ABSTRACT

**Purpose:** The G20 is a multilateral cooperation forum consisting of 19 major countries and the European Union (EU) which has a middle to high income class, developing countries to developed countries. G20 members consist of countries from various regions of the world.

**Design/methodology/approach:** United States, Canada, Mexico, Argentina, Brazil, United Kingdom, Germany, Italy, France, Russia, South Africa, Saudi Arabia, Turkey, China, Japan, South Korea, India, Indonesia, Australia and the European Union. In the G20 Indonesia became one of the 5 strongest economies in Asia Pacific, including: (1) China GDP 14.72 trillion US dollars (2020) Area 9.597 million km² Population 1.402 billion people (2020) China's largest economy from manufacturing, services, and agriculture.

**Findings:** SCOPUS.COM analyze search results, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022, all field article. So today in good trend of research and publication in Social Science, Environmental Science, Economics, Econometrics and Finance. Compare top 15 affiliations, dominant affiliations from China and Malaysia, the best 3 affiliations are Beijing Institute of Technology 318 documents; Xi'an Jiaotong University 227 documents and Southwestern University of Finance and Economics 211 documents. Still no Indonesia research institution in top 15 of the list. Compare top 15 affiliations, the best 3 countries are China, USA and UK. In ASIA and ASEAN, Indonesia under China, Pakistan and Malaysia. So this is real challenge for Indonesia research institution to expand their research in Social Science, Environmental Science, Economics, Econometrics and Finance, trend in 2010-nowadays.

**Paper type:** Research paper

**Keyword:** Economics, Econometrics and Finance, Environmental Science, G20, Indonesia, Social Science

I. INTRODUCTION

The G20 is a multilateral cooperation forum consisting of 19 major countries and the European Union (EU) which has a middle to high income class, developing countries to developed countries. G20 members consist of countries from various regions of the world. United States, Canada, Mexico, Argentina, Brazil, United Kingdom, Germany, Italy, France, Russia, South Africa, Saudi Arabia, Turkey, China, Japan, South Korea, India, Indonesia, Australia and the European Union. In the G20 Indonesia became one of the 5 strongest economies in Asia Pacific, including: (1) China GDP 14.72 trillion US dollars (2020) Area 9.597 million km² Population 1.402 billion people (2020) China's largest economy from manufacturing, services, and agriculture. The service sector (nearly 50% of GDP) includes trade, retail, postal, etc. The main industries include mining and processing of ore, iron and steel, aluminum, coal, machinery, weaponry, textiles and apparel, petroleum,
cement, chemicals, fertilizers, food processing, automobiles and other transportation equipment; (2) Japan GDP 5.05 Trillion US Dollars (2020) Area 377,975 km² Population 125.8 million (2020) Japan's main exports are automobiles, vehicle parts, integrated circuits, engines, and passenger and cargo ships; (3) India GDP 2.623 Trillion US Dollars (2020) Area 3,287 million km² Population 1.38 billion people (2020) The most important sector in India's economy is agriculture, which is the major source of livelihood for 58% of the population; (4) South Korea GDP 1.631 Trillion US Dollars (2020) Area 100,210 km² Population 51.78 million people (2020) The largest industries in South Korea are electronics, automobiles, telecommunication, shipbuilding, chemicals, and steel. South Korea's main exports include electronic products, machinery, cars, steel, ships, as well as textiles and clothing, and (5) Indonesia GDP 1.058 trillion US dollars (2020) Area 1,922,570 km² Population 273.5 million people (2020) Indonesia's main industrial sectors include oil and natural gas, textiles and apparel, mining, footwear, plywood, rubber and chemical fertilizers.

A. Objectives

The research objective is to analyze the G20, Social Science, Environmental Science, Economics, Econometrics and Finance Research Trend

B. Literature Review

The G20 research trends were analyzed using the Analysis Search Result facility owned by SCOPUS.COM, based on a bibliographic database. Obtained 116 documents, related to Article Title G20, during 2021-2022

From 116 documents results, 5 top G20 research (2021-2022) based on SCOPUS.COM documents by subject area, are: (1) Social Sciences 48 documents; (2) Environmental Science 40 documents; (3) Economics, Econometrics and Finance 34 documents; (4) Business, Management and Accounting 18 documents; and (5) Energy 13 documents. Based on these data, it can be seen that the G20 research (2021-2022) based on SCOPUS.COM documents by subject area, dominantly Subject Social Sciences and Environmental Science.

II. METHODS

Research methodology, SCOPUS.COM is a source-neutral abstract and citation database curated by independent subject matter experts who are recognized leaders in their fields. SCOPUS.COM puts powerful discovery and analytics tools in the hands of researchers, librarians, research managers and funders to promote ideas, people and institutions. 1.8+ billion cited references dating back to 1970, 84+ million records, 17.6+ million author profiles, 94.8+ thousand affiliation profiles, 7+ thousand publishers, 84+ million records, 58.5+
million post-1995 records, including references, 25.4+ million pre-1996 records, as far back as 1788, 18.0+ million open access items, including gold, hybrid gold, green & bronze, 10.9+ million conference papers, 15.8+ million items with funding details, 47.4+ million patent links, 27.1+ thousand active serial titles, 25.8+ thousand active peer-reviewed journals including 5.3+ thousand gold open access journals, 825+ book series featuring 63.3+ thousand book series volumes, 240+ trade publications. SCOPUS.COM includes: 1.06+ million preprints from arXiv, bioRxiv, ChemRxiv, medRxiv & SSRN, available in Scopus Author Profiles, Average of 29+ references per paper, Average of 11+ citations per paper, 59.0+ thousand titles have a 2020 CiteScore, 4%+ increase year-on-year for the past 3 years. SCOPUS.COM includes article, author and journal level metrics, including CiteScore metrics, 249.0+ thousand books includes monographs, edited volumes, major reference works & textbooks focus on arts & humanities & social sciences, as well as science, technology & medicine. Health Sciences 7.5+ thousand titles in medicine; nursing; dentistry; health professions; veterinary. Life Sciences 5.1+ thousand titles in agriculture & biological sciences; biochemistry, genetics & molecular biology; immunology & microbiology; neuroscience; pharmacology, toxicology & pharmaceutics. Physical Sciences 9.0+ thousand titles in chemical engineering; chemistry; computer science; earth & planetary sciences; energy; engineering; environmental science; materials science; mathematics; physics & astronomy. Social Sciences, 11.5+ thousand titles in arts & humanities; business, management & accounting; decision sciences; economics, econometrics & finance; psychology; social sciences.

Based on SCOPUS.COM analyze search results, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022 BPS, 2022, all field article. Research methodology, refer to followed article, published in SCOPUS.COM, there're: (Sudapet, Sukoco, Damayanti, Wulandari, Rosyid, Nasihien, Setiawan, Zulkifli, et al., 2021), research was conducted descriptively based on SCOPUS.COM data, where researchers obtained 203 documents whose article titles were digital tourism for the last ten years. Setiawan, Nasihien, Sukoco, Aditya, et al., 2021, research was conducted descriptively based on SCOPUS.COM data, where researchers obtained 62 documents entitled digital transportation for the last ten years (2012-2021). (Sudapet, Sukoco, Damayanti, Wulandari, Rosyid, Nasihien, Setiawan, Masirin, et al., 2021) , research was conducted descriptively based on SCOPUS.COM data, which obtained 249 documents with the title digital rural for the last five years. Setiawan, Nasihien, Sukoco, Rosyid, et al., 2021, research is conducted descriptively based on SCOPUS.COM data, where researchers obtained 586 documents over the last ten years (2012-2021). The analysis process uses (1) research country documents, (2) affiliation documents, (3) affiliation documents, and (4) funding sponsor documents. (Sudapet, Sukoco, Ibrahim, et al., 2019), Type of research publication Tourism and digital tourism, internationally reputed SCOPUS.COM, in Indonesia is still limited to Conference Paper, Article, Conference Review and Book Chapter, so it requires a strong effort to catch up with other countries. Setiawan MI et al., 2019, there are 171 documents related to titles, abstracts, and keywords in SCOPUS.COM publications. Fish and solar cell technology researches are available in 122 journals. (Setiawan, Abdullah, Lestari, Yuniningsih, et al., 2019), 57 Affiliation, SCOPUS.COM document title-abstract-keywords results, Sustainable Mobility and Transportation Research in Indonesia, 1989-2020. (Sudapet, Sukoco, Setiawan, et al., 2019), As the international publication affiliation of SCOPUS.COM, Institut Teknologi Sepuluh Nopember Surabaya (ITS) ranks fourth in tourism and maritime research. (Halim et al., 2019), Based on SCOPUS.COM publication paper data, there are only five reputable international publications that are related to the research on sociology and sustainable management in Indonesia, in the last 30 years (1990-2020). (Setiawan, Bin, et al., 2019), based on SCOPUS.COM Analyze search results and VOS Viewer analysis of supply chain and fisheries research, the development of the portable inflated solar power cold storage house technology is on the right track for the future research and publication in Indonesia.

### III. RESULTS AND DISCUSSION

SCOPUS.COM analyze search results, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022, all field article, first document by year analysis.
Figure 2. Documents by year, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022, all field article

Figure 2 SCOPUS.COM analyze search results, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022, all field article. So today in good trend of research and publication in Social Science, Environmental Science, Economics, Econometrics and Finance.

Figure 3. Documents by affiliation, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022, all field article

Figure 3, compare top 15 affiliations, dominant affiliations from China and Malaysia, the best 3 affiliations are Beijing Institute of Technology 318 documents; Xi'an Jiaotong University 227 documents and Southwestern University of Finance and Economics 211 documents. Still no Indonesia research institution in top 15 of the list
Figure 4. Documents by countries, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022, all field article

Figure 4, compare top 15 affiliations, the best 3 countries are China, USA and UK. In ASIA and ASEAN, Indonesia under China, Pakistan and Malaysia. So this is real challenge for Indonesia research institution to expand their research in Social Science, Environmental Science, Economics, Econometrics and Finance, trend in 2010-nowadays.

IV. CONCLUSION

SCOPUS.COM analyze search results, Social Science, Environmental Science, Economics, Econometrics and Finance 22,997 documents result since 1974 to 2022, all field article. So today in good trend of research and publication in Social Science, Environmental Science, Economics, Econometrics and Finance. Compare top 15 affiliations, dominant affiliations from China and Malaysia, the best 3 affiliations are Beijing Institute of Technology 318 documents; Xi'an Jiaotong University 227 documents and Southwestern University of Finance and Economics 211 documents. Still no Indonesia research institution in top 15 of the list. Compare top 15 affiliations, the best 3 countries are China, USA and UK. In ASIA and ASEAN, Indonesia under China, Pakistan and Malaysia. So this is real challenge for Indonesia research institution to expand their research in Social Science, Environmental Science, Economics, Econometrics and Finance, trend in 2010-nowadays

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