citation counts (100+) | 2169 | 7666 | 4167 | | |
| Average attation counts per artiale | 155 | 179 | 160 | | |

Relevant question should be raised at this point whether citation count is the only factor of journal reputability or the number of years since publication also has significant contribution. For the top 95 articles, which have got citation counts 100 and over simple correlation was computed. The resulting coefficient of 0.285 shows a positive, but very weak linear relationship. Hence, impact

or importance of the article is by and large certified by the total number of citation. The effect of time cannot be ruled out though because important but recent publications are more likely to be cited less than those that are several years old. A visual inspection of the pair of data set showed that the highest citation counts belonged to articles that were around two decades old. For example 585: 19 years, 501: 22 years, 322: 23 years, and 290: 21 years. The details- the names of lead/first authors, title of the article, and the names of the journals- are tabulated for articles having citation counts 100 and over in agriculture, environment, and health. (See Annex II).

Impact factor (IF) is a measure of the frequency with which the average article in a journal has been cited in a particular year. It is used to measure the importance or rank of a journal by calculating the times its articles are cited. To get the IF score data the name of each journal, in which articles with 100+ citation counts are published, is searched on google.com. The list of available IF scores for each journal is displayed as Annex III. In addition ranking for some journals is also available on Google search which is shown in Fig.13.

The significance of a particular Impact Factor (IF) is not the same in all disciplines. In some disciplines even IF 2.0 could be considered high. In the list in Annex III, 'The Lancet' a medical journal has the highest IF score of 79.32; followed by BMJ: 30.89, Resources, Conservation, and Recycling: 10.204. The rest have range between 8.0 to below zero: 13 are IF 5-8, 17 are IF 3-5, and 11 are 2-3. In terms of ranking in Fig.13, The Lancet stands second out of 169 journals in the field. The ranks of journals such as 'Waste Management', 'Science of The Total Environment', 'Energy Economics', 'Catena' and 'Journal of Environmental

Management' are significant. To check if citation count of articles on Tigray are positive correlated with journal IF simple correlation coefficient was computed. The result is 0.11 showing no relations.

Fig. 13 List of journals for which ranking is provided

| eneral and Internal Medicine cology vil Engineering |
|---|
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Conclusion

What happened in the quarter of a century in Tigray is literally a "research explosion". There is little wonder to it though. A Tigray teeming with researchers and practitioners has been at the top of the wish list of all Tigrayans. From the names of authors and coauthors it can be discerned that there has been a worldwide participation of scholars: from Europe to Japan and from Africa to India. This must have boosted the quality of the research in the respective fields. In spite of the need for it enthusiasm is not the best guide for action. It tends to lead to spontaneity, short-lived attention, and intermittence. The great deal of annual fluctuation in

the total volume and the subject specific research output hints that the motive force for conducting research, by and large, has been donor-driven individual or group initiative. Of course, a lot is done in the application sphere in health, agriculture, and the environment in terms of helping the improvement of the lives of the people of Tigray.

Most of the research and publications emanated from the four universities of Tigray. This indicates that most of the research is done as part of the academic requirement for graduation. Externally funded research also abounded; but its relatively short project term helps little in linking significantly to the development needs of Tigray. As revealed by the high level of reputability of the journals, in which many of the articles are published, it can be concluded that research can play a significant role in the high-tech future development of Tigray. For best effect research in Tigray must be synergetic in the sense that strong coordination must prevail not only between disciplines but also with decision makers.

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PART II Bibliography

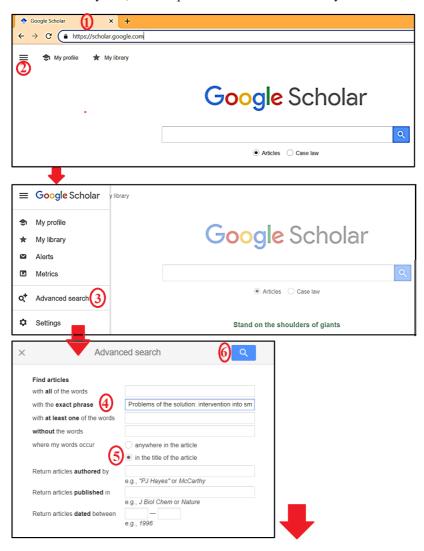
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Note:

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Annex I: List of Journals

- 1. ABC Research Alert
- 2. Academia Journal of Agricultural Research
- 3. Acta Agriculturae Scandinavica
- 4. Acta Parasitologica Globalis
- 5. Acta Patristica et Byzantina
- 6. Acta Tropica
- 7. Acta Horticulturae
- 8. Advancement in Medicinal Plant Research
- 9. Advances in Medical Education and Practice
- 10. Advances in Meteorology
- 11. Advances in Pharmacoepidemiology and Drug Safety
- 12. Affilia
- 13. Africa
- 14. Africa Today
- 15. African Archaeological Review
- 16. African Crop Science Journal

- 17. African Development Review
- 18. African Health Sciences
- 19. African Journal of Agricultural and Resource Economics
- 20. African Journal of Agricultural Research
- 21. African Journal of Emergency Medicine
- 22. African Journal of Environmental Science and Technology
- 23. African Journal of Food Science
- 24. African Journal of Hospitality, Tourism and Leisure
- 25. African Journal of Microbiology Research
- 26. African Journal of Plant Science
- 27. African Journal of Primary Health Care and Family Medicine
- 28. African Journal of Range and Forage Science
- 29. African Journal of Reproductive Health
- 30. African Journal of Bacteriology Research
- 31. African Journal of Ecology
- 32. African Journal of Microbiology Research
- 33. African Journal of Plant Science
- 34. African Security Review
- 35. Agrekon
- 36. Agricultural and Food Economics
- 37. Agricultural and Forest Meteorology
- 38. Agricultural and Resource Economics Review
- 39. Agricultural Economics
- 40. Agricultural Journal
- 41. Agricultural Research and Reviews
- 42. Agricultural Sciences
- 43. Agricultural Systems
- 44. Agricultural Water Management
- 45. Agriculture and Biology Journal of North America
- 46. Agriculture and Food Security
- 47. Agriculture and Human Values
- 48. Agriculture and Natural Resources
- 49. Agriculture, Ecosystems and Environment
- 50. Agriculture, Forestry and Fisheries
- 51. Agroforestry Systems
- 52. Agronomy for Sustainable Development

- 53. Agronomy Journal
- 54. AIDs Care
- 55. AIDS Research and Therapy
- 56. AMBIO: A Journal of the Human Environment
- 57. American Antiquity
- 58. American Journal of Advanced Drug Delivery
- 59. American Journal of Agricultural Economics
- 60. American Journal of Biological and Environmental Statistics
- 61. American Journal of Chemistry
- 62. American Journal of Economics and Business Management
- 63. American Journal of Entrepreneurship
- 64. American Journal of Environmental Sciences
- 65. American Journal of Health Research
- 66. American Journal of Nursing Science
- 67. American Journal of Trade and Policy
- 68. Anemia
- 69. Animal and Veterinary Sciences
- 70. Animal Feed Science and Technology
- 71. Annales d'Éthiopie
- 72. Annals of General Psychiatry
- 73. Annals of Global Health
- 74. Annals of Tropical Medicine and Parasitology
- 75. Anthropology and Medicine
- 76. Antimicrobial Resistance and Infection Control
- 77. Antiquity
- 78. Applied and Environmental Soil Science
- 79. Applied Earth Science
- 80. Applied Journal of Hygiene
- 81. Applied Vegetation Science
- 82. Applied Water Science
- 83. Aquatic Ecology
- 84. Arabian Journal of Geosciences
- 85. Archives of Agronomy and Soil Science
- 86. Archives of Public Health
- 87. Asian Journal of Agricultural Sciences
- 88. Asian Journal of Multidimensional Research

- 89. Asian Journal of Plant Science
- 90. Asian Nursing Research
- 91. Asian Pacific Journal of Tropical Biomedicine
- 92. Austrian Journal of Earth Sciences
- 93. Azania: Archaeological Research in Africa
- 94. Behavioural Neurology
- 95. Biodiversity and Conservation
- 96. Biofuels
- 97. BioMed Research
- 98. BioMed Research International
- 99. Biomedical Journal of Scientific and Technical Research
- 100. BMC Cardiovascular Disorders
- 101. BMC Endocrine Disorders
- 102. BMC Health Services Research
- 103. BMC Immunology
- 104. BMC Infectious Diseases
- 105. BMC International Health and Human Rights
- 106. BMC Nursing
- 107. BMC Nutrition
- 108. BMC Pediatrics
- 109. BMC Pregnancy and Childbirth
- 110. BMC Public Health
- 111. BMC Research Notes
- 112. BMC Veterinary Research
- 113. BMC Women's Health
- 114. BMJ
- 115. BMJ Global Health
- 116. BMJ Open
- 117. Boiling Point
- 118. Boletín Latinoamericano y del Caribe de Plantas Medicinales y Aromáticas
- 119. Brain and Development
- 120. Branna Journal of Engineering and Technology
- 121. Breastfeeding Review
- 122. Bulletin du Jardin botanique National de Belgique,
- 123. Bulletin of Engineering Geology and the Environment

- 124. Bulletin of Oriental Studies
- 125. Bulletin of the Chemical Society of Ethiopia
- 126. Bulletin of the Geographic Society of Liege
- 127. Bulletin World Health Organization
- 128. Canadian Journal of Infectious Diseases and Medical Microbiology
- 129. Caraka Tani Journal of Sustainable Agriculture
- 130. Carbon Balance and Management
- 131. Carbon Management
- 132. Catena
- 133. Chemical Geology
- 134. Chemie der Erde (chemistry of the earth)
- 135. Chemistry and Materials Research
- 136. Child Abuse and Neglect
- 137. CIGR Journal, Agricultural Engineering International
- 138. Cities
- 139. Civil and Environmental Research
- CLEAR International Journal of Research in Commerce and Management
- 141. Clinical Medicine Research
- 142. Clinical Nursing Research
- 143. Clinics in Mother and Child Health
- 144. Cogent Business and Management
- 145. Cogent Economics and Finance
- 146. Cogent Environmental Science
- 147. Cogent Food and Agriculture
- 148. Communications in Biometry and Crop Science
- 149. Community Development Journal
- 150. Computational Ecology and Software
- 151. Continental Journal of Social Sciences
- 152. Cost Effectiveness and Resource Allocation
- 153. Crop protection
- 154. Culture, Medicine and Psychiatry
- 155. Current Research in Nutrition and Food Science Journal
- 156. Current Research Journal of Biological Sciences
- 157. Depression Research and Treatment

- 158. Dermatologic Therapy
- 159. Dermatology
- 160. Developing Country Studies
- 161. Diabetes Research and Clinical Practice
- 162. Diabetes, Metabolic Syndrome and Obesity
- 163. Diabetologia
- 164. Disasters
- 165. Discourse Journal of Agriculture and Food Sciences
- 166. Diversity
- 167. E3 Journal of Agricultural Research and Development
- 168. Earth Surface Processes and Landforms
- 169. Earth Systems and Environment
- 170. East African Journal of Sciences
- 171. East African Journal Health Sciences
- 172. East African Medical Journal
- 173. Ecological Processes,
- 174. Ecology and Society
- 175. Economics of Agriculture
- 176. Ecotoxicology and Environmental Safety
- 177. Edorium Journal of Nutrition and Dietetics
- 178. Edorium Journal of Pediatrics
- 179. Educational Research and Reviews
- 180. Energy Economics
- 181. Energy Policy
- 182. Energy Procedia
- 183. Energy Sources
- 184. Energy, Sustainability and Society
- 185. Engineering Geology for Society and Territory
- 186. Enterprise Development and Microfinance
- 187. Entomological Research
- 188. Environment and Development Economics
- 189. Environment, Development and Sustainability
- 190. Environmental Earth Sciences
- 191. Environmental Geosciences
- 192. Environmental Management
- 193. Environmental Modelling and Software

- 194. Environmental Science and Pollution Research
- 195. Environmental Systems Research
- 196. Environments
- 197. Enzyme Engineering
- 198. Epidemiology
- 199. Epidemiology and Health
- 200. Epidemiology and Infection
- 201. ESci Journal of Crop Production
- 202. Ethiopian Journal of Applied Sciences and Technology
- 203. Ethiopian Journal of Economics
- 204. Ethiopian Journal of Environmental Studies and Management
- 205. Ethiopian Journal of Health Development
- 206. Ethiopian Journal of Health Sciences
- 207. Ethiopian Journal of Health Development
- 208. Ethiopian Journal of Natural Resources
- 209. Ethiopian Journal of Science
- 210. Ethiopian Journal of Water Science and Technology
- 211. Ethiopian Journal of Health Development
- 212. Ethiopian Medical Journal
- 213. Ethiopian Veterinary Journal
- 214. Ethnobotany Research and Applications
- 215. European Journal of Biological Sciences
- 216. European Journal of Business and Economics
- 217. European Journal of Business and Management
- 218. European Journal of Wildlife Research
- 219. Experimental Agriculture
- 220. Extensive Journal of Applied Sciences
- 221. Food and Waterborne Parasitology
- 222. Food policy
- 223. Food Science and Quality Management
- 224. Food Security
- 225. Foods
- 226. Forensic Science International: Genetics
- 227. Forest Ecology and Management
- 228. Forest Policy and Economics
- 229. Forest Research

- 230. Forest Science and Technology
- 231. Forestry and Fisheries
- 232. Forests
- 233. Forests, Trees and Livelihoods,
- 234. Gender and Education
- 235. Genus
- 236. Geo: Geography and Environment
- 237. Geoarchaeology: An International Journal
- 238. Geocarto International
- 239. Geoderma
- 240. Geo-Eco-Trop
- 241. Geoheritage
- 242. GeoJournal
- 243. Geological Society, London, Memoirs
- 244. Geomorphology
- 245. Germs
- 246. Global Ecology and Conservation
- 247. Global Health Action
- 248. Global Journal of Agricultural Research
- 249. Global Journal of Commerce and Management Perspective
- 250. Global Veterinaria
- 251. Gondwana Research
- 252. Greener Journal of Agricultural Sciences
- 253. Health and Environmental Research Online
- 254. Health Policy and Planning
- 255. Health Science Journal
- 256. Heliyon
- 257. HIV AIDS (Auckl.)
- 258. HIV/AIDS- Research and Palliative Care
- 259. Human Resources for Health
- 260. Human Vaccines and Immunotherapeutics
- 261. Hydrobiologia
- 262. Hydrogeology Journal
- 263. Hydrological Processes
- 264. Hydrological Sciences Journal
- 265. Indian Journal of Traditional Knowledge

- 266. Infection and Drug Resistance
- 267. Infection, Genetics and Evolution
- 268. Infectious Diseases and Therapy
- 269. Information Technologist (The
- 270. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences
- 271. International Breastfeeding Journal
- 272. International Food and Agribusiness Management Review
- 273. International Forestry Review
- 274. International Journal for Equity in Health
- 275. International Journal in Commerce, IT and Social Sciences
- 276. International Journal of Academic Research in Education and Review
- 277. International Journal of Agricultural Economics and Extension
- 278. International Journal of Agricultural Policy and Research
- 279. International Journal of Agricultural Research
- 280. International Journal of Agricultural Sciences
- 281. International Journal of Agricultural Sustainability
- 282. International Journal of Agricultural Research
- 283. International Journal of Agriculture and Biosciences
- 284. International Journal of Agriculture and Forestry
- 285. International Journal of Agronomy
- 286. International Journal of Applied Research in Veterinary Medicine
- 287. International Journal of Architecture, Arts and Applications
- 288. International Journal of Biodiversity and Conservation
- 289. International Journal of Business and Economics Research
- 290. International Journal of Caring Sciences
- 291. International Journal of Community Development
- 292. International Journal of Complementary and Alternative Medicine
- 293. International Journal of Current Microbiology and Applied Sciences
- 294. International Journal of Current Research
- 295. International Journal of Disaster Risk Reduction
- 296. International Journal of Earth Sciences and Engineering

- 297. International Journal of Ecology and Environmental Sciences
- 298. International Journal of Economic and Environmental Geology
- 299. International Journal of Economic Behavior
- 300. International Journal of Educational Development
- 301. International Journal of Endocrinology
- 302. International Journal of Environmental Research and Public Health
- 303. International Journal of Environmental Studies
- 304. International Journal of Family Medicine
- 305. International Journal of Fisheries and Aquaculture
- 306. International Journal of Food and Agricultural Economics
- 307. International Journal of Food Science
- 308. International Journal of Forestry Research
- 309. International Journal of Gynecology and Obstetrics
- 310. International Journal of Horticulture and Plant Breeding Sciences
- 311. International Journal of Infectious Diseases
- 312. International Journal of Innovation and Scientific Research
- 313. International Journal of Life Sciences
- 314. International Journal of Linguistics, Literature and Translation
- 315. International Journal of Livestock Production
- 316. International Journal of Mental Health Systems
- 317. International Journal of Microbiology
- 318. International Journal of Mining and Mineral Engineering
- 319. International Journal of Mycobacteriology
- 320. International Journal of Nutrition and Food Sciences
- 321. International Journal of Nutrition and Metabolism.
- 322. International Journal of Ophthalmology and Visual Science
- 323. International Journal of Pediatrics
- 324. International Journal of Pest Management
- 325. International Journal of Pharma Sciences and Research
- 326. International Journal of Pharmaceutical and Biological Sciences Fundamentals
- 327. International Journal of Pharmaceutical Sciences and Nanotechnology

- 328. International Journal of Pharmaceutical Sciences and Research
- 329. International Journal of Pharmacy and Pharmaceutical Research
- 330. International Journal of Plant Breeding and Genetics
- 331. International Journal of Population Geography
- 332. International Journal of Remote Sensing
- 333. International Journal of Reproductive Medicine
- 334. International Journal of Research in Agriculture and Forestry
- 335. International Journal of Research in Commerce and Management
- 336. International Journal of Research in Finance and Marketing
- 337. International Journal of Science and Research
- 338. International Journal of Science, Technology and Society
- 339. International Journal of Scientific and Research Publications
- 340. International Journal of Social Economics
- 341. International Journal of Sociology and Anthropology
- 342. International Journal of Technology Enhancements and Emerging Engineering Research
- 343. International Journal of Therapeutic Applications
- 344. International Journal of Water Resources Development
- 345. International Journal of Women's Health
- 346. International Journal of Zoology
- 347. International Journal of Analytical Chemistry
- 348. International Journal of Gynecology and Obstetrics
- 349. International Journal of Livestock Production
- 350. International Journal of Medicine and Medical Sciences
- 351. International Journal of Women's Health
- 352. International Journal Pharmaceutical Sciences and Research
- 353. International Research Journal of Pharmacy and Pharmacology
- 354. International review of the historical heritage
- 355. International Soil and Water Conservation Research
- 356. International Urogynecology Journal
- 357. International Breastfeeding Journal
- 358. IRF Examiner
- 359. Irrigation and Drainage

- 360. Irrigation and Drainage Systems Engineering
- 361. ISABB Journal of Food and Agricultural Sciences
- 362. Italian Journal of Geosciences
- 363. Journal Community Medicine and Health
- 364. Journal of African and Asian Studies
- 365. Journal of African Archaeology
- 366. Journal of African Earth Sciences
- 367. Journal of African Economies
- 368. Journal of Agribusiness and Rural Development
- 369. Journal of Agricultural Economics and Development
- 370. Journal of Agricultural Extension and Rural Development
- 371. Journal of Agricultural Science
- 372. Journal of Agricultural Technology
- 373. Journal of Agricultural Extension and Rural Development
- 374. Journal of Agriculture and Crops
- 375. Journal of Agriculture and Ecology Research International
- 376. Journal of Agriculture and Environment for International Development
- 377. Journal of Agrometeorology
- 378. Journal of Agronomy and Crop Science
- 379. Journal of AIDS and HIV Research
- 380. Journal of American Science
- 381. Journal of Ancient Stories
- 382. Journal of Animal and Veterinary Advances
- 383. Journal of Animal Ecology
- 384. Journal of Applied Animal Research
- 385. Journal of Applied Pharmacy
- 386. Journal of Applied Sciences and Environmental Management
- 387. Journal of Archaeological Method and Theory
- 388. Journal of Archaeological Research
- 389. Journal of Archaeological Science
- 390. Journal of Arid Environments
- 391. Journal of Asian and African Studies
- 392. Journal of Basic and Clinical Pharmacy
- 393. Journal of Biodiversity and Conservation
- 394. Journal of Biodiversity and Endangered Species

- 395. Journal of Biodiversity and Environmental Sciences
- 396. Journal of Biological Sciences
- 397. Journal of Biology, Agriculture and Healthcare
- 398. Journal of Biomaterials
- 399. Journal of Biomaterials and Nanobiotechnology
- 400. Journal of Biometrics and Biostatistics
- 401. Journal of Biosocial Science
- 402. Journal of Business Management and Social Sciences Research
- 403. Journal of Cancer Research
- 404. Journal of Cancer Science and Therapy
- 405. Journal of Cereals and Oilseeds
- 406. Journal of Child and Adolescent Behavior
- 407. Journal of Citizenship and Morality
- 408. Journal of Climatology and Weather Forecasting
- 409. Journal of Clinical Trials
- 410. Journal of Community Medicine and Health Education
- 411. Journal of Comparative and International Education
- 412. Journal of Crop Improvement
- 413. Journal of Dairy, Veterinary and Animal Research
- 414. Journal of Demography Africa
- 415. Journal of Development and Agricultural Economics
- 416. Journal of Diabetes and Metabolism
- 417. Journal of Drug Delivery and Therapeutics
- 418. Journal of Earth Science and Climate Change
- 419. Journal of Earth Sciences and Geotechnical Engineering
- 420. Journal of Eastern African Studies
- 421. Journal of Ecology and Environment
- 422. Journal of Economic Development
- 423. Journal of Economics and Sustainable Development
- 424. Journal of Ecotourism
- 425. Journal of Education and Practice
- 426. Journal of Environment and Earth Science
- 427. Journal of Environmental and Analytical Toxicology
- 428. Journal of Environmental and Occupational Science
- 429. Journal of Environmental and Public Health

- 430. Journal of Environmental Management
- 431. Journal of Ethnobiology and Ethnomedicine
- 432. Journal of Experimental Agriculture International
- 433. Journal of Fertilizers and Pesticides
- 434. Journal of Field Archaeology
- 435. Journal of Fisheries and Livestock Production
- 436. Journal of Food and Nutrition Sciences
- 437. Journal of Food Protection
- 438. Journal of Food Science and Nutrition Therapy
- 439. Journal of Food Safety
- 440. Journal of Forestry Research
- 441. Journal of Geographic Information System
- 442. Journal of Geographical Sciences
- 443. Journal of Geomorphology
- 444. Journal of Global Health
- 445. Journal of Gynecology and Obstetrics
- 446. Journal of Health and Medical Informatics
- 447. Journal of Health Education Research and Development
- 448. Journal of Health, Population and Nutrition
- 449. Journal of Herbal Medicine
- 450. Journal of HIV/AIDS and Infectious Diseases
- 451. Journal of hydrology
- 452. Journal of Indian Association of Social Science Institutions
- 453. Journal of Infectious Diseases and Epidemiology
- 454. Journal of International Food and Agribusiness Marketing
- 455. Journal of Land and Rural Studies
- 456. Journal of Land Use Science
- 457. Journal of Maps
- 458. Journal of Medical Virology
- 459. Journal of Medicinal Plants Research
- 460. Journal of Medicinal Plants Studies
- 461. Journal of Microbiology and Virology
- 462. Journal of Natural Sciences Research
- 463. Journal of Neurosciences in Rural Practice
- 464. Journal of Nutrition and Food Sciences
- 465. Journal of Nutrition and Health Sciences

- 466. Journal of Nutrition and Metabolism
- 467. Journal of Organizational Change Management
- 468. Journal of Oriental Archaeology
- 469. Journal of Parasitology and Vector Biology
- 470. Journal of Parasitology Research
- 471. Journal of Pediatrics and Neonatal Care
- 472. Journal of Petrology
- 473. Journal of Physical and Chemical Sciences
- 474. Journal of Plant Breeding and Crop Science
- 475. Journal of Plant Pathology and Microbiology
- 476. Journal of Plant Sciences
- 477. Journal of Poverty, Investment and Development
- 478. Journal of Pregnancy
- 479. Journal of Pregnancy and Child Health
- 480. Journal of Preventive Medicine and Hygiene
- 481. Journal of Public Administration and Governance
- 482. Journal of Public Health and Epidemiology
- 483. Journal of Public Health Medicine
- 484. Journal of Research in Commerce, Economics and Management
- 485. Journal of Research in Economics and International Finance
- 486. Journal of Risk Research
- 487. Journal of Scientific and Innovative Research
- 488. Journal of Small Business and Enterprise Development
- 489. Journal of Social Sciences
- 490. Journal of Soil and Water Conservation
- 491. Journal of Soil Science and Environmental Management
- 492. Journal of Soil Science and Plant Nutrition
- 493. Journal of Soils and Sediments
- 494. Journal of Structural Geology
- 495. Journal of Sustainable Agriculture
- 496. Journal of Sustainable Development and World Ecology
- 497. Journal of the American Academy of Dermatology
- 498. Journal of the Drylands
- 499. Journal of the Professional Association for Cactus Development

- 500. Journal of Tourism and Hospitality Management
- 501. Journal of Tourism, Culture and Territorial Development
- 502. Journal of Transportation Technologies
- 503. Journal of Tropical Diseases
- 504. Journal of Veterinary Medicine and Animal Health
- 505. Journal of Veterinary Science Technology
- 506. Journal of Water and Climate Change
- 507. Journal of Women's Health Care
- 508. Journal of Hydrology
- 509. Journal of Pregnancy
- 510. Korean Journal of Family Medicine
- 511. Lakes and Reservoirs: Science, Policy, and Management for Sustainable Use
- 512. Land
- 513. Land Degradation and Development
- 514. Land Degradation in Africa
- 515. Land Economics
- 516. Land Tenure Reform in Asia and Africa
- 517. Land Use Policy
- 518. Landscape Ecology
- 519. Law and Development Review
- 520. Limnologica
- 521. Livestock Research for Rural Development
- 522. Livestock Science
- 523. Maejo International Journal of Science and Technology
- 524. Malaria Journal
- 525. Malaria Research and Treatment
- 526. Mammalian Biology
- 527. Mathematical Modelling and Applications
- 528. Mémoires du Muséum national d'histoire naturelle
- 529. Memorize di scienze geologiche
- 530. Methodology
- 531. Minutes of meetings of the Academy of Inscriptions and Belles-Lettres
- 532. Modeling Earth Systems and Environment
- 533. Momona Ethiopian Journal of Science

- 534. Mountain Research and Development
- 535. Nagoya Journal of Medical Science
- 536. Natural Products Chemistry and Research
- 537. Nature Conservation Research
- 538. Neurological Science
- 539. Neurology Research International
- 540. New Microbes and New Infections
- 541. NJAS-Wageningen Journal of Life Sciences
- 542. Norsk Geografisk Tidsskrift (Norwegian Journal of Geography)
- 543. Nursing Research and Practice
- 544. Nutrient Cycling in Agroecosystems
- 545. Nutrients
- 546. Nutrition
- 547. Nutrition and Development
- 548. Nutrition Journal
- 549. NYAME AKUMA
- 550. Obstetrics and Gynecology International
- 551. Occupational Medicine and Health Affairs
- 552. Onderstepoort Journal of Veterinary Research
- 553. Open Access Library Journal
- 554. Open Agriculture
- 555. Open Journal of Animal Sciences
- 556. Open Journal of Preventive Medicine
- 557. Open Journal of Soil Science
- 558. Ophthalmic Epidemiology
- 559. Palaeogeography, Palaeoclimatology, Palaeoecology
- 560. Pan African Medical Journal
- 561. Parasite Epidemiology and Control
- 562. Parasites and Vectors
- 563. Parassitologia
- 564. Patient Prefer Adherence
- 565. Pediatric Health Medicine and Therapeutics
- 566. Pediatric Dermatology
- 567. Pedosphere
- 568. Periodico di Mineralogia

- 569. Perspectives on Global Development and Technology
- 570. Physical Geography
- 571. Plant and Soil
- 572. Plant Ecology
- 573. Plants and People in the African Past
- 574. PLoS Neglected Tropical Diseases
- 575. PLoS One
- 576. Polish Archaeology in the Mediterranean
- 577. Precambrian Research
- 578. Preventive Veterinary Medicine
- 579. Problems of Agricultural Economics
- 580. Proceedings of the Seminar for Arabian Studies
- 581. Public Health Action
- 582. Public Health Nutrition
- 583. Quarterly Journal of International Agriculture
- 584. Quaternary Research
- 585. Regional and Federal Studies
- 586. Regional Environmental Change
- 587. Remote Sensing
- 588. Remote Sensing Applications: Society and Environment
- 589. Remote Sensing of Environment
- 590. Renewables: Wind, Water, and Solar
- 591. Reproductive Health
- 592. Reproductive Health Matters
- 593. Research for Rural Development
- 594. Research Journal of Agricultural and Environmental Sciences
- 595. Research Journal of Finance and Accounting
- 596. Resources, Conservation and Recycling
- 597. Restoration Ecology
- 598. Revue de Médecine Vétérinaire
- 599. Scholarly Journal of Medicine
- 600. Science Journal of Clinical Medicine
- 601. Science Journal of Public Health
- 602. Science of the Total Environment
- 603. Science, Technology and Arts Research Journal
- 604. Scientific Reports

- 605. Scientific Research and Essays
- 606. Semitica et Classica, International Journal of Oriental and Mediterranean Studies
- 607. Sexual and Reproductive Healthcare
- 608. SINET: Ethiopian Journal of Science
- 609. Singapore Journal of Tropical Geography
- 610. Sky Journal of Food Science
- 611. Small Ruminant Research
- 612. SMART Journal of Business Management Studies
- 613. SMU Medical Journal
- 614. SN Applied Sciences
- 615. SocioEconomic Challenges
- 616. Soil and Tillage Research
- 617. Soil Science Society of America Journal
- 618. Soil Use and Management
- 619. Sokoto Journal of Veterinary Sciences
- 620. South African Journal of Communication Theory and Research.
- 621. Springer Plus
- 622. Statistics and Applications
- 623. Substance Abuse Treatment, Prevention, and Policy
- 624. Surgical Infections
- 625. Sustainability
- 626. Sustainability Science
- 627. Sustainable Water Resources Management
- 628. Targets and Therapy
- 629. Tellus A: Dynamic Meteorology and Oceanography
- 630. The American Journal of Tropical Medicine and Hygiene
- 631. The Brazilian Journal of Infectious Diseases
- 632. The Electronic Journal on Information Systems in Developing Countries
- 633. The Ethiopian Journal of Education
- 634. The Ethiopian Journal of Health Development
- 635. The FASEB Journal
- 636. The Geographical journal
- 637. The Journal of Agricultural Science

- 638. The Journal of Development Studies
- 639. The Journal of Earth and Planetary Sciences (Nagoya University)
- 640. The Journal of Graduate Medical Education
- 641. The Journal of Modern African Studies
- 642. The Korean Journal of Parasitology
- 643. The Lancet
- 644. The Pan African Medical Journal
- 645. The Rangeland Journal
- 646. The Scientific World Journal
- 647. The International Journal of Gynecology and Obstetrics
- 648. Therapeutics and Clinical Risk Management
- 649. Transactions of the Royal Society of Tropical Medicine and Hygiene
- 650. Transboundary and Emerging Diseases
- 651. Transcult Psychiatry
- 652. Trees
- 653. Tropical Animal Health and Production
- 654. Tropical Diseases, Travel Medicine and Vaccines
- 655. Tropical Medicine and International Health
- 656. Tropicultura
- 657. Vascular Health and Risk Management
- 658. Vector-Borne and Zoonotic Diseases
- 659. Vegetation History and Archaeobotany
- 660. Veterinary Medicine International
- 661. Veterinary Parasitology
- 662. Veterinary Research Forum
- 663. Veterinary World
- 664. Viruses
- 665. Waste Management
- 666. Water
- 667. Water International.
- 668. Water Resource Management
- 669. Water Science
- 670. Wayamba Journal of Animal Science
- 671. Wildlife Research

- 672. Work, Employment and Society
- 673. World Applied Sciences Journal
- 674. World Development
- 675. World Journal of Agricultural Sciences
- 676. World Journal of Animal Science Research
- 677. World News of Natural Sciences
- 678. Zeitschrift für Geomorphologie
- 679. Zeitschrift für Orient-Archäologie
- 680. Zoonoses and Public Health

Annex II: Details of Ranked citation count list 100+

AGRICULTURE

| Cite | Subject | Author(s) | Journal |
|------|--|----------------------------|--|
| 288 | Land management and impacts on crop production | Pender J, B Gebremedhin | Journal of African Economies |
| 185 | Soil organic carbon | Gelaw AM et al | Agriculture, ecosystems and environment |
| 175 | Grazing land management | Gebremedhin B et al | Agricultural Systems |
| 174 | Agricultural technologies | Hailu BK et al | International Journal of Food and Agricultural Economics |
| 168 | Drought risk and irrigation need | Araya A, L Stroosnijder | Agricultural and Forest Meteorology |
| 167 | Spatial variability of soil properties | Tesfahunegn GB et al | Soil and Tillage Research |
| 164 | Effects of tied ridges and mulch on barley | Araya A, L Stroosnijder | Agricultural Water Management |

| 162 | Productivity and land enhancing technologies | Ersado L et al | American Journal of Agricultural Economics |
|-----|---|---------------------------|---|
| 158 | Organic carbon and nitrogen association with soil | Gelaw AM et al | Land Degradation and Development |
| 143 | Bovine brucellosis | Berhe G et al | International Journal of Applied Research in Veterinary Medicine |
| 142 | Agro-climatic classification for crop suitability zoning | Araya A et al | Agricultural and Forest Meteorology |
| 123 | Adoption of sorghum technologies | Wubeneh NG, JH Sanders | Agricultural Systems |
| 120 | Effects of conservation agriculture on runoff, soil loss and crop yield | Araya T et al | Soil Use and Management |
| 100 | Removal of rock fragments and its effect on soil loss and crop yield | Nyssen J et al | Soil Use and Management, |

ENVIRONMENT

| Cite | Subject | Author(s) | Journal |
|------|--|---------------------------------|----------------------------------|
| 585 | Investment in soil conservation | Gebremedhin B, SM Swinton | Agricultural Economics |
| 381 | Effectiveness of exclosures | Mekuria W et al | Journal of Arid Environments |
| 256 | Effectiveness of stone bunds | Gebrernichae l D et al | Soil Use and Management |
| 250 | Sediment deposition and pedogenesis in exclosures | Descheemaek er K et al | Geoderma |
| 247 | Runoff and sediment-associated nutrient losses | Girmay G et al | Journal of hydrology |
| 231 | Runoff on slopes with restoring vegetation | Descheemaek er K et al | Journal of Hydrology. |
| 225 | Reservoirs characteristics and sediment deposition | Haregeweyn N et al | Land degradation and Development |
| 206 | Evaluation of stone bunds to control soil erosion | Nyssen J et al | Soil and Tillage Research |
| 199 | Sediment yield variability | Tamene L et al | Geomorphology |

| 197 | Community natural resource management of woodlots | Gebremedhin B et al | Environment and Development Economics |
|-----|--|---------------------------|--|
| 190 | The effects of exclosures in restoring degraded grazing lands | Yayneshet T et al | Journal of Arid Environments |
| 175 | Modeling the effect of soil and water conservation | Hengsdijk H et al | Agriculture, Ecosystems and Environment |
| 175 | Household waste disposal | Tadesse T et al | Waste Management |
| 174 | The impacts of watershed management on land use and land cover | Alemayehu F et al | Resources, Conservation and Recycling |
| 171 | knowledge on climate change and their coping strategies | Mengistu DK | Agricultural Sciences |
| 169 | Litter production and organic matter accumulation in exclosures | Descheemaek er K et al | Forest Ecology and Management |
| 166 | Desertification: rephotographed after 140 years | Nyssen J et al | Science of The Total Environment |
| 158 | Evaluation of environmental degradation | Feoli E et al | Agriculture, Ecosystems and Environment |
| 156 | Trend and variability of rainfall | Hadgu G et al | Academia Journal of Agricultural Research |
| 155 | Species composition and diversity of forest fragments | Aerts R et al | Plant Ecology |

| 155 | The effectiveness of loose rock check dams for gully | Nyssen J et al | Soil Use and Management, |
|-----|---|----------------------------|---|
| 152 | Toxicological assessment of heavy metals. | Gebrekidan A et al | Ecotoxicology and Environmental Safety |
| 151 | Contour furrows for in situ soil and water conservation | Gebreegziabh er T et al | Soil and Tillage Research |
| 150 | Assessment of gully erosion rates | Nyssen et al | Earth Surface: Processes and Landforms |
| 148 | Effects of land use, slope gradient, and soil and water conservation structures on runoff | Taye G et al | Physical Geography |
| 146 | An assessment of restoration of biodiversity in degraded high mountain grazing lands | Asefa DT et al | Land Degradation in Africa |
| 143 | Urban energy transition and technology adoption | Gebreegziabh er Z et al | Energy Economics |
| 139 | Sediment dynamics and the role of flash floods in sediment export | Vanmaercke M et al | Journal of Soils and Sediments |
| 134 | Gully head retreat rates | Frankl A et al | Geomorphology |
| 134 | The Environmental History | Kathryn AB et al | African Archaeological Review |
| 126 | Assessing the performance of a spatially distributed soil erosion and | Haregeweyn N et al | Land Degradation and Development |

| | sediment delivery model | | |
|-----|--|------------------------|--|
| 120 | Sediment yield variability | Haregeweyn N et al | Catena |
| 119 | Linking long-term gully and river channel dynamics to environmental change | Frankl A | Geomorphology |
| 118 | Demographic responses to drought | Ezra M | International Journal of Population Geography |
| 116 | Integrated watershed management | Haregeweyn N et al | Environmental Management |
| 114 | Sediment-bound nutrient export from micro-dam catchments | Haregeweyn N et al | Land degradation and Development |
| 113 | Assessing the sustainability of forest management | Balana BB et al | Journal of environmental management |
| 112 | Spatial analysis of land cover changes | Belay KT et al | Land Degradation and Development |
| 109 | Spatial analysis of groundwater potential | Fenta AA et al | Hydrogeology Journal |
| 105 | Some aspects of climate variability | Conway D | Ethiopian Journal of Science |
| 102 | Land-use changes and their impacts on soil degradation and surface runoff | Gebresamuel G et al | Acta Agriculturae Scandinavica |
| 102 | Estimating soil loss using USLE | Brhane G, K Mekonen | Journal of American Science |

| 100 | Reservoir siltation in the semi-arid highlands | Tamene L et al | Earth Surface: Processes and Landforms |
|-----|--|----------------|--|
|-----|--|----------------|--|

HEALTH

| ite | Subject | Author(s) | Journal |
|-----|--|--------------------------|--|
| 501 | Teaching mothers to provide home treatment of malaria | Kidane G, RH Morrow | The Lancet |
| 322 | Incidence of malaria among children living near dams | Ghebreyesus TA et al | ВМЈ |
| 269 | Determinants of antenatal and delivery care | Tsegay Y et al | International Journal for Equity in Health |
| 230 | Factors associated with utilization of contraceptive | Alemayehu M et al | BMC Pregnancy and Childbirth |
| 209 | An ethnobotanical study of medicinal plants | Teklay A et al | Journal of Ethnobiology and Ethnomedicine |
| 171 | Treatment outcome of smear-positive pulmonary tuberculosis | Berhe G et al | BMC Public Health |
| 157 | Prevalence, impacts and medical | Tolossa FW, ML Bekele | BMC Women's Health |

| | managements of premenstrual syndrome | | |
|-----|---|------------------------|---|
| 144 | An ethnobotanical survey of plants of veterinary importance | Giday M, G Ameni | SINET: Ethiopian Journal of Science |
| 141 | Feeding practices, nutritional status and associated factors of lactating women | Haileslassie K et al | Nutrition Journal |
| 139 | Source reduction of mosquito larval habitat to reduce malaria transmission | Yohannes M et al | Tropical Medicine and International Health |
| 135 | Nutritional status of adolescent girls from rural communities | Mulugeta A et al | Ethiopian Journal of Health Development |
| 135 | Ethnobotanical study of traditional medicinal plants used by indigenous people | Mesfin K et al | Journal of Medicinal Plants Studies |
| 135 | Prevalence of anemia and associated factors among | Gebre A, A Mulugeta | Journal of Nutrition and Metabolism |

| | pregnant women | | |
|-----|---|-----------------------|--|
| 125 | Application of nursing process and its affecting factors among nurses | Hagos F et al | Nursing Research and Practice |
| 124 | Cervical cancer screening service uptake | Bayu <u>H</u> et al | PloS One |
| 122 | Serological survey of bovine brucellosis in barka and arado breeds | Mekonnen H et al | Preventive Veterinary Medicine |
| 121 | Use of insecticide treated nets by pregnant women | Belay M, W Deressa | Tropical Medicine and International Health |
| 120 | Visceral leishmaniasis and HIV | Lyons S et al | Tropical Medicine and International Hea Ith |
| 119 | Echinococcosis/ hydatidosis: its prevalence, economic and public health significance | Kebede W et al | Tropical Animal Health and Production |
| 112 | Task shifting and sharing to achieve comprehensive | Gessessew A et al | International Journal of Gynecology and Obstetrics |

| | emergency obstetric care | | |
|-----|---|------------------------------|--|
| 110 | Assessment of indigenous knowledge of medicinal plants | Yirga G | African Journal of Plant Science |
| 107 | Intention to use long acting and permanent contraceptive methods | Gebremariam A, A Addissie | Reproductive Health |
| 107 | Risk factors for iron deficiency anemia | Adish AA et al | Public Health Nutrition |
| 105 | Knowledge about obstetric danger signs | Hailu D, H Berhe | Plos One |
| 104 | Sanitary conditions of food establishments | Kumie A, K Zeru | Ethiopian Journal of Health Development |
| 103 | Level of adherence and predictors of adherence to the Option B+ PMTCT programme | Ebuy H et al | International Journal of Infectious Diseas es |

Annex III: Impact Factor Score of Journals 100+

| Journal Name | IF Score |
|--|----------|
| The Lancet | 79.32 |
| BMJ | 39.89 |
| Resources, Conservation and Recycling | 10.204 |
| Science of The Total Environment | 7.963 |
| Waste Management | 7.145 |
| Energy Economics | 7.042 |
| Journal of environmental management | 6.789 |
| Ecotoxicology and Environmental Safety | 6.230 |
| Geoderma | 6,114 |
| Agricultural and Forest Meteorology | 5.734 |
| Journal of Hydrology | 5.722 |
| Soil and Tillage Research | 5.374 |
| Soil and Tillage Research | 5.374 |
| Agricultural Systems | 5.37 |
| Academia Journal of Agricultural Research | 5.317 |
| Catena | 5.198 |
| Land degradation and Development | 4.977 |
| Land Degradation and Development | 4.71 |
| Agricultural Water Management | 4.516 |
| Nutrition Journal | 4.281 |
| Agriculture, ecosystems and environment | 4.241 |
| Agriculture, Ecosystems and Environment | 4.241 |
| Earth Surface: Processes and Landforms | 4.133 |
| American Journal of Agricultural Economics | 4.082 |
| International Journal of Infectious Diseases | 3.623 |
| International Journal of Gynecology and Obstetrics | 3.561 |
| Journal of Soils and Sediments | 3.308 |
| PLOS ONE | 3.24 |
| Environmental Management | 3.2 |
| Geomorphology | 3.19 |
| Public Health Nutrition | 3.182 |

| BMC Public Health | 3.18 |
|---|-------|
| Forest Ecology and Management | 3.126 |
| BMC Pregnancy and Childbirth | 2.938 |
| Journal of American Science | 2.917 |
| Journal of Nutrition and Metabolism | 2.89 |
| Soil Use and Management | 2.67 |
| Soil Use and Management | 2.67 |
| Preventive Veterinary Medicine | 2.670 |
| Agricultural Economics | 2.585 |
| Tropical Medicine and International Health | 2.519 |
| International Journal for Equity in Health. | 2.378 |
| Reproductive Health | 2.295 |
| Journal of Arid Environments | 2.211 |
| Plant Ecology | 1.829 |
| Hydrogeology Journal | 1.718 |
| Tropical Animal Health and Production | 1.559 |
| Environment and Development Economics | 1.51 |
| African Journal of Plant Science | 1.504 |
| Agricultural Sciences | 1.476 |
| Journal of Ethnobiology and Ethnomedicine | 1.391 |
| BMC Women's Health | 1.353 |
| African Archaeological Review | 1.29 |
| Physical Geography | 1.086 |
| Journal of African Economies | 0.905 |
| Acta Agriculturae Scandinavica | 0.81 |
| Ethiopian Journal of Health Development | 0.725 |
| Journal of Medicinal Plants Studies | 0.43 |
| International Journal of Applied | 0.34 |
| Research in Veterinary Medicine | |

"Standing on the Shoulders of Giants"

Sir Isaac Newton

Tigray: Bibliography and Bibliometry 1996-2021

For the last two years the attention of the whole world is drawn to Tigray. World leaders and lay people in the streets alike grieved about the inhumanity, but at the same time marveled at the stamina and discipline of the people of Tigray for not only surviving the devastating multi-national invasion but also for the swift and humiliating counter offensive on the invaders. The economy and the livelihoods in Tigray are ravaged; but there is something that the war could not eliminate: the soft component of the socioeconomic organization. Knowledge created through research, unlike infrastructure, is indestructible. A bibliography of research output is analogous to a seed-bank which plays an enabling role for a successful postwar restoration. This book has compiled and analyzed the huge volume of research output in the three decades before the war. Those who are directly or indirectly engaged in the restoration and those who would like to give a helping hand should keep this book as their companion.



Defiant Scholars of Tigray under a year-long siege founding the Institute of Biotechnology



Yohannes Aberra Ayele- PhD, Associate Professor (Geography, Environment, and Development); Educated in Addis Ababa University and Delhi University (Delhi School of Economics); Served in teaching and research in Bahir Dar and Addis Ababa Universities for 30 years, in BA, MA, and PhD programmes; Published several articles and book chapters, co-edited a book on pastoralist development with IPSS; Participated in international projects as researcher; Served in academic administrative posts; Visiting research fellow at IDP-Tokyo-Japan; Been to six African countries for workshops.