VOSviewer 1.6.20: Used to construct collaboration network maps of countries, authors, and institutions, as well as a keyword co-occurrence network map. Detailed information is as follows.

Tool: VOSviewer
Version: 1.6.20
Platform: Windows 11
Data Source: Web of Science Core Collection (2000–2025)
File format used: .txt (downloaded from WoS as full records and cited references)

1. Keyword Co-occurrence Map
Type of analysis: Co-occurrence
Unit of analysis: All Keywords
Counting method: Full counting
Minimum number of occurrences of a keyword: 13 (Out of 3,463 keywords, 139 met this threshold)
Layout: LinLog/modularity-based
Clustering algorithm: Default (modularity optimization)
Resolution: Default (1.00)
Attraction / Repulsion: Default
Normalization: Association strength
Output: 5 clusters identified

2. Country Co-authorship Network
Type of analysis: Co-authorship
Unit of analysis: Countries
Minimum number of documents per country: 5 (Out of 86 countries, 44 met this threshold)
Counting method: Full counting
Clustering method: Modularity-based
Layout: Force-directed
Normalization: Association strength
Output: Multi-cluster international cooperation map

3. Institutional Collaboration Network
Type of analysis: Co-authorship
Unit of analysis: Organizations
Minimum number of documents per organization: 5 (Out of 1,265 institutions, 73 met the threshold)
Counting method: Full counting
Layout: LinLog
Clustering: Based on modularity class
Output: Inter-institutional collaboration network

4. Author Collaboration Network
Type of analysis: Co-authorship
Unit of analysis: Authors

Minimum number of documents per author: 5 (Out of 3,414 authors, 20 met this threshold)
Counting method: Full counting
Clustering: Modularity-based algorithm
Layout: Force-directed (default)
Output: Author collaboration clusters

CiteSpace 6.2.R6: Used to generate a co-citation network of references, a keyword temporal evolution map, and a keyword burst detection map. Detailed information is as follows.
Tool: CiteSpace
Version: 6.2.R6 (64-bit Advanced)
Platform: Windows 11
Data Source: Web of Science Core Collection
File format used: Web of Science Export (.txt)
Time slicing: 2003–2025 (1 year per slice)
Selection criteria: g-index (k=25), LRF=3.0, LBY=5, e=1.0
Pruning: Pathfinder
Visualization type: Cluster View (TimeLine), Keyword Time Zone View, and Burst Detection
Layout: Default

Scimago Graphica (https://graphica.app/)：Choropleth world map displaying the number of publications by country.
Parameters:
Aggregation function: Default (Count)
Gradient range: Minimum value = 1, Maximum value = 250
Color scheme: Diverging
From: Brown (low values)
Middle: Gray/Neutral
To: Green (high values)