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Introducing Semarak Ilmu Publishing in Publishing Science and Engineering: Bibliometric Analysis

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ABSTRACT

Scholarly publishing in the fields of science and engineering plays an important role in developing and disseminating knowledge. In this context, bibliometric analysis is used as a method and tool to understand trends, patterns, and impact of scientific publications. The main objective of this research is to carry out bibliometric analysis of articles published by Semarak Ilmu Publishing. Information about productivity, collaboration, and impact of publications based on the keyword "Semarak Ilmu Publishing" as publisher was explored to provide better insight into their potential contribution to improving understanding and development in the fields of science and engineering. Based on the analysis, the number of articles that were published in 2019 - 2024 reached more than 40 articles with the number of articles per year being 45 articles in 2019, 75 articles in 2020, 50 articles in 2021, 79 articles in 2022, 66 articles in 2023, and 17 articles in 2024. For the case of 2024, since it is still at the beginning of the year, the number of publications is still low. Apart from that, each article has been widely cited by other authors with an average citation per year of 263.53 citations. This research becomes an initial basis for further evaluation of Semarak Ilmu Publishing and its contribution to supporting the scientific ecosystem.

1. Introduction

In the current era of globalization, scientific publications have become one of the main foundations for advancing knowledge and innovation in various fields, especially in science and engineering [1]. With the increasingly rapid development of technology and knowledge, scientific publications are not only a source of information, but also an important indicator in evaluating the quality and progress of an academic institution or publisher.

In this context, Semarak Ilmu Publishing presents a new initiative that aims to develop and advance the field of science through quality scientific publications. Semarak Ilmu Publishing is a company that runs the business of publishing newspapers, journals, magazines, and other literary works both through print and electronic media and acts as a professional event management

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provider. With a focus on research and development in various branches of science and engineering, Semarak Ilmu Publishing is committed to being one of the main contributors to expanding the scope of knowledge and facilitating collaboration between scientists, researchers, and practitioners throughout the world.

To introduce this contribution and commitment, bibliometric analysis is an important step in evaluating and understanding trends and the impact of scientific publications in the fields of science and engineering [2, 3]. Through this analysis, we can identify publication patterns, research trends, as well as significant contributions from various academic institutions and publishers in driving scientific progress [4]. Bibliometric analysis has been widely used by previous researchers to evaluate and understand trends and the impact of publications as shown in Table 1.

This research aims to present a comprehensive bibliometric analysis of scientific publications in science, with a focus on the contribution made by Semarak Ilmu Publishing. Through this approach, it is hoped that we can gain in-depth insight into the position and role of Semarak Ilmu Publishing in the current scientific publication ecosystem, as well as its potential impact in increasing the visibility and influence of research in the field of science.

Thus, this research not only aims to provide a better understanding of scientific publication trends in this field but also to provide a strong foundation for Semarak Ilmu Publishing in developing more effective strategies and policies in supporting scientific research and development in the future.

Table 1
Previous studies on bibliometric analysis

No	Title	Author	Ref.
1	Introducing ASEAN Journal for Science and Engineering in Materials: Bibliometric Analysis	Nandiyanto *et al.,*	[5]
2	Involving Particle Technology in Computational Fluid Dynamics Research: A Bibliometric Analysis	Nandiyanto *et al.,*	[6]
3	Particulate Matter Emission from Combustion and Non-Combustion Automotive Engine Process: Review And Computational Bibliometric Analysis an Its Source, Sizes, and Health and Lung Impact	Nandiyanto *et al.,*	[7]
4	Social Impact and Internationalization of "Indonesian Journal of Science and Technology" the Best Journal in Indonesia: A Bibliometric Analysis	Nandiyanto *et al.,*	[8]
5	Introducing ASEAN Journal of Science and Engineering: A Bibliometric Analysis Study	Nandiyanto *et al.,*	[9]
6	Concept of Computational Fluid Dynamics Design and Analysis Tool for Food Industry: A Bibliometric	Muktiarni *et al.,*	[10]
7	Concept of Computational Fluid Dynamics and Its Application in Sport Science: Bibliometric Analysis of Modelling Thermal Comfort in Sport Hall	Rachmat *et al.,*	[11]
8	Bibliometric Computational Mapping Analysis of Trend Metaverse in Education using Vosviewer	Muktiarni *et al.,*	[12]
9	Phytochemical Profile and Biological Activities of Ethylacetate Extract of Peanut (Arachis Hypogaea L.) Stems: In-Vitro And In-Silico Studies with Bibliometric Analysis	Sahidin *et al.,*	[13]
10	Information and Communication Technology (ICT) Intervention Targeting Physical Activity and Diet Behaviors in People with Disabilities: Vosviewer Mapping Analysis	Rahayu *et al.,*	[14]
11	Computational Bibliometric Analysis of English Researchin Science Education for Students with Special Needs using Vosviewer	Sukyadi *et al.,*	[15]
12	Orange and Strawberry Skins for Eco-Enzyme: Experiment and Bibliometric Analysis	Muktiarni *et al.,*	[16]
13	Counseling Guidance in Science Education: Definition, Literature Review, and Bibliometric Analysis	Solehuddin *et al.,*	[17]

Table 1 (continue)
Previous studies on bibliometric analysis

No	Title	Author	Ref.
14	A Bibliometric Analysis of Management Bioenergy Research using Vosviewer Application	Soegoto *et al.,*	[18]
15	Oil Palm Empty Fruit Bunch Waste Pretreatment With Benzotriazolium-Based Ionic Liquids for Cellulose Conversion to Glucose: Experiments with Computational Bibliometric Analysis.	Mudzakir *et al.,*	[19]
16	Research Mapping in the Use of Technology for Fake News Detection: Bibliometric Analysis From 2011 To 2021.	Gunawan *et al.,*	[20]
17	Management Information Systems: Bibliometric Analysis and Its Effect on Decision Making.	Santoso *et al.,*	[21]
18	Sustainable Production-Inventory Model With Multi-Material, Quality Degradation, and Probabilistic Demand: From Bibliometric Analysis to a Robust Model.	Utama *et al.,*	[22]
19	Biomass-Based Supercapacitors Electrodes for Electrical Energy Storage Systems Activated using Chemical Activation Method: A Literature Review and Bibliometric Analysis.	Hamidah *et al.,*	[23]
20	Antiangiogenesis Activity of Indonesian Local Black Garlic (Allium Sativum 'Solo): Experiments and Bibliometric Analysis.	Arianingrum *et al.,*	[24]
21	Characteristics of Tamarind Seed Biochar at Different Pyrolysis Temperatures as Waste Management Strategy: Experiments and Bibliometric Analysis.	Rahmat *et al.,*	[25]
22	The Compleat Lextutor Application Tool for Academic and Technological Lexical Learning: Review and Bibliometric Approach.	Abduh *et al.,*	[26]
23	How Eyes and Brain See Color: Definition of Color, Literature Review with Bibliometric Analysis, and Inquiry Learning Strategy for Teaching Color Changes to Student with Mild Intelligence Barriers.	Juhanaini *et al.,*	[27]
24	Bibliometric Analysis of Nano Metal-Organic Frameworks Synthesis Research in Medical Science using Vosviewer.	Shidiq	[28]
25	Use of Blockchain Technology for the Exchange and Secure Transmission of Medical Images in the Cloud: Systematic Review with Bibliometric Analysis.	Lizama *et al.,*	[29]

2. Methodology

This research is a literature review (SLR) study. Bibliometric analysis is used as a research method. The data used is article data that has been published by Semarak Ilmu. Article data was directly obtained from the results of data retrieval using the Publish or Perish application with the search terms used being papers published by "Semarak Ilmu Publishing". Several stages must be carried out when using the bibliometric analysis method. These steps are explained in the next sub-sections. Detailed information for the use of bibliometric is shown elsewhere [30].

2.1. Article Data Collection

Collecting article data is the first step in conducting literature research using bibliometric analysis. At this stage, published research articles related to science and engineering are collected (see Figure 1). The article data used is article data published by Semarak Ilmu. The article data used is article data sourced from journals. There were 370 journals obtained from the search results. Finally, the collected research article data is exported into two formats, namely the (*.csv) format used for the analysis process using the Microsoft Excel application and the (*.ris) format used for the data mapping process using the VOSviewer application.

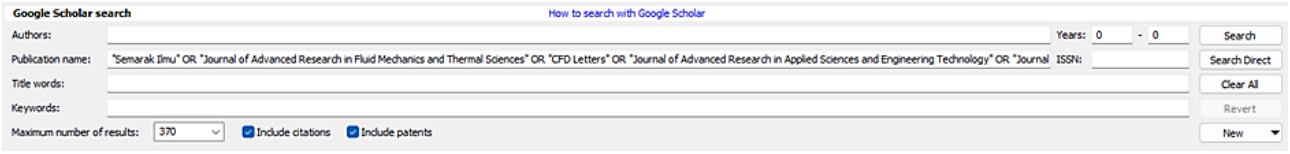

Fig. 1. Keywords used to collect article data

2.2 Article Data Filtering

Research articles that have been collected at the data collection stage cannot be directly analyzed. As a result, data filtering is necessary. At this stage, data screening is carried out by paying attention to the title of the article and the year of publication. Articles with irrelevant titles and missing publication years were removed. The screening result data is then saved in Microsoft Excel file format for additional examination with bibliometric tools.

2.3 Data Analysis

After stages one and two have been completed, the next step is the process of analyzing the article data that has been collected and screening using Ms. Excel. The format used in the Ms. Excel is (.csv).

2.4 Article Data Mapping

The VOSviewer application is used in the article data mapping process. The results of data mapping are obtained in the form of visualization. VOSviewer provides three types of visualization, namely network visualization, overlay visualization, and density visualization. The results of the visualization are then analyzed to obtain cluster groupings, the year the research was conducted, and the depth of a term studied.

3. Results

3.1 Introduction of Semarak Ilmu Publishing

Semarak Ilmu Publishing began operating in 2022 as a publisher of two journals in the fields of fluid mechanics and heat transfer. Now, Semarak Ilmu has grown with more than 50 of our journals indexed both locally and internationally. Our journals cover various research fields such as social sciences, business, education, and management, as well as various engineering fields. We have earned the trust of researchers around the world, which can be seen from the increase in the number of submitted articles from year to year as well as the quality of articles submitted by researchers that have many citations.

The concept of Semarak Ilmu is "sharing knowledge for a better tomorrow" and it is known that "Knowledge has power, but it is more powerful when shared". Semarak Ilmu Publishing has several journals that are always "Open for Submissions" (see Figure 2). The vibrant journals of publishing science include:

i. **Journal of Advanced Research in Fluid Mechanics and Thermal Sciences:** This journal welcomes high-quality original contributions on experimental, computational, applied mathematics and physical aspects of fluid mechanics and thermal sciences relevant to engineering or the environment, multiphase and microscale flows, microscale electronic and mechanical systems; medical and biological systems; and thermal and flow control in

both the internal and external environment. This journal has been indexed by Scopus Q3 (access the following link to see more details https://www.scimagojr.com/journalsearch.php?q=21100853837&tip=sid&exact=no).

ii. **Journal of Advanced Research in Applied Sciences and Engineering Technology:** Journal of Advanced Research in Applied Sciences and Engineering Technology is an international forum for the publication and dissemination of original work which contributes to greater scientific understanding in applied sciences and engineering technology. The journal reports principally the achievements spanning the interdisciplinary field of applied research. The scope of the journal includes biology, chemistry, physics, environmental, health science, mathematics and statistics, geology, engineering, computer science, natural and technological sciences, medicine, and architecture. This journal has been indexed by Scopus (access the following link to see more details https://www.scimagojr.com/journalsearch.php?q=21101119543&tip=sid&exact=no#google_vignette)

iii. **CFD Letters:** CFD Letters publishes as rapidly as possible manuscripts of high quality that address eminent topics of computational fluid dynamics theory and applications. Being an international, peer-reviewed, online, and open-access journal, CFD Letters presents a world-wide forum for the dissemination of knowledge among engineers, scientists, and mathematicians working in the field of computational fluid mechanics. This journal has been indexed by Scopus.

iv. **Journal of Advanced Research in Applied Mechanics:** The journal is concerned with high-level investigations of modern physical and mechanical problems and reports current progress in this field. The journal also encourages contributions from the newly emerging areas such as biomechanics, electromechanics, the mechanical behavior of advanced materials, nanomechanics, and many other inter-disciplinary research areas in which the concepts of applied mechanics are extensively applied and developed. This journal has been indexed by Scopus.

v. **Journal of Advanced Research in Numerical Heat Transfer:** Journal of Advanced Research in Numerical Heat Transfer provides a worldwide platform for researchers, engineers, scientists, and mathematicians to disseminate novel ideas, and share preliminary findings of ongoing investigations, discussions, and criticisms in the field of heat transfer. This journal has been indexed by Scopus (access the following link to see more https://www.scimagojr.com/journalsearch.php?q=21101169023&tip=sid&exact=no).

vi. **Journal of Advanced Research in Micro and Nano Engineering**: Journal of Advanced Research in Micro and Nano Engineering is a peer-reviewed international journal, that collects original contributions in all major areas of micro and nano engineering. The journal covers fundamental and applied research in all disciplines of science, engineering, and medicine. The scope of the journal includes materials synthesis, processing, fabrication, spectroscopy, properties, biological systems, micro- and nanostructures, theory, and computation, etc. This journal has been indexed by Scopus.

Semarak Ilmu Publishing also provides services for:

i. Organizing an Article Writing Workshop for publication in SCOPUS-indexed journals.
ii. Organize Research Seminars/Conferences.
iii. Guide publishers on how to manage and index journals.
iv. Manage journals from individuals/groups/associations.

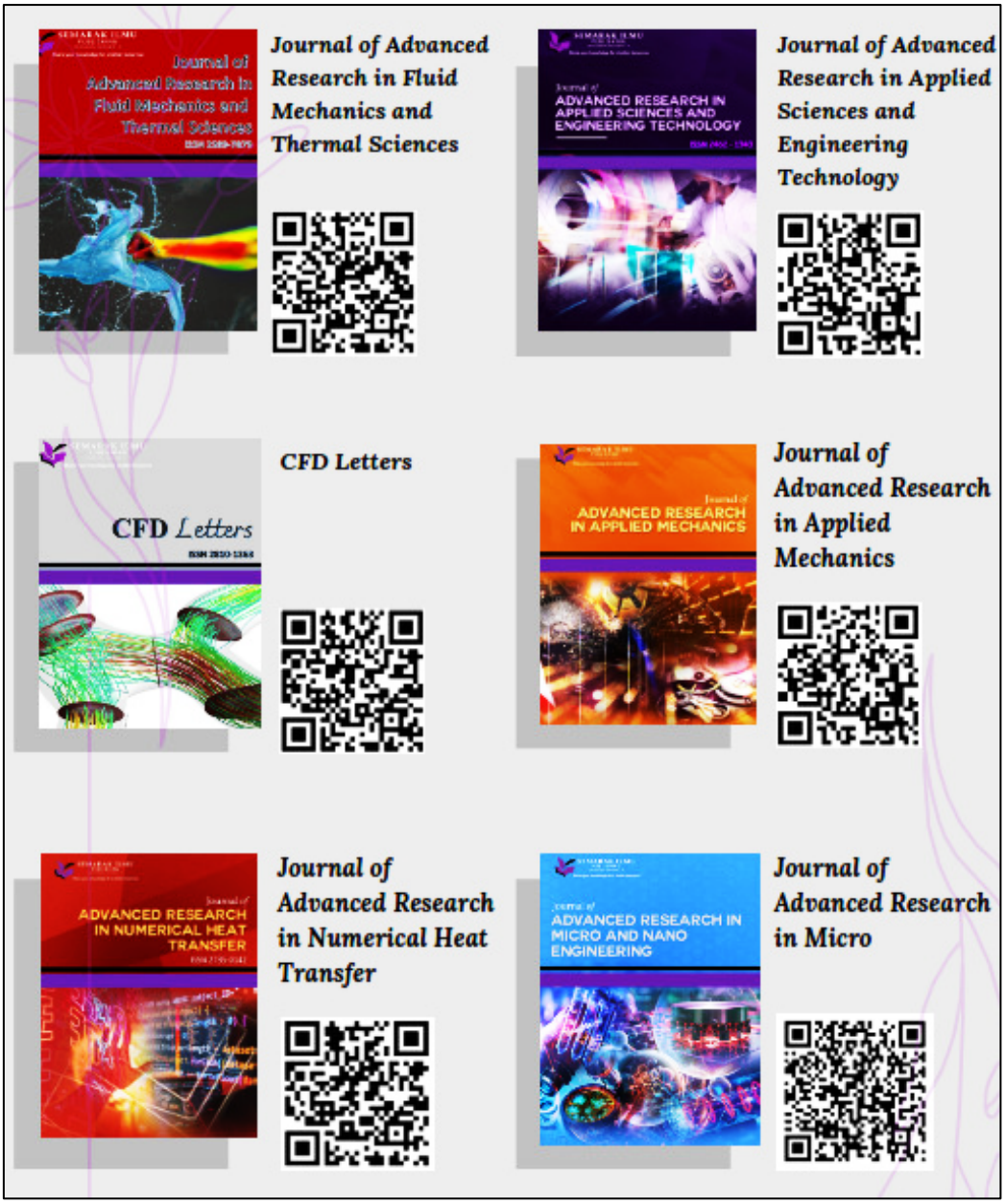

Fig. 2. Journal of semarak ilmu publishing

3.2 Current Top-Cited Papers Published In Semarak Ilmu Publishing

Semarak Ilmu Publishing has six managed journals, each journal has articles with the highest number of citations. In the Journal of Advanced Research in Fluid Mechanics and Thermal Sciences as shown in Table 2, the paper with the title "Two-Dimensional Magnetized Mixed Convection Hybrid Nanofluid Over a Vertical Exponentially Shrinking Sheet by Thermal Radiation, Joule Heating, Velocity and Thermal Slip Conditions" was written by Asghar *et al*., [31] with a total of 21 citations.

Table 2
Top cited articles published in the Journal of Advanced Research in Fluid Mechanics and Thermal Sciences based on Scopus database in 2022-2024

No	Author	Title	Ref.
1	Asghar *et al.,*	Two-Dimensional Magnetized Mixed Convection Hybrid Nanofluid Over a Vertical Exponentially Shrinking Sheet by Thermal Radiation, Joule Heating, Velocity and Thermal Slip Conditions	[31]
2	Nayan *et al.,*	Aligned Magnetohydrodynamics (MHD) Flow of Hybrid Nanofluid Over a Vertical Plate Through Porous Medium	[32]
3	Rosaidi *et al.,*	Aligned Magnetohydrodynamics Free Convection Flow of Magnetic Nanofluid over a Moving Vertical Plate with Convective Boundary Condition	[33]
4	Mopuri *et al.,*	MHD Heat and Mass Transfer Steady Flow of a Convective Fluid Through a Porous Plate in The Presence of Diffusion Thermo and Aligned Magnetic Field	[34]
5	Abuiyada *et al.,*	Effects of Thermal Diffusion and Diffusion Thermo on a Chemically Reacting MHD Peristaltic Transport of Bingham Plastic Nanofluid	[35]
6	Bosli *et al.,*	Investigation of Nanoparticles Shape Effects on Aligned MHD Casson Nanofluid Flow and Heat Transfer with Convective Boundary Condition	[36]
7	Vaddemani *et al.,*	Effects of Hall Current, Activation Energy and Diffusion Thermo of MHD Darcy-Forchheimer Casson Nanofluid Flow in the Presence of Brownian Motion and Thermophoresis	[37]
8	Ahmad *et al.,*	Rheological Properties of Natural Fiber Reinforced Thermoplastic Composite for Fused Deposition Modeling (FDM): A Short Review	[38]
9	Urmi *et al.,*	A Comprehensive Review on Thermal Conductivity and Viscosity of Nanofluids	[39]
10	Mohamed *et al.,*	Peristaltic Transport of Carreau Coupled Stress Nanofluid with Cattaneo-Christov Heat Flux Model Inside a Symmetric Channel	[40]
11	Sulochana and Kumar	Heat Transfer of SWCNT-MWCNT Based Hybrid Nanofluid Boundary Layer Flow with Modified Thermal Conductivity Model	[41]
12	Yaseen *et al.,*	Using Micropolar Nanofluid under a Magnetic Field to Enhance Natural Convective Heat Transfer around a Spherical Body	[42]
13	Ali *et al.,*	Mixed Convection in a Lid-Driven Horizontal Rectangular Cavity Filled with Hybrid Nanofluid by Finite Volume Method	[43]
14	Japili *et al.,*	Slip Effect on Stagnation Point Flow and Heat Transfer Over a Shrinking/Stretching Sheet in A Porous Medium with Suction/Injection	[44]
15	Ningappa *et al.,*	Influence of Altered Pressures on Flow Dynamics in Carotid Bifurcation System Using Numerical Methods	[45]
16	Harun *et al.,*	Recent Review on Preparation Method, Mixing Ratio, and Heat Transfer Application Using Hybrid Nanofluid	[46]
17	Abidin and Misro	Numerical Simulation of Heat Transfer using Finite Element Method	[47]
18	Deraman *et al.,*	Production of Roof Board Insulation Using Agricultural Wastes Towards Sustainable Building Material	[48]
19	Simanjuntak *et al.,*	Bioenergy as an Alternative Energy Source: Progress and Development to Meet the Energy Mix in Indonesia	[49]
20	Revichandran *et al.,*	Energy Efficiency and Optimization of Buildings for Sustainable Development in Malaysia	[50]

In the Journal of Advanced Research in Applied Sciences and Engineering Technology, as shown in Table 3, the paper with the most citations is the paper written by Rebhi *et al.,* [51] with the title "Forced-Convection Heat Transfer in Solar Collectors and Heat Exchangers: A Review". The paper has been cited 25 times.

Table 3
Top cited articles published in Journal of Advanced Research in Applied Sciences and Engineering Technology based on Scopus database in 2022-2024

No	Author	Title	Ref.
1	Rebhi *et al.,*	Forced-Convection Heat Transfer in Solar Collectors and Heat Exchangers: A Review	[51]
2	Nandiyanto *et al.,*	Introducing ASEAN Journal of Science and Engineering: A Bibliometric Analysis Study	[52]
3	Subramaniam and Rasani	Pulsatile CFD Numerical Simulation to Investigate the Effect of Various Degree and Position of Stenosis on Carotid Artery Hemodynamics	[53]
4	Khan *et al.,*	Flow Regime Identification in Gas-Liquid Two-Phase Flow in Horizontal Pipe by Deep Learning	[54]
5	Jamil *et al.,*	A Review on Deep Learning Application for Detection of Archaeological Structures	[55]
6	Shwedeh *et al.,*	The Relationship between Technology Readiness and Smart City Performance in Dubai	[56]
7	Sarwani *et al.,*	Calculation of Specific Exhaust Emissions of Compression Ignition Engine Fueled by Palm Biodiesel Blend	[57]
8	Mondal *et al.,*	Wind Energy Assessment as a Source of Power Generation in Bangladesh	[58]
9	Al-Dailami *et al.,*	Potential of Photobioreactors (PBRs) in Cultivation of Microalgae	[59]
10	Nandiyanto *et al.,*	Social Impact and Internationalization of “Indonesian Journal of Science and Technology” the Best Journal in Indonesia: A Bibliometric Analysis	[60]
11	Nandiyanto *et al.,*	Is Universitas Pendidikan Indonesia Ready for Internationalization? A Bibliometric Analysis in The Science and Technology-Related Publications	[61]
12	Ishak *et al.,*	Radiation Effects on Inclined Magnetohydrodynamics Mixed Convection Boundary Layer Flow of Hybrid Nanofluids over a Moving and Static Wedge	[62]
13	Soid *et al.,*	Magnetohydrodynamic of Copper-Aluminium of Oxide Hybrid Nanoparticles Containing Gyrotactic Microorganisms Over a Vertical Cylinder with Suction	[63]
14	Al Rizeiqi *et al.,*	Potential of Underground Hydrogen Storage in Oman	[64]
15	Jena and Gairola	Novel Boundary Conditions for Investigation of Environmental Wind Profile Induced Due to Raised Terrains and Their Influence on Pedestrian Winds	[65]
16	Hanafi *et al.,*	A Review of Learner’s Model for Programming in Teaching and Learning	[66]
17	Shamitha *et al.,*	Analytical and Numerical Simulation of Surface Pressure of an Oscillating Wedge at Hypersonic Mach Numbers and Application of Taguchi's Method	[67]
18	Zaman *et al.,*	Adoption of Smart Farming Technology Among Rice Farmers	[68]
19	Al-Selwi *et al.,*	LSTM Inefficiency in Long-Term Dependencies Regression Problems	[69]
20	Kamaruzaman *et al.,*	Waste-Energy-Climate Nexus Perspective Towards Circular Economy: A Mini-Review	[70]

In the CFD Letters shown in Table 4, the paper with the title "Numerical Solution of Heat Transfer Flow of Casson Hybrid Nanofluid over Vertical Stretching Sheet with Magnetic Field Effect" written by Alkasasbeh [71] is the paper with the highest number of citations, 27 citations.

Table 4
Top cited articles published in CFD Letters based on Scopus database in 2022-2024

No	Author	Title	Ref.
1	Alkasasbeh	Numerical Solution of Heat Transfer Flow of Casson Hybrid Nanofluid over Vertical Stretching Sheet with Magnetic Field Effect	[71]
2	Sajjad *et al.,*	Dual Solutions of Magnetohydrodynamics $Al_2 O_3$ +Cu Hybrid Nanofluid Over a Vertical Exponentially Shrinking Sheet by Presences of Joule Heating and Thermal Slip Condition	[72]
3	Asghar *et al.,*	Two-Dimensional Mixed Convection and Radiative Al2O3-Cu/H2O Hybrid Nanofluid Flow over a Vertical Exponentially Shrinking Sheet with Partial Slip Conditions	[73]
4	Nandiyanto *et al.,*	Involving Particle Technology in Computational Fluid Dynamics Research: A Bibliometric Analysis	[74]
5	Didane *et al.,*	Performance Investigation of Vertical Axis Wind Turbine with Savonius Rotor using Computational Fluid Dynamics (CFD)	[75]
6	Adietya *et al.,*	CFD Analysis into the Effect of using Propeller Boss Cap Fins (PBCF) on Open and Ducted Propellers, Case Study with Propeller B-Series and Kaplan-Series	[76]
7	Al Doori	Experiments and Numerical Investigations for Heat Transfer from a Horizontal Plate via Forced Convection Using Pin Fins with Different Hole Numbers	[77]
8	Abuiyada *et al.,*	Influence of Both Ohmic Dissipation and Activation Energy on Peristaltic Transport of Jeffery Nanofluid through a Porous Media	[78]
9	Permadi and Sugianto	CFD Simulation Model for Optimum Design of B-Series Propeller using Multiple Reference Frame (MRF)	[79]
10	Nasif *et al.,*	Effects of the Conjugate Heat Transfer and Heat Flux Strength on the Thermal Characteristics of Impinging Jets	[80]
11	Dzulkifli *et al.,*	Stability Solution of Unsteady Stagnation-Point Flow and Heat Transfer over a Stretching/Shrinking Sheet in Nanofluid with Slip Velocity Effect	[81]
12	Khashi'ie *et al.,*	Radiative Hybrid Ferrofluid Flow Over a Permeable Shrinking Sheet in a Three-Dimensional System	[82]
13	Mopuri *et al.,*	Unsteady MHD on Convective Flow of a Newtonian Fluid Past an Inclined Plate in Presence of Chemical Reaction with Radiation Absorption and Dufour Effects	[83]
14	Trimulyono *et al.,*	Numerical Simulation Low Filling Ratio of Sway Sloshing in the Prismatic Tank Using Smoothed Particle Hydrodynamics	[84]
15	Sunitha *et al.,*	A Study of Thermally Radiant Williamson Nanofluid Over an Exponentially Elongating Sheet with Chemical Reaction Via Homotopy Analysis Method	[85]
16	Abugnah *et al.,*	Comparison of 2D and 3D Modelling Applied to Single Phase Flow of Nanofluid through Corrugated Channels	[86]
17	Zukri *et al.,*	Magnetohydrodynamic Effect in Mixed Convection Casson Hybrid Nanofluids Flow and Heat Transfer over a Moving Vertical Plate	[87]
18	Romli *et al.,*	Optimization of a Blended-Wing-Body Unmanned Aerial Vehicle Design for Maximum Aerodynamic Lift-to-Drag Ratio	[88]
19	Rahman *et al.,*	Hydrogen-Enriched Natural Gas Swirling Flame Characteristics: A Numerical Analysis	[89]
20	Arifin *et al.,*	Flow Separation Evaluation on Tubercle Ship Propeller	[90]

In the Journal of Advanced Research in Applied Mechanics shown in Table 5, the article written by Crasta *et al*., [91] with the title "Numerical Simulation of Surface Pressure of a Wedge at Supersonic Mach Numbers and Application of Design of Experiments" is the most cited article with a total of 10 citations.

Table 5
Top cited articles published in the Journal of Advanced Research in Applied Mechanics based on Scopus database in 2022-2024

No	Author	Title	Ref.
1	Shamitha *et al.,*	Numerical Simulation of Surface Pressure of a Wedge at Supersonic Mach Numbers and Application of Design of Experiments	[91]
2	Nandiyanto *et al.,*	Rice Husk for Adsorbing Dyes in Wastewater: Literature Review of Agricultural Waste Adsorbent, Preparation of Rice Husk Particles, Particle Size on Adsorption Characteristics with Mechanism and Adsorption Isotherm	[92]
3	Roslan *et al.,*	Extended Blade Element Momentum Theory for the Design of Small-Scale Wind Turbines	[93]
4	Sobran and Ismail	A Systematic Literature Review of Unsupervised Fault Detection Approach for Complex Engineering System	[94]
5	Samy *et al.,*	Design of Portable Vortex Bladeless Wind Turbine: The Preliminary Study	[95]
6	Hassan *et al.,*	Screening and Benchmarking of Commercial Corrosion Inhibitors for Organic Acids Corrosion Mitigations	[96]
7	Hamdan *et al.,*	Characterization of Carbon Fibre Reinforced Polyphenylene Sulfide Composite Under Interlaminar Shear Strength	[97]
8	Nathan *et al.,*	Design of Smart Walking Shoe for Visually Impaired People	[98]
9	Ahsan *et al.,*	Comprehensive Analysis of Insulator Performance in High Voltage Transmission Systems: Implications for Efficient Power Transfer	[99]
10	Hamat *et al.,*	Tensile Properties of 3D Printed Recycled PLA Filament: A Detailed Study on Filament Fabrication Parameters	[100]
11	Shaat *et al.,*	Study of the Mechanical and Physical Properties of Pervious Concrete Modified with Treated and Untreated Natural Coconut Fiber for Pavement	[101]
12	Rosli *et al.,*	Manufacturing Study on Different Glue Spread and Press Pressure for Glued Laminated Timber Made from Laran	[102]
13	Rahmat *et al.,*	Numerical Modelling of Impact Loads on RC Beams Utilizing Spent Garnet as a Replacement for Fine Aggregate	[103]
14	Zakaria *et al.,*	Optimization of Process Parameters of Immobilized Escherichia Coli for Cyclodextrin Production	[104]
15	Syahira *et al.,*	Design and Performance Analysis of Sound Source Localization using Time Difference of Arrival Estimation	[105]
16	Nazurah *et al.,*	HealthyHeart Data Visualization: Predicting Heart Condition Using Machine Learning	[106]
17	Kamis *et al.,*	Surface Refinement of Aluminium Oxide by Carbon-Based Reinforcement	[107]
18	Sulong *et al.,*	Photodegradation Mechanism of Biopolymer Blended with High Density Polyethylene (HDPE)	[108]
19	Ramli *et al.,*	Characterization of Aluminium-Magnesium (Al-Mg) Alloy Reinforced with Strontium (Sr) by Casting Technique	[109]
20	Mydin *et al.,*	Sustainable Lightweight Foamed Concrete using Hemp Fibre for Mechanical Properties Improvement	[110]

In the Journal of Advanced Research in Numerical Heat Transfer, the article with the title "CFD Simulation of Forced Convection Heat Transfer Enhancement in Pipe Using Al2O3/Water Nanofluid" written by Elfaghi *et al*., [111] became the most cited article with a total of 40 citations (see Table 6).

Table 6
Top cited articles published in the Journal of Advanced Research in Numerical Heat Transfer based on Scopus database in 2022-2024

No	Author	Title	Ref.
1	Elfaghi *et al.,*	CFD Simulation of Forced Convection Heat Transfer Enhancement in Pipe Using Al2O3/Water Nanofluid	[111]
2	Mahat *et al.,*	MHD Mixed Convection of Viscoelastic Nanofluid Flow due to Constant Heat Flux	[112]
3	Niknahad and Khoshnevis	Numerical Study and Comparison of Turbulent Parameters of Simple, Triangular, and Circular Vortex Generators Equipped Airfoil Model	[113]
4	Bakar and Soid	MHD Stagnation-Point Flow and Heat Transfer Over an Exponentially Stretching/Shrinking Vertical Sheet in a Micropolar Fluid with a Buoyancy Effect	[114]
5	Abidin *et al.,*	Oscillatory Mode of Darcy-Rayleigh Convection in a Viscoelastic Double Diffusive Binary Fluid Layer Saturated Anisotropic Porous Layer	[115]
6	Bahambary and Fleck	A Study of Inflow Parameters on the Performance of a Wind Turbine in an Atmospheric Boundary Layer	[116]
7	Kotnurkar and Beleri	Peristaltic Transport of Ellis Fluid Under the Influence of Viscous Dissipation Through a Non-Uniform Channel by Multi-Step Differential Transformation Method	[117]
8	Tan *et al.,*	Study of Self Diffusion of Nanoparticle Using Dissipative Particle Dynamics	[118]
9	Ramanuja *et al.,*	Effect of Chemically Reactive Nanofluid Flowing Across Horizontal Cylinder: Numerical Solution	[119]
10	Kotnurkar and Kallolikar	Effect of Surface Roughness and Induced Magnetic Field on Electro-Osmosis Peristaltic Flow of Eyring Powell Nanofluid in a Tapered Asymmetric Channel	[120]
11	Qing *et al.,*	CFD Simulation analysis of Sub-Component in Municipal Solid Waste Gasification using Plasma Downdraft Technique	[121]
12	Tripathi and Saifi	Marangoni Convection in Liquid Bridges due to a Heater/Cooler Ring	[122]
13	Omar *et al.,*	Analytical Solution on Performance of Unsteady Casson Fluid with Thermal Radiation and Chemical Reaction	[123]
14	Razali *et al.,*	Influence of Volume Fraction of Titanium Dioxide Nanoparticles on the Thermal Performance of Wire and Tube of Domestic Refrigerator Condenser Operated with Nanofluid	[124]
15	Loni *et al.,*	Nusselt Number Prediction for Oil and Water in Solar Tubular Cavity Receivers	[125]
16	Isa *et al.,*	Soret-Dufour Effects on Heat and Mass Transfer of Newtonian Fluid Flow over the Inclined Sheet and Magnetic Field	[126]
17	Ng	A 3D Mesh-Less Algorithm for Simulating Complex Fluid Structure Interaction (FSI) Problem involving Free Surface	[127]
18	Lam *et al.,*	Validity of Performance Factors used in Recent Studies on Heat Transfer Enhancement by Surface Modification or Insert Devices: Constant Heat Flux Case	[128]
19	Rashid *et al.,*	A Numerical Study of a Square Cell Filled with Ice with the Presence of Different Length Slit Inside the Cell	[129]
20	Selamat *et al.,*	Modelling of the Flame Synthesis of Single-walled Carbon Nanotubes in Non-premixed Flames with Aerosol Catalyst	[130]

Finally, in the Journal of Advanced Research in Micro and Nano Engineering, the article most cited was the article written by Abu Bakar *et al*., [131] with the title "Stability Analysis on Mixed Convection Nanofluid Flow in a Permeable Porous Medium with Radiation and Internal Heat Generation" (see Table 7). This paper has been cited 13 times.

Table 7
Top cited articles published in the Journal of Advanced Research in Micro and Nano Engineering based on Scopus database in 2022-2024

No	Author	Title	Ref.
1	Abu Bakar *et al.,*	Stability Analysis on Mixed Convection Nanofluid Flow in a Permeable Porous Medium with Radiation and Internal Heat Generation	[131]
2	Sharafatmandjoor and Nor Azwadi	Effects of The Optimal Imposition of Viscous and Thermal Forces on Spectral Dynamical Features of Swimming of a Microorganism in Nanofluids	[132]
3	Abu Bakar *et al.,*	Mixed Convection Hybrid Nanofluid Flow past a Stagnation-Point Region with Variable Viscosity and Second-Order Slip	[133]
4	Bryant and Ng	Numerical Modelling of Hydraulic Jump Using Mesh-based CFD method and Its Comparison with Lagrangian Moving-Grid Approach	[134]
5	Elfaghi *et al.,*	CFD Simulation of Forced Convection Heat Transfer Enhancement in Pipe Using Al2O3/Water Nanofluid	[135]
6	Hashim *et al.,*	Natural Convection in Trapezoidal Cavity containing Hybrid Nanofluid	[136]
7	Samat *et al.,*	Carbon Nanotubes (CNTs) Nanofluids Flow and Heat Transfer under MHD Effect over a Moving Surface	[137]
8	Bakar and Soid	MHD Stagnation-Point Flow and Heat Transfer Over an Exponentially Stretching/Shrinking Vertical Sheet in a Micropolar Fluid with a Buoyancy Effect	[138]
9	Peron *et al.,*	Insights into the Pharmacognostic Elucidation of Harumanis Mango (Mangifera Indica Linn.) Leaves Extracts as Therapeutic Agent	[139]
10	Yousri *et al.,*	CFD Based on The Visualisation of Aortic Valve Mechanism in Aortic Valve Stenosis for Risk Prediction at The Peak Velocity	[140]
11	Jamil *et al.,*	Non-Destructive Testing (NDT) Method for Defect Detection in Glass Fibre-Reinforced Plastic/Polymer (GFRP/GRP) Composite Materials Structures: A Review	[141]
12	Azman *et al.,*	The Effect of Isothermal Aging on the Intermetallic Growth between SN100C Lead-Free Solders and ENIG Surface Finish	[142]
13	Zul *et al.,*	Superhydrophobic Surface of Ti6Al4V using Direct Nanosecond Laser Texturing	[143]
14	Rosman *et al.,*	An Investigation of the Effect of Wide Range Gamma Radiation from Nanoindentation of the SAC305 Solder Alloy	[144]
15	Hisham *et al.,*	Comparison of Conventional CNN Sequential API and Functional API for Microalgae Identification	[145]
16	Sopian *et al.,*	Polydimethylsiloxane-coated Fiber Bragg Grating as a Bend Sensor	[146]
17	Pirjade *et al.,*	Photocatalytic Degradation of Methylene Blue Dye by Using Different Nanoparticles	[147]
18	Pirjadee *et al.,*	Photocatalytic Degradation of Methylene Blue and Methyl Orange Dye by Using the Core-Shell Structure of Fe3O4@ZnS Nanoparticles	[148]
19	Samylingam *et al.,*	Enhancing Lubrication Efficiency and Wear Resistance in Mechanical Systems through the Application of Nanofluids: A Comprehensive Review	[149]
20	Zulkarnain *et al.,*	Identification and Analysis of Micro-Doppler Signature of a Bird Versus Micro-UAV	[150]

3.3 Data Collection Results Matrix

Based on the results of data collection using the Publish or Perish application, results were obtained as shown in Table 8. Based on Table 8, the publication years of the collected articles were from 2009-2024, with a total of 370 articles. The average number of citations per paper is 10.68, while the average number of citations per author is 263.53 citations. However, please note that the data may differ depending on the application and keywords used in collecting article data.

Table 8
Matrix of article data collection results by publish or publish

No	Result	Description
1	Publication years	2009-2024
2	Citation years	15(2009-2024)
3	Papers	370
4	Citations	3953
5	Cites/year	263.53
6	Cites/paper	10.68
7	Authors/paper	3.68
8	h-index	28
9	g-index	40

3.4 Development of Publications Per Year

The number of publications per year, namely from 2009 - 2024, based on the data obtained, is presented in Table 9. Meanwhile, the development of publications from 2009 to 2024 is presented in Figure 3.

Table 9
Development of publications per year

No	Years	Total/years
1	2009	2
2	2010	9
3	2011	4
4	2012	6
5	2013	6
6	2014	6
7	2015	0
8	2016	1
9	2017	0
10	2018	4
11	2019	45
12	2020	75
13	2021	50
14	2022	79
15	2023	66
16	2024	17
Total		370

Based on Table 9 and Figure 3, 2022 is the year with the highest number of publications, namely 79 articles. From the period 2009 to 2024, there were years where no publications were detected by the publish or perish application, namely 2015 and 2017, where the number of publications was 0 publications. At the beginning of the year (2009-2018), the number of scientific publications did not exceed 10 publications/year. However, things are different when we enter 2019-2024, where the number of scientific publications reaches more than 40 publications/year (> 40 publications/year).

Based on Figure 3, the development of scientific publications fluctuates annually (experiencing ups and downs). The decrease in the number of publications occurs quite frequently, such as the decrease in the number of publications that occurred in 2023, where in the previous year, namely 2022, the number of publications reached 79 articles/year, whereas in 2023 it was only 66 articles per year. Even so, the vibrant science of publishing has also experienced an increase in the number

of publications for 3 consecutive years, namely in 2018 – 2020, with each number of articles, namely 2018 as many as 4 articles, 2019 as many as 45 articles, and 2020 as many as 75 articles.

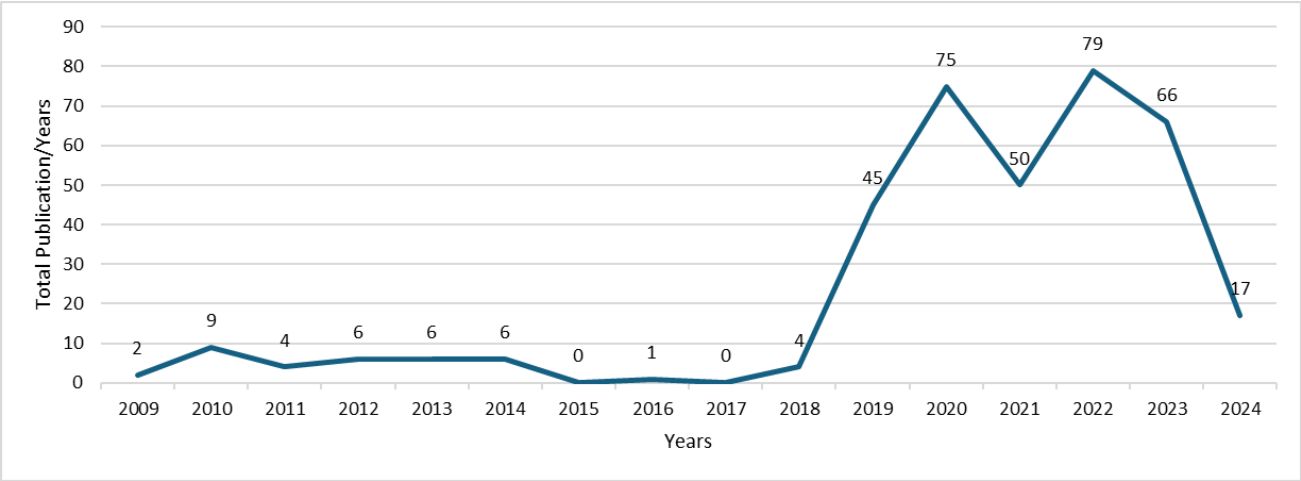

Fig. 3. Development of scientific publications per year

3.5 Articles with the Highest Number of Citations

It has been explained previously, namely in the data search results matrix section that articles on the science of publishing are always cited by other authors with an average number of citations per year of 263.53. Based on this matrix data, in this section, we will describe the articles that have the highest number of citations. Table 10 shows the 15 articles with the highest number of citations. Based on Table 10, the paper written by Meile *et al*., [151] with the title "Experiments and numerical simulations on the aerodynamics of the Ahmed body" took first place with a total of 128 citations. Meanwhile, the fifteenth position with a total of 42 citations is occupied by an article written by Wahba *et al.,* [165] with the title "Aerodynamic drag reduction for ground vehicles using lateral guide vanes".

Based on the results shown in Table 10, although only 15 articles were sampled to see the number of citations, none of the fifteen articles had many citations below 10 citations, and almost all the articles sampled had as many citations as 40 citations or more.

Table 10
Fifteen articles with the highest number of citations

Cites	Authors	Title	Year	Ref.
128	Meile *et al.,*	Experiments and Numerical Simulations on the Aerodynamics of the Ahmed Body	2011	[151]
96	Ahmad *et al.,*	Mesh Optimization for Ground Vehicle Aerodynamics	2010	[152]
66	Yusuf *et al.,*	A Short Review on Rans Turbulence Models	2020	[153]
66	Teh and Asghar	Three Dimensional MHD Hybrid Nanofluid Flow With Rotating Stretching/Shrinking Sheet and Joule Heating	2021	[154]
96	Ahmad *et al.,*	Mesh Optimization for Ground Vehicle Aerodynamics	2010	[152]
66	Yusuf *et al.,*	A Short Review on Rans Turbulence Models	2020	[153]
66	Teh and Asghar	Three Dimensional MHD Hybrid Nanofluid Flow with Rotating Stretching/Shrinking Sheet and Joule Heating	2021	[154]
58	Khashi'ie *et al.,*	Stagnation Point Flow of Hybrid Nanofluid over a Permeable Vertical Stretching/Shrinking Cylinder with Thermal Stratification Effect	2020	[155]
56	Perumal and Dass	Simulation of Incompressible Flows in Two-Sided Lid-Driven Square Cavities.: Part I-FDM	2010	[156]

Table 10 (continue)
Fifteen articles with the highest number of citations

Cites	Authors	Title	Year	Ref.
52	Saqr *et al.,*	Numerical Simulation of Confined Vortex Flow Using a Modified k--ϵ Turbulence Model.	2009	[157]
48	Gad *et al.,*	A new design of Savonius wind turbine: numerical study	2014	[158]
47	Nemati and Moghimi	Numerical study of flow over annular-finned tube heat exchangers by different turbulent models	2014	[159]
47	Anuar *et al.,*	Effect of suction/injection on stagnation point flow of hybrid nanofluid over an exponentially shrinking sheet with stability analysis	2019	[160]
46	Hassan *et al.,*	Numerical investigation of medium range re number aerodynamics characteristics for NACA0018 air foil	2014	[161]
46	Siswantara *et al.,*	Assessment of turbulence model for crossflow pico hydro turbine numerical simulation	2018	[162]
46	Pathan *et al.,*	Investigation of base pressure variations in internal and external suddenly expanded flows using CFD analysis	2019	[163]
43	Khan *et al.,*	Analysis of area ratio in a CD nozzle with suddenly expanded duct using CFD method	2019	[164]
42	Wahba *et al.,*	Aerodynamic drag reduction for ground vehicles using lateral guide vanes	2012	[165]

3.6 Data Visualization

Data visualization is carried out using the VOSviewer application. Data visualization takes several terms in the keywords and abstract of each article. Binary counting is used as a method to count each occurrence of terms. Ten was chosen as the minimum number of occurrences of the term. Based on the results of data processing, 3 forms of visualization were obtained, namely network visualization (Figure 4), overlay visualization (Figure 5), and density visualization (Figure 6).

Network visualization shown in Figure 4 is used to display the relationships between items (keywords) in network form [166]. In this visualization, there are several points that we found, such as:

i. Nodes: Represent individual items.
ii. Edges: Connect nodes and show relationships or associations between them (for example, collaboration between authors or co-occurrence of keywords).
iii. Clusters: A collection of closely related items, usually marked with different colors to make it easier to identify significant groups in the network (the clusters obtained will be explained in the cluster section).

Based on Figure 4, keywords and abstracts are connected to produce 4 clusters with a total of 33 items which will be explained in the cluster section resulting from network visualization. Apart from that, Figure 4 also shows that flow, effect, and study are terms that are widely used in articles published by Semarak Ilmu, both used as keywords and in abstracts.

In contrast to network visualization, the overlay visualization shown in Figure 5 is used to see how networks or relationships between items change over time or other attributes. Apart from that, through this form of visualization, we can get some information such as:

i. **Color:** Nodes are colored based on certain attributes, for example, year of publication or frequency of keyword use. This way, you can see how the network or relationships between items change over time or other attributes.
ii. **Color gradients:** The colors used often indicate a scale of attributes, for example from cooler colors for older years to warmer colors for newer years.

iii. **Trend analysis:** Helps identify trends in data, such as the increase or decrease in popularity of a research topic over time.

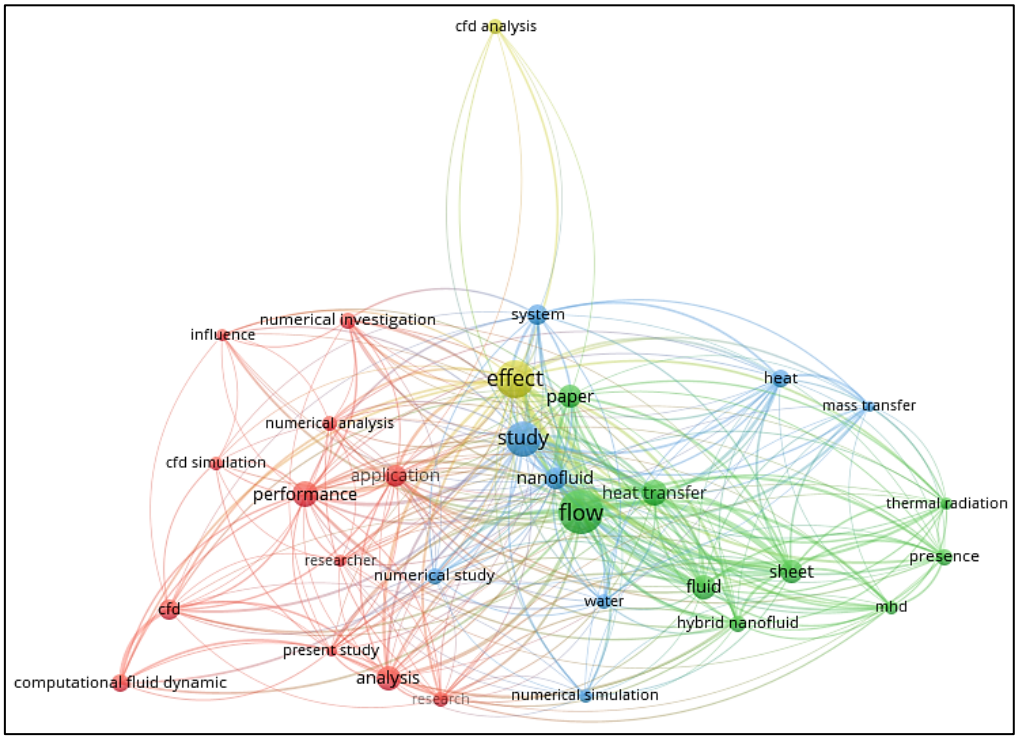

Fig. 4. Network visualization

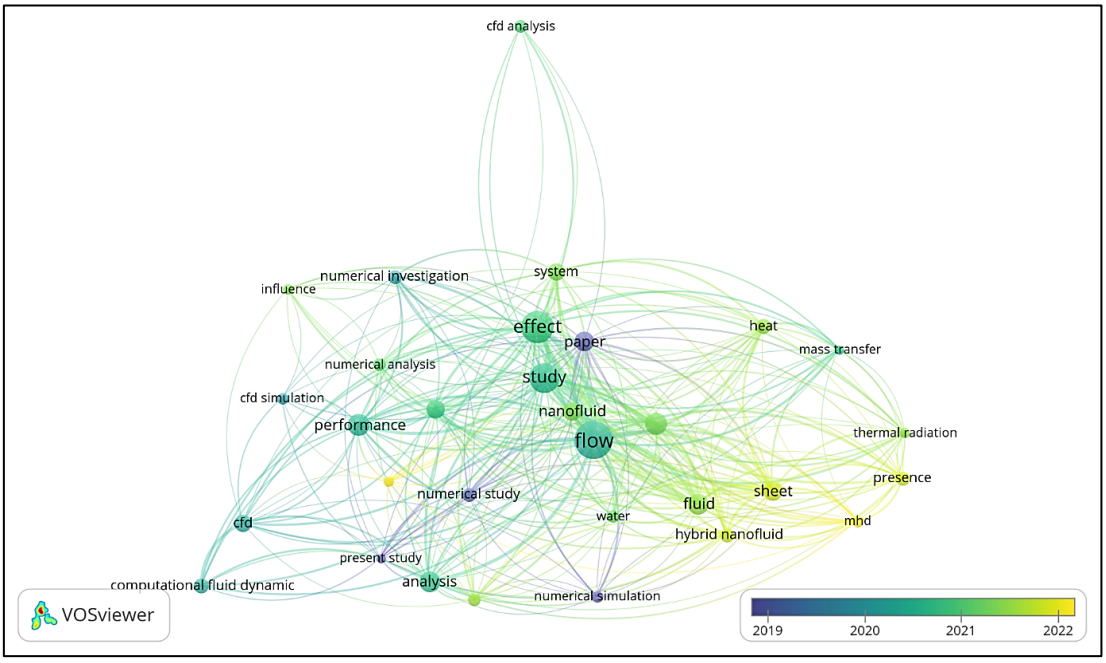

Fig. 5. Overlay visualization.

Based on Figure 5, the terms sheet, presence, mhd, and hybrid nanofluid are terms that have been widely used recently, especially in 2022. Meanwhile, terms that are widely used in 2019 include numerical simulation, numerical study, present study, and papers. In 2020 - 2021, researchers who published articles in Semarak Ilmu often used the terms flow, effect, study, performance, CFD, computational fluid dynamics, analysis, and mass transfer.

Meanwhile, the density visualization shown in Figure 6 is used to provide an overview of the density or intensity of distribution of items in a network or to show areas in a network where there is a high concentration of items or relationships. High density is indicated by more intense or bright colors.

Based on Figure 6, the terms that are still hotly used by researchers who publish articles in Semarak Ilmu are effect, study, nanofluid, and flow. This is proven by the bright colors that underlie/contain these terms. Meanwhile, a term that is rarely used when seen in Figure 6 is CFD analysis.

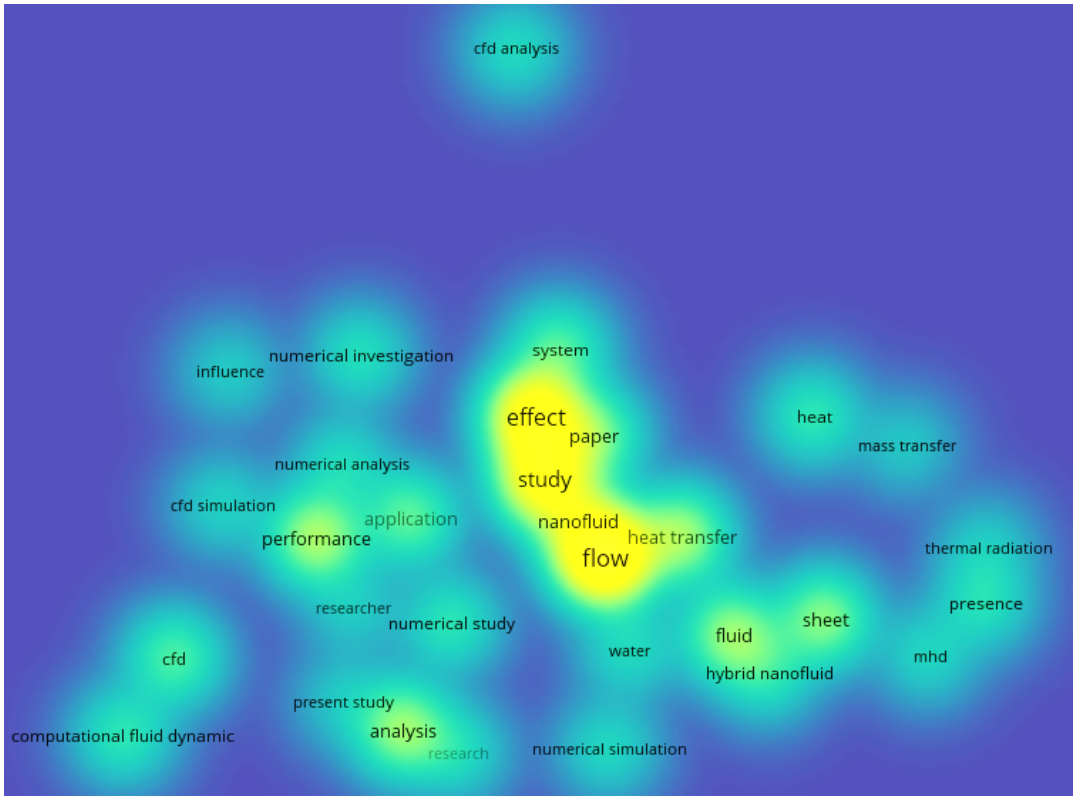

Fig. 6. Density visualization

3.7 Cluster: Network visualization

From the results of visualizing the data using network visualization, we will see several clusters. Based on Figure 4, there are 4 clusters produced with a total of 31 items. The items from each cluster are explained in Table 11.

Table 11
Cluster visualization network results

Cluster	Color	Items	Total Item
1	Red	Analysis, application, CFD, CFD simulation, computational fluid dynamic, influence, numerical analysis, numerical investigation, performance, present study, research, and researcher	12
2	Green	Flow, fluid, hear transfer, hybrid nanofluid, mhd, paper, presence, sheet, and thermal radiation	9
3	Blue	Heat, mass transfer, nanofluid, numerical simulation, numerical study, study, system, and water	8
4	yellow	CFD analysis, and effect	2

4. Conclusions

The bibliometric analysis carried out has provided valuable insights into the contribution of these publishers in the current scientific ecosystem. Based on the research results, it was found that Semarak Ilmu Publishing has succeeded in gaining a place in the scientific publishing arena. Their productivity, although still in its early stages, shows potential for significant growth in the future. This is proven by the number of articles they published in 2019 - 2024 which reached more than 40 articles (>40 articles), with the number of articles per year being 45 articles in 2019, 75 articles in 2020, 50 articles in 2021, 2022 will have 79 articles, 2023 will have 66 articles, and 2024, although it is still early in the year, the number of publications will have reached 17 articles.

The quality of the publications published also shows consistency and relevance with the latest developments in the fields of science and engineering, where the average annual citations (2009-2024) reached 263.53 with an average citation/paper of 10.68. Apart from that, the article with the most citations can reach 128 citations (2009-2024).

Although Semarak Ilmu Publishing has built several collaborations with researchers and institutions, there is room to expand its collaboration network. By engaging more quality researchers and institutions, these publishers can significantly increase the visibility and impact of their publications.

Monitoring and evaluation of the impact of publications from Semarak Ilmu Publishing in the long term needs to be carried out continuously. Ongoing evaluation is needed to understand how their contributions evolve. This will enable these publishers to adapt their strategies and maximize their positive impact in supporting scientific research and development.

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