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ANALYSIS OF COVID-19 ARTICLES PUBLISHED IN DENTAL JOURNALS

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Introduction

- The COVID-19 pandemic is an ongoing health crisis with unmatched impacts
- Infodemic of published articles
- Dentistry as a biomedical field has contributed to the generation and dissemination of knowledge about COVID-19 in several areas:
 - Salivary diagnostics
 - Oral manifestations
 - Infection control
 - Dental education
 - Practice management
- Analysis of the COVID-19 output of dental journals can provide a provide a general outlook on published articles

Aim: In this study we aim to present a science mapping analysis of the research output of dental journals on COVID-19.

Methods

- The PubMed COVID-19 database was searched with “Dental Journals” filter
- Data including journal name, country, month of publication and number of citations were recorded
- Science mapping analysis of the most used keywords was also performed

SARS-CoV-2 Literature

Articles referencing SARS-CoV-2 and COVID-19 in **PubMed**

[View in PubMed](#)

Free full-text content in **PubMed Central (PMC)** from the Public Health Emergency COVID-19 Initiative, suitable for text mining and secondary analysis

[Access PMC](#)

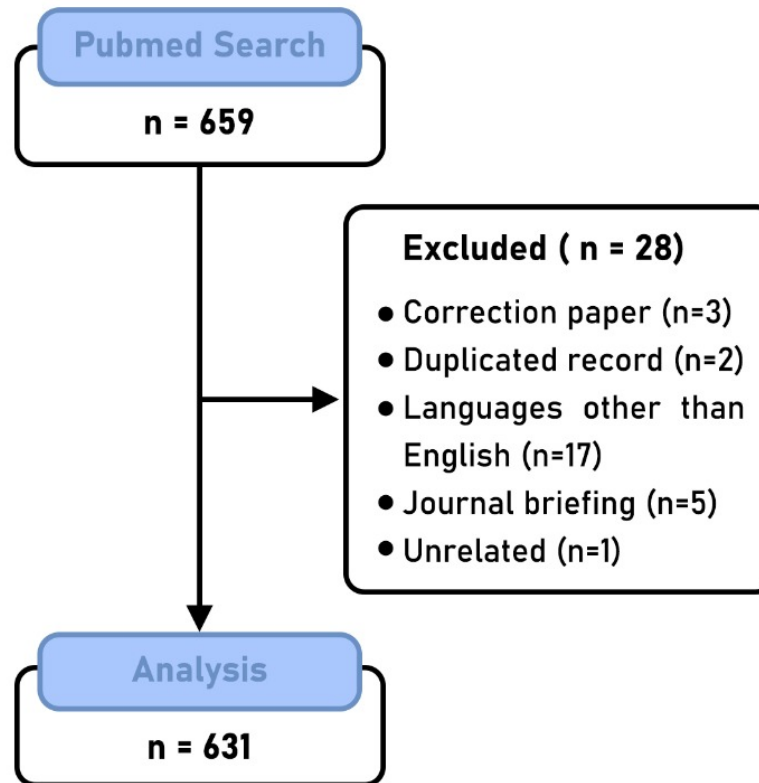
LitCovid: Comprehensive curated literature collection regarding the 2019 novel Coronavirus

[Access LitCovid](#)

 **VOSviewer**
Visualizing scientific landscapes

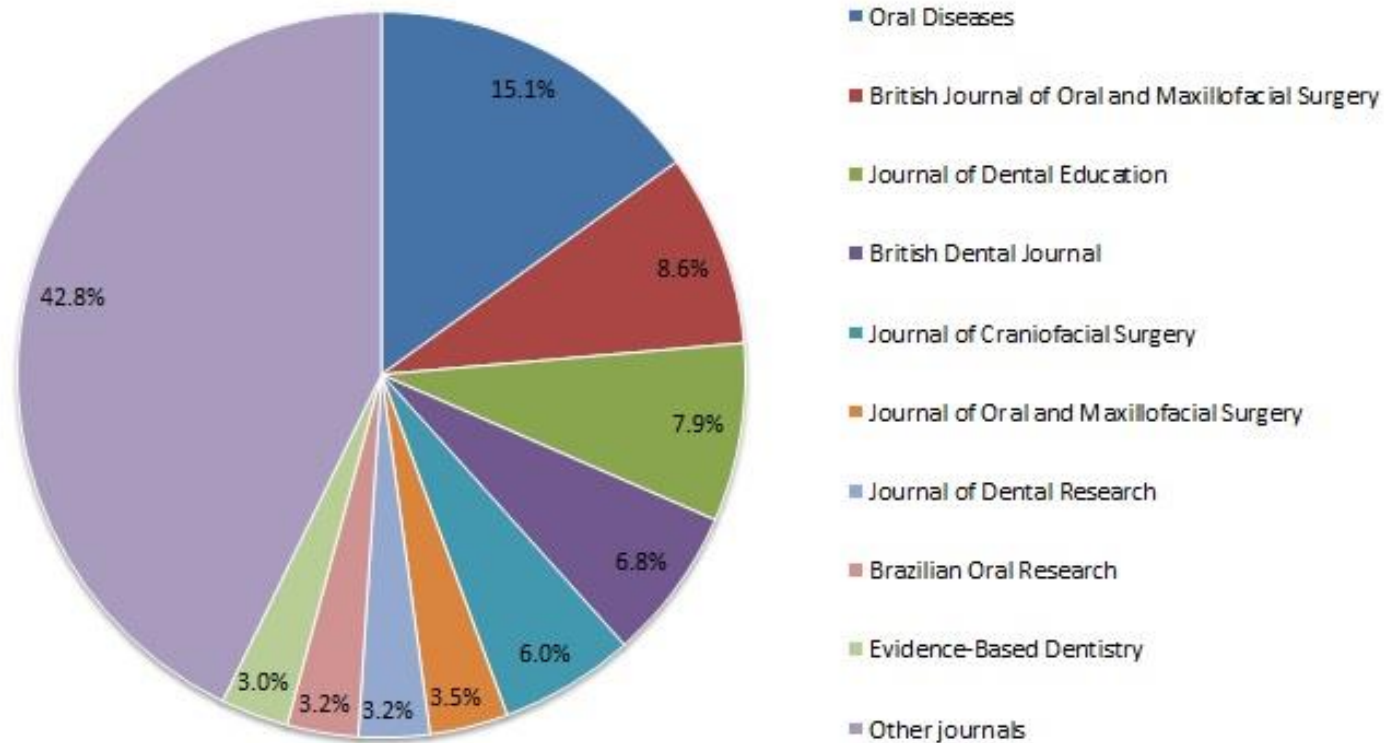
Nees Jan van Eck and Ludo Waltman
Centre for Science and Technology Studies
Leiden University

Results and Discussion



Flow diagram of the analyzed articles.

Results and Discussion

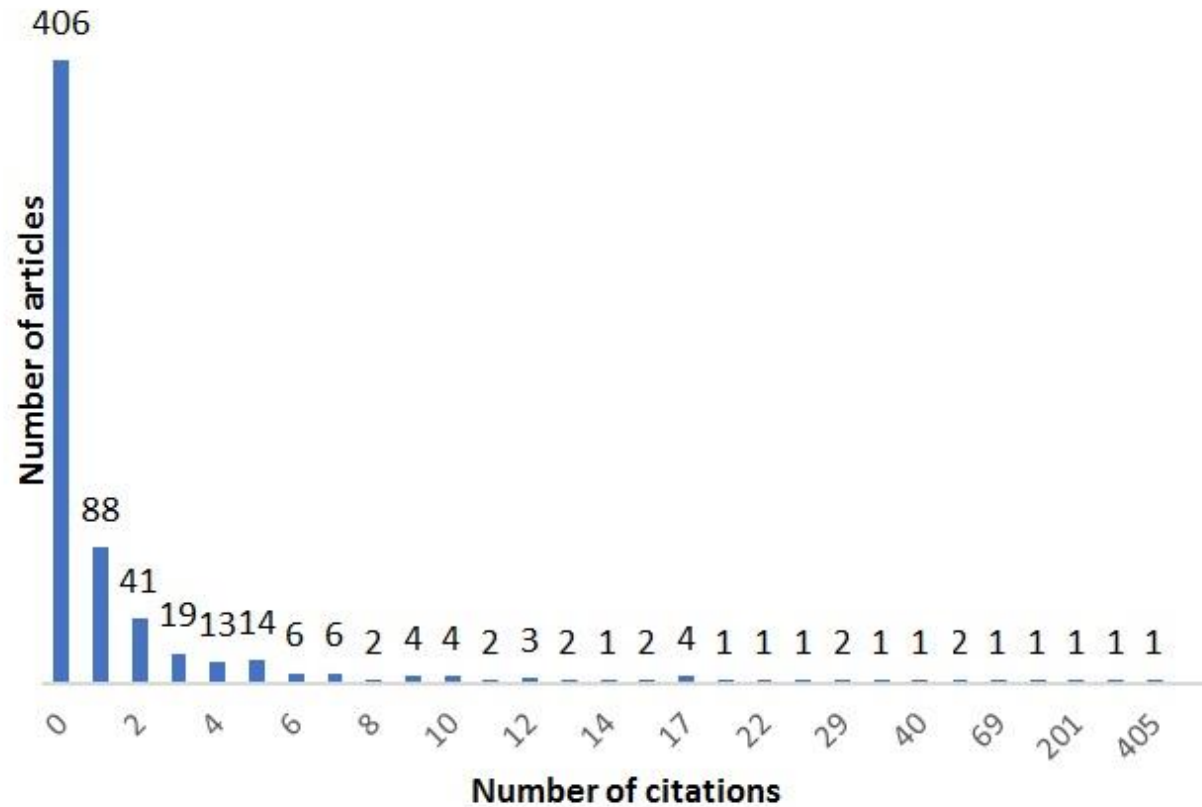


Dental journals with the highest number of COVID-19 articles.

Results and Discussion

1. United States (168)
2. United Kingdom (120)
3. Brazil (83)
4. Italy (64)
5. China (53)
6. India (35)

Results and Discussion



frequency of PubMed citations.

ARTICLE [OPEN](#)

High expression of ACE2 receptor of 2019-nCoV on the epithelial cells of oral mucosa

Hao Xu¹, Liang Zhong¹, Jiaxin Deng¹, Jiakuan Peng¹, Hongxia Dan¹, Xin Zeng¹, Taiwen Li¹ and Qianming Chen¹

REVIEW ARTICLE [OPEN](#)

Transmission routes of 2019-nCoV and controls in dental practice

Xian Peng¹, Xin Xu¹, Yuqing Li¹, Lei Cheng¹, Xuedong Zhou¹ and Biao Ren¹

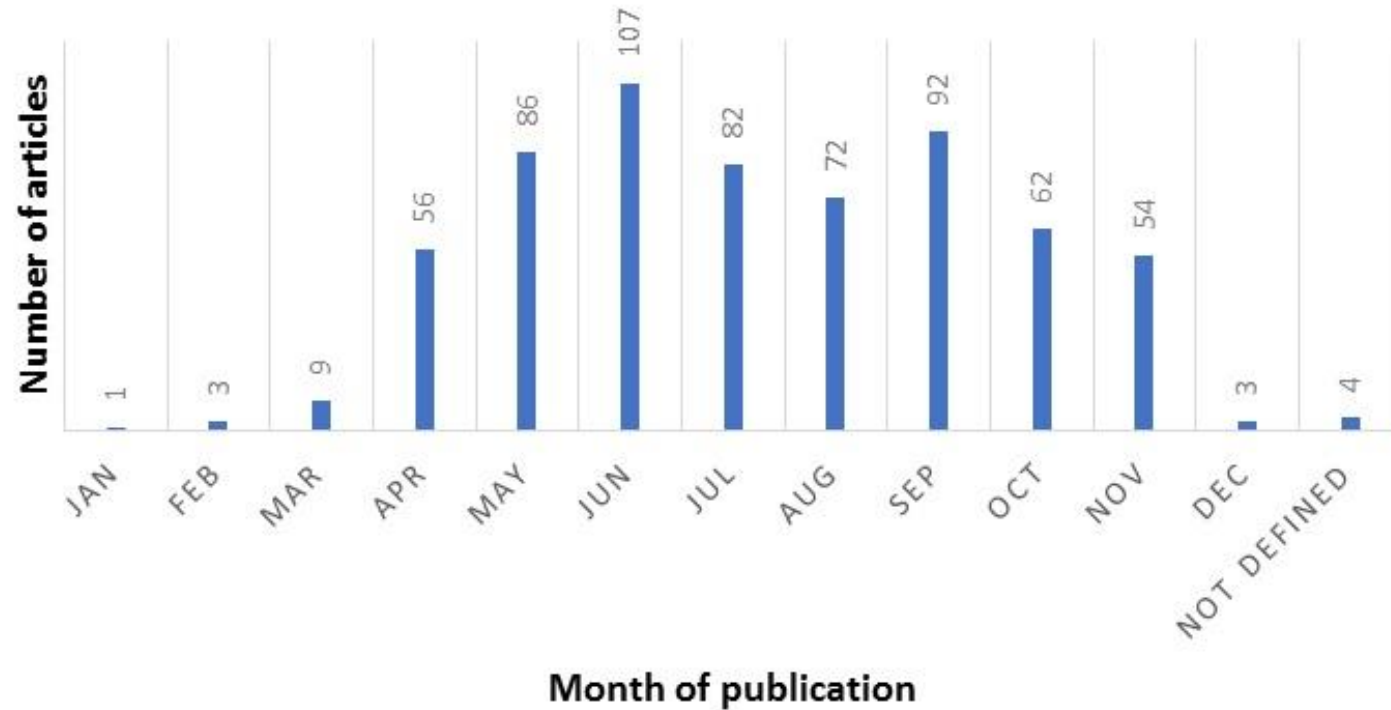
Discovery!

Coronavirus Disease 2019 (COVID-19): Emerging and Future Challenges for Dental and Oral Medicine

L. Meng¹, F. Hua² , and Z. Bian¹ 

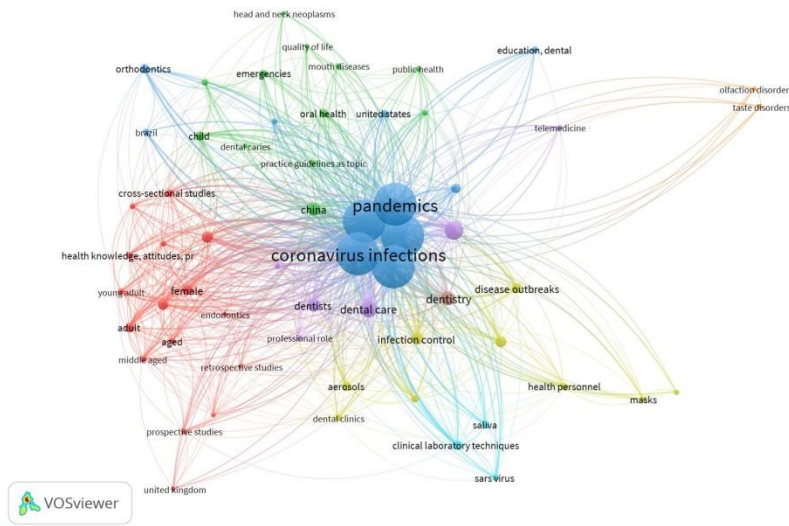
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Results and Discussion

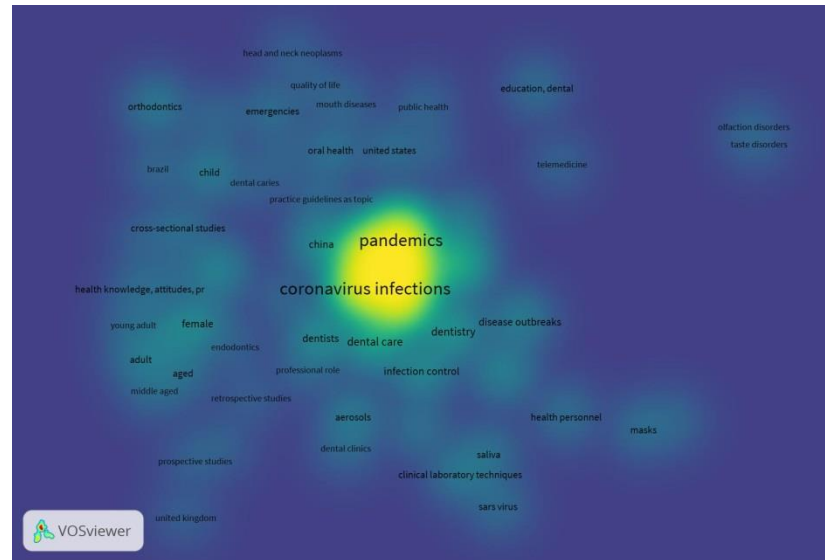


Frequency of articles published in different months.

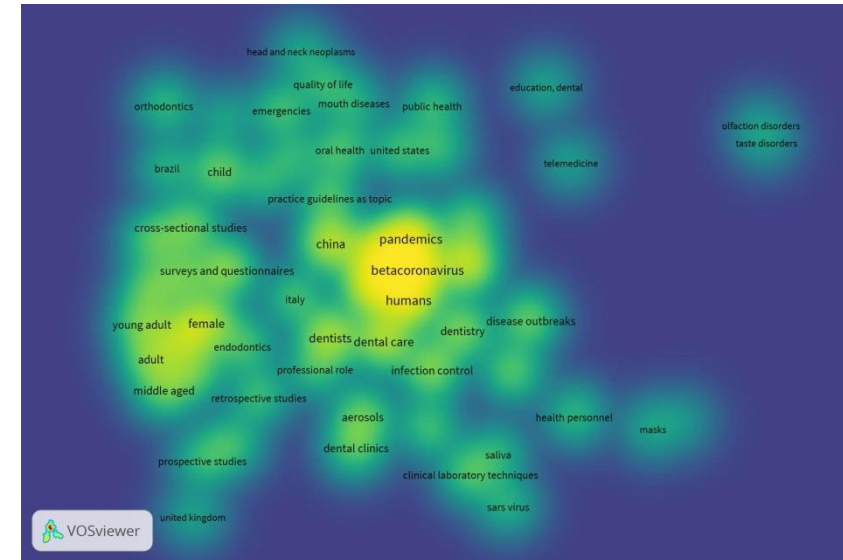
Results and Discussion



a



b



c

(a) Network visualization of the keywords showing 60 nodes and 8 clusters; (b) Density visualization of the keywords in occurrence (c) and link modes.

Conclusions

- The dental community has been active in publication of COVID-19 articles from the beginning of the pandemic.
- A total of 659 articles were found in the PubMed COVID-19 database with a wide range of topics.
- Further subject- specific reviews are recommended in order to address important implications of COVID- 19 in dentistry.

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