

Review

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# Evolutionary Study of Behavior Management Research: A Bibliometric Analysis

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Nina Karlina , [Budiman Rusli](#) , Candradewini Candradewini , Dedi Sukarno , [Riki Muharam](#) \*

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Review

# Evolutionary Study of Behavior Management Research: A Bibliometric Analysis

Nina Karlina, Budiman Rusli, Candradewini, Dedi Sukarno and Riki Satia Muharam

Public Administration Department, Faculty of Social and Political Sciences, Universitas Padjadjaran, Indonesia

\* Correspondence: riki19001@mail.unpad.ac.id

**Abstract: Purpose:** This study's objective was to examine international research trends in behavior management that had been written about in journals that were indexed by Scopus and authored by scientists from all around the world. **Patients and methods:** We examined publications in the Scopus database using bibliometric and content analysis. We only retrieved English-language articles. The VOSviewer program was used for content analysis. **Results:** We found 808 papers on behavior management during the previous 50 years by following the study strategy. The study concentrated more on authors, nations, institutions, journals, documents, and keywords, as well as the annual scientific production (classification by subject area and document type). **Conclusion:** The finding prompts a discussion regarding behavior management for next research.

**Keywords:** behavior management; Scopus; VOSViewer

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## Introduction

The discussion of behavior management is covered in this article. Bibliometric analysis and speech comprehension are inseparable [1–4], referring to the use of different frameworks and techniques to examine citations in scientific publications. Such an effort results in the creation of several metrics to measure the intellectual influence of a specific field of study and to obtain insight into the intellectual structure of a broad academic discipline [5,6].

The purpose of this essay was to offer important information for comprehending global publication trends in behavior management. With the help of VOSviewer, this study analyzed the trends and bibliographic features of publications on behavior management that were produced by scholars from around the world and published in journals that were indexed by Scopus.

## Material and methods

In this study, we followed the research methods successfully employed by several re-searchers who performed bibliometric/bibliographic and content analyses of article in in-ternational database. For example, in 2022 Prospero et.al published a paper Environmentally Friendly Technologies for Wastewater Treatment in Food Processing Plants : A Bibliometric Analysis. In 2009 Kim and Chung published a paper presenting a Bibliographic and content analysis of physics papers from North Korea indexed in the Scopus from 2005 to 2018. In 2020, Nguyen et.al published a paper presenting Bibliographic and content analysis of articles on education form Vietnam indexed in Scopus from 2009 to 2018. We believed that a similar research approach would be useful in this study.

Since there were no human participants in this study, neither informed consent nor institutional review board permission were required. Based on a literature database, this study was a descriptive and bibliometric analysis. Scopus was used to do the document search because of its vast collection of peer-reviewed literature, high level of accessibility, and advanced processing capabilities. This study's title included the keyword "Behavior Management" in order to gather the essential information. We discovered 808 articles in this stage. The 808 articles that had been sorted by relevancy were then downloaded from the scopus database and evaluated. The Csv dataset formatted

metadata and revised Scopus result values were obtained for this study. To address difficulties such as a lack of consistency in country names and keywords, the consistency and reliability of the data were examined prior to the bibliometric analysis. To maintain uniformity with regard to key words that occasionally appeared in the singular or plural, abbreviations, or other forms, the data were also standardised. Microsoft Excel was used to construct simple statistics after VOSviewer software was used to evaluate the data taken from the Scopus database.

## Results

The study's Scopus data set included 808 unique publications from a total of 1888 authors. A wide analysis of the data set reveals that 2103 different keywords are used by 1888 authors to organize or categorize their works. Also, there are 13.44 citations for each article. This demonstrated the importance of the work and how frequently it is cited in these fields. There were 189 single writers when the distribution of authors in the data was evaluated. (Table 1)

**Table 1.** Main information about data.

| No | Description                     | Result    | No | Description                    | Result |
|----|---------------------------------|-----------|----|--------------------------------|--------|
| 1  | Timespan                        | 1970:2023 | 13 | Co-Authors per Doc             | 2.81   |
| 2  | Sources (Journals, Books, etc)  | 434       | 14 | International co-authorships % | 7.673  |
| 3  | Documents                       | 808       |    | <b>DOCUMENT TYPES</b>          |        |
| 4  | Annual Growth Rate %            | 3.08      | 15 | article                        | 585    |
| 5  | Document Average Age            | 16.7      | 16 | Book                           | 13     |
| 6  | Average citations per doc       | 13.44     | 17 | book chapter                   | 41     |
| 7  | References                      | 23489     | 18 | conference paper               | 43     |
|    | <b>DOCUMENT CONTENTS</b>        |           | 19 | editorial                      | 26     |
| 8  | Keywords Plus (ID)              | 2103      | 20 | erratum                        | 4      |
| 9  | Author's Keywords (DE)          | 1167      | 21 | letter                         | 5      |
|    | <b>AUTHORS</b>                  |           | 22 | note                           | 24     |
| 10 | Authors                         | 1888      | 23 | review                         | 66     |
| 11 | Authors of single-authored docs | 189       | 24 | short survey                   | 1      |
|    | <b>AUTHORS COLLABORATION</b>    |           |    |                                |        |
| 12 | Single-authored docs            | 234       |    |                                |        |

### *Annual Scientific Production: Classification by Subject Area and Document Type*

A rise in "Behavior Management" articles is predicted for the years 2020 and 2021. According to the trend analysis (see Figure 1), there were no "Behavior Management" publications in the Scopus database prior to 1970. The number of studies during the first two decades was quite low (20 documents up to 1993). With 14 research, the threshold of 15 documents was broken in 1988. There has been consistent and strong growth since 2018. When 61 documents were published in 2022, a peak was reached.

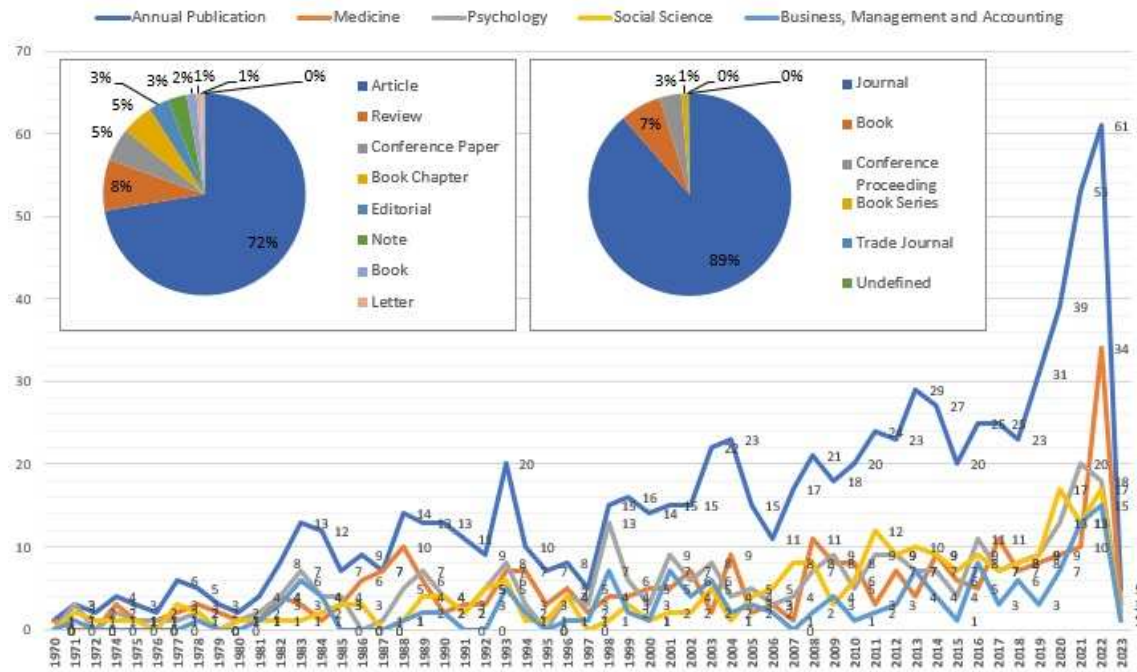


Figure 1. Publication Trend “Behavior Management”. Source: Processed by Author.

A paper could fall under more than one type of subject (category). The primary topics related to the application of behavior management are shown in Figure 1. Early on, there were no clearly defined main subject areas. However, since 1988, particularly since 2008, psychology, social science, business, management, and accounting have overtaken medicine as the most popular field of study. The results of a search using the phrase "Behavior Management" revealed about 808 documents. Psychology (n=296), Medicine (n=256), Social Sciences (n=227), Dentistry (n=152), and Business, Management, and Accounting (n=144) were the subject categories with the highest number of publications. Figure 2 displays the whole distribution of Behavior Management publications throughout different subject categories.

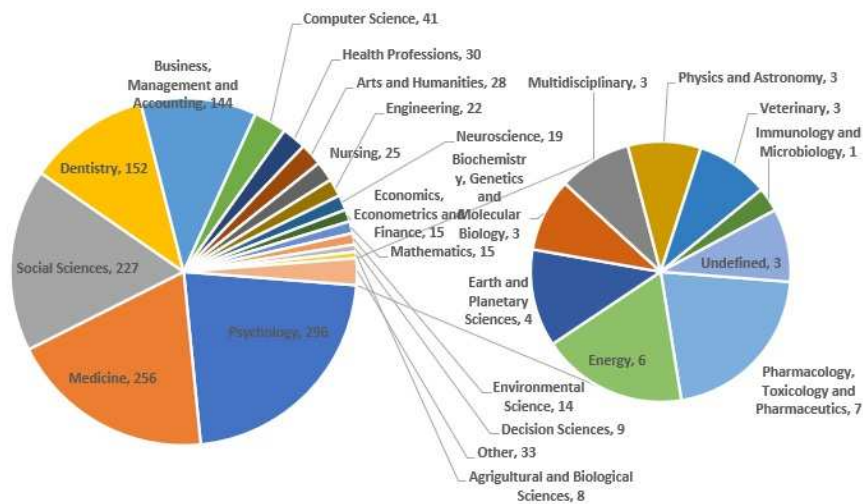


Figure 2. Publication Trend “Behavior Management” based on Subject Area. Source: Processed by Author.

Main Authors

Table 2 lists the authors in order of their level of contribution to the subject. Despite the fact that there are no prolific authors in the field of research, Austin, J. has the most documents published (16).



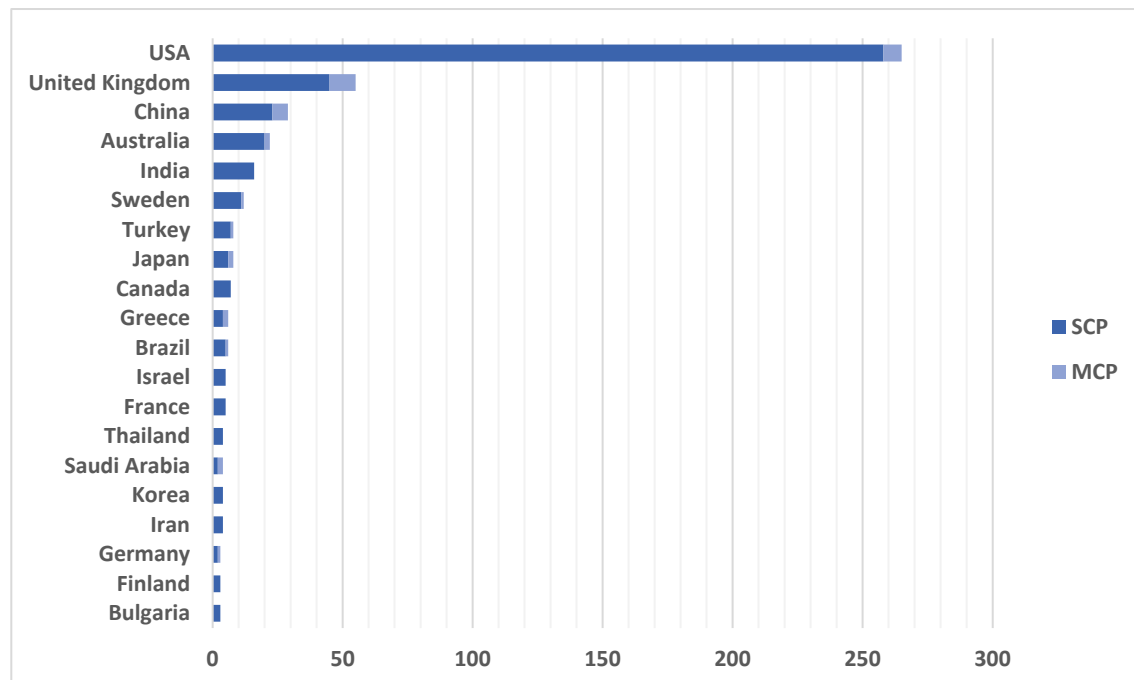
He is a writer now interested in the topic because the publications were created between 1999 and 2013. His most widely utilized paper examined organizational behavior management's journal objectively from 1987 to 1997. Wilson, S. is the primary author if the ranking is based on the ratio of citations to documents (about 286 citations). He published from 1991 to 2005, and his work is still relevant to the subject. Parental attitudes regarding behavior control approaches employed in pediatric dentistry is his most frequently referenced work.

**Table 2.** Authors with greater participant in studies on Behavior Management.

| Ranking          | Name               | TD <sup>1</sup> | F <sup>2</sup> (%) | TC <sup>3</sup> | TC/TD    |
|------------------|--------------------|-----------------|--------------------|-----------------|----------|
| 1 <sup>st</sup>  | Austin, J.         | 16              | 0.019802           | 270             | 0.059259 |
| 2 <sup>nd</sup>  | Wilder, D.A        | 15              | 0.018564           | 71              | 0.211268 |
| 3 <sup>rd</sup>  | Sturney, P.        | 7               | 0.008663           | 119             | 0.058824 |
| 4 <sup>th</sup>  | Adair, S.M         | 6               | 0.007426           | 169             | 0.035503 |
| 5 <sup>th</sup>  | Allen, K.D         | 6               | 0.007426           | 194             | 0.030928 |
| 6 <sup>th</sup>  | Dickinson, A.M     | 6               | 0.007426           | 111             | 0.054054 |
| 7 <sup>th</sup>  | Johnson, D.A       | 6               | 0.007426           | 38              | 0.157895 |
| 8 <sup>th</sup>  | Mawhinney, T.C     | 6               | 0.007426           | 169             | 0.035503 |
| 9 <sup>th</sup>  | Wilson, S.         | 6               | 0.007426           | 286             | 0.020979 |
| 10 <sup>th</sup> | Chris Anderson, D. | 5               | 0.006188           | 83              | 0.060241 |

<sup>1</sup>TD : Total documents, <sup>2</sup>F : Frequency : TD/808 (documents retrieved) x 100, <sup>3</sup>TC : Total Citations.

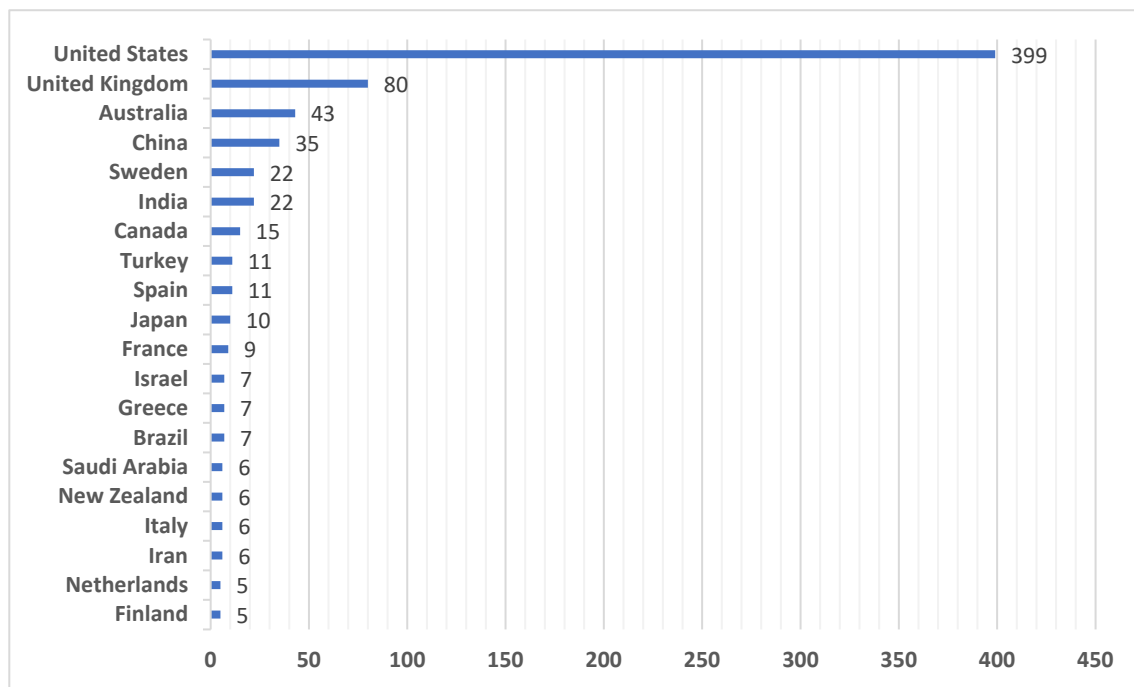
In addition, there are typically 0.009 authors each document. In conclusion, the field is seeing an increase in interest because research in it typically involves collaboration. Related Authors of Behavior Management are displayed in Figure 3. United States produced the most articles, followed by the United Kingdom and China.



**Figure 3.** Corresponding Authors. Source: Processed by Author.

### Main Countries

With 399 papers published between 1970 and 2023, the United States led the world in this category, followed by the United Kingdom with 80 pieces. The Asian nations with the highest percentage of Behavior Management publications were China, India, Japan, and Iran. These four Asian nations were rated 4, 5, 7, and 8 in the world. The top 20 nations are displayed in Figure 4.



**Figure 4.** Top 20 countries with publication of Behavior Management. Source : Processed by Authors.

#### Main Institutions

14.48% of the total number of documents were published by the top 10 institutions in the field of study (Table 3). American institutions predominate; Western Michigan University shares the top spot in the ranking with 31 published documents.

**Table 3.** Institutions with greater participation in studies on Behavior Management.

| Rank             | Affiliation   | Country       | TD | F (%) | TC  | TC/TD  |
|------------------|---|---------------|----|-------|-----|--------|
| 1 <sup>st</sup>  | Western Michigan University                         | United States | 31 | 0.038 | 203 | 6.548  |
| 2 <sup>nd</sup>  | Florida Institute of Technology                     | United States | 20 | 0.025 | 31  | 1.550  |
| 3 <sup>rd</sup>  | The Ohio State University                           | United States | 11 | 0.014 | 9   | 0.818  |
| 4 <sup>th</sup>  | University of Nevada, Reno                          | United States | 9  | 0.011 | 17  | 1.889  |
| 5 <sup>th</sup>  | Goteborgs Universitet                               | Sweden        | 9  | 0.011 | 421 | 46.778 |
| 6 <sup>th</sup>  | Virginia Polytechnic Institute and State University | United States | 9  | 0.011 | 0   | 0.000  |
| 7 <sup>th</sup>  | University of Florida                               | United States | 8  | 0.010 | 4   | 0.500  |
| 8 <sup>th</sup>  | City University of New York                         | United States | 7  | 0.009 | 22  | 3.143  |
| 9 <sup>th</sup>  | Macquarie University                                | Australia     | 7  | 0.009 | 50  | 7.143  |
| 10 <sup>th</sup> | Johns Hopkins School of Medicine                    | United States | 6  | 0.007 | 78  | 13.000 |

<sup>1</sup>TD: Total documents, <sup>2</sup>F: Frequency: TD/808 (documents retrieved) x 100, <sup>3</sup>TC: Total Citations.

#### Main Journals

According to VOSViewer, Pediatric Dentistry (n=34), European Archives Of Paediatric Dentistry (n=9), Journal Of Indian Society Of Pedodontics And Preventive Dentistry (9), and Australian Journal Of Teacher Education (n=8) published the next highest number of articles, with 120, in the Journal of Organizational Behavior Management. Table 4 lists the additional most active journals by number of publications.

**Table 4.** The most production journals based on the number of publications.

| Rank             | Source  | TD  | Country        | Publisher                               | HI  | PT       | Q  |
|------------------|---|-----|----------------|---|-----|----------|----|
| 1 <sup>st</sup>  | Journal of Organizational Behavior Management                     | 120 | United States  | Routledge                               | 34  | Journals | Q3 |
| 2 <sup>nd</sup>  | Pediatric Dentistry   | 34  | United States  | American Academy of Pediatric Dentistry | 72  | Journals | Q3 |
| 3 <sup>rd</sup>  | European Archives Of Paediatric Dentistry                         | 9   | Germany        | Springer Verlag                         | 41  | Journals | Q1 |
| 4 <sup>th</sup>  | Journal Of Indian Society Of Pedodontics And Preventive Dentistry | 9   | India          | Wolters Kluwer Medknow Publications     | 35  | Journals | Q3 |
| 5 <sup>th</sup>  | Australian Journal Of Teacher Education                           | 8   | Australia      | Social Science Press                    | 37  | Journals | Q2 |
| 6 <sup>th</sup>  | Journal Of Head Trauma Rehabilitation                             | 8   | United States  | Lippincott Williams and Wilkins Ltd.    | 103 | Journals | Q1 |
| 7 <sup>th</sup>  | European Journal Of Oral Sciences                                 | 7   | Denmark        | Blackwell Munksgaard                    | 96  | Journals | Q2 |
| 8 <sup>th</sup>  | Intervention In School and Clinic                                 | 7   | United States  | SAGE Publications Ltd                   | 34  | Journals | Q2 |
| 9 <sup>th</sup>  | Journal Of Dentistry For Children                                 | 7   | United States  | American Academy of Pediatric Dentistry | 41  | Journals | Q3 |
| 10 <sup>th</sup> | Emotional and Behavioral Difficulties                             | 6   | United Kingdom | Taylor and Francis Ltd.                 | 30  | Journals | Q2 |

<sup>1</sup>TD: Total documents, <sup>2</sup>HI: H-Index, <sup>3</sup>PT: Publication Type, <sup>4</sup>Q: Quartile.

The influential sources (i.e. journals) are shown in Table 5 based on citations. Journal of Head Trauma Rehabilitation (n=191), Pediatric Dentistry (n=967), International Journal of Paediatric Dentistry (n=752), European Archives of Paediatric Dentistry (n=213), and Journal of Organizational Behavior Management (n=1598) were the next most influential journals, with a total readership of 1698. There were five American journals, two British journals, one journal each from Australia, Germany, and Denmark. The majority of "Behavior Management" articles are published in journals with Scopus quartiles Q1 (up to 60% or 4 journals). This shows that the essay "Behavior Management" is an engaging topic that has been published in reputable journals (Q1).

**Table 5.** The most influential source and countries based on citation analysis.

| Rank             | Source  | Cited by | Country        | Quartile |
|------------------|---|----------|----------------|----------|
| 1 <sup>st</sup>  | Journal of Organizational Behavior Management | 1598     | United States  | Q3       |
| 2 <sup>nd</sup>  | Pediatric Dentistry                           | 967      | United States  | Q3       |
| 3 <sup>rd</sup>  | International Journal of Paediatric Dentistry | 752      | United Kingdom | Q1       |
| 4 <sup>th</sup>  | European Archives of Paediatric Dentistry     | 213      | Germany        | Q1       |
| 5 <sup>th</sup>  | Journal of Head Trauma Rehabilitation         | 191      | United States  | Q1       |
| 6 <sup>th</sup>  | European Journal of Oral Sciences             | 168      | Denmark        | Q2       |
| 7 <sup>th</sup>  | Australian Journal of Teacher Education       | 148      | Australia      | Q2       |
| 8 <sup>th</sup>  | Behavior Therapy                              | 136      | United States  | Q1       |
| 9 <sup>th</sup>  | Journal of Dentistry for Children             | 120      | United States  | Q3       |
| 10 <sup>th</sup> | Educational Studies                           | 117      | United Kingdom | Q2       |

Source: Processed by Author.

### Main Documents and Keywords

Table 6 lists the most influential document based on citations recorded by the Scopus database. The most influential documents was Dental fear/anxiety and dental Behavior management problems in children and adolescents : A review of prevalence and concomitant psychological factors, with 382 citations, followed Effects of a universal classroom behavior management program in first and second grades on young adult behavioral, psychiatric, and social outcomes (n=293), and Dental treatment, dental fear and Behavior management problems in children with severe enamel hypomineralization of their permanent first molars. (n=253).

**Table 6.** The most influential Documents based on citation analysis.

| Rank             | Title  | Source Title                                  | Cited by |
|------------------|--|---|----------|
| 1 <sup>st</sup>  | Dental fear/anxiety and dental behaviour management problems in children and adolescents: A review of prevalence and concomitant psychological factors. [1]                                  | International Journal of Paediatric Dentistry | 382      |
| 2 <sup>nd</sup>  | Effects of a universal classroom behavior management program in first and second grades on young adult behavioral, psychiatric, and social outcomes. [2]                                     | Drug and Alcohol Dependence                   | 293      |
| 3 <sup>rd</sup>  | Dental treatment, dental fear and behaviour management problems in children with severe enamel hypomineralization of their permanent first molars.   | International Journal of Paediatric Dentistry | 253      |
| 4 <sup>th</sup>  | The efficacy of problem-solving communication training alone, behavior management training alone, and their combination for parent-adolescent conflict in teenagers with ADHD and ODD. [3]   | Journal of Consulting and Clinical Psychology | 195      |
| 5 <sup>th</sup>  | The effect of perceived school climate and teacher efficacy in behavior management on job satisfaction and burnout: A longitudinal study. [4]  | Teaching and Teacher Education                | 131      |
| 6 <sup>th</sup>  | Melatonin versus placebo in children with autism spectrum conditions and severe sleep problems not amenable to behaviour management strategies: A randomised controlled crossover trial. [5] | Journal of Autism and Developmental Disorders | 127      |
| 7 <sup>th</sup>  | Performance feedback in organizational behavior management: A review.  | Journal of Organizational Behavior Management | 126      |
| 8 <sup>th</sup>  | Teaching and maintaining behavior management skills in the nursing home. [6]   | Gerontologist                                 | 123      |
| 9 <sup>th</sup>  | Host-Plant Viral Infection Effects on Arthropod-Vector Population Growth, Development and Behaviour: Management and Epidemiological Implications. [7]  | Advances in Virus Research                    | 118      |
| 10 <sup>th</sup> | Attitudes of contemporary parents toward behavior management techniques used in pediatric dentistry.   | Pediatric Dentistry                           | 118      |

Source: [7–13].

The 808 publications were organized by relevancy, and their contents were examined. Then, we used VOSviewer's "all keyword" analysis unit and "full counting" method to do a co-occurrence study. Out of 3007 keywords, VOSviewer detected 273 that met the threshold when we set the keyword frequency restriction to 5 times. In Figure 5, the findings of this investigation are displayed.

The top three terms that appeared the most frequently were Human (338), Article (224), and Child (209). Seven clusters were also discovered in this research, in total. These keywords are grouped into seven clusters in Figure 5, each of which has a distinct amount of keywords and is represented by a different color.

Human, Article, Behavior Therapy, Male, and Adult were the main topics in the first cluster (red, 107 keywords). The second cluster, which was green and contained 55 keywords, was focused on decision-making, organizational behavior management, behavior management, and behavioral research. The third cluster (blue, 53 terms) included topics such as methodology, behavior modification, parental involvement, pediatric dental care, and dentists.

The fourth cluster (yellow, 38 terms) included topics including adolescent development, dental care, patient relations, and child behavior. Child, Epidemiology, Humans, Parental Attitude, and Prevalence were the main topics in the five cluster (purple, 17 keywords). The sixth cluster, which featured the terms "dental patient" and "infant," was light blue. The nonparametric test was the topic of the seventh cluster (orange, 1 keyword).

A depiction of the Behavior Management literature overlaid with the typical number of publications from 2000 to 2015 is shown in Figure 6. The focus of the literature on behavior management changed; before to 2005, the phrases "Pediatric Dentistry," "Behavior Control," and "Human" were extensively studied. In the next three years, "Behavior Management," "Behavioral Research," and "Decision Making" were discussed.



## Discussion

For research on behavior management challenges globally, Scopus data were used to analyze publishing trends, journal performance, content analysis, and bibliographic coupling of nations and sources. The current analysis concentrated on Behavior Management journal articles. The purpose of this study was to report on the current state of publications in these areas. The scopus database listed 808 published research in total. The statistics demonstrated the speed at which articles were published and the eagerness with which researchers worldwide examined behavior management. Unfortunately, little study on behavior management from a global viewpoint has been done in the last three years.

Journal of Organizational Behavior Management (n=120), which produced the most articles, was the most productive publication venue. United States (n=399) was the most productive nation, followed by the United Kingdom. China, India, Japan, and Iran were the Asian nations placed in the top 20 countries in terms of the most publications on behavior management, despite the fact that European nations led the top 20 countries with the most publications by affiliated researchers. According to citations, (Wilson, S.) (n=286) and Journal of Organizational Behavior Management (n=1598) had the most significant authors and journals. Seven clusters were established by the behavior management study terms (e.g Human, Article, and Child). Behavior Management research has grown dramatically during the past 50 years, seen from a worldwide viewpoint. These were publications in European-published journals.

The current study has several limitations because Web of Science, Crossref, and PubMed Central were not used; instead, we solely retrieved studies from Scopus. Last but not least, we didn't employ any of the additional VOSviewer analyses, including co-citation or co-authorship. Hence, in order to present a more comprehensive picture of the problem, we anticipate that bibliometric research on this subject will grow in terms of the databases used, the subject areas, and the analyses performed.

## Conclusion

Global research on behavior management has grown dramatically during the past 50 years. The majority of documents are published in prestigious journals, which is further sign of the caliber of the research. Discussions in the future could find the topic of behavior management research in relation to local government fascinating. Also, there are chances to promote conversation on behavior management in social science publications that are relevant to public administration. Lastly, Europe led this sector in terms of publications, whereas Asia's research on this subject is still scarce, necessitating additional study.

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