Bibliometric Insights and Systematic Review of Research Literature: The Role of Financial Literacy in Growth of **SMEs**

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Abstract: In recent years, there has been substantial research dedicated to financial literacy towards small & medium sized enterprises. This body of work examines how financial knowledge influences the management and success of these businesses. Designated research studies from 2017 to 2024 were analyzed using the Web of Science database. Key significant trends and research developments were identified through the use of VOS viewer software for co-occurrence and co-citation analysis. To establish current trends & prospective future directions, the results of the bibliometric analysis were incorporated into a systematic review. Major research efforts focused on managers' intangible skills and their impact on financial literacy within SME sustainability. The journal Sustainability emerged as most significant source, with 163 citations, and Ying et al. were identified as the most significant authors. Cooccurrence analysis highlighted three primary research disciplines: management and performance, innovation and sustainability, and finance and growth. Additionally, four topics were identified through co-citation analysis: financial management, sustainability and innovation, financial success and resource acquisition, and financial literacy and performance. Future research should address SME risk management, regulatory issues, the significance of fintech in decisions of financing, innovative funding methods, the effect of social & human capital on finance, & women's financial literacy in SMEs. Thus, the study provides comprehensive insights in emerging discipline of financial literacy within SMEs.

Keywords: Financial Literacy, Economic Growth, SMEs, Bibliometric analysis, Systematic Literature analysis.

Introduction

Financial literacy (FL) is important for economic prosperity, upgrading skills like budgeting, investment, borrowing, tax planning, and personal financial management. It enables well-informed financial decisions, economic stability, and sustainable growth (Chen & Volpe, 1998; Hou et al., 2024). However, demographic disparities affect FL ratings, with women, young adults, and the less educated scoring lower (Karakurum-Ozdemir, 2019). Initiatives like Radical Adult Education programs and organizations such as Junior Achievement Worldwide promote FL and highlight the need for targeted educational efforts to develop FL across communities (Cook, 2006; Dell & Mahadeva, 2009; Sukarieh & Tannock, 2009).

Financial literacy (FL) is vital for SMEs, enhancing financial management, funding access, and informed decision-making, thus driving sustainable entrepreneurship and growth of economy (Burchi et al., 2021; Grana-Alvarez et al., 2024). Despite higher FL among entrepreneurs, legislation and training are needed to improve FL and reduce business failures (Munoz-Cespedes et al., 2023; Memory & Ashley, 2023). Digital financial capabilities further enhance SME performance (Gosal & Nainggolan, 2023; Tubastuvi & Purwidianti, 2023).

Grana-Alvarez et al. (2022) analysed 63 papers on financial literacy in SMEs, identifying educational, cultural, and contextual factors as key antecedents, and financial attitudes, behaviours, and SME success as outcomes. Molina-García et al. (2022) examined 88 studies, highlighting topics like performance, financial access, and entrepreneurship, and noted a lack of empirical research. Damayanti et al. (2018) emphasized historical context of FL towards SMEs but relied on qualitative methods, potentially introducing bias. Some studies focused solely on bibliometric or systematic analysis, with few covering both.

The present study analyses research on financial literacy (FL) and SME success from 2017-2024 using data from the Web of Science Core. Advanced bibliometric techniques, including analysis of co-occurrence & cocitation, were employed to identify key research themes and theoretical foundations such as the Pecking Order Theory/ ResourceBased View/TradeOff Theory/ Planned Behaviour Theory& Upper Echelon Theory. The study provides a comprehensive framework for future research, highlighting the importance of integrating FL knowledge for SMEs. It critically assesses current literature, identifies key themes and gaps, and suggests areas for further investigation, enhancing our understanding of FL's impact on SMEs.

Methodology

The study starts by identifying goals and research questions (Figure 1) and then used a search and filtration approach to evaluate relevant studies. It employed a dual method combining bibliometric analysis with systematic review of literature. Analysis of Bibliometricoffers strong quantitative evaluation but lacks qualitative depth, while systematic reviews provide qualitative insights but may lack quantitative rigor and be subject to biases (Roberto et al.,2016; Rob et al.,2022). This combined approach balances quantitative mapping and qualitative evaluation, offering a comprehensive assessment of research on SMEs and financial literacy.

Research questions

These questions are designed to show a thorough comprehension of discipline, (Research Questions=RQ)

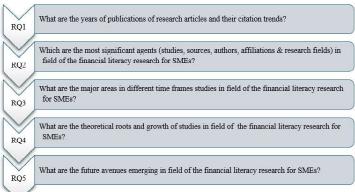


Figure 1: Research questions

Objectives

- a. Examine the historical distribution and citation patterns of financial literacy research in SMEs.
- b. Provide a comprehensive list of the most significant research, sources, authors, affiliations and research areas in the realm of financial literacy specifically on SMEs.
- c. Examine the primary study domains, fundamental principles and development of research investigations in financial literacy for SMEs during various time periods.
- d. Identify prospective areas of future study in the domain of financial literacy for SMEs.
- e. Examine changes in the emphasis of study and the emergence of new subjects over a period.

Search and Filtration Strategy

The first step is a thorough search and filtering, as outlined by Green (2020) and shown in the PRISMA framework (Page et al., 2020). This approach uses well-chosen keywords to search databases, ensuring comprehensive retrieval by including synonyms and spelling variations.

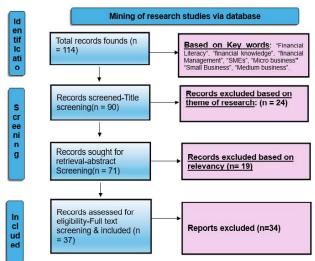


Figure 2: Prisma Framework showing the process of identification of studies for analysis with keywords and inclusion exclusion criteria of the study

Source: Author

The PRISMA framework (Figure 2) documents each review stage, ensuring transparency and replicability, and graphically depicts records identified, inspected, and included for analysis.

Bibliometric analysis & systematic literature analysis

37 papers from Web of Science (2017-2024) based on methods by Alvareza et al. (2022), Garcia et al. (2023 The paper uses analysis of bibliometrics &review of systematic literatureto examine research questions (Figure 1), selecting), and Goyal and Kumar (2020).

Bibliometrics, including citation analysis and science mapping, serves as quantitative toolto evaluate research performance & scientific domains (Mota et al., 2024). This approach is effective in natural, applied, and behavioural sciences, with significant socio-economic implications (Anthony & Raan, 2014; Zamorano et al., 2023). The study conducted citation analysis to identify patterns, key papers, sources, authors, affiliations, and research areas in financial literacy among SMEs (RQ1, RQ2). To address primary research questions (RQ3) and theoretical underpinnings (RQ4), co-occurrence of keywords&referenced co-citation are analysed using VOS viewer 1.6.20, known for its userfriendly, multi-platform support and superior visualizations (JMLA, 2022; Van Eck & Waltman, 2010; Van Eck & Waltman, 2017).

Systematic literature reviews aim to find all relevant research on a topic, minimizing biases and using meta-analysis (Nightingale, 2009; Varsha et al., 2024). This study reviews literature based on clusters identified through keyword cooccurrence and co-citation analysis. Domainbased reviews focus on primary factors (RQ3), while theoretical reviews examine theoretical foundations (RQ4). Combining bibliometric analysis and systematic review identifies research structure and theoretical background, establishing a comprehensive framework on SME financial literacy (RQ5) and determining future research directions (RQ6).

Bibliometric Analysis

Years of publications of research articles and their citation trends

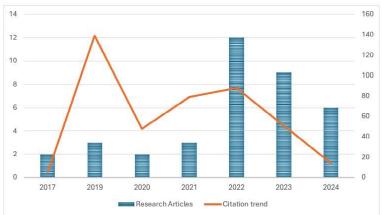


Figure 3: No. of Research Articles per year n=37 & their citation trends.

Source: Author

Figure 3 (RQ1) displays annual research articles and citation trends from 2017 to 2024. A surge in publications in 2022 (8 articles) and consistent output in 2023 (6 articles) indicate growing interest in financial literacy (FL) and SMEs. While publication numbers vary yearly, citation patterns don't always correlate directly. Citations peaked

in 2018 with 12, emphasizing the significance of FL studies for SMEs. The upward trajectory in publications and citations from 2017 to 2024 suggests increasing recognition of FL's importance for SMEs. These insights can help SMEs improve financial management, boost performance, and achieve sustainable growth.

Continued focus on research, education, and policy support will enhance FL's impact on SME success. The consistent publication volume in 2022-2024 establishes a strong foundation for potential future citation increases.

Most significant studies in field of the financial literacy research for SMEs

The area of FL research in SMEs has gained considerable focus recently, as highlighted in Table 1 (RQ2). Prominent studies emphasize FL's critical role in enhancing SME performance, sustainability, and innovation. Ying et al. (2019), Ye and Kulathunga (2019), and Lema et al. (2021) collectively underscore FL's importance in achieving sustained competitive performance, sustainability, and innovation. Ying et al. (2019) highlights the significance of intangible-skills like FL in resource acquisition & competitive performance. Ye and Kulathunga (2019) link FL to sustainability in SMEs in developing nations, arguing it improves financial decision-making and risk management. Lema et al. (2021) find that CEO

FL reduces financial constraints & boosts innovation in Spanish SMEs. Tian et al. (2022) emphasize executive FL's role in fostering corporate innovation in China, while Liu et al. (2021) connect entrepreneurial FL to increased innovation in SMEs. Andriamahery and Qamruzzaman (2022) explore FL's impact on women's empowerment through entrepreneurial growth. Seraj et al. (2022) revealed the impact of entrepreneurial resilience in connecting FL to satisfactory results in Saudi Arabia. Shah et al. (2021) examines senior executives' FL and its influence on innovation in SMEs within China Pakistan Economic Corridor. Stefani et al. (2020) proposes innovative financial strategies to support SME innovation. García et al.(2023) conduct a bibliometric analysis, identifying key patterns and suggesting future research areas. These studies collectively highlight FL's crucial role in improving SME performance, sustainability, and innovation, offering valuable insights for policy-making and practical implementation.

Table 1: Most significant studies in area of the financial literacy research for **SMEs** (Total citations= TC)

Title of the studies	Authors	TC	
The Role of a Manager's Intangible Capabilities in Resource Acquisition and Sustainable Competitive Performance	Ying et al. (2019)	69	
How Does Financial Literacy Promote Sustainability in SMEs? A Developing Country Perspective	Ye et al. (2019)	59	
Analysing the roles of CEO's financial literacy and financial constraints on Spanish SMEs technological innovation	Lema et al. (2021)	41	
Do Access to Finance, Technical Know-How, and Financial Literacy Offer Women Empowerment Through Women's Entrepreneurial Development?	Andriamahery and Qamruzzaman (2022)	27	
Entrepreneurial Competency, Financial Literacy, and Sustainable Performance-Examining the Mediating Role of Entrepreneurial Resilience among Saudi Entrepreneurs	Seraj, Fazal and Alshebami (2022)	26	
Executive financial literacy and firm innovation in China	Tian et al. (2022)	25	
New tools and practices for financing novelty: a research agenda	Stefani et al. (2020)	23	
The impact of entrepreneurs' financial literacy on innovation within small and medium-sized enterprises	Liu et al. (2021)	20	
Top managers' attributes, innovation, and the participation in China-Pakistan E conomic Corridor: A study of energy sector small and medium-sized enterprises	Shah et al. (2021)	18	
Financial literacy in SMEs: a bibliometric analysis and a systematic literature review of an emerging research field	Garcia et al. (2023)	15	

The studies are arranged as the total no. of the citations from Web of Science Core Source: Author

Most significant sources in field of the financial literacy research for SMEs

Table 2 summarizes journals' citation impacts, content outcomes, ratings, and significance in financial literacy studies for SMEs (RQ2).

The journal Sustainability has the highest citation impact with 163 citations over six publications, indicating substantial influence. Technology in Society has 41 citations from a single source, showing high esteem. The Pacific-Basin Finance Journal received 25 citations for one article, and Frontiers in Psychology garnered 32 citations from four papers, indicating consistent influence.

The SJR indicator rates scholarly journals by citation weighting and eigenvector centrality, emphasizing scientific impact over the Journal Impact Factor (Pereira et al., 2009). Journal Impact Factor measures how often an average publication is cited annually, published by Clarivate in Web of Science reports (Sharma, 2022). ABDC rankings and quartile rankings (Q1-Q4) assess journal quality and impact. Technology in Society has the highest SJR (0.748) and is Q1, indicating top-tier status. Pacific-Basin Finance Journal also has a high SJR (1.137)

and an 'A' ranking. European Journal of Innovation Management has a high JIF (6.88) and is Q1. International Small Business Journal is 'A' ranked with a strong SJR (0.905). Frontiers in Psychology is Q2 with an SJR of 0.800. Sustainability is Q2, indicating excellence but not top-tier.

The numerous publications indicate that financial literacy (FL) for SMEs spans multiple disciplines. High citation counts and quality rankings reflect the research's high calibre. The increasing importance of Sustainability highlights the connection between FL & sustainability concerns towards SMEs. Frontiers Psychology underscores the role of behavioural and cognitive aspects. Journals like European Journal of Innovation Management and Technology in Society explore innovative and technical methods, while the Pacific-Basin Finance Journal focuses on finance research. Managerial & Decision Economics & Baltic Journal Management incorporate management perspectives. Overall, FL research in SMEs emphasizes sustainability, innovation, psychology, finance, management and more.

Table 2: Most significant sources the field of the financial literacy research for SMEs. (Total citations=TC, Total documents=TD, Years=N, SCImago-Journal Rank=SJR, Journal Impact Factor=JIF, Australian Business Deans Council ranking=ABDC, Quartiles ranking=Q)

Title of the sources	TC	TD	N	SJR/JIF/ABD C or Q
Sustainability	163	6	2019, 2019, 2022, 2022, 2023, 2023	0.548/3.3/Q2
Technology in Society	41	1	2021	0.748/3.2/Q1
Frontiers in Psychology	32	4	2022, 2022, 2022, 2022	0.800/2.89/Q2
Pacific-Basin Finance Journal	25	1	2020	1.137/2.3/A
European Journal of Innovation Management	23	1	2020	1.142 /6.88/Q1
International Small Business Journal-Researching Entrepreneurship	20	1	2021	0.905/4.2/A
Managerial and Decision Economics	18	1	2021	0.685/1.8/B
Review of Managerial Science	15	1	2023	1.014/3.6/B
Baltic Journal of Management	12	1	2022	0.487/1.5/C
Journal of Small Business Management	12	1	2024	0.982/3.5/A

The sources are arranged in total no. of citations, total no. of documents, years of publication, SJR/JIF/ABDC AND Q from Web of Science Core

Source: Author

Most significant Authors, Affiliations, Research area in field of the financial literacy research for SMEs.

Table 3 (RQ2) summarizes authors, affiliations, and research areas. The most cited work (69 citations) is by Ying et al. (2019) from Sichuan University and Hamdard University. The second most cited (59 citations) is by Ye and Kulathunga (2021) from Wuhan University of Technology and Uva Wellassa University. Environmental Sciences & Ecology received 169 citations across 7 articles, while Business & Economics garnered 164 citations over 16 works. Science & Technology -Other Topics covered 6 publications with 163 citations. Sichuan University and the University of Malaga appear twice in the top 10 institutions. The table shows global research collaborations among institutions from China, Pakistan, Spain, Germany, and the U.S. Interdisciplinary research integrates fields like Business & Economics with Mathematical Methods and Environmental Sciences with Science & Technology. Emerging fields such as Social Issues and Social Sciences indicate growing interest and impactful recent research.

Table 3: Most significant Authors, Affiliations, Research area in field of the financial literacy research for SMEs. (Total citations=TC, Total documents=TD)

Authors (Aur)	Affiliations (Af)	TC (Au,	TD(Au,	Research Area (RA)	TC (RA)	TD (RA)
Ying etal.	Sichuan University, Hamdard University	69	1	Science & Technology - Other Topics, Environmental Sciences & Ecology	163	ė
Ve et al.	Wuhan University of Technology; Uva Wellassa University	59	(1)	Business & Economics	160	15
García-Pérez-de- Lema et al	Universidad Politecnica de Cartagona; Universidad de Malaga	41	*	Social Issues; Social Sciences - Other Topics	41	*
Andriamahery, A; Qamruzzaman, M	Hubel Polytechnic University; United International University (UIU)	27	*	Psychology	32	4
Sens/etal.	King Falsal University: Fing Falsal University: King Falsal University: Universit Kebangsaan Malaysia; King Falsal University	26	1	Area Studies: Government & Law	11	Ti.
Tien et al	North China Electric Power University: Contral University of Finance & Economics: Fudan University: Contral University of Finance & Economics	25	t	Environmental Sciences & Ecology	6	*
Stefani et al.	University of Konstanz, Partherope University Napies, Universites de Strasbourg Etablissements Associes, Universite de Strasbourg	23	*	Business & Economics, Mathematical Methods in Social Sciences	4	2
Du et al	Sichuan University: Sun Yat Sen	20		Computer Science	3	11:

Shah et al.	International Islamic University, Pakistan; Witten Herdecke University	18	1	Engineering	2	1
Molina-García et al.	Universidad de Malaga	15	1	Information Science & Library Science; Business & Economics	1	1

The Authors, Affiliations and Research area are arranged in citations, documents from Web of **Science Core**

Source: Author

Co- occurrence analysis of the studies in domain of the financial literacy research for SMEs

Co-occurrence analysis maps scientific topics by examining the frequency and relationships of author-defined keywords in publications, revealing main topics and intellectual structures within a study field (Klarin, 2024; Sedighi, 2016).

Figure 4 (RQ3) visualizes 61 keywords from 37 studies, forming a co-occurrence network on financial literacy among SMEs. Created using with node size indicating frequency and edge thickness representing co-occurrence strength, offering insights into the bibliometric landscape.

The structure features 3 central nodes: financial literacy, innovation, and performance, highlighting their significance in SMEs. 4 neighboring nodes include access to financial resources, emphasizing FL's role in funding; SMEs, showing the FL-SME connection; growth, indicating FL's correlation with SME expansion; and management, analyzing FL's role in SME

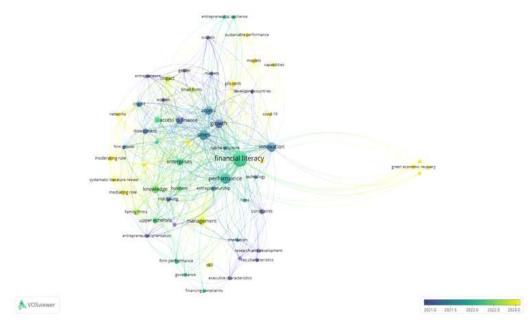


Figure 4: Overall Visualization of the author's co-occurrence analysis of keywords for studies in field of financial literacy research for SMEs using VOS viewer **Source:** Author

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The network is segmented into thematic groups using colour coding (Figure 5). The "Green Cluster" (2021-2022) includes nodes like "management," "firm performance," and "governance," focusing on SME internal management and governance, with subclustersmanagement practices and performance metrics. The "Yellow Cluster" (2022-2023) features "innovation," "green economic recovery," and "sustainable performance," indicating a shift towards sustainability and innovation, with subclusters- innovation and sustainability. The "Blue Cluster" (2021 and earlier) includes "access

to finance," "growth," and "entrepreneurship," focusing on traditional corporate expansion and entrepreneurial efforts, with subclustersfinancing and business growth. The network shows that financial literacy research for SMEs is multidisciplinary, covering management, finance, innovation, and sustainability. Understanding these relationships can help policymakers and educators develop targeted financial literacy initiatives, fostering sustainable growth and innovation in SMEs. This analysis highlights future research directions and practical applications for enhancing financial literacy in SMEs.

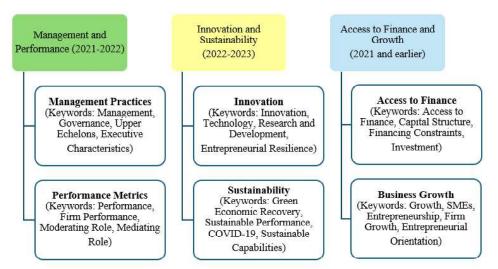


Figure 5: Cluster and Subclusters from keywords co-occurrence analysis Source: Author

Co- citation analysis for the studies in field of the financial literacy research for **SMEs**

Co-citation analysis quantifies how often two documents are referenced together, revealing their semantic correlation, identifying impactful research, and visualizing the organization of scientific domains (Hou et al., 2018; Salemi & Koosha, 2016).

Figure 6 (RQ3) visualizes a co-citation analysis using VOS viewer, examining 245 references commonly cited together in 37 studies. It maps connections between academic articles based on shared citations, focusing on financial literacy among SMEs. The image shows color-coded clusters representing interconnected topics within this domain.

In Figure 6, each node represents an academic publication or author, with larger nodes indicating more citations. Connections depict co-citations, with thicker lines showing stronger links. The visualization highlights prominent authors and works by node size and central cluster positions.

Huston (2018) holds a high position withtotal strength of the link- 387, indicating substantial impact. Ye and Kalathunga (2019) are also prominent with a link strength of 380. Lusardi and Mitchell (2014), with a link strength of 376,

explored FL and its effects. The VOS viewer visualization (Figure 7) shows clusters reflecting distinct themes in financial literacy for SMEs. The "Red cluster" focuses on consumer relations and financial management, highlighted by Huston (2010) and Remund (2010). The "Green cluster" covers sustainability and innovation in SMEs, with key citations like Ye and Kalathunga (2019) and Adomako et al. (2016). The "Blue cluster" examines financial success and access to resources, supported by Lusardi and Mitchell (2014) and Rooij

et al. (2011). The "Purple cluster" analyses financial literacy's impact on firm performance, referencing Fornell and Larcker (1981) and Henseler et al. (2015). This study highlights financial literacy's role in promoting sustainability, fostering innovation, and enhancing SME performance. Major journals include Journal of Small Business and Enterprise Development, Journal of Small Business Management, Journal of Management, Journal of Pension Economics and Finance & Journal of Business Venturing.

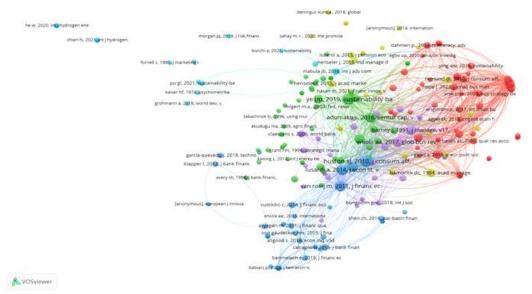


Figure 6: Overall Visualization of the cited referenced co-citation analysis for the studies in field of the financial literacy research for SMEs using VOS viewer

Source: Author

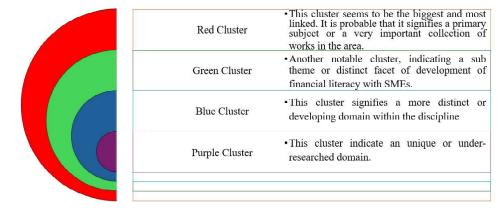


Figure 7: Major Clusters from cited reference co-citation analysis

Source: Author

The co-citation patterns reveal several theoretical frameworks in this sector. The Resource-Based View (RBV) examines financial literacy's impact on SME competitive advantage. Pecking Order and Trade-Off Theories explore capital structure and financing choices. Upper Echelon Theory studies SME leaders' financial knowledge, while Planned Behaviour Theory addresses financial decision-making behaviours in SMEs.

The co-citation analysis reveals interconnected network of studies on financial literacy and SMEs, highlighting key references and theoretical frameworks crucial for understanding FL's impact on SMEs and areas needing further inquiry.

Systematic literature review

Systematic review of literature using cooccurrence analysis metrics

With conducting a thorough bibliometric analysis with combining a systematic literature review, we meticulously structured our research around key clusters and sub-clusters defined by keyword occurrences, ensuring a comprehensive understanding (RQ3).

The first Green cluster identified management practices and performance metrics as subclusters. Intellectual capital and entrepreneurial resilience positively influenced resource acquisition and competitive performance, with business experience enhancing this relationship (Seraj et al., 2022; Ying et al., 2019). Executive FL improved performance of corporatethrough addressing financing issues & enhancing management of risk (Tian et al., 2022). FL positively affected financial access and risk management, while various factors influenced digitalization adoption, impacting SME performance &sustainability (Alshebami et al., 2022; Kurniasari et al., 2023). FL had a beneficial impact on sustained competitive performance, and this link was mediated by access to digital money (Akhtar et al., 2024; Lontchi et al., 2023).

The Yellow cluster focuses on Innovation and Sustainability, crucial for SMEs. Study highlights tools and practices for financing innovation,

addressing funding issues (Stefani et al., 2020). Financial literacy positively influences innovation, with male owners and larger firms showing higher innovation levels (Liu et al., 2021). CEO FL is crucial for SME innovation (Duréndez et al., 2023; García-Pérez-de-Lema et al., 2021). Fintech services positively impact SME performance (Lontchi et al., 2023). Improved financial knowledge enhances sustainability (Alshebami & Murad, 2022; Tang, 2022; Ye et al., 2019). Government support boosts financial literacy, capital access, and green value cocreation (Aslam et al., 2023). Entrepreneurial competence and financial literacy improve sustainability (Seraj et al., 2022), with positive correlations for female's entrepreneurial sustainability & empowerment (Andriamahery & Qamruzzaman, 2022).

The Blue cluster includes financial access and growth as sub-clusters. Financial literacy (FL), access, and risk attitude positively impact SME sustainability (Charfeddine et al., 2024; Ye et al., 2019). CEO FL correlates with organizational success (Diéguez-Soto, 2022). FL moderates relationship of human/social capital & financial access (Talip et al., 2024). Empowerment boosts women's entrepreneurial sustainability (Andriamahery et al., 2022). Increasing ICT usage significantly influences FL & credit access (Charfeddine et al., 2024).

Enhancing Financial Literacy in SMEs: An Integrative Literature Review

This section explores clusters from co-occurrence of the keywords & co-citation analysis, linking research of SME FL to the theoretical underpinnings (RQ4).

The role of the banking system in economic volatility is significant and warrants explicit emphasis in financial education (Cortes & Chiang, 2017). Validated through robustness tests and endogenous treatment, underscored the importance of enhancing bank competition, improving financial literacy, and developing industrial parks to boost small and micro enterprises' exports and support economic growth. (Zhang, 2022). The earlier studies shows

that Intellectual capital positively influenced resource acquisition and competitive performance, with business experience enhancing this relationship, while financial literacy did not significantly moderate the connection (Ying et al., 2019) but developing education around finance and entrepreneurship could improve access to resources and support innovation, with significant societal implications(Stefani et al.,2020). The subsequent measurement of the study has recognized the influence of entrepreneurial competence and financial literacy as essential elements for sustained success in small firms (Seraj et al., 2022; Tian et al., 2022) and it improved corporate performance by removing financing issues & enhancing risk management (Tian et al., 2022; Alshebami et al., 2022). The detailed study which found that entrepreneurial characteristics, financial literacy, knowledge &experience positively influenced spiritual quotient and center of control, thereby enhancing performance of finance, with emotional quotient further strengthening these relationships (Diéguez-Soto et al., 2022; Imarhiagbe et al., 2017; Khan et al.,2022; Top & Ozbek,2022). Sustainability is affected by financial &nonfinancial SMEs performance, the model demonstrated the significant of knowledge management impact on both financial and nonfinancial performance, emphasizing importance of knowledge, innovation, and creativity as competitive advantages (Bawonoet al., 2022). Training in corporate culture of finance & awareness of finance is crucial, highlighting significant role of the financial culture in corporate success (Tóth et al., 2022). Financial literacy and leveragehaveassociation, and it shows that higher financial literacy was connected with lower leverage in small firms, with this relationship being less significant in nations that have low levels of the financial growth, high levels of transaction expense & bankrupt, and larger levels of low information (Basha et al.,2023). The same applies to Agro-based SMEs, where financial literacy is crucial for improving productivity, sustainability, and market competitiveness (Akhtar et al., 2024).

This section of research studies shows that Innovation is also playing significant role in success and growth of SMEs. By embracing innovative practices, SMEs can enhance their competitiveness, improve operational efficiency, and create new opportunities for growth and development. Financial literacy is crucial for fintech services to enhance SMEs' performance during the COVID-19 recovery period(Lontchi et al.,2023). Company's innovation is influenced by financial culture and well-grounded management decisions(Gyori et al., 2019). Further it is found that Management control systems and risk attitudes wholly mediated relationship in FL&innovation (Duréndez et al., 2023). The FL of entrepreneurs also affects the innovation level in SMEs (Liu et al., 2021; Duréndez et al., 2023). Advancements in innovation finance and underscores the need for further research into the connections between creativity and financial support, particularly in developing countries. The study focuses on societal benefits of improved financial literacy and education in fostering innovation (Stefani et al., 2020). Fostering a collaborative environment, strengthening the digital data landscape, and improving financial literacy are essential for developing the FinTech sector, with a focus on data security and comprehensive financial solutions for SME borrowers (Thomas, 2023). Furthermore, there is favourable relation in FL & the achievement of a green economic rebound, and emphasized the need for continued support and development of green finance and financial literacy to sustain China's green economic progress (Hou & fang, 2023).

Financial literacy, financial access, and risk attitude of financehave influenced sustainability in SMEs in Sri Lanka, revealing direct positive impacts and mediation effects (Ye et al., 2019). The impact of easily comprehensible risk ratings and advanced financial information on investment choices and their correlation with the performance of loan financing on the marketplace-lending platform (Cumming & Hornuf,2022). Various factors identified that affect financial literacy in SMEs which includes in human capital & social

capital in accessing finance (Talip et al., 2024). The financial literacy is playing critical role in improving financial access for SMEs, especially in developing countries (Talip et al., 2024) and it is search that FL& perceived financial access significantly influenced credit access (Charfeddine et al., 2024). There is study on women empowerment which revealed significant positive relation in the sustainability of women's business & their empowerment., highlighting the need of policies that improve financial access, technical knowledge, & financial literacy to promote women's empowerment(Andriamahery et al., 2022). Financial literacy level, financial access enhanced through government support which promote sustainability of SMEs (Aslam et al., 2023).

The research underscores financial literacy's crucial role in enhancing SME innovation, acquisition of resource, and performance with competitiveness, emphasizing intellectual capital, experience of business, fintech services, green recovery, and financial access in developing countries.

Future significant avenues of research

The study suggests significant avenues for the future research (Figure8)todevelop further this ongoing and emerging research field (RQ5) in this section based on integrated literature revenue (RQ4).Studies have primarily analysed SME financial literacy in terms of topics such as performance, financial access, innovation, financial risk attitude, & entrepreneurship.

While existing studies emphasize the significance of regional bank lending in explaining volatility (Cortes & Chiang, 2017), Given the importance of financial literacy in enhancing SMEs' performance (Ying et al., 2019), there's room for study on effective FL interventions. The positive influence of entrepreneurial competency on sustainable performance (Bawonoet al. 2022; Seraj et al., 2022;), The relationin FL& leverage (Basha et al.2023) varies across countries. Focusing on Agro-based SMEs (Akhtar et al., 2024), research could delve into sector-specific financial literacy needs.

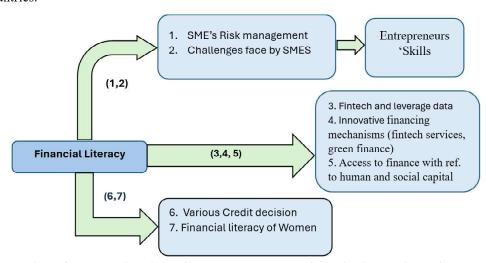


Figure8: Future directions of research towards the financial literacy in the SMEs Source: Author

Research gap I: How can tailored financial education programs improve SMEs' risk management, investment decisions during economic fluctuations?

Research gap II: How can FL programs address the unique challenges such as seasonality, supply chain dynamics, and commodity price fluctuations?

Across several studies (Duréndez et al., 2023, Lontchi et al., 2023; Stefani et al., 2020), FL emerges as a critical factor. However, there's a need for context-specific interventions. Duréndez

et al. (2023) and Liu et al. (2021) highlight the mediating effect of FL towards innovation. Stefani et al. (2020) emphasizes the challenges faced by SMEs in accessing necessary funds for innovative projects. Importance of collaboration with traditional financial institutions and scalability of operations for FinTech growth is seen (Thomas, 2023). Hou & Fang (2023) analysed green finance's role in boosting green economy.

Research gap III: How SMEs can effectively collaborate with FinTech's and leverage digital data for financial solutions would be relevant? Research gap IV: How Innovative financing mechanisms (e.g., fintech services, green finance) that enhance SME resilience during economic disruptions?

Remaining research highlights positive impact ofFL on SME sustainability. Strategies to enhance SME sustainability include improving financial knowledge and financial access (Ye et al.,2019). However, there are several areas where further investigation is warranted. Simple risk ratings significantly influence investor behaviour in marketplace lending (Cumming & Hornuf, 2022). Financial literacy moderates MSMEs' access to financing, human capital, and social capital (Charfeddine et al., 2024; Talip et al.,2024). A favorable correlation between women's entrepreneurial sustainability and empowerment exists. Financial access, technical knowledge, and financial literacy play crucial roles. Research gap V: How financial literacy interacts with human & social capital to improve financial access?

Research gap VI: How different types of financing (e.g., trade credit, bank loans) are affected by financial literacy and technological factors?

Research gap VII: How women's financial literacy is significant for successful women entrepreneurship

Conclusion

This study postulates a comprehensive bibliometric and systematic review of literature on financial literacy towards SMEs, depicting from 37 research studies published between 2017

& 2024 sourced from the Web of Science. Bibliometric analysis shown several key trends: the year 2022 saw the highest publications, while 2018 had the highest citation count. Notably, the study on the manager's intangible capability's role and financial literacy in promoting sustainability in SMEs received significant attention. The journal "Sustainability" was identified as the most influential source, with 163 citations, and Ying et al. (2019) emerged as most significant author in this field. Through cooccurrence analysis of author keywords, we identified main clusters in management & performance, innovation & sustainability, and access to finance & growth. The co-citation analysis highlighted four primary clusters: financial management, sustainability & innovation, financial success & resource acquisition, and financial literacy & performance. Based on these insights, a systematic review of literature was carried, focusing on areas of management, performance, innovation, sustainability, and financial access& growth in SMEs.

Based on the findings of the bibliometric & systematic review, several avenues for future research in the domain of financial literacy towards SMEs have been identified. First, there is a need for more in-depth studies on SME risk management, particularly in navigating financial uncertainties and market volatility. Second, research should explore the unique challenges faced by SMEs, including regulatory hurdles and access to resources. The emergence of fintech and its potential to leverage data for financial decision-making represents another promising area for investigation. Additionally, innovative financing mechanisms, such as fintech services and green finance, warrant further exploration to understand their impact on SME growth & sustainability. The role of human & social capital in accessing finance should also be examined, as well as the various factors influencing credit decisions. Finally, research focusing on financial literacy of women in SMEs could provide valuable insights into gender-specific financial challenges and opportunities, promoting more inclusive economic growth.

Reference

Adomako, S., Danso, A., & Damoah, J. O. (2016). The moderating influence of financial literacy on the relationship between access to finance and firm growth in Ghana. Venture Capital, 18(1), 43-61. https://doi.org/10.1080/13691066.2015. 1079952

Akhtar, S., Cui, Y., Frimpong, S. E., & Rafi, N. (2024). Unlocking sustainable competitive performance in agro-based small and medium enterprises in South Asian Association for Regional Cooperation countries. ZemìdìlskáEkonomika/Agricultural Economics, 70(6), 309–319. https://doi.org/10.17221/264/2023agricecon

Alshebami, A. S., & Murad, M. (2022). The moderation effect of entrepreneurial resilience on the relationship between financial literacy and sustainable performance. Frontiers in Psychology, 13. https://doi.org/10.3389/ fpsyg.2022.954841

Andriamahery, A., & Qamruzzaman, M. (2022). Do access to finance, technical Know-How, and financial literacy offer women empowerment through women's entrepreneurial development? Frontiers in Psychology, 12. https://doi.org/ 10.3389/fpsyg.2021.776844

Anthony, F. J., & Raan, V. (2012). Advances in bibliometric analysis: research performance assessment and science mapping. The Authors *Volume Compilation*, 17–28.

Arruda, H., Silva, E. R., Lessa, M., Proença, D., Jr, & Bartholo, R. (2022). VOSViewer and Bibliometrix. Journal of the Medical Library Association, 110(3), 392–395. https://doi.org/ 10.5195/jmla.2022.1434

Aslam, R., Rehman, S., & Nasir, A. (2023). Investigating the relationship between government support and SMEs' sustainability through financial and green lenses. Journal of Business and Industrial Marketing, 38(11), 2379–2389. https://doi.org/10.1108/jbim-05-2022-0191

Basha, S. A., Bennasr, H., &Goaied, M. (2023). Financial literacy, financial development, and leverage of small firms. International Review of Financial Analysis (Online)/International Review of Financial Analysis, 86, 102510. https:/ /doi.org/10.1016/j.irfa.2023.102510

Bawono, I., Maulina, E., Rizal, M., & Purnomo, M. (2022). The role of knowledge Management capability, financial Literacy, and Problem-Solving Skills on Organizational Performance for SMEs. Frontiers in Psychology, 13. https://doi.org/ 10.3389/fpsyg.2022.930742

Burchi, A., W3odarczyk, B., Szturo, M., & Martelli, D. (2021). The Effects Of Financial Literacy On Sustainable Entrepreneurship. Sustainability (Switzerland), 13(9). Https://Doi.Org/10.3390/ Su13095070

Charfeddine, L., Umlai, M. I., & El-Masri, M. (2024). Impact of financial literacy, perceived access to finance, ICT use, and digitization on credit constraints: evidence from Qatari MSME importers. Financial Innovation, 10(1). https:// doi.org/10.1186/s40854-023-00557-4

Chen, H., & Volpe, R. P. (1998). An Analysis Of Personal Financial Literacy Among College Students. Financial Services Review, 7(2), 107– 128. Https://Doi.Org/10.1016/S1057-0810(99)80006-7

Chiang, S., & Cortes, B. S. (2017). Financial education on bank lending and economic volatility in Taiwan. Eurasia Journal of Mathematics Science and Technology Education, 13(10). https://doi.org/10.12973/ ejmste/76969

Cook, J. A. (2006). Employment Barriers For Persons With Psychiatric Disabilities: Update Of A Report For The President's Commission. Psychiatric Services, 57(10), 1391–1405. Https:// Doi.Org/10.1176/PS.2006.57.10.1391

Dekkers, R., Carey, L., & Langhorne, P. (2022). Making Literature Reviews Work: A Multidisciplinary Guide to Systematic Approaches. Springer Nature.

Dell, G., & Mahadeva, M. (2009). FINANCIAL UNDERSTANDING ABANDONING FROM AMICRO PERSPECTIVE: POLICY RESPONSES TO PROMOTE INCLUSION IN INDIA. In Source: Savings And Development (Vol. 33, Issue 4). Http:// Www.Jstor.Orgurl:Http://Www.Jstor.Org/Stable/ 41406504http://Www.Jstor.Org/Stable/ 4 1 4 0 6 5 0 4 ? S e q = 1 & C i d = P d f -Reference#References Tab Contents

Denche-Zamorano, A., Escudero-Tena, A., Pereira-Payo, D., Adsuar, J. C., & Muñoz, D. (2023). Scientific mapping of the state-of-the-art in padel. A bibliometric analysis. International Journal of Sports Science & Coaching, 174795412311619. https://doi.org/10.1177/17479541231161993

Diéguez-Soto, J., Martínez-Romero, M. J., Corten, M., & Michiels, A. (2021). The impact of the CEO's financial literacy on family SMEs' growth: the moderating role of generational stage. Baltic Journal of Management, 17(1), 89–106. https:// doi.org/10.1108/bjm-01-2021-0003

Duréndez, A., Dieguez-Soto, J., & Madrid-Guijarro, A. (2023). The influence of CEO's financial literacy on SMEs technological innovation: the mediating effects of MCS and risk-taking. Financial Innovation, 9(1). https:// doi.org/10.1186/s40854-022-00414-w

Fornell, C., & Larcker, D. F. (1981). Evaluating Structural Equation Models with Unobservable Variables and Measurement Error. Journal of Marketing Research, 18(1), 39. https://doi.org/ 10.2307/3151312

García-Pérez-De-Lema, D., Ruiz-Palomo, D., & Diéguez-Soto, J. (2021). Analysing the roles of CEO's financial literacy and financial constraints on Spanish SMEs technological innovation. Technology in Society, 64, 101519. https:// doi.org/10.1016/j.techsoc.2020.101519

Gonzalez-Pereira, B., Guerrero-Bote, V., & Moya-Anegon, F. (2009). The SJR indicator: A new indicator of journals' scientific prestige. arXiv (Cornell University). https://doi.org/10.48550/ arxiv.0912.4141

Gosal, G. G., & Nainggolan, R. (2023). The Influence Of Digital Financial Literacy On Indonesian Smes' Financial Behavior And Financial Well-Being. International Journal Of Professional Business Review, 8(12), E04164. Https://Doi.Org/10.26668/BUSINESSREVIEW/ 2023.V8I12.4164

Goyal, K., & Kumar, S. (2020). Financial literacy: A systematic review and bibliometric analysis. International Journal of Consumer Studies, 45(1), 80–105. https://doi.org/10.1111/ijcs.12605

Graña-Alvarez, R., Lopez-Valeiras, E., Gonzalez-Loureiro, M., & Coronado, F. (2024). Financial Literacy In Smes: A Systematic Literature Review And A Framework For Further Inquiry. Journal Of Small Business Management, 62(1), 331–380. Https://Doi.Org/10.1080/00472778.2022.2051176

Green, B. (2020). Conducting a literature review. In Clarivate Blog Post [Blog post]. https:// clarivate.com/webofsciencegroup/wp-content/ uploads/sites/2/2020/07/How-to-conduct-aliterature-review-2020-07.pdf

Győri, Á., Czakó, Á., &Horzsa, G. (2019). Innovation, financial culture, and the Social-Economic Environment of SMEs in Hungary. Eastern European Politics and Societies/East *European Politics and Societies*, 33(4), 976–1004. https://doi.org/10.1177/0888325419844828

Henseler, J., Ringle, C. M., & Sarstedt, M. (2014). A new criterion for assessing discriminant validity in variance-based structural equation modeling. Journal of the Academy of Marketing Science, 43(1), 115–135. https://doi.org/10.1007/s11747-014-0403-8

Hou, J., Yang, X., & Chen, C. (2018). Emerging trends and new developments in information science: a document co-citation analysis (2009– 2016). Scientometrics, 115(2), 869–892. https:// doi.org/10.1007/s11192-018-2695-9

Hou, Y., & Fang, Z. (2022). Unleashing the mechanism between small and medium enterprises, and green financing in China: a pathway toward environmental sustainability and green economic recovery. Environmental Science and Pollution Research, 30(1), 1672–1685. https:/ /doi.org/10.1007/s11356-022-21448-8

Huston, S. J. (2010). Measuring financial literacy. *The Journal of Consumer Affairs*, 44(2), 296–316. https://doi.org/10.1111/j.1745-6606.2010.01170.x

Imarhiagbe, B. O., Saridakis, G., & Mohammed, A. (2017). Do bank credit rejection and financial education affect financial self-confidence? International Journal of Entrepreneurial Behaviour & Research, 23(6), 1033–1051. https:/ /doi.org/10.1108/ijebr-05-2016-0168

Karakurum-Ozdemir, K., Kokkizil, M., & Uysal, G. (2019). Financial literacy in developing countries. Social Indicators Research, 143(1), 325-353. https://doi.org/10.1007/s11205-018-1952-x

Khan, W., Nisar, Q. A., Nasir, N., Nasir, S., & Siddiqui, Y. (2021). Empirical nexus between financial and psychological entrepreneur characteristics and its analogy entrepreneurship financial performance. Kybernetes, 51(2), 745-767. https://doi.org/ 10.1108/k-09-2020-0611

Klarin, A. (2024). How to conduct a bibliometric content analysis: Guidelines and contributions of content co occurrence or co word literature reviews. International Journal of Consumer Studies, 48(2). https://doi.org/10.1111/ijcs.13031

Kurniasari, F., Lestari, E. D., & Tannady, H. (2023). Pursuing Long-Term Business Performance: Investigating the Effects of Financial and Technological Factors on Digital Adoption to Leverage SME Performance and Business Sustainability—Evidence from Indonesian SMEs in the Traditional Market. Sustainability, 15(16), 12668. https://doi.org/10.3390/su151612668

Li, Y., Zhu, Z., Chen, L., Yang, B., Wu, Y., Guo, X., Han, B., & Zhao, Y. (2024). Exploring Large-Scale Financial Knowledge Graph for SMEs Supply Chain Mining. IEEE Transactions on Knowledge and Data Engineering, 36(5), 1979–1990. https:/ /doi.org/10.1109/tkde.2023.3317631

Liu, B., Wang, J., Chan, K. C., & Fung, A. (2020). The impact of entrepreneurs's financial literacy on innovation within small and medium-sized enterprises. International Small Business Journal, 39(3), 228-246. https://doi.org/10.1177/ 0266242620959073

Liu, M., Hu, Y., Li, C., & Wang, S. (2022). The influence of financial knowledge on the credit behaviour of small and micro enterprises: the knowledge-based view. Journal of Knowledge Management, 27(1), 208-229. https://doi.org/ 10.1108/jkm-12-2021-0934

Lontchi, C. B., Yang, B., & Shuaib, K. M. (2023). Effect of Financial Technology on SMEs Performance in Cameroon amid COVID-19 Recovery: The Mediating Effect of Financial Literacy. Sustainability, 15(3), 2171. https:// doi.org/10.3390/su15032171

Lusardi, A., & Mitchell, O. S. (2014). The Economic Importance of Financial Literacy: Theory and evidence. Journal of Economic Literature, 52(1), 5-44. https://doi.org/10.1257/jel.52.1.5

Molina-García, A., Diéguez-Soto, J., Galache-Laza, M. T., & Campos-Valenzuela, M. (2023). Financial literacy in SMEs: a bibliometric analysis and a systematic literature review of an emerging research field. Review of Managerial Science, 17(3), 787–826. https://doi.org/10.1007/s11846-022-00556-2

Mota, B., Rua, O. L., & Neira-Gómez, I. (2024). New advances in science mapping and performance analysis of the open innovation and tourism relationship. Journal of Open Innovation, 10(1), 100154. https://doi.org/10.1016/ j.joitmc.2023.100154

Muñoz-Céspedes, E., Ibar-Alonso, R., & Cuerdo-Mir, M. (N.D.). International Entrepreneurship And Management Journal Individual Entrepreneurial Behavior And Financial Literacy. Https://Doi.Org/10.1007/S11365-023-00936-4

Nightingale, A. (2009). A guide to systematic literature reviews. Surgery, 27(9), 381–384. https:/ /doi.org/10.1016/j.mpsur.2009.07.005

Page, M., Mckenzie, J., Bossuyt, P., Boutron, I., Hoffmann, T., Mulrow, C., Shamseer, L., Tetzlaff, J., Akl, E., Brennan, S., Chou, R., Glanville, J., Grimshaw, J., Hróbjartsson, A., Lalu, M., Li, T.,

- Loder, E., Mayo-Wilson, E., Mcdonald, S., Moher, D. (2021). The PRISMA 2020 statement: An updated guideline for reporting systematic reviews. PLoS Medicine, 18(3), e1003583. https:/ /doi.org/10.1371/journal.pmed.1003583
- Remund, D. L. (2010). Financial literacy explicated: the case for a clearer definition in an increasingly complex economy. The Journal of Consumer Affairs, 44(2), 276–295. https://doi.org/10.1111/ j.1745-6606.2010.01169.x
- S, N. V. P., Chakraborty, A., & Kar, A. K. (2024). How to undertake an impactful literature review: Understanding review approaches and guidelines for high-impact systematic literature reviews. South Asian Journal of Business and Management Cases, 13(1), 18-35. https://doi.org/ 10.1177/22779779241227654
- Salemi, N., Koosha k. (2013). Co-citation analysis and co-word analysis in Bibliometrics Mapping: A Methodological Evaluation Iranian Research Institute for Information Science and Technology, 29 (1), 253-266. https://doi.org/10.35050/ JIPM010.2013.011
- Sedighi, M. (2016). Application of word cooccurrence analysis method in mapping of the scientific fields (case study: the field of Informetrics). Library Review, 65(1/2), 52–64. https://doi.org/10.1108/lr-07-2015-0075
- Seraj, A. H. A., Fazal, S. A., & Alshebami, A. S. (2022). Entrepreneurial Competency, Financial Literacy, and Sustainable Performance— Examining the Mediating Role of Entrepreneurial Resilience among Saudi Entrepreneurs. Sustainability, 14(17), 10689. https://doi.org/ 10.3390/su141710689
- Shah, S. Z. A., Anwar, M., & Hussain, C. M. (2020). Top managers' attributes, innovation, and the participation in China-Pakistan Economic Corridor: A study of energy sector small and medium sized enterprises. MDE. Managerial And Decision Economics/Managerial And Decision Economics, 42(2), 385-406. https://doi.org/ 10.1002/mde.3242

- Sharma J. (2022). Journal Impact Factor (JIF): a study. Journal of Library and Information Communication Technology, 11(1), 76-81 (2022). https://doi.org/10.5958/2456-9399.2022.00009.8
- Stefani, U., Schiavone, F., Laperche, B., & Burger-Helmchen, T. (2019). New tools and practices for financing novelty: a research agenda. European Journal of Innovation Management, 23(2), 314-328. https://doi.org/10.1108/ejim-08-2019-0228
- Sukarieh, M., & Tannock, S. (2009). Putting School Commercialism In Context: A Global History Of Junior Achievement Worldwide. Journal Of Education Policy, 24(6), 769–786. Https://Doi.Org/10.1080/02680930903294636
- Talip, S. N. S. H., & Wasiuzzaman, S. (2023). Influence of human capital and social capital on MSME access to finance: assessing the mediating role of financial literacy. International Journal of Bank Marketing, 42(3), 458-485. https:// doi.org/10.1108/ijbm-04-2023-0214
- Tang, X. (2022). New Schemes for Investment in of Small and Medium-Sized Enterprises of China: Role of access to finance, innovation, and Sustainability. Frontiers in Psychology, 13. https://doi.org/10.3389/fpsyg.2022.857193
- Thomas, N. M. (2023). Modeling key enablers influencing FinTechs offering SME credit services: A multi-stakeholder perspective. EM, 33(1). https:/ /doi.org/10.1007/s12525-023-00627-6
- Tian, G., Zhou, S., & Hsu, S. (2020). Executive financial literacy and firm innovation in China. Pacific-basin Finance Journal, 62, 101348. https://doi.org/10.1016/j.pacfin.2020.101348
- Tian, G., Zhou, S., & Qi, Y. (2022). Executive Financial Literacy and Corporate Performance: Evidence from Small and Medium Sized Enterprises in China. Asia-Pacific Journal of Financial Studies, 51(6), 797–827. https:// doi.org/10.1111/ajfs.12403
- Todeschini, R., & Baccini, A. (2016). Handbook of Bibliometric Indicators: Quantitative Tools for Studying and Evaluating Research. John Wiley & Sons.

Top, Y., & Özbek, A. (2022). Financial literacy in Micro-Scale enterprises operating in forest products sector. DrvnaIndustrija, 73(1), 3-13. https://doi.org/10.5552/drvind.2022.2035

Tóth, R., Kása, R., & Lentner, C. (2022). Identifying the influencing factors of financial literacy across pre- and "Post" pandemic times at the Hungarian SMES. Acta Polytechnica Hungarica, 19(8), 9-29. https://doi.org/10.12700/aph.19.8.2022.8.2

Tubastuvi, N., & Purwidianti, W. (2023). Performance Of Women-Led Smes In Indonesia: The Role Of Financial Inclusion, Financial Literacy, And Technology Adoption. Journal Of Law And Sustainable Development, 11(12), E1899. Https://Doi.Org/ 10.55908/SDGS. V11I12.1899

Van Eck, N. J., & Waltman, L. (2010). Software survey: VOSviewer, a computer program for bibliometric mapping. Scientometrics, 84(2), 523-538. https://doi.org/10.1007/s11192-009-0146-3

Van Eck, N. J., & Waltman, L. (2017). Citationbased clustering of publications using CitNetExplorer and VOSviewer. Scientometrics, 111(2), 1053-1070. https://doi.org/10.1007/ s11192-017-2300-7

Van Rooij, M., Lusardi, A., & Alessie, R. (2011). Financial literacy and stock market participation. Journal of Financial Economics, 101(2), 449-472. https://doi.org/10.1016/j.jfineco.2011.03.006

Van Thiel, D., Elliott, K., Goedee, J., & Leenders, R. (2024). Responsible access to credit for soletraders and micro-organizations under unstable market conditions with psychometrics. European Journal of Finance, 1–33. https:// doi.org/10.1080/1351847x.2024.2357569

Ye, J., & Kulathunga, K. (2019). How does financial literacy promote sustainability in SMEs? A developing country perspective. Sustainability, 11(10), 2990. https://doi.org/ 10.3390/su11102990

Ying, Q., Hassan, H., & Ahmad, H. (2019). The role of a manager's intangible capabilities in resource acquisition and sustainable competitive performance. Sustainability, 11(2), 527. https://doi.org/10.3390/su11020527

Zhang, L. (2022). Can bank competition promote the export of small and micro Enterprises— Based on the perspective of offering fuel in snowy weather. Sustainability, 14(20), 13542. https://doi.org/10.3390/su142013542