UNIVERSITY OF DELHI

RESEARCH TRENDS AND TOPICAL THEMATIC ANALYSIS OF PhD THESES

2016 – 2026

Comprehensive Analysis of Research Trends and Topical Thematic Analysis of PhD Theses Submitted in 35 major Subjects

Prepared by:
Dr. Rajesh Singh
University Librarian
&
Ms. Sanya Agarwal
Assistant Librarian

Delhi University Library System
University of Delhi, Delhi-110007

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PhD Thesis (2006-2026) Metadata Curation Team

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Mr. Uttkarsh, Assistant Librarian

Mr. Vinay Kumar Vishwakarma, Assistant Librarian

PhD Thesis (2006-2026) Metadata Creation Team

O P Gupta, Sanjeev Kumar, Mohammad Shariq, Sunita, Suman, Komal Savitri, Anita, Shazia, Meenu Saini, Shalni, Shushma, and Santosh Kumar

Special Mention

Prof. Rajeev Gupta, HOD, Department of Chemistry

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Executive Summary

This report presents a comprehensive analysis of PhD theses in 35 Subjects, awarded by the University of Delhi over the period 2016–2026. Dominant research themes, their evolution, and forecasts of emerging trends were derived using advanced Natural Language Processing and machine learning techniques to inform strategic decision-making.

Key Highlights

4,999 Total PhD Theses Analysed	**2016-2026** Period
35 Total Subjects	**Python-Based In-house Developed Tool** Tool Used

Subject List:
African Studies, Anthropology, Bio-Chemistry, Botany, Buddhist Studies, Chemistry, Commerce, Computer Science, East Asian Studies, Economics, Education, Electronic Sciences, English, Environmental Studies, Genetics, Geography, Geology, History, Home Science, Law, Library Science, Management Studies, Mathematical Sciences, Medical Sciences, Microbiology, Philosophy, Physical Education, Physics and Astrophysics, Plant and Molecular Biology, Political Science, Psychology, Sociology, Statistics, Technology, Zoology

1. Introduction

1.1 Background

The University of Delhi, esteemed for its varied academic offerings, has consistently produced research that substantially enhances global knowledge. This report presents a comprehensive analysis of PhD theses submitted in the 35 subjects at the University of Delhi between 2016 and 2026. Using advanced Natural Language Processing (NLP) and machine learning techniques, we extract research concepts, identify thematic patterns, track temporal evolution, and forecast emerging trends, uncovering patterns that illustrate the evolving nature of academic inquiry and social demands.

1.2 Objectives

The primary objectives of this analysis are to:

- Identify the dominant research concepts and themes in 35 major subjects of the University of Delhi
- Track the evolution of research focus areas over the 10-year period (2016-2026)
- Predict emerging trends and growth areas for the next 5 years
- Assess research diversity and provide data-driven recommendations for strategic planning

1.3 Scope

This analysis covers all PhD theses submitted between March 2016 and November 2026 across the University of Delhi's 35 subjects. The dataset includes thesis titles, abstracts, year of completion, student names, and supervisor information.

1.4 Limitations

The current report highlights the overall landscape of the PhD theses submitted to the University of Delhi (2016-2026). However, there could be several limitations to the study, as follows:

- Language Issues: PhD theses in Indian languages may have been treated inconsistently
- Data inconsistencies: We have observed several impurities in the data that are beyond rectification, and hence, there might be several inconsistencies in the analysis.
- Technical limitations: The analysis is based on NLP and machine-learning models (TF-IDF, LDA) and may carry the biases of these models; concept labels are machine-generated and may include residual noise.
- Data Gap: No records are available for the year 2020 due to COVID-19.

2. Methodology

2.1 Data Collection

PhD thesis data were collected from library records. For each thesis, the following information was extracted:

- Title of the Thesis
- Abstract
- Year of completion
- Keywords (extracted from the title and abstract of the theses using NLP)
- Research area/ subjects

2.2 Analytical Framework

The analysis employs the Thesis Analytics Tool, which uses:

Technique	Purpose
TF-IDF Vectorization	Extract multi-word research concepts (2-4 words)
Latent Dirichlet Allocation	Discover latent topics and thematic clusters
Linear Regression	Predict concept frequency trends (5-year forecast)
Network Analysis	Map concept co-occurrence relationships
Shannon Entropy	Measure research diversity across topics

2.3 Core Technologies and Libraries Used

The Thesis Analytics Tool is built in Python and leverages modern, industry-standard NLP, machine learning, and data processing technologies.

Category	Technology	Purpose
Programming	Python 3.8+	Core language for NLP and data science
Web Framework	Streamlit	Rapid UI development for data applications
NLP/ML	scikit-learn	TF-IDF vectorization, LDA, Linear Regression
Data Processing	pandas, NumPy	DataFrame operations, numerical computations
Visualization	Plotly, Matplotlib	Interactive charts, word clouds
Network Analysis	NetworkX	Co-occurrence network generation and layout

2.4 High-Level System Architecture

The system follows a three-tier architecture:

Layer	Components
Presentation	Streamlit web interface with interactive visualizations (Plotly, Matplotlib)
Analytics	NLP pipeline (TF-IDF, LDA), trend prediction (Linear Regression), network analysis (NetworkX)
Data	CSV/Excel file handling (pandas), text preprocessing, in-memory processing

2.5 Data Flow

1. **Data Ingestion:** CSV/Excel files uploaded via web interface
2. **Preprocessing:** Text cleaning, normalisation, column mapping
3. **Feature Extraction:** TF-IDF vectorisation, n-gram generation
4. **Analysis:** Concept extraction, topic modelling, trend prediction
5. **Visualisation:** Interactive charts, diagrams, and word clouds

3. Subjects Profile

This section provides a detailed Research Trends and Topical Thematic Analysis of PhD theses submitted between 2016 and 2026, across the University of Delhi's 35 subjects.

3.1 African Studies

3.1.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	77
Average per Year	7.7
Peak Year (Highest Output)	2026 | 24 Theses

3.1.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.820**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	33.8%
Number of Active Topics	6

3.1.3 Top Research Concepts: Concept Cloud



Figure 3.1.1: African Studies: Concept Cloud showing Top Research Concepts

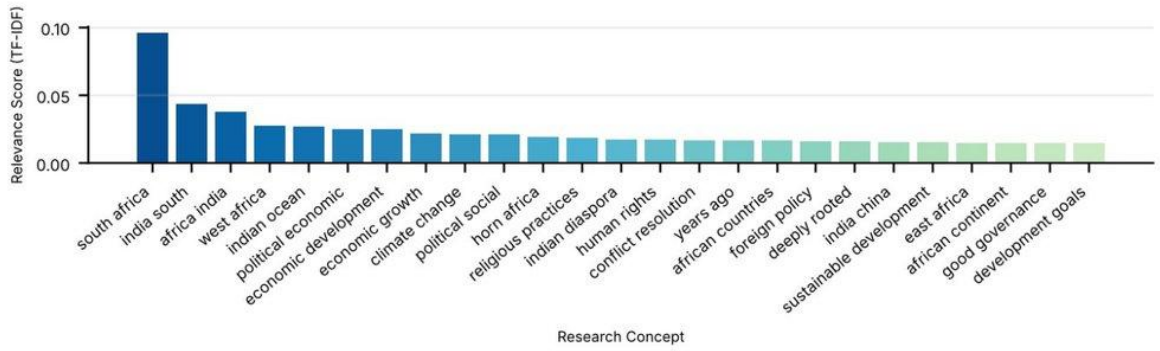

Figure 3.1.2: African Studies: Top Concepts by Relevance

3.1.4 Alluvial / Sankey Topic-Evolution Diagram

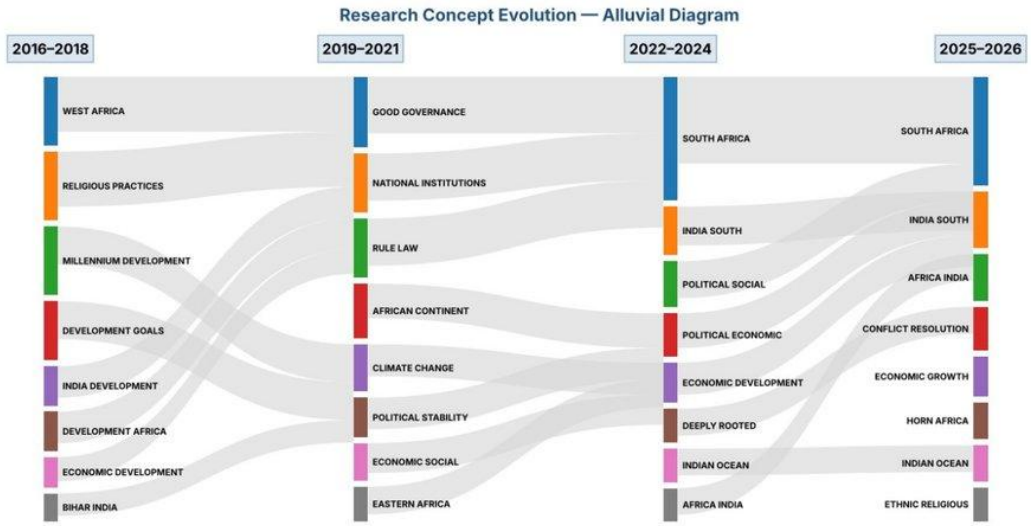

Figure 3.1.3: African Studies: Alluvial diagram showing the topic evolution over 2016-2026

3.1.5 Research Concept Co-occurrence Network

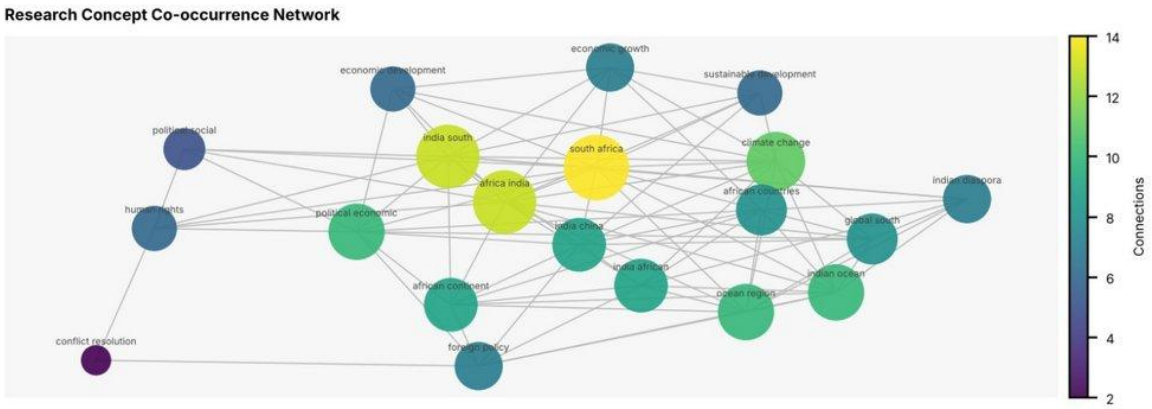

Figure 3.1.4: African Studies: Research Concept Co-occurrence Network

3.1.6 Growing and Emerging Concepts

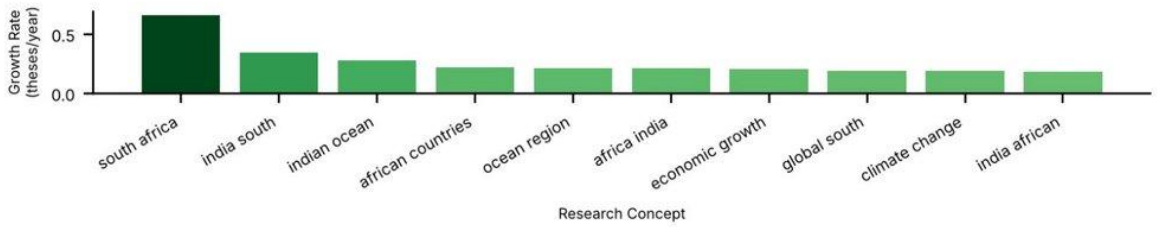

Figure 3.1.5: African Studies: Growing Research Concept

3.2 Anthropology

3.2.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	161
Average per Year	16.1
Peak Year (Highest Output)	2026 | 30 Theses

3.2.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.896**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	26.1%
Number of Active Topics	7

3.2.3 Top Research Concepts: Concept Cloud



Figure 3.2.1: Anthropology: Concept Cloud showing Top Research Concepts

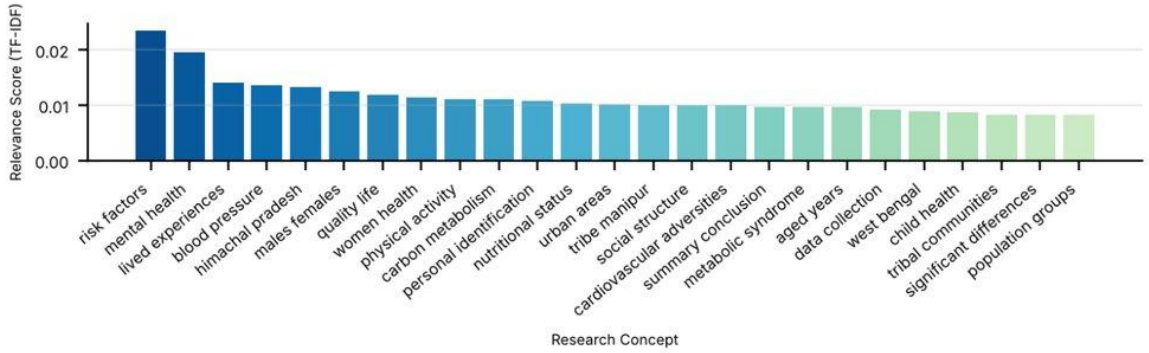

Figure 3.2.2: Anthropology: Top Concepts by Relevance

3.2.4 Alluvial / Sankey Topic-Evolution Diagram

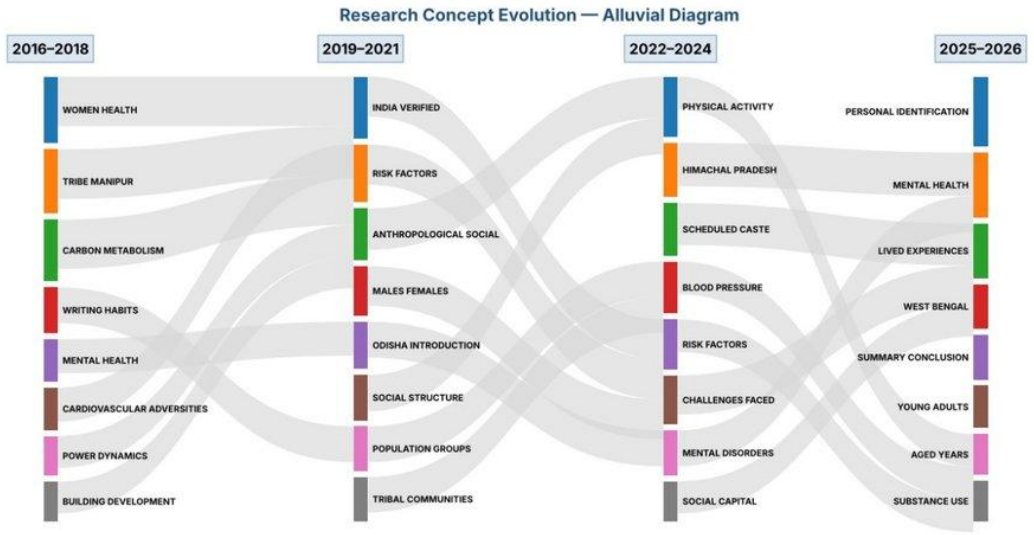

Figure 3.2.3: Anthropology: Alluvial diagram showing the topic evolution over 2016-2026

3.2.5 Research Concept Co-occurrence Network

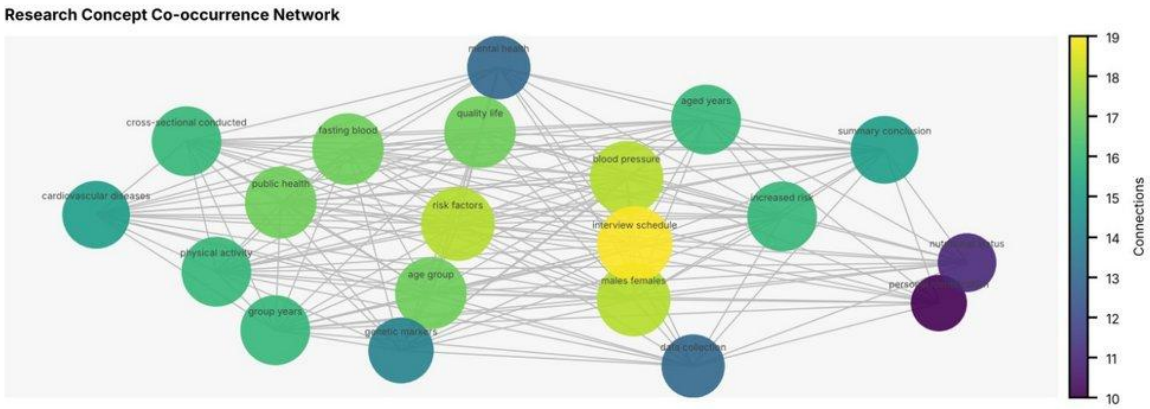

Figure 3.2.4: Anthropology: Research Concept Co-occurrence Network

3.2.6 Growing and Emerging Concepts

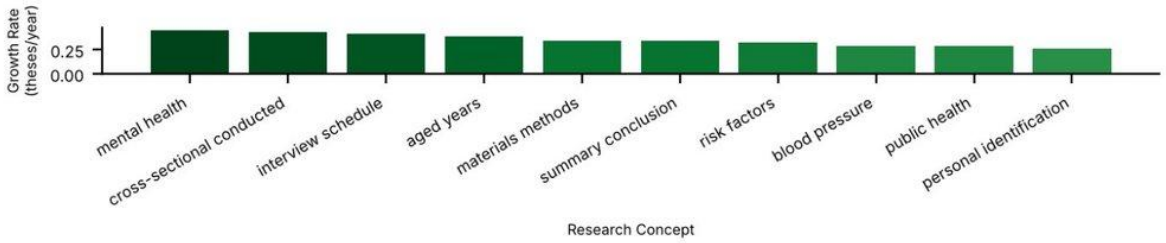

Figure 3.2.5: Anthropology: Growing Research Concept

3.3 Bio-Chemistry

3.3.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	48
Average per Year	4.8
Peak Year (Highest Output)	2017 | 10 Theses

3.3.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.756**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	27.1%
Number of Active Topics	5

3.3.3 Top Research Concepts: Concept Cloud

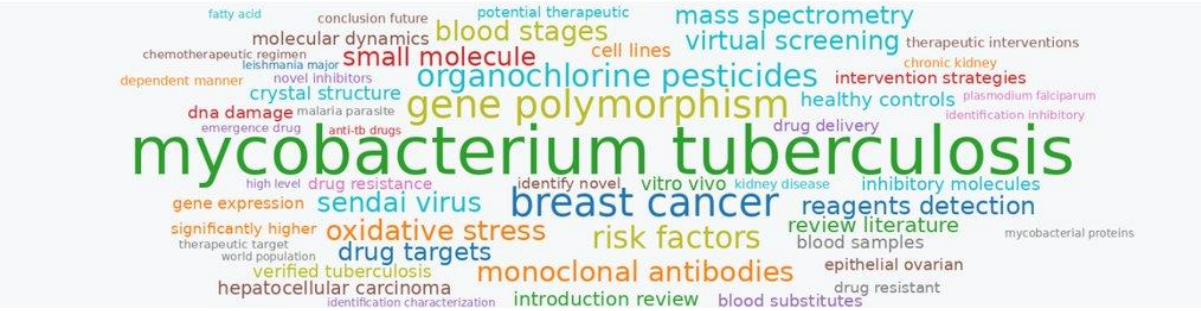

Figure 3.3.1: Bio-Chemistry: Concept Cloud showing Top Research Concepts

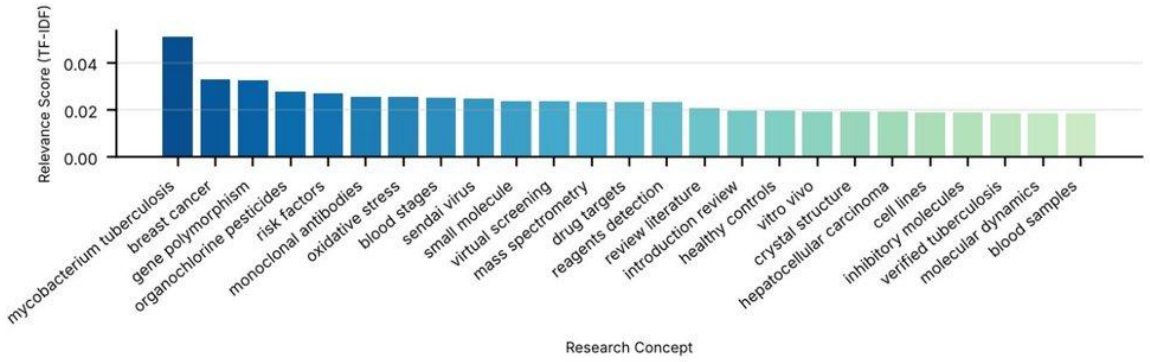

Figure 3.3.2: Bio-Chemistry: Top Concepts by Relevance

3.3.4 Alluvial / Sankey Topic-Evolution Diagram

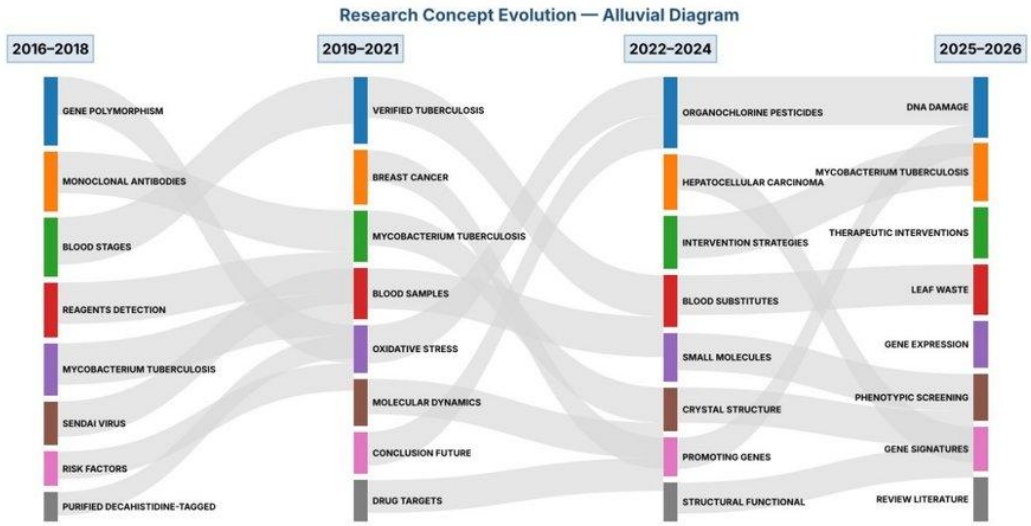

Figure 3.3.3: Bio-Chemistry: Alluvial diagram showing the topic evolution over 2016-2026

3.3.5 Research Concept Co-occurrence Network

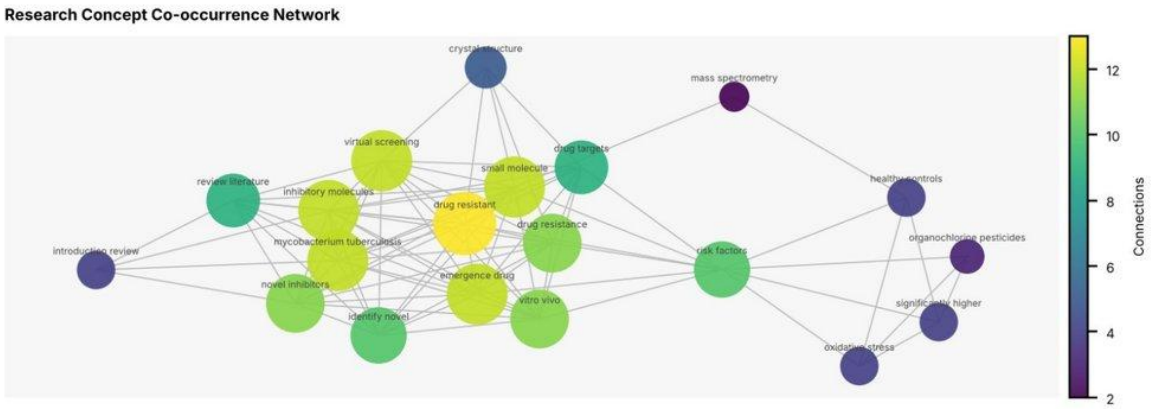

Figure 3.3.4: Bio-Chemistry: Research Concept Co-occurrence Network

3.3.6 Growing and Emerging Concepts

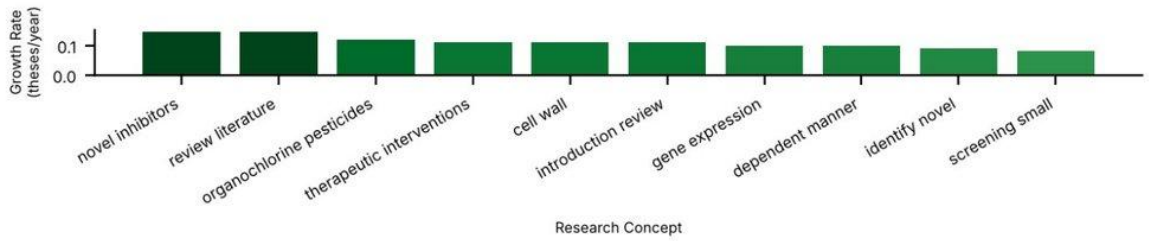

Figure 3.3.5: Bio-Chemistry: Growing Research Concept

3.4 Botany

3.4.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	163
Average per Year	16.3
Peak Year (Highest Output)	2017 | 22 Theses

3.4.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.605**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	45.4%
Number of Active Topics	4

3.4.3 Top Research Concepts: Concept Cloud

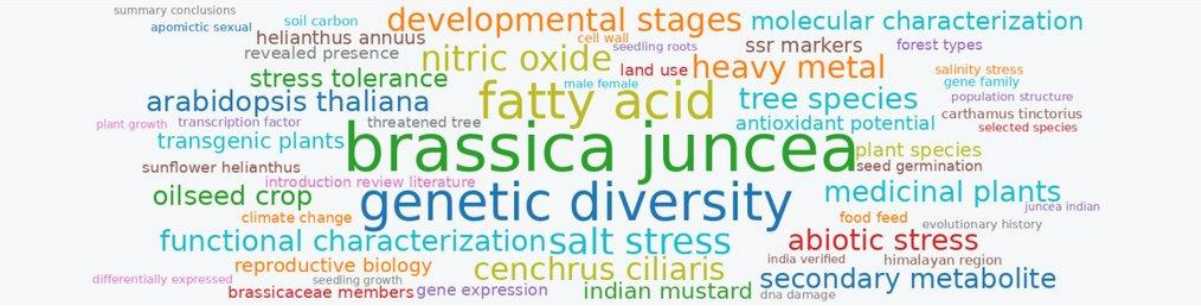

Figure 3.4.1: Botany: Concept Cloud showing Top Research Concepts

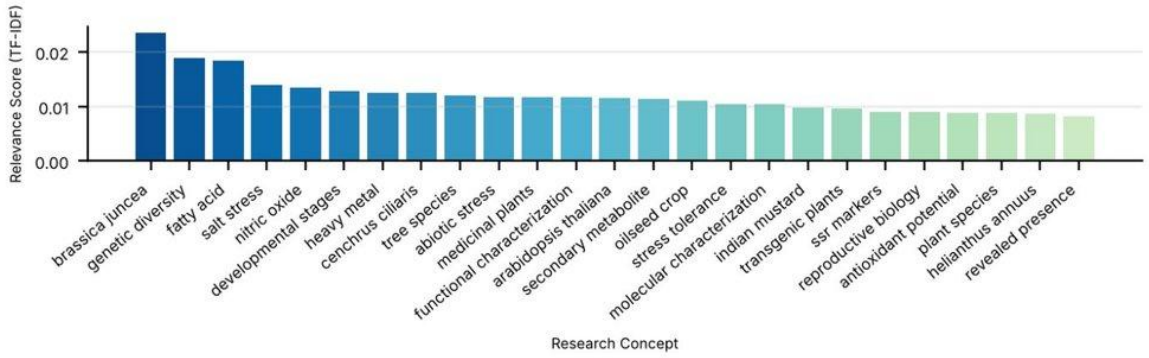

Figure 3.4.2: Botany: Top Concepts by Relevance

3.4.4 Alluvial / Sankey Topic-Evolution Diagram

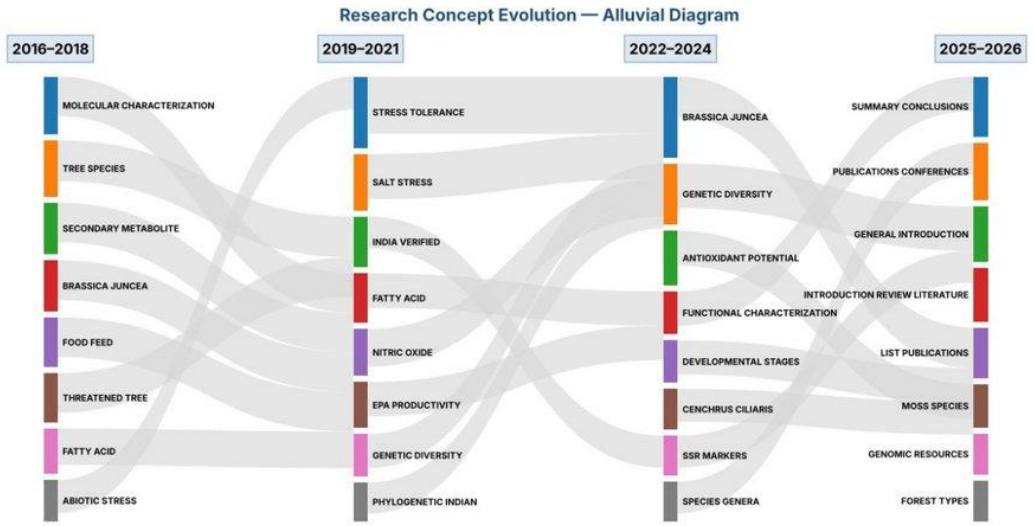

Figure 3.4.3: Botany: Alluvial diagram showing the topic evolution over 2016-2026

3.4.5 Research Concept Co-occurrence Network

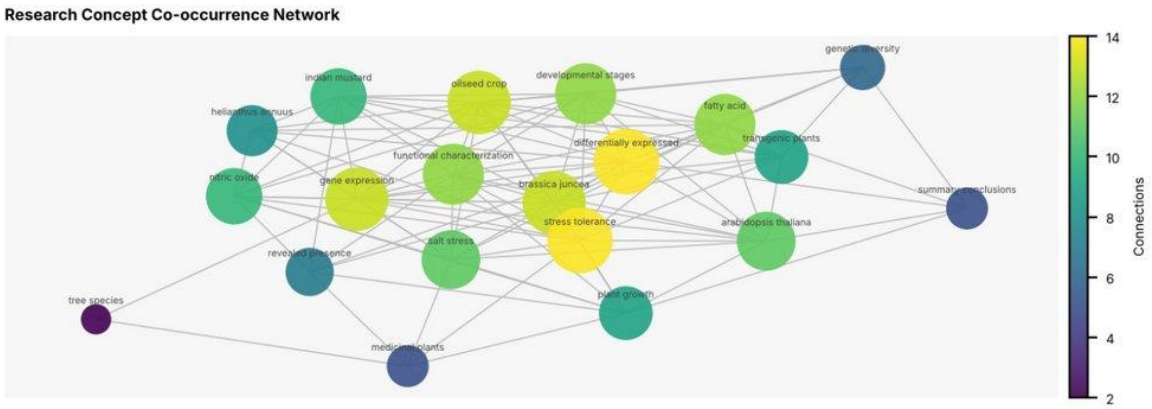

Figure 3.4.4: Botany: Research Concept Co-occurrence Network

3.4.6 Growing and Emerging Concepts

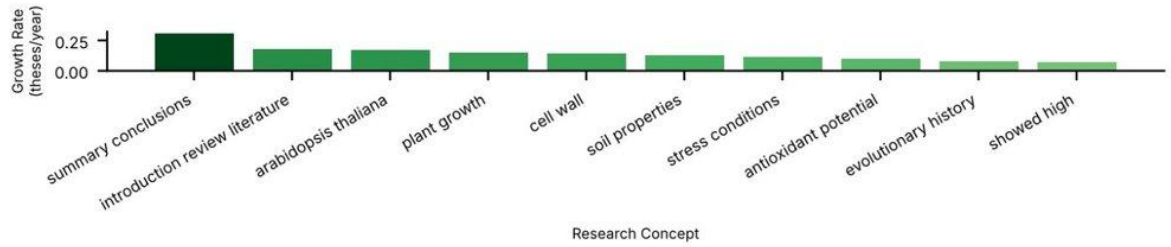

Figure 3.4.5: Botany: Growing Research Concept

3.5 Buddhist Studies

3.5.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	154
Average per Year	15.4
Peak Year (Highest Output)	2026 | 29 Theses

3.5.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.586**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	33.8%
Number of Active Topics	6

3.5.3 Top Research Concepts: Concept Cloud

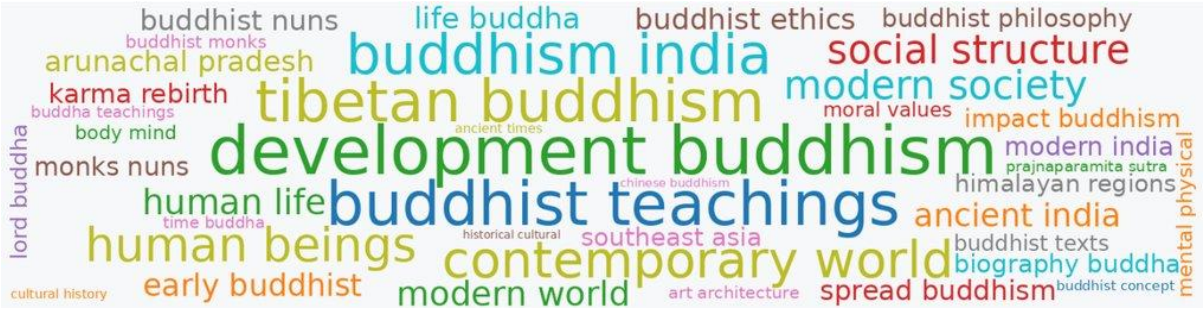

Figure 3.5.1: Buddhist Studies: Concept Cloud showing Top Research Concepts

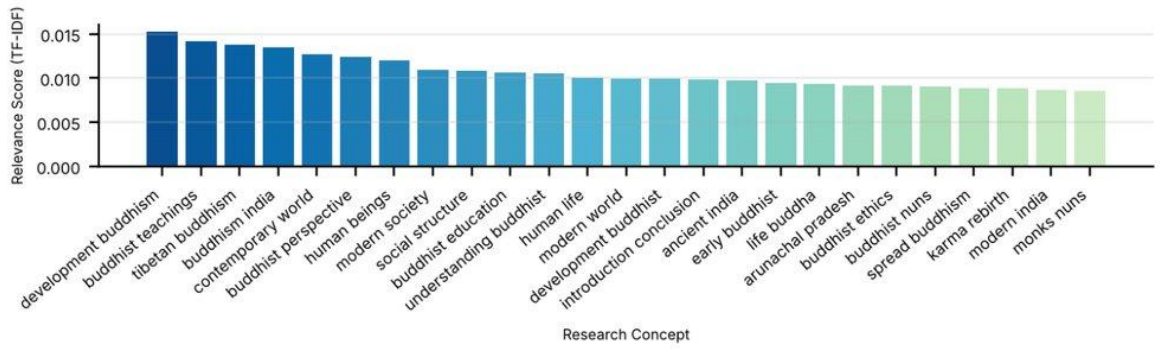

Figure 3.5.2: Buddhist Studies: Top Concepts by Relevance

3.5.4 Alluvial / Sankey Topic-Evolution Diagram

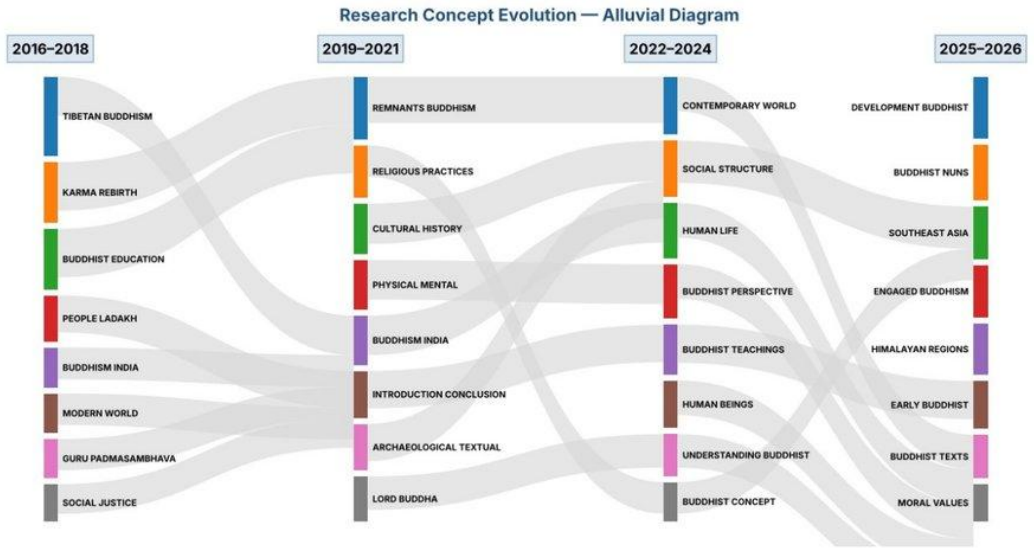

Figure 3.5.3: Buddhist Studies: Alluvial diagram showing the topic evolution over 2016-2026

3.5.5 Research Concept Co-occurrence Network

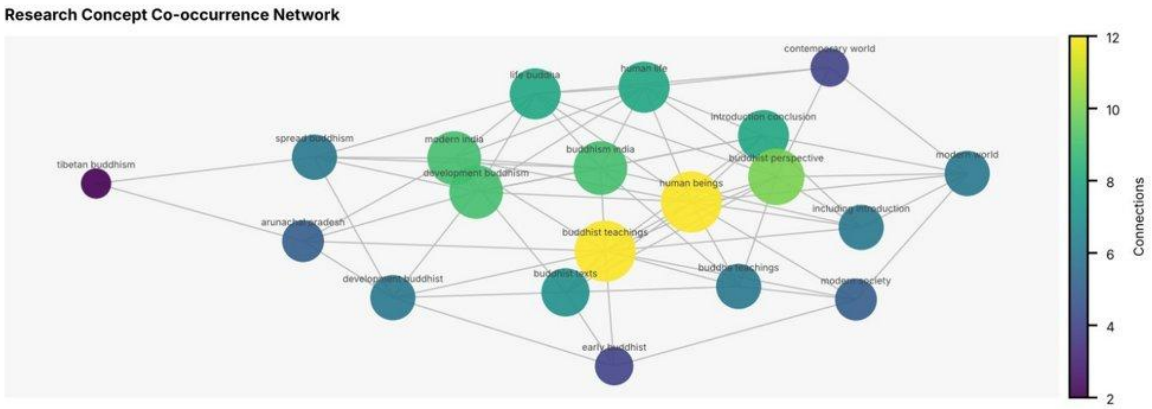

Figure 3.5.4: Buddhist Studies: Research Concept Co-occurrence Network

3.5.6 Growing and Emerging Concepts

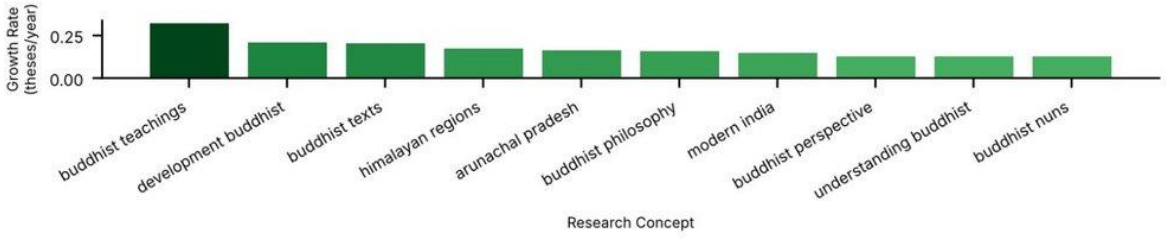

Figure 3.5.5: Buddhist Studies: Growing Research Concept

3.6 Chemistry

3.6.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	472
Average per Year	47.2
Peak Year (Highest Output)	2022 | 62 Theses

3.6.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.799**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	25.4%
Number of Active Topics	6

3.6.3 Top Research Concepts: Concept Cloud

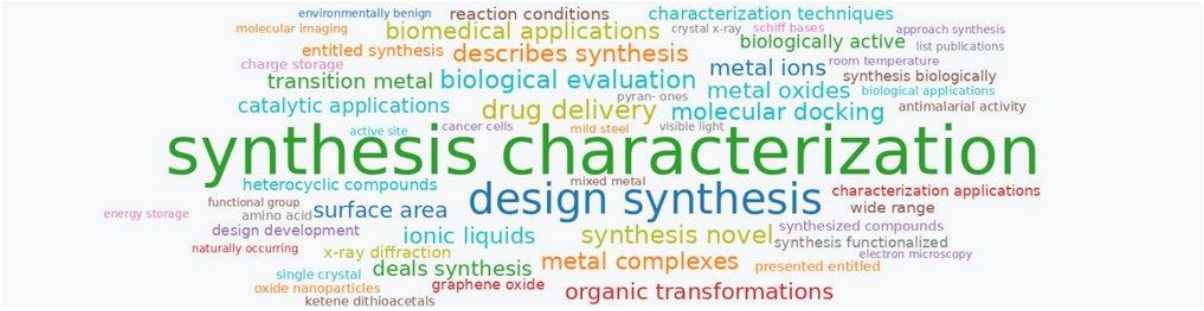

Figure 3.6.1: Chemistry: Concept Cloud showing Top Research Concepts

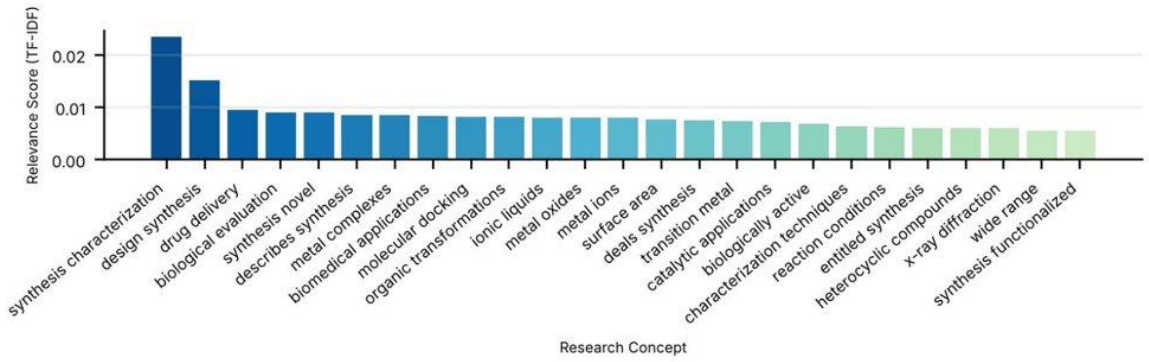

Figure 3.6.2: Chemistry: Top Concepts by Relevance

3.6.4 Alluvial / Sankey Topic-Evolution Diagram

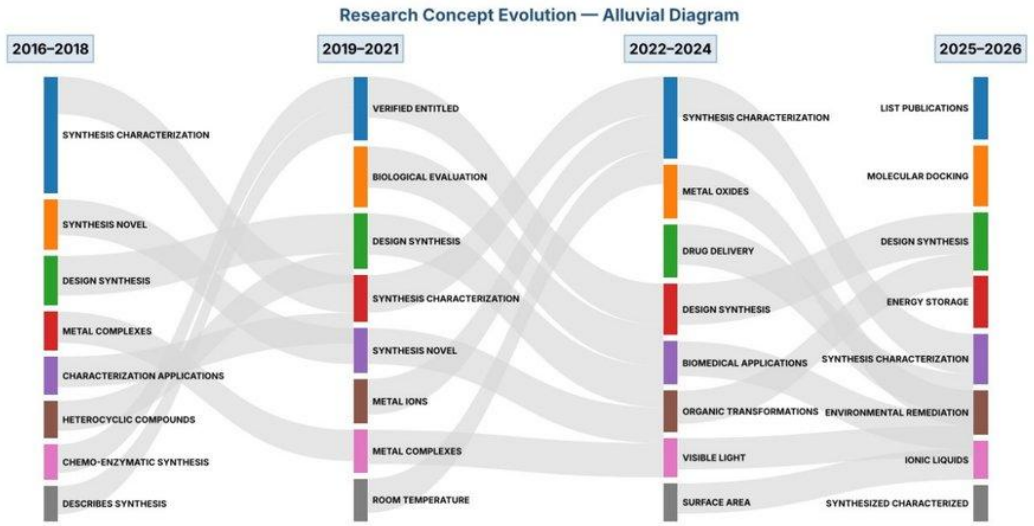

Figure 3.6.3: Chemistry: Alluvial diagram showing the topic evolution over 2016-2026

3.6.5 Research Concept Co-occurrence Network

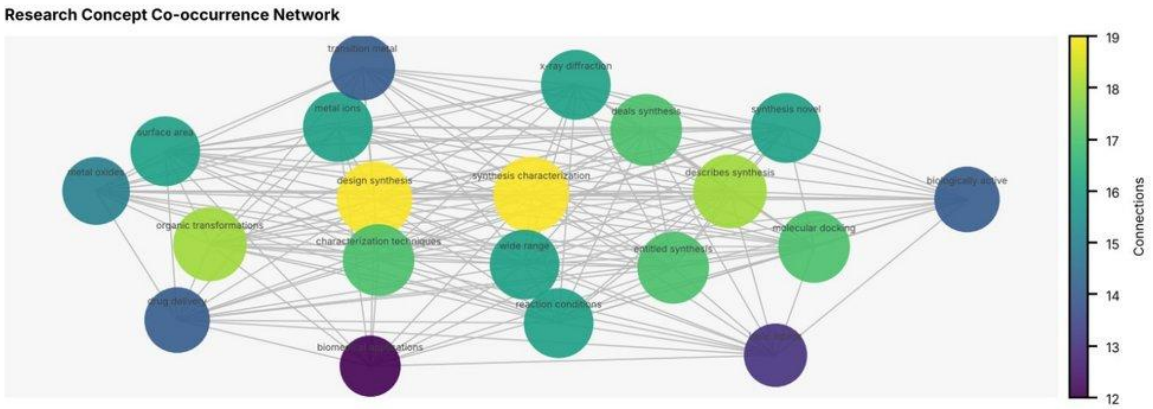

Figure 3.6.4: Chemistry: Research Concept Co-occurrence Network

3.6.6 Growing and Emerging Concepts

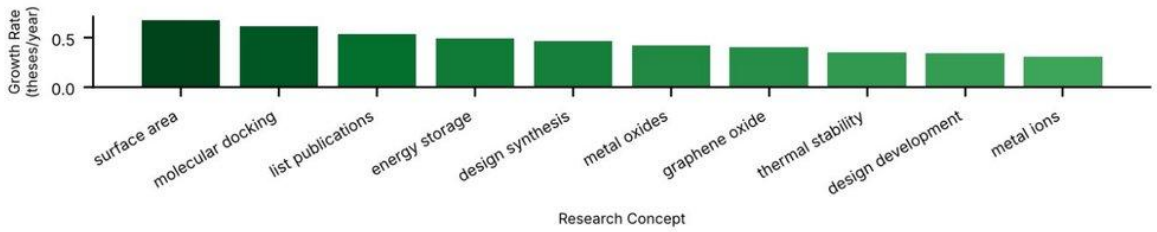

Figure 3.6.5: Chemistry: Growing Research Concept

3.7 Commerce

3.7.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	217
Average per Year	21.7
Peak Year (Highest Output)	2026 | 46 Theses

3.7.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.681**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	40.1%
Number of Active Topics	6

3.7.3 Top Research Concepts: Concept Cloud



Figure 3.7.1: Commerce: Concept Cloud showing Top Research Concepts

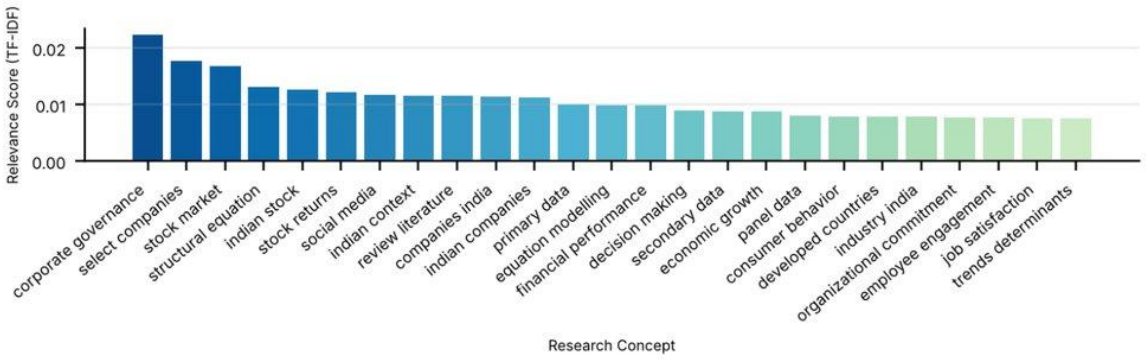

Figure 3.7.2: Commerce: Top Concepts by Relevance

3.7.4 Alluvial / Sankey Topic-Evolution Diagram

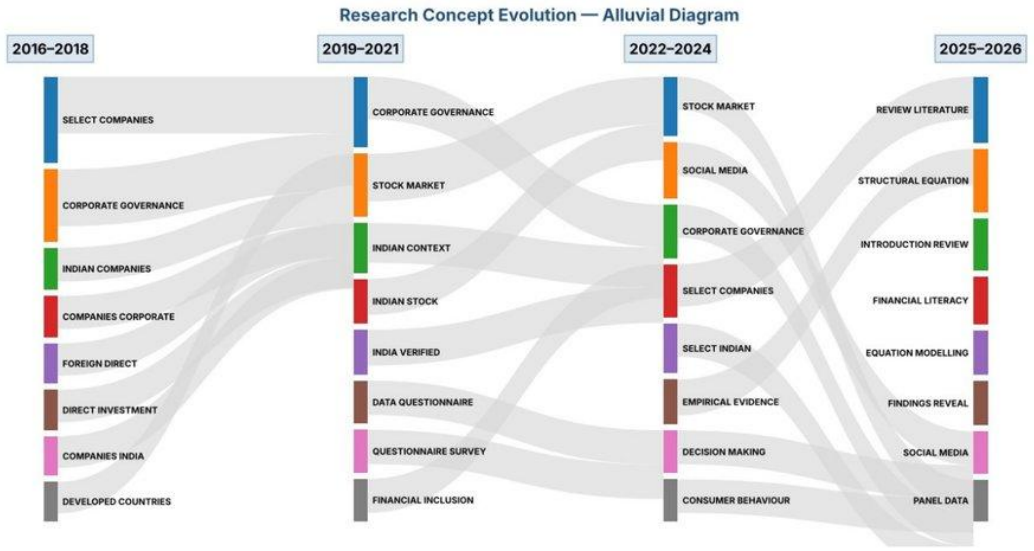

Figure 3.7.3: Commerce: Alluvial diagram showing the topic evolution over 2016-2026

3.7.5 Research Concept Co-occurrence Network

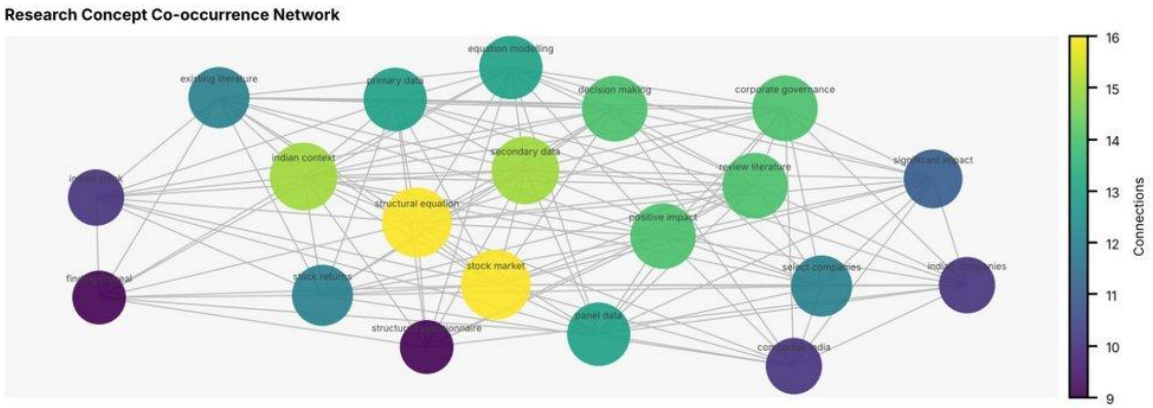

Figure 3.7.4: Commerce: Research Concept Co-occurrence Network

3.7.6 Growing and Emerging Concepts

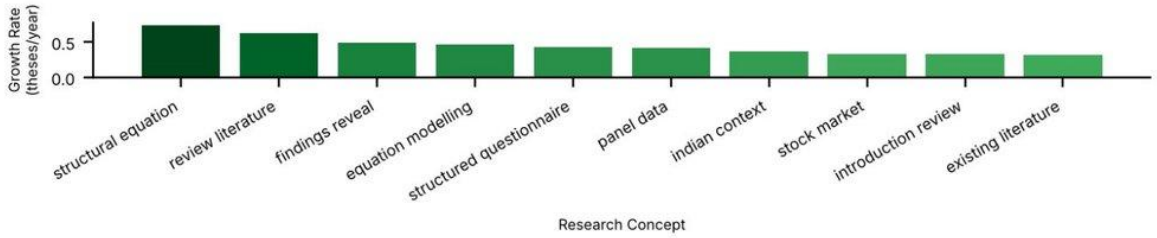

Figure 3.7.5: Commerce: Growing Research Concept

3.8 Computer Science

3.8.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	65
Average per Year	6.5
Peak Year (Highest Output)	2023 | 9 Theses

3.8.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.513**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	44.6%
Number of Active Topics	5

3.8.3 Top Research Concepts: Concept Cloud

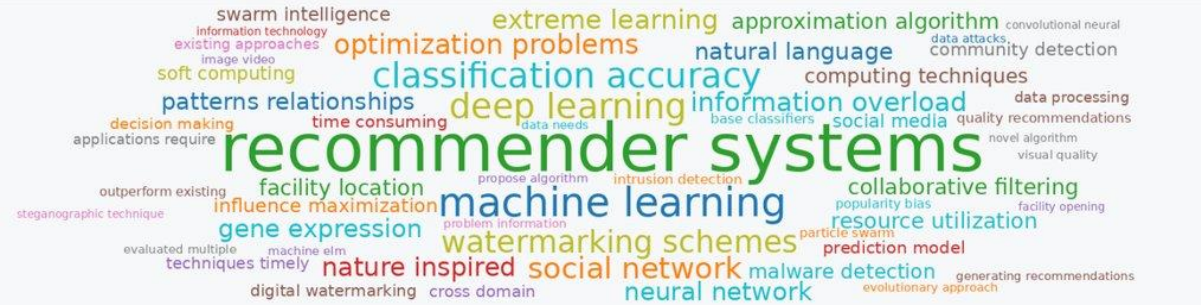

Figure 3.8.1: Computer Science: Concept Cloud showing Top Research Concepts

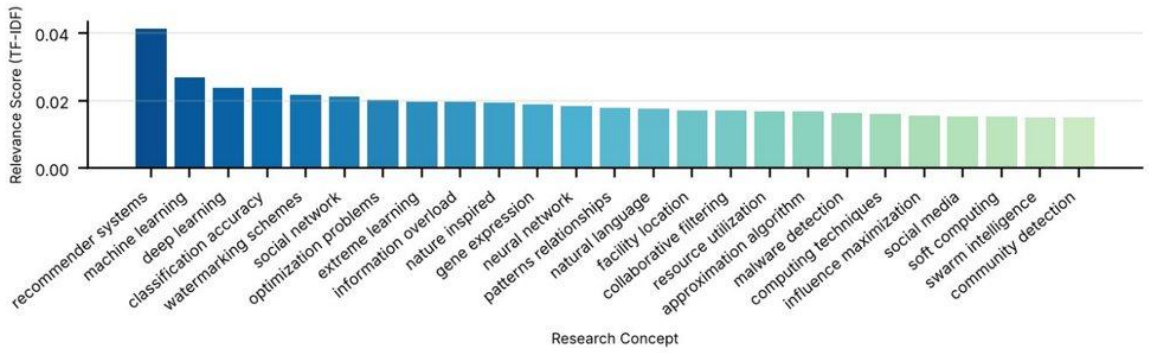

Figure 3.8.2: Computer Science: Top Concepts by Relevance

3.8.4 Alluvial / Sankey Topic-Evolution Diagram

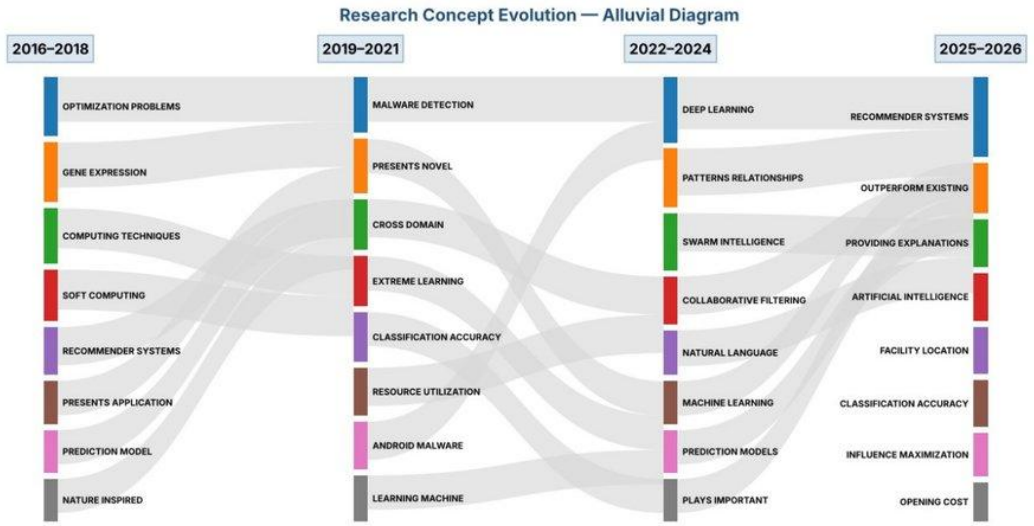

Figure 3.8.3: Computer Science: Alluvial diagram showing the topic evolution over 2016-2026

3.8.5 Research Concept Co-occurrence Network

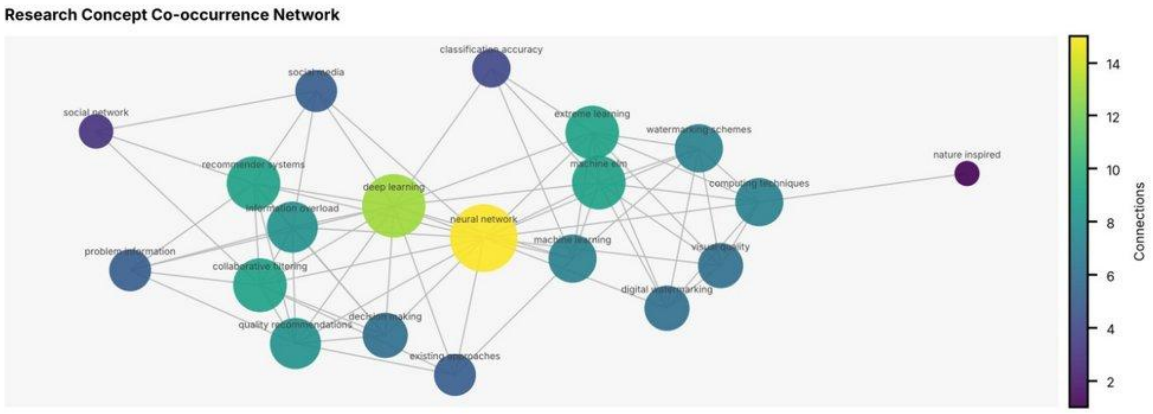

Figure 3.8.4: Computer Science: Research Concept Co-occurrence Network

3.8.6 Growing and Emerging Concepts

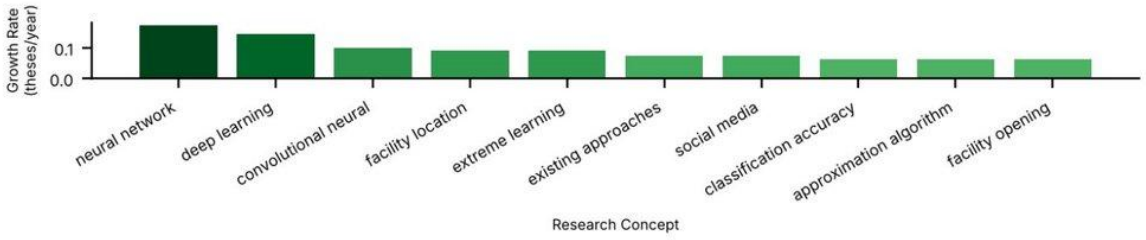

Figure 3.8.5: Computer Science: Growing Research Concept

3.9 East Asian Studies

3.9.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	45
Average per Year	4.5
Peak Year (Highest Output)	2026 | 16 Theses

3.9.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.945**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	28.9%
Number of Active Topics	7

3.9.3 Top Research Concepts: Concept Cloud



Figure 3.9.1: East Asian Studies: Concept Cloud showing Top Research Concepts

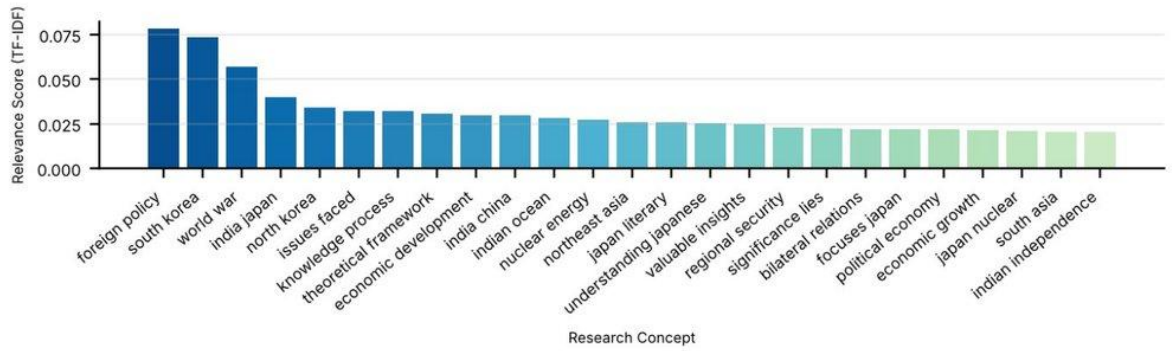

Figure 3.9.2: East Asian Studies: Top Concepts by Relevance

3.9.4 Alluvial / Sankey Topic-Evolution Diagram

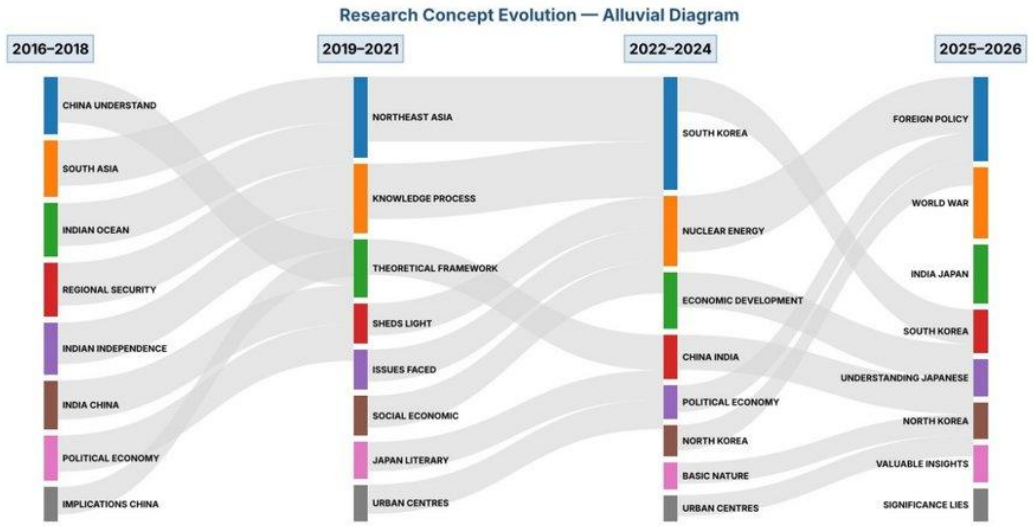

Figure 3.9.3: East Asian Studies: Alluvial diagram showing the topic evolution over 2016-2026

3.9.5 Research Concept Co-occurrence Network

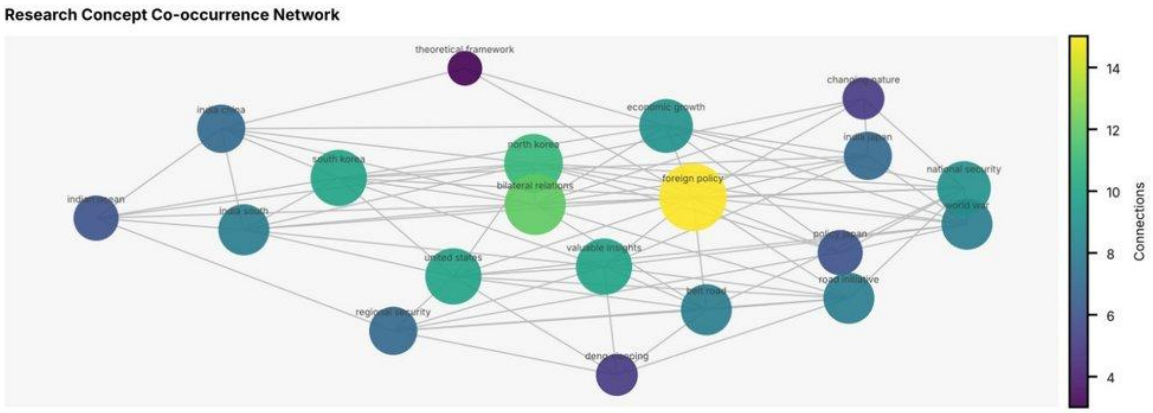

Figure 3.9.4: East Asian Studies: Research Concept Co-occurrence Network

3.9.6 Growing and Emerging Concepts

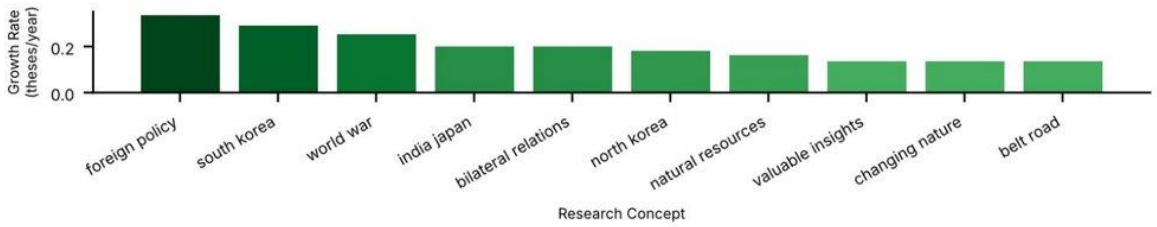

Figure 3.9.5: East Asian Studies: Growing Research Concept

3.10 Economics

3.10.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	58
Average per Year	5.8
Peak Year (Highest Output)	2026 | 9 Theses

3.10.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.917**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	22.4%
Number of Active Topics	6

3.10.3 Top Research Concepts: Concept Cloud



Figure 3.10.1: Economics: Concept Cloud showing Top Research Concepts

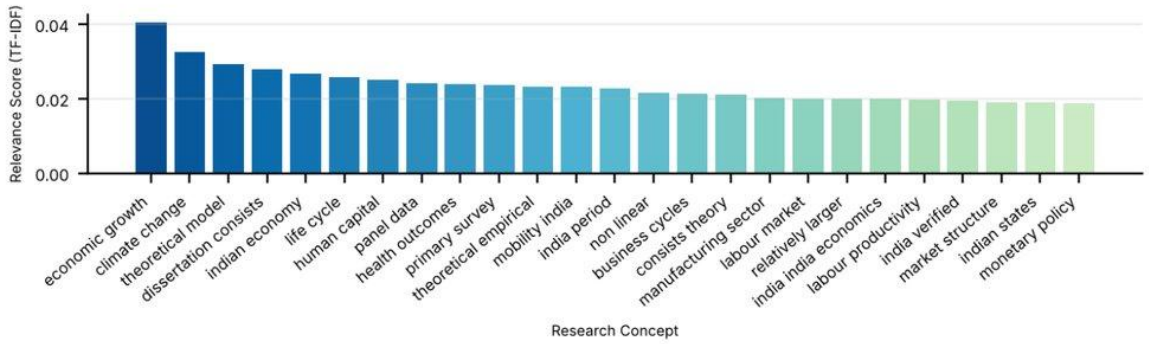

Figure 3.10.2: Economics: Top Concepts by Relevance

3.10.4 Alluvial / Sankey Topic-Evolution Diagram

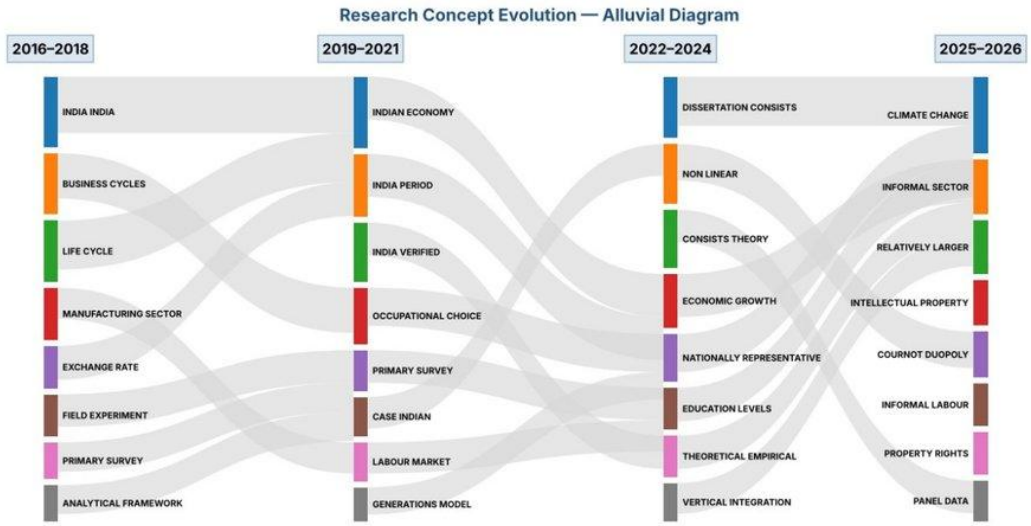

Figure 3.10.3: Economics: Alluvial diagram showing the topic evolution over 2016-2026

3.10.5 Research Concept Co-occurrence Network

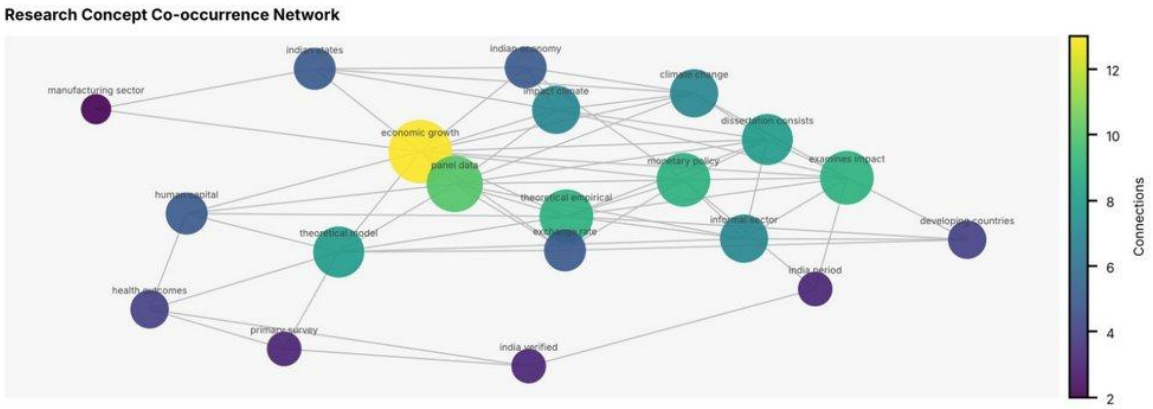

Figure 3.10.4: Economics: Research Concept Co-occurrence Network

3.10.6 Growing and Emerging Concepts

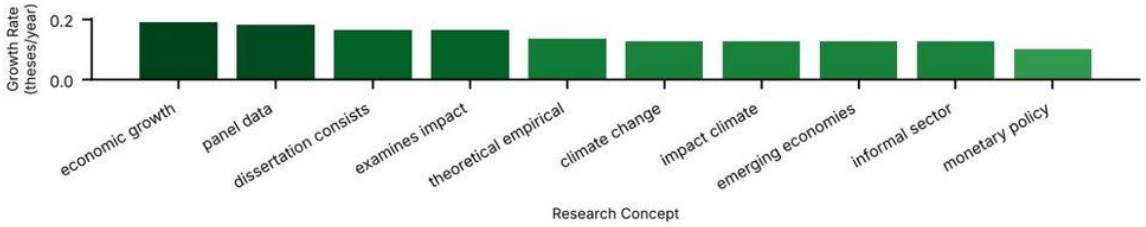

Figure 3.10.5: Economics: Growing Research Concept

3.11 Education

3.11.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	188
Average per Year	18.8
Peak Year (Highest Output)	2026 | 42 Theses

3.11.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.806**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	28.2%
Number of Active Topics	6

3.11.3 Top Research Concepts: Concept Cloud



Figure 3.11.1: Education: Concept Cloud showing Top Research Concepts

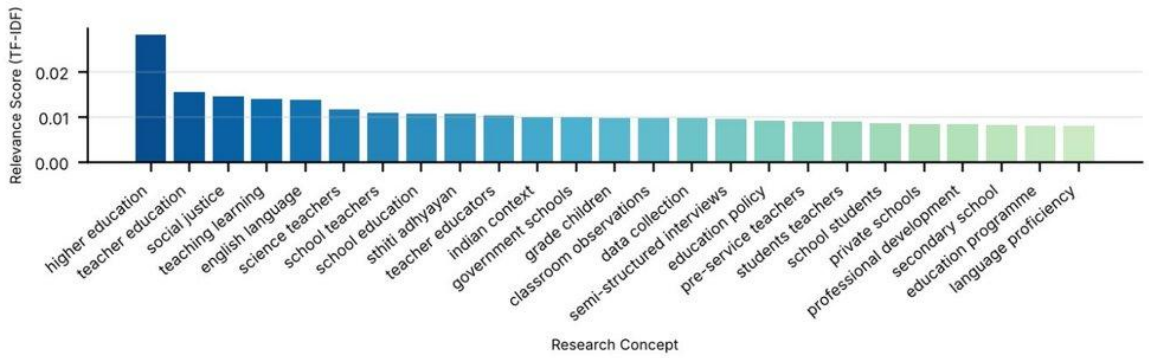

Figure 3.11.2: Education: Top Concepts by Relevance

3.11.4 Alluvial / Sankey Topic-Evolution Diagram

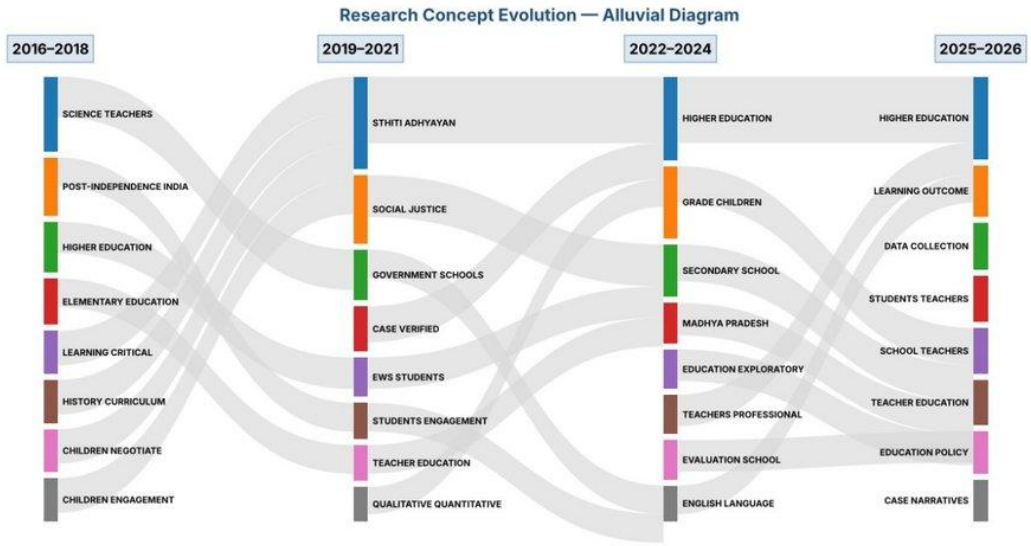

Figure 3.11.3: Education: Alluvial diagram showing the topic evolution over 2016-2026

3.11.5 Research Concept Co-occurrence Network

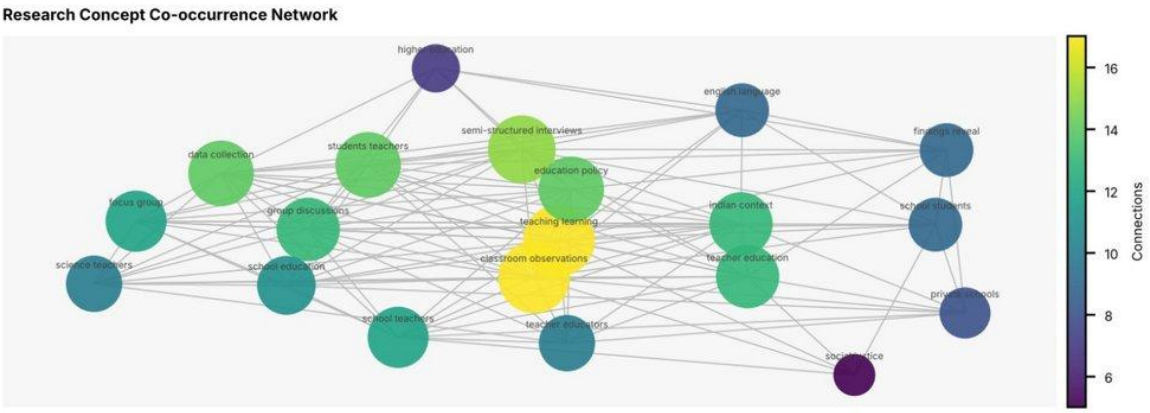

Figure 3.11.4: Education: Research Concept Co-occurrence Network

3.11.6 Growing and Emerging Concepts

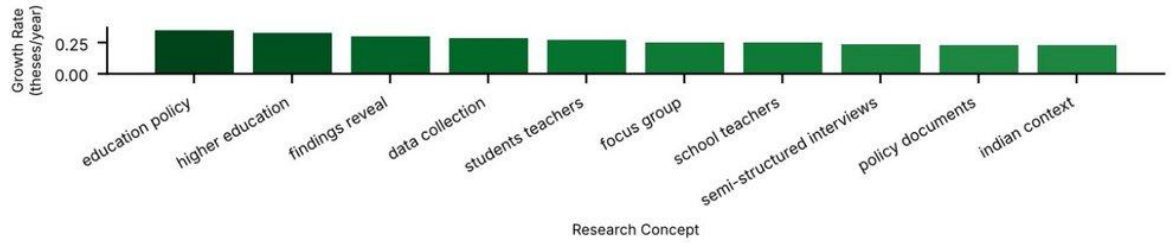

Figure 3.11.5: Education: Growing Research Concept

3.12 Electronic Sciences

3.12.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	76
Average per Year	7.6
Peak Year (Highest Output)	2024 | 12 Theses

3.12.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.806**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	25%
Number of Active Topics	6

3.12.3 Top Research Concepts: Concept Cloud

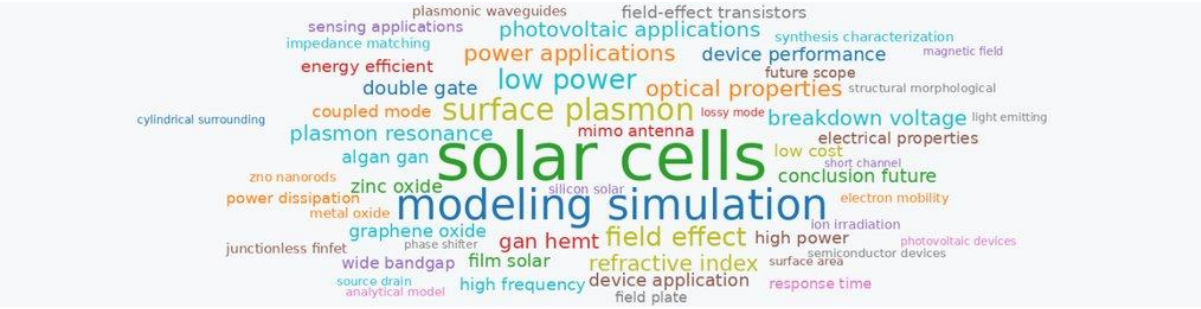

Figure 3.12.1: Electronic Sciences: Concept Cloud showing Top Research Concepts

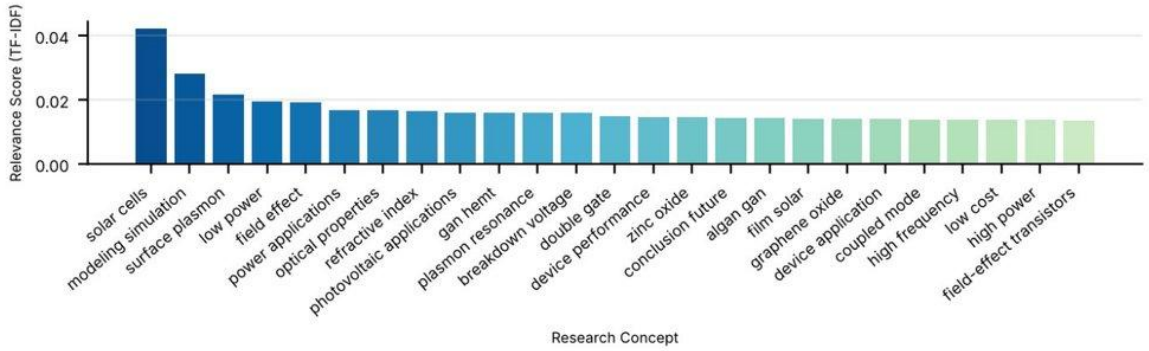

Figure 3.12.2: Electronic Sciences: Top Concepts by Relevance

3.12.4 Alluvial / Sankey Topic-Evolution Diagram

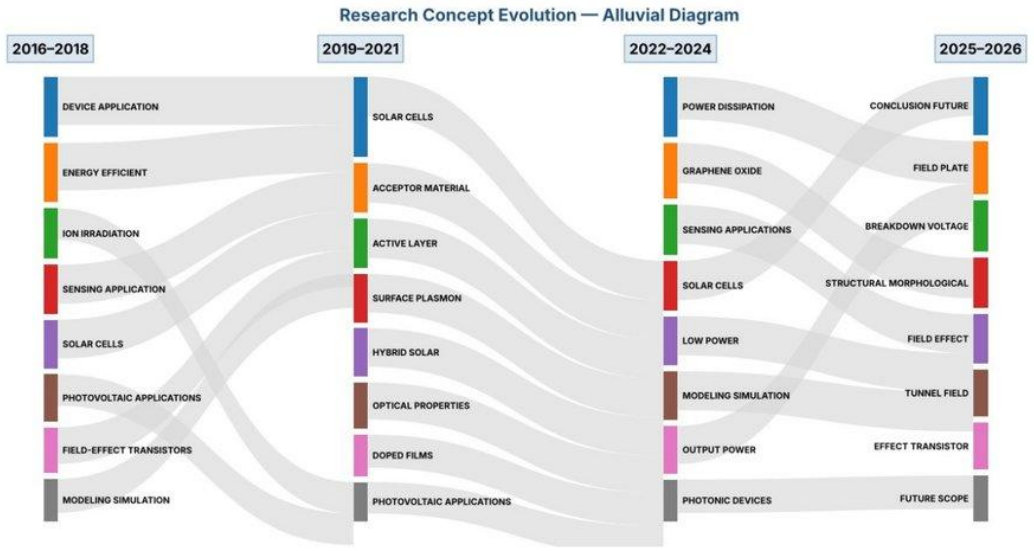

Figure 3.12.3: Electronic Sciences: Alluvial diagram showing the topic evolution over 2016-2026

3.12.5 Research Concept Co-occurrence Network

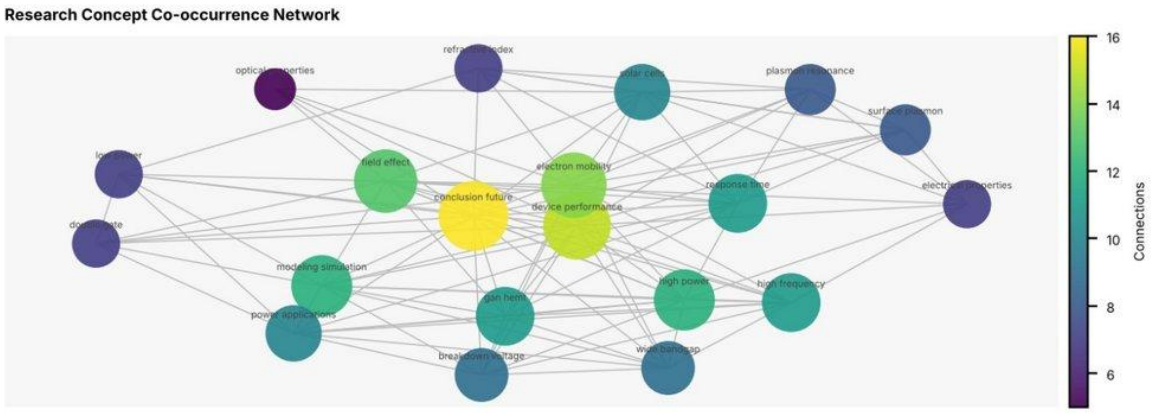

Figure 3.12.4: Electronic Sciences: Research Concept Co-occurrence Network

3.12.6 Growing and Emerging Concepts

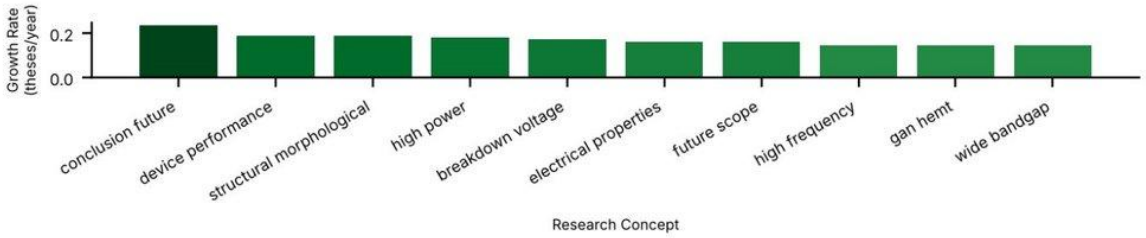

Figure 3.12.5: Electronic Sciences: Growing Research Concept

3.13 English

3.13.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	98
Average per Year	9.8
Peak Year (Highest Output)	2026 | 20 Theses

3.13.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.874**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	29.6%
Number of Active Topics	7

3.13.3 Top Research Concepts: Concept Cloud

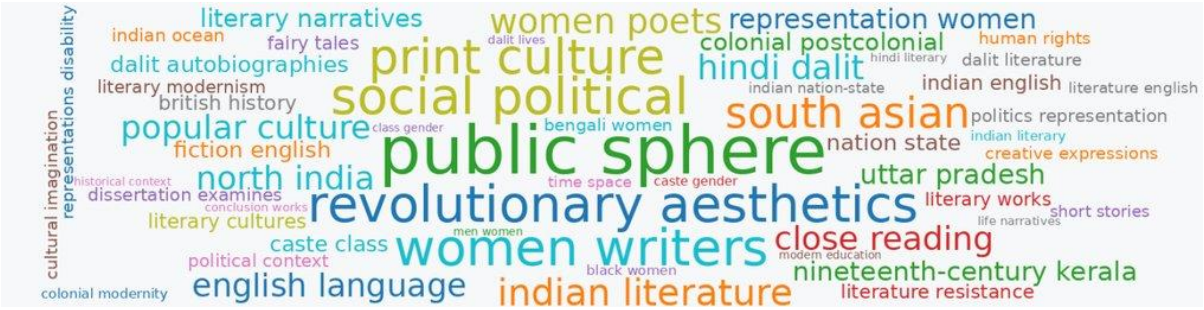

Figure 3.13.1: English: Concept Cloud showing Top Research Concepts

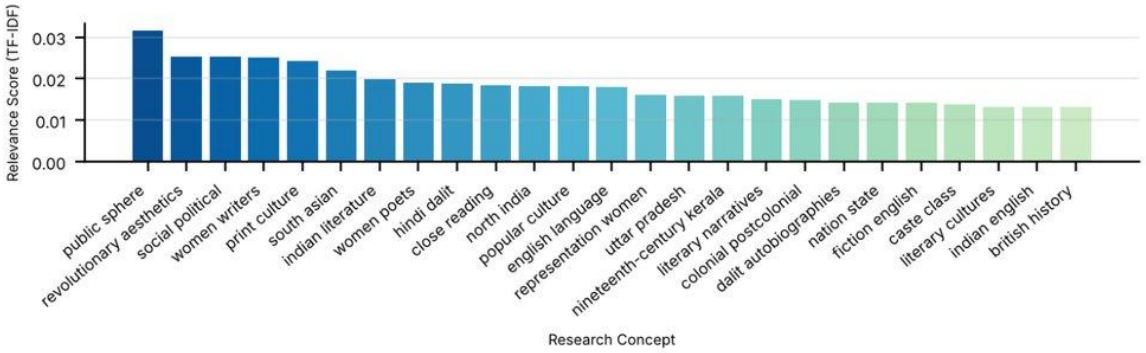

Figure 3.13.2: English: Top Concepts by Relevance

3.13.4 Alluvial / Sankey Topic-Evolution Diagram

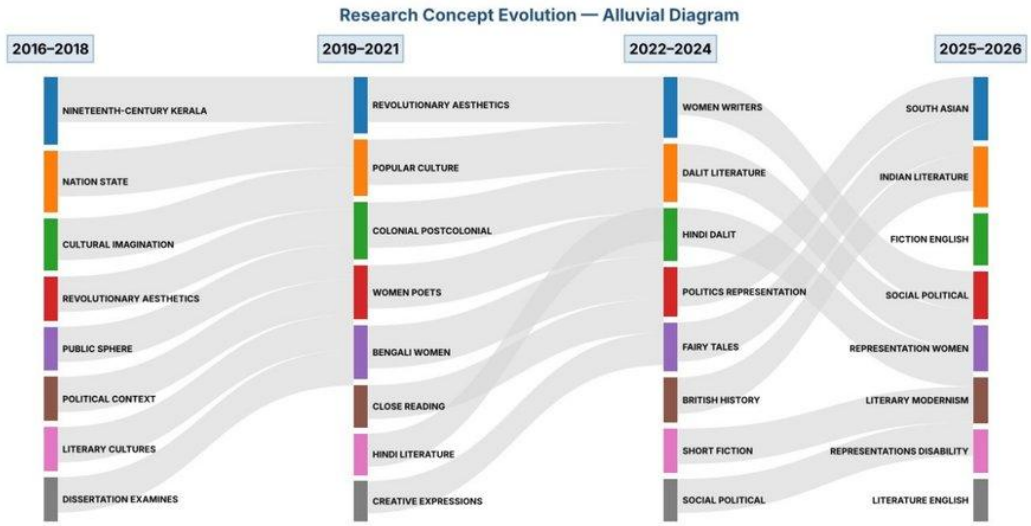

Figure 3.13.3: English: Alluvial diagram showing the topic evolution over 2016-2026

3.13.5 Research Concept Co-occurrence Network

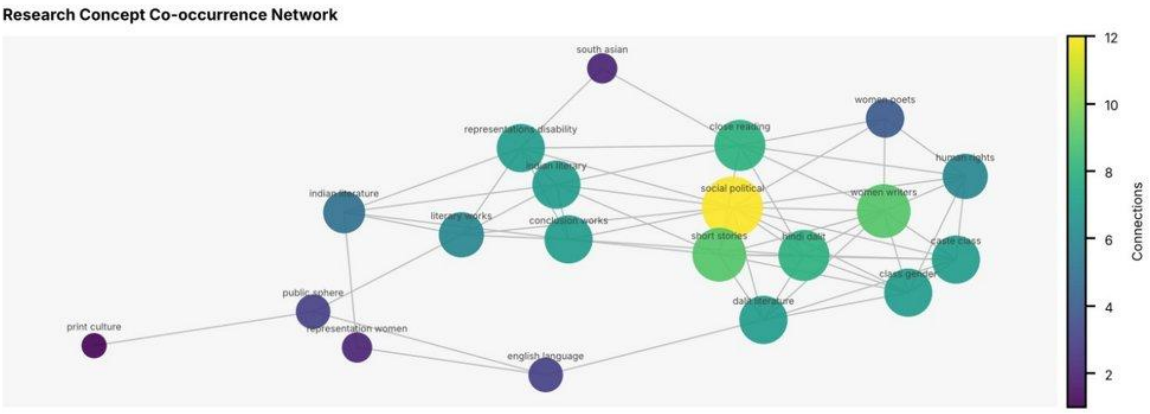

Figure 3.13.4: English: Research Concept Co-occurrence Network

3.13.6 Growing and Emerging Concepts

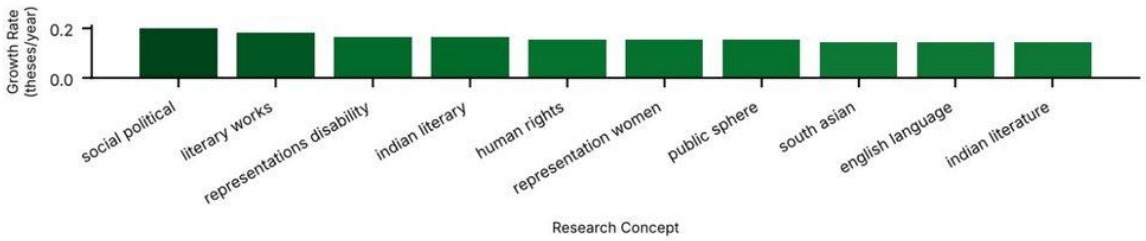

Figure 3.13.5: English: Growing Research Concept

3.14 Environmental Studies

3.14.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	51
Average per Year	5.1
Peak Year (Highest Output)	2023 | 10 Theses

3.14.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.895**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	25.5%
Number of Active Topics	6

3.14.3 Top Research Concepts: Concept Cloud

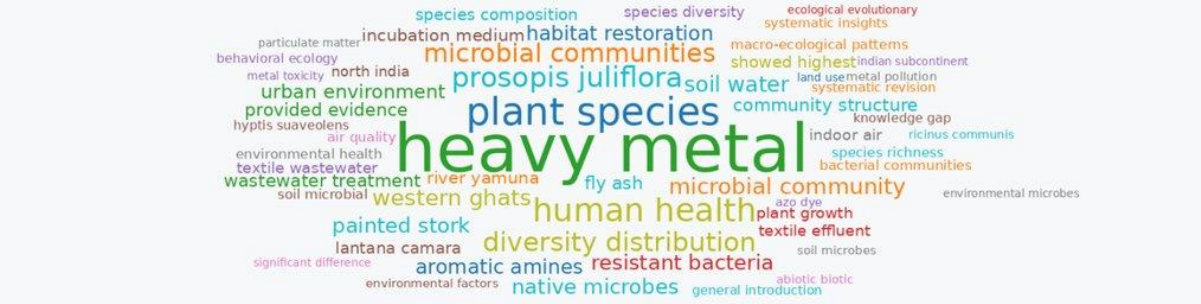

Figure 3.14.1: Environmental Studies: Concept Cloud showing Top Research Concepts

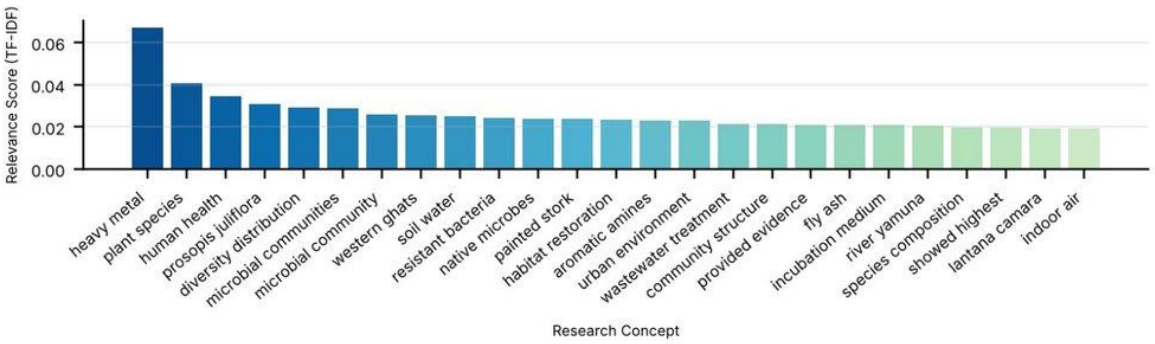

Figure 3.14.2: Environmental Studies: Top Concepts by Relevance

3.14.4 Alluvial / Sankey Topic-Evolution Diagram

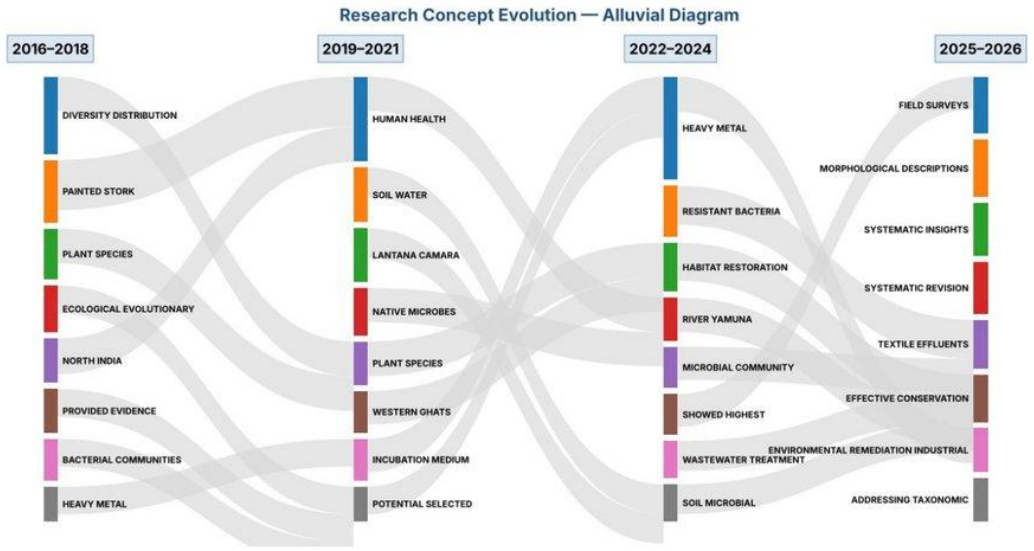

Figure 3.14.3: Environmental Studies: Alluvial diagram showing the topic evolution over 2016-2026

3.14.5 Research Concept Co-occurrence Network

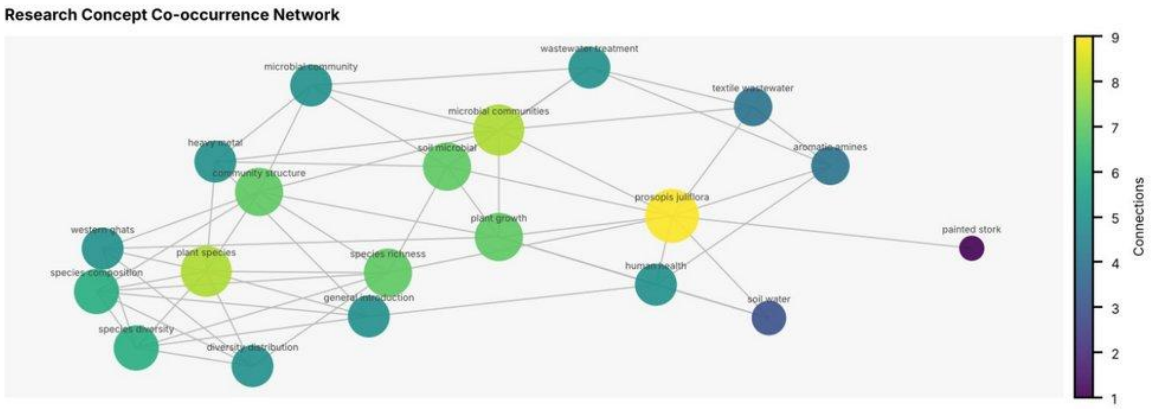

Figure 3.14.4: Environmental Studies: Research Concept Co-occurrence Network

3.14.6 Growing and Emerging Concepts

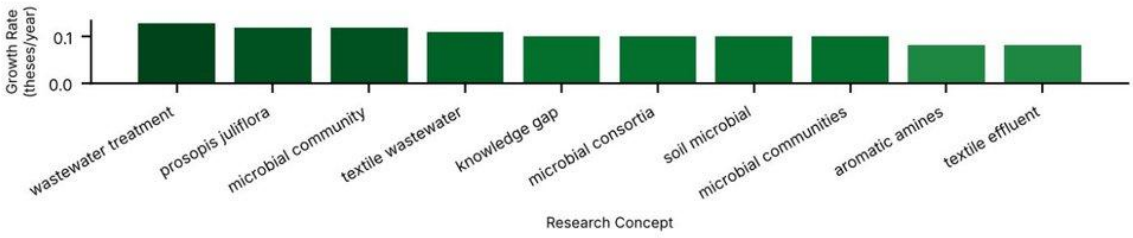

Figure 3.14.5: Environmental Studies: Growing Research Concept

3.15 Genetics

3.15.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	73
Average per Year	7.3
Peak Year (Highest Output)	2016 | 13 Theses

3.15.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.872**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	26%
Number of Active Topics	6

3.15.3 Top Research Concepts: Concept Cloud



Figure 3.15.1: Genetics: Concept Cloud showing Top Research Concepts

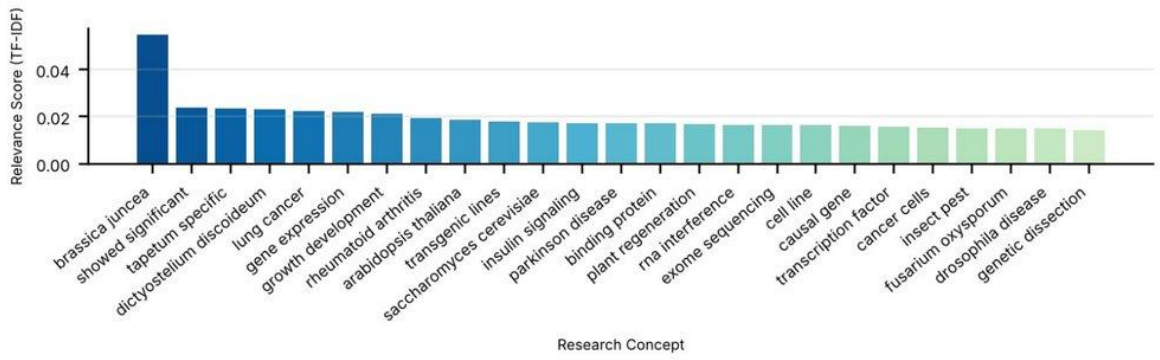

Figure 3.15.2: Genetics: Top Concepts by Relevance

3.15.4 Alluvial / Sankey Topic-Evolution Diagram

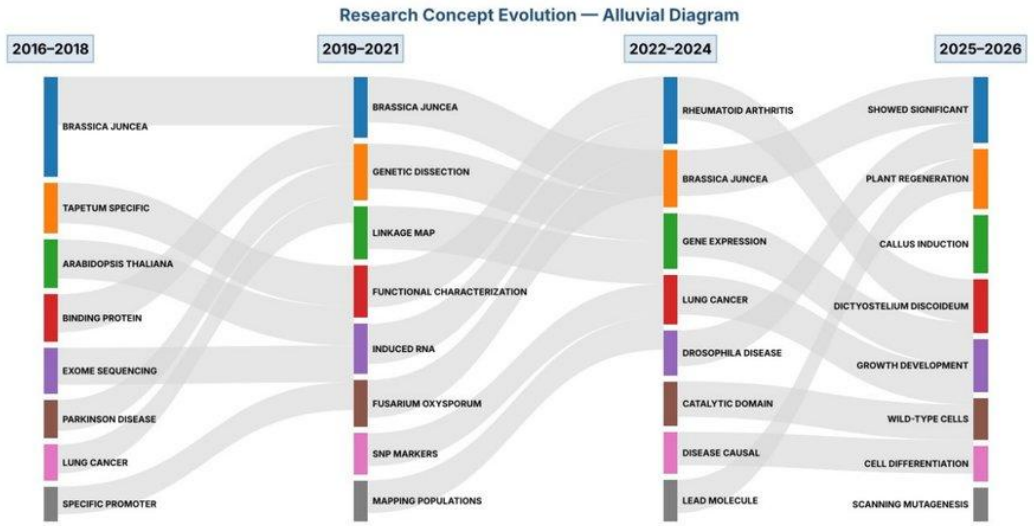

Figure 3.15.3: Genetics: Alluvial diagram showing the topic evolution over 2016-2026

3.15.5 Research Concept Co-occurrence Network

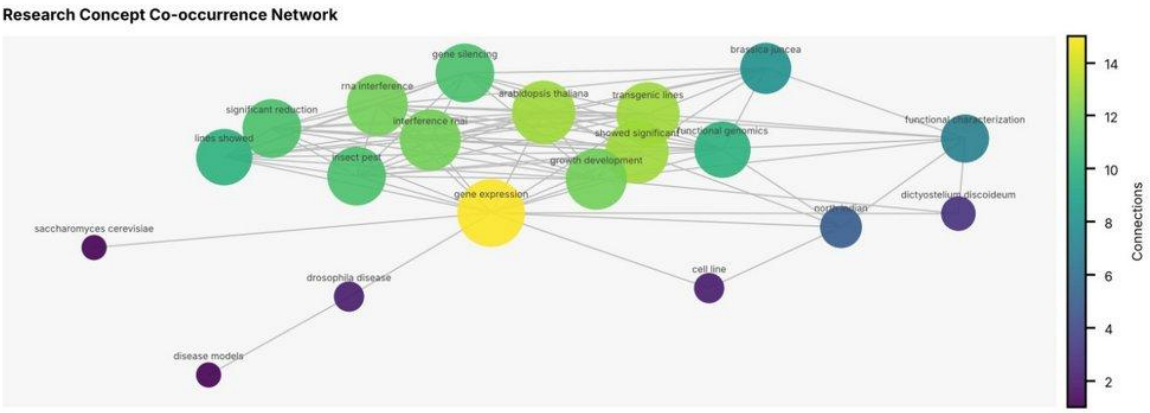

Figure 3.15.4: Genetics: Research Concept Co-occurrence Network

3.15.6 Growing and Emerging Concepts

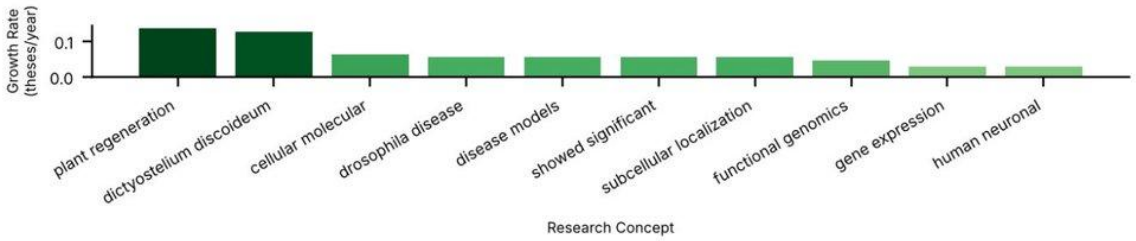

Figure 3.15.5: Genetics: Growing Research Concept

3.16 Geography

3.16.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	110
Average per Year	11
Peak Year (Highest Output)	2023 | 21 Theses

3.16.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.797**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	30.9%
Number of Active Topics	5

3.16.3 Top Research Concepts: Concept Cloud



Figure 3.16.1: Geography: Concept Cloud showing Top Research Concepts

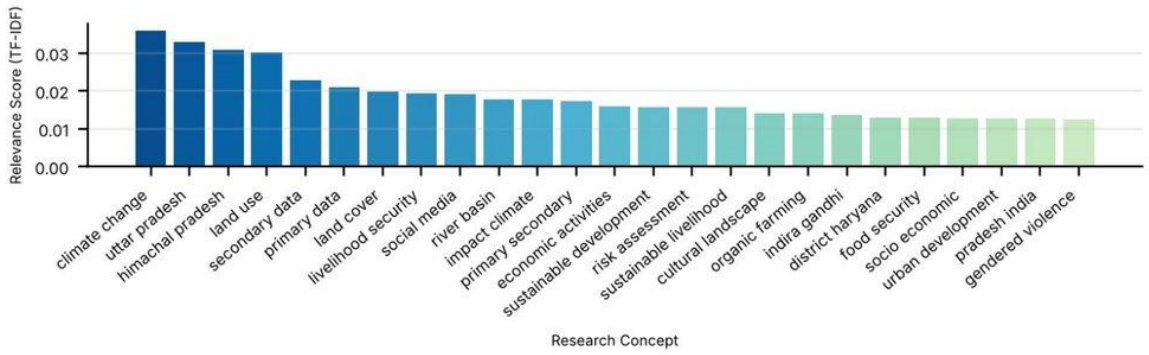

Figure 3.16.2: Geography: Top Concepts by Relevance

3.16.4 Alluvial / Sankey Topic-Evolution Diagram

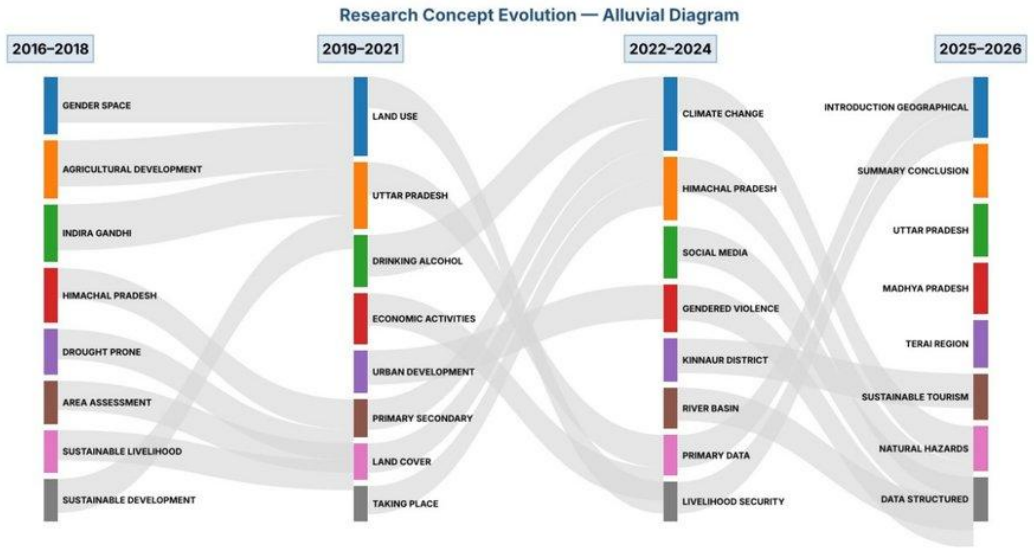

Figure 3.16.3: Geography: Alluvial diagram showing the topic evolution over 2016-2026

3.16.5 Research Concept Co-occurrence Network

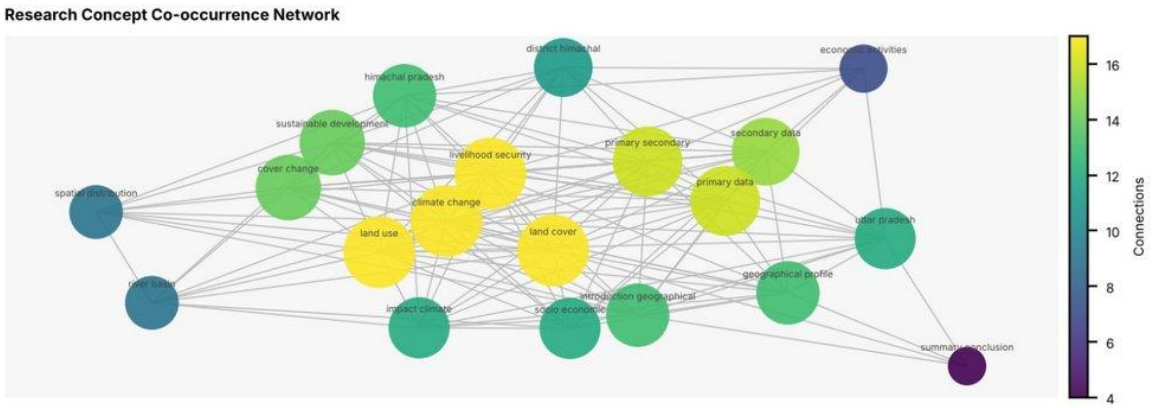

Figure 3.16.4: Geography: Research Concept Co-occurrence Network

3.16.6 Growing and Emerging Concepts

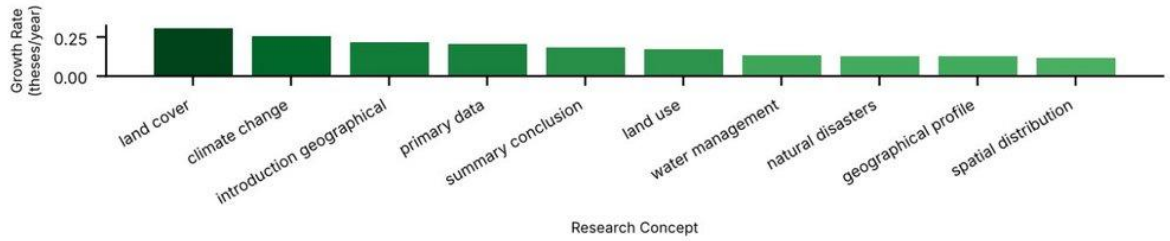

Figure 3.16.5: Geography: Growing Research Concept

3.17 Geology

3.17.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	73
Average per Year	7.3
Peak Year (Highest Output)	2016 | 12 Theses

3.17.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.837**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	26%
Number of Active Topics	7

3.17.3 Top Research Concepts: Concept Cloud



Figure 3.17.1: Geology: Concept Cloud showing Top Research Concepts

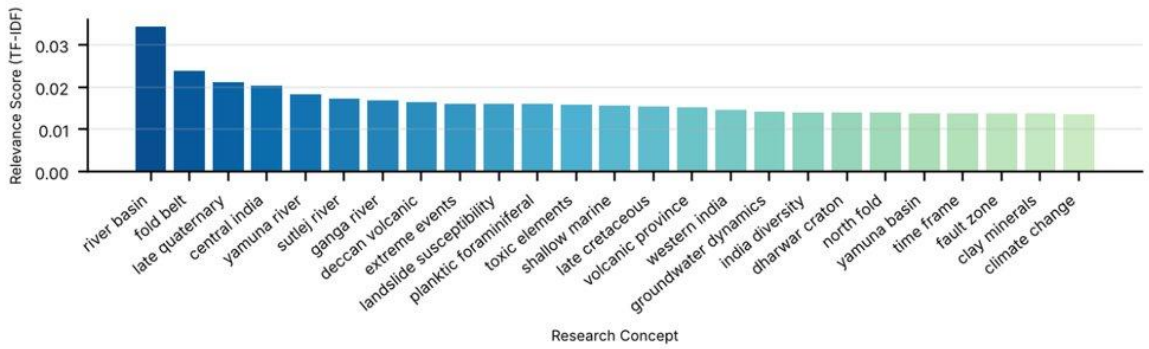

Figure 3.17.2: Geology: Top Concepts by Relevance

3.17.4 Alluvial / Sankey Topic-Evolution Diagram

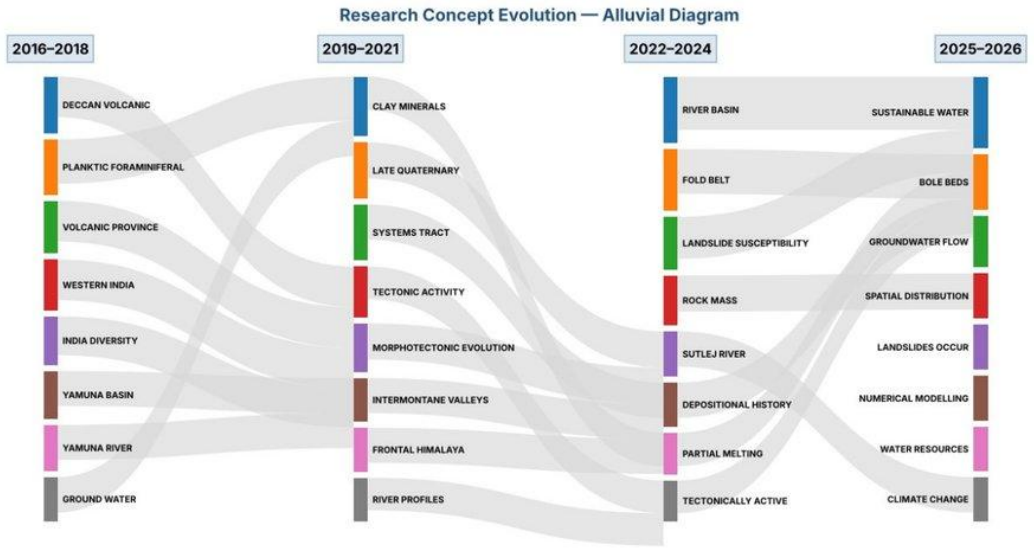

Figure 3.17.3: Geology: Alluvial diagram showing the topic evolution over 2016-2026

3.17.5 Research Concept Co-occurrence Network

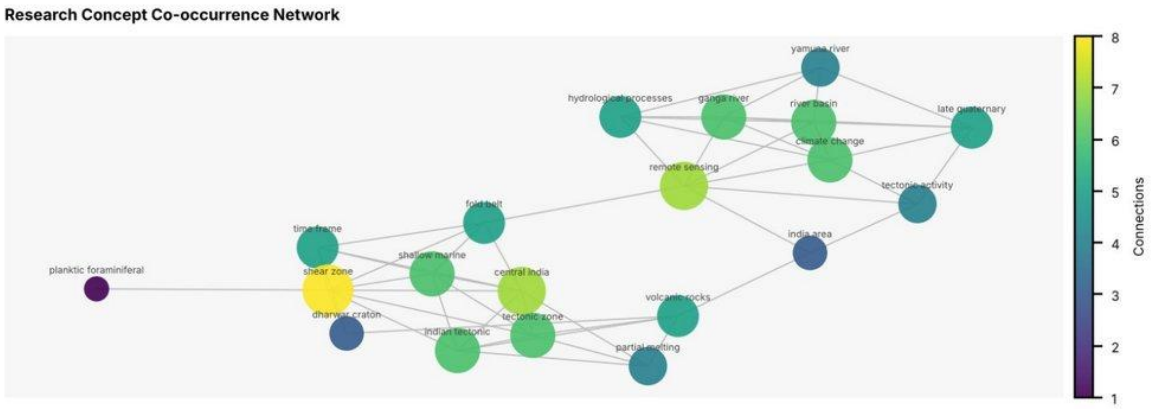

Figure 3.17.4: Geology: Research Concept Co-occurrence Network

3.17.6 Growing and Emerging Concepts

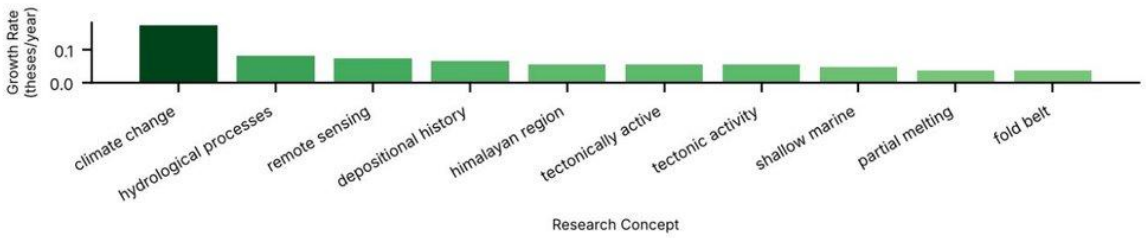

Figure 3.17.5: Geology: Growing Research Concept

3.18 History

3.18.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	164
Average per Year	16.4
Peak Year (Highest Output)	2026 | 30 Theses

3.18.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.686**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	36%
Number of Active Topics	4

3.18.3 Top Research Concepts: Concept Cloud



Figure 3.18.1: History: Concept Cloud showing Top Research Concepts

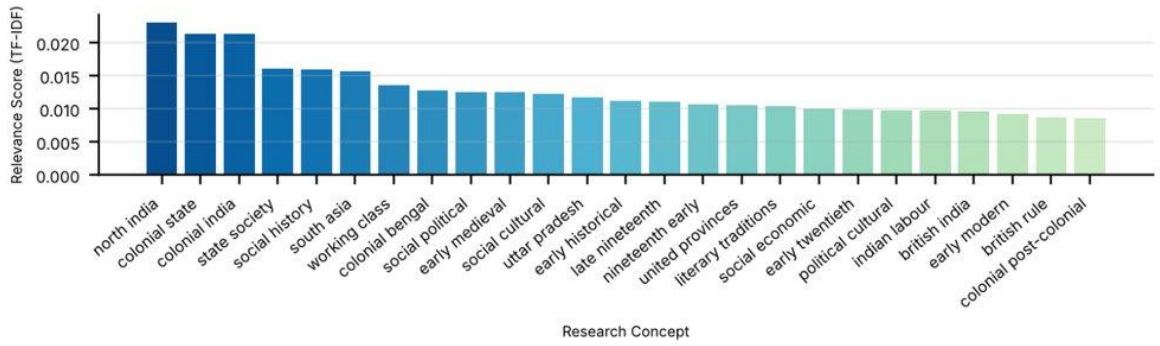

Figure 3.18.2: History: Top Concepts by Relevance

3.18.4 Alluvial / Sankey Topic-Evolution Diagram

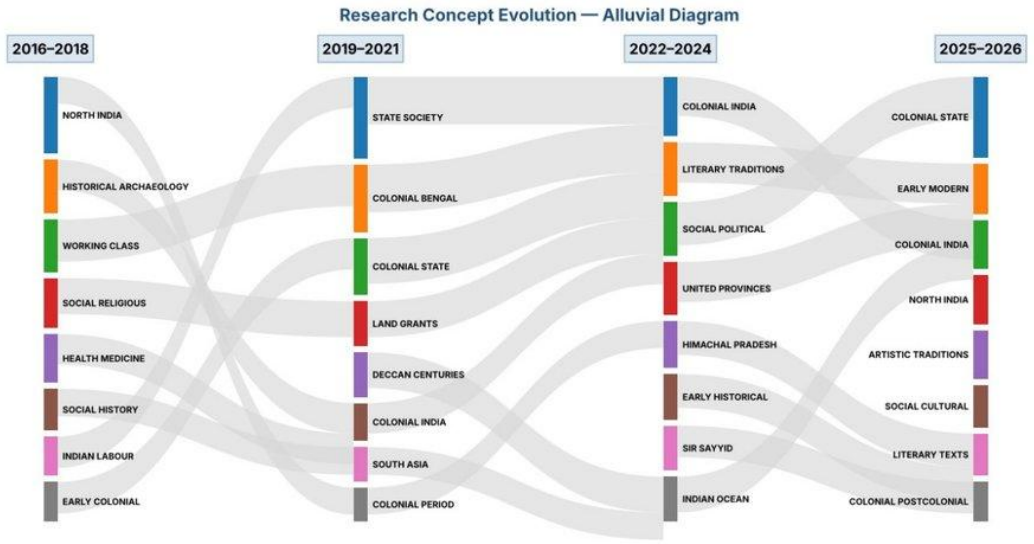

Figure 3.18.3: History: Alluvial diagram showing the topic evolution over 2016-2026

3.18.5 Research Concept Co-occurrence Network

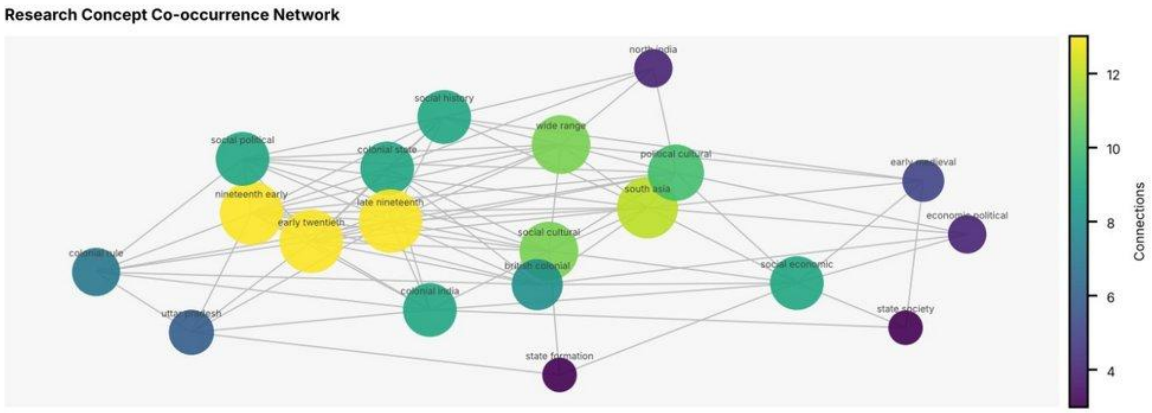

Figure 3.18.4: History: Research Concept Co-occurrence Network

3.18.6 Growing and Emerging Concepts

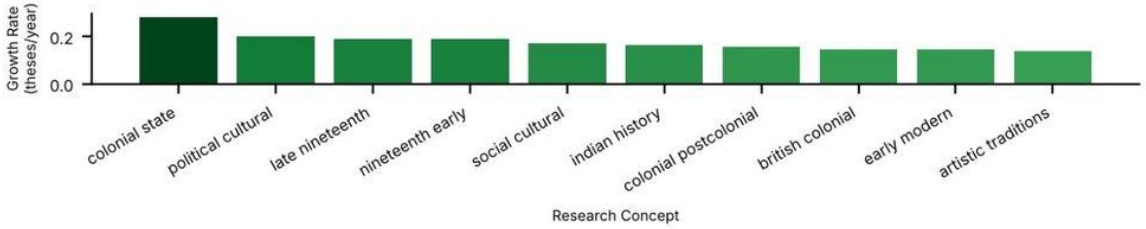

Figure 3.18.5: History: Growing Research Concept

3.19 Home Science

3.19.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	159
Average per Year	15.9
Peak Year (Highest Output)	2024 | 24 Theses

3.19.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.651**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	32.1%
Number of Active Topics	4

3.19.3 Top Research Concepts: Concept Cloud



Figure 3.19.1: Home Science: Concept Cloud showing Top Research Concepts

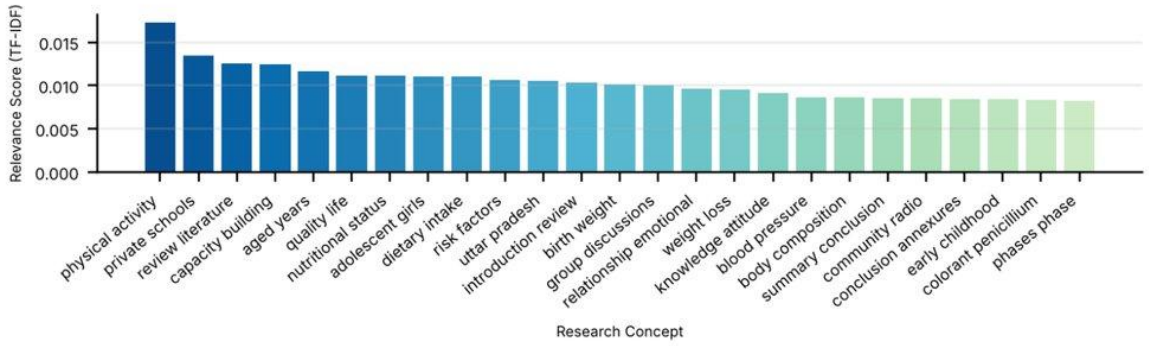

Figure 3.19.2: Home Science: Top Concepts by Relevance

3.19.4 Alluvial / Sankey Topic-Evolution Diagram

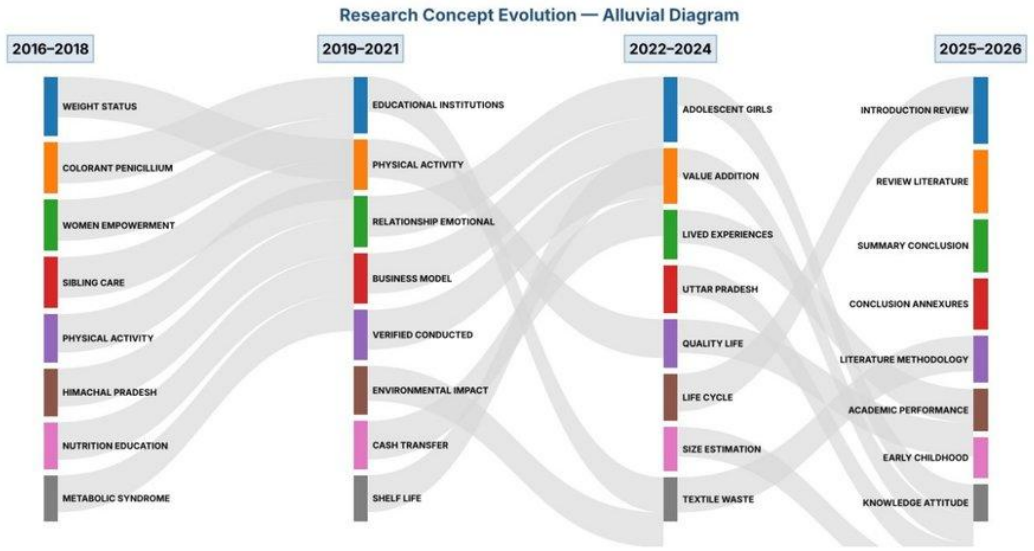

Figure 3.19.3: Home Science: Alluvial diagram showing the topic evolution over 2016-2026

3.19.5 Research Concept Co-occurrence Network

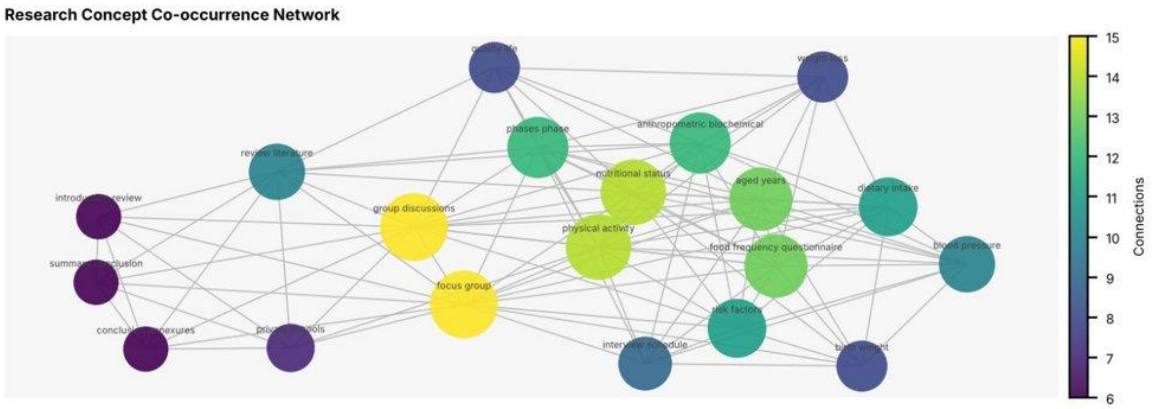

Figure 3.19.4: Home Science: Research Concept Co-occurrence Network

3.19.6 Growing and Emerging Concepts

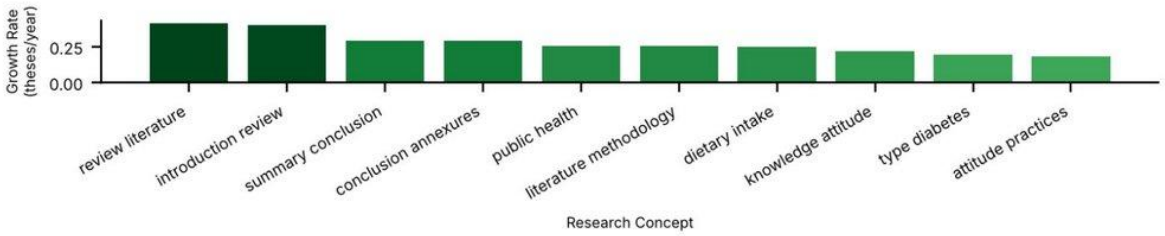

Figure 3.19.5: Home Science: Growing Research Concept

3.20 Law

3.20.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	181
Average per Year	18.1
Peak Year (Highest Output)	2025 | 29 Theses

3.20.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.897**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	31.5%
Number of Active Topics	7

3.20.3 Top Research Concepts: Concept Cloud



Figure 3.20.1: Law: Concept Cloud showing Top Research Concepts

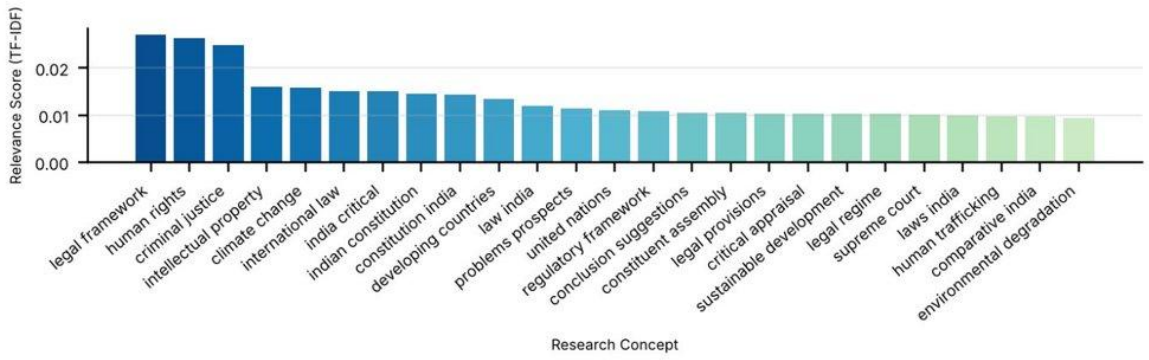

Figure 3.20.2: Law: Top Concepts by Relevance

3.20.4 Alluvial / Sankey Topic-Evolution Diagram

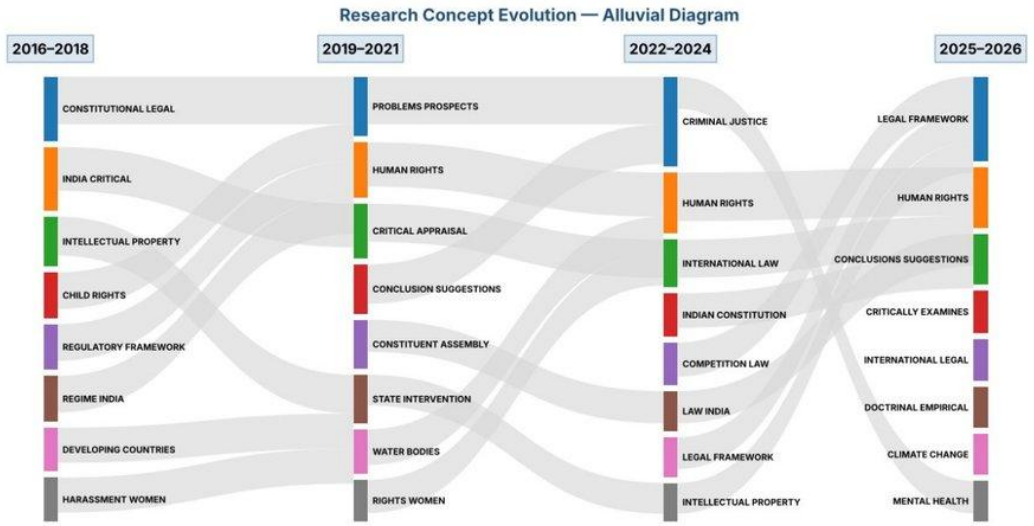

Figure 3.20.3: Law: Alluvial diagram showing the topic evolution over 2016-2026

3.20.5 Research Concept Co-occurrence Network

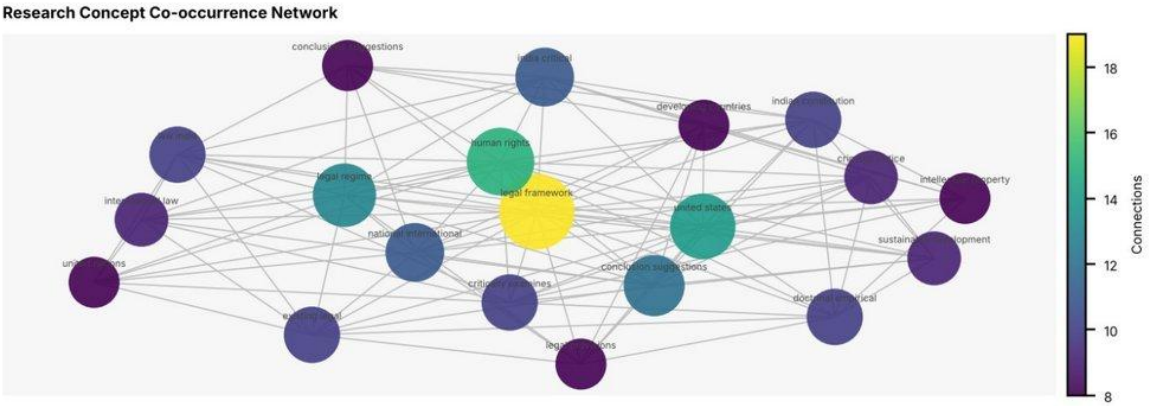

Figure 3.20.4: Law: Research Concept Co-occurrence Network

3.20.6 Growing and Emerging Concepts

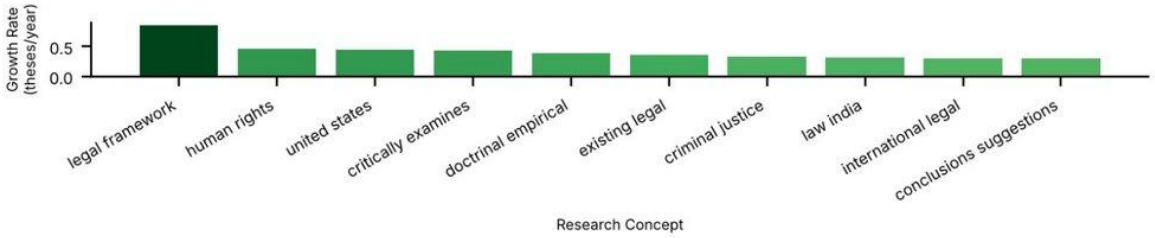

Figure 3.20.5: Law: Growing Research Concept

3.21 Library Science

3.21.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	65
Average per Year	6.5
Peak Year (Highest Output)	2026 | 13 Theses

3.21.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.696**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	33.8%
Number of Active Topics	6

3.21.3 Top Research Concepts: Concept Cloud



Figure 3.21.1: Library Science: Concept Cloud showing Top Research Concepts

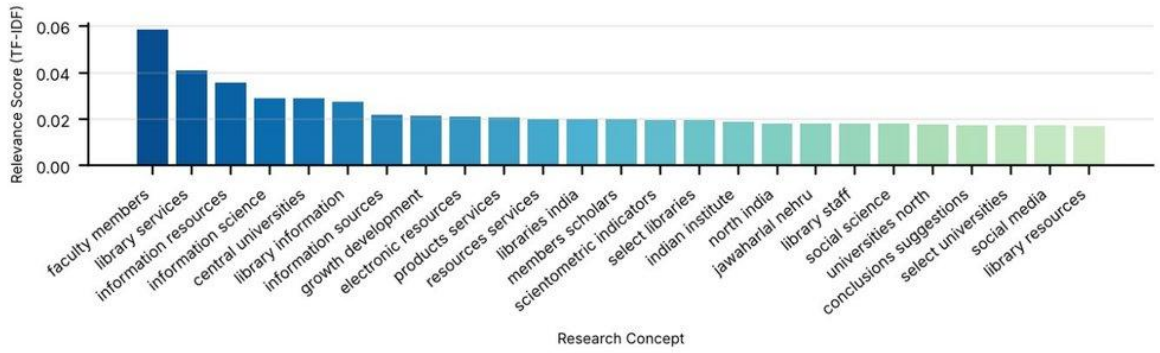

Figure 3.21.2: Library Science: Top Concepts by Relevance

3.21.4 Alluvial / Sankey Topic-Evolution Diagram

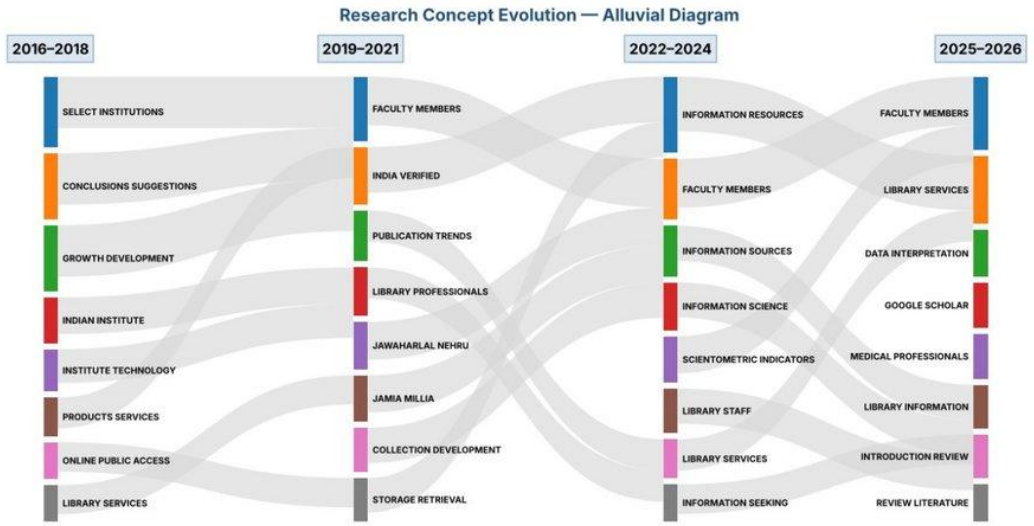

Figure 3.21.3: Library Science: Alluvial diagram showing the topic evolution over 2016-2026

3.21.5 Research Concept Co-occurrence Network

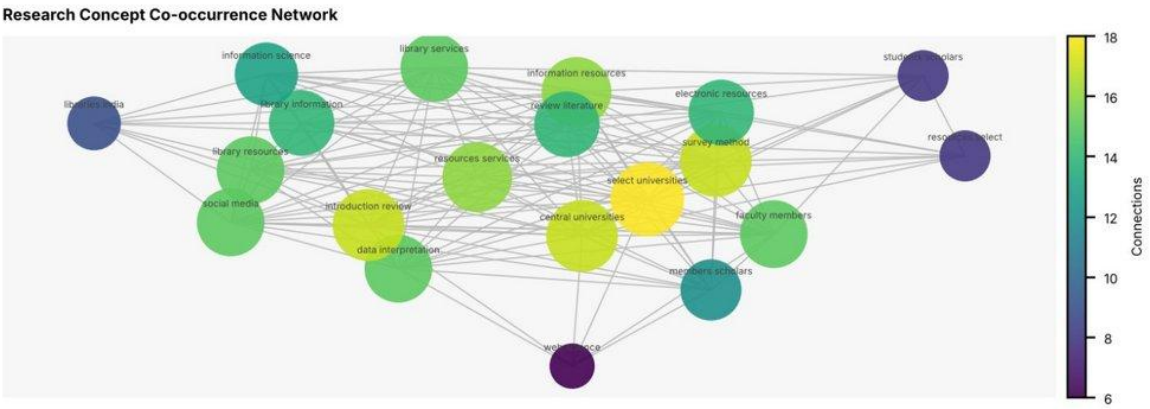

Figure 3.21.4: Library Science: Research Concept Co-occurrence Network

3.21.6 Growing and Emerging Concepts

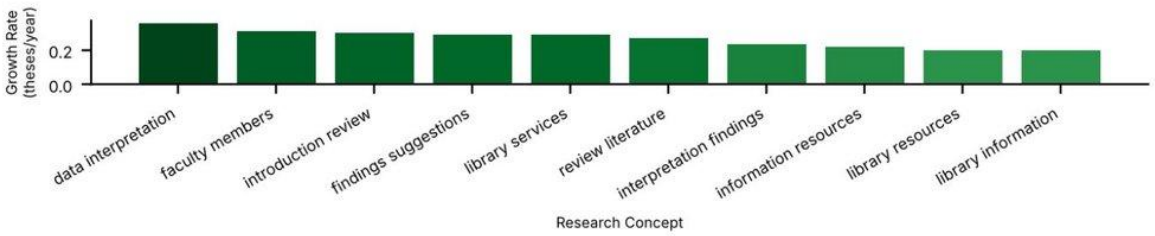

Figure 3.21.5: Library Science: Growing Research Concept

3.22 Management Studies

3.22.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	212
Average per Year	21.2
Peak Year (Highest Output)	2026 | 34 Theses

3.22.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.655**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	44.8%
Number of Active Topics	6

3.22.3 Top Research Concepts: Concept Cloud



Figure 3.22.1: Management Studies: Concept Cloud showing Top Research Concepts

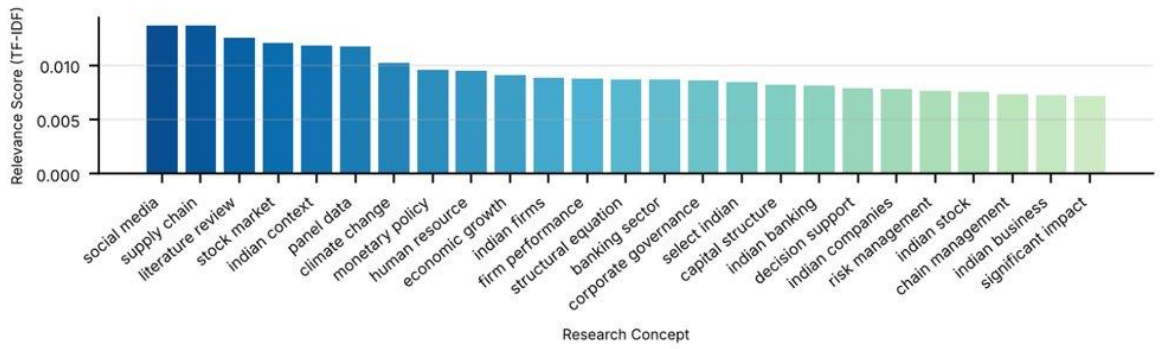

Figure 3.22.2: Management Studies: Top Concepts by Relevance

3.22.4 Alluvial / Sankey Topic-Evolution Diagram

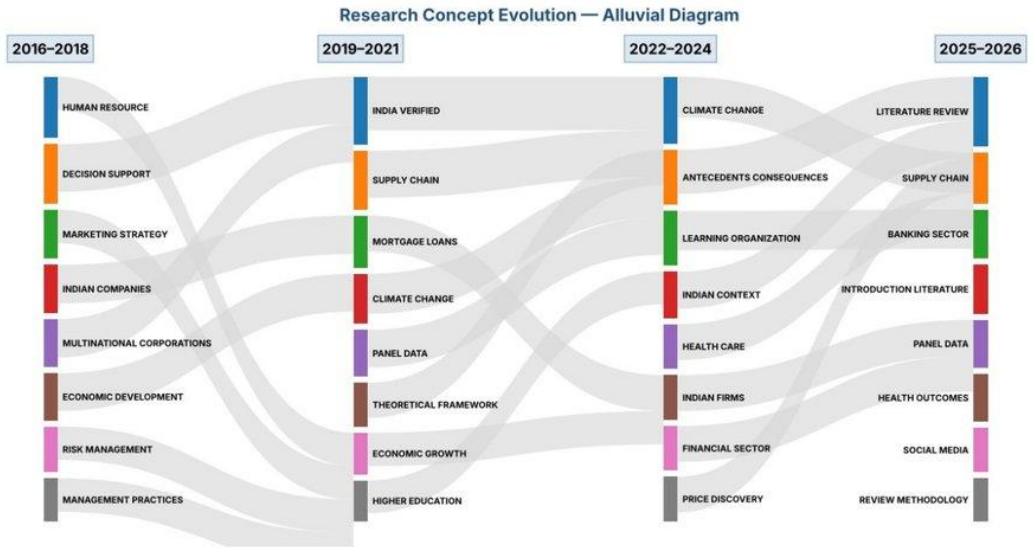

Figure 3.22.3: Management Studies: Alluvial diagram showing the topic evolution over 2016-2026

3.22.5 Research Concept Co-occurrence Network

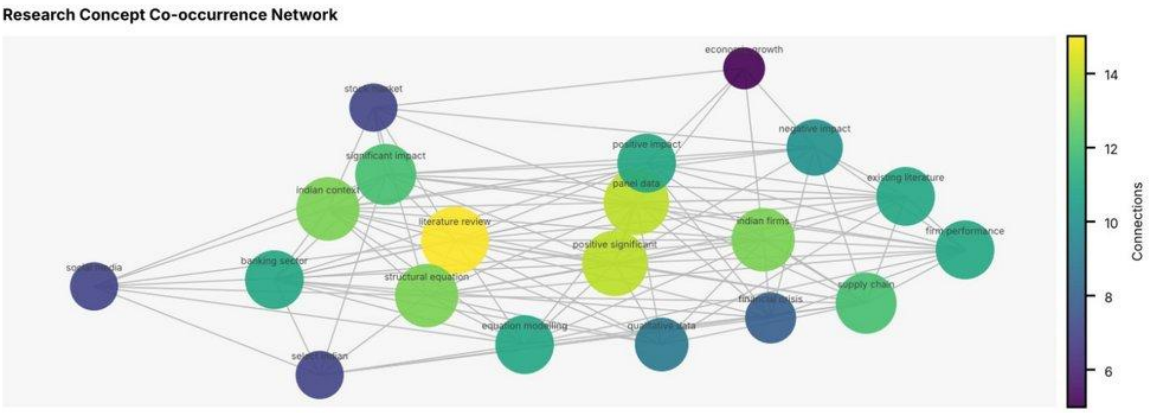

Figure 3.22.4: Management Studies: Research Concept Co-occurrence Network

3.22.6 Growing and Emerging Concepts

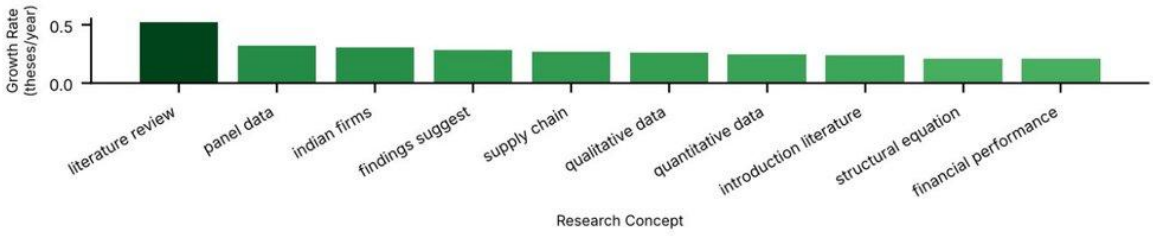

Figure 3.22.5: Management Studies: Growing Research Concept

3.23 Mathematical Sciences

3.23.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	248
Average per Year	24.8
Peak Year (Highest Output)	2026 | 35 Theses

3.23.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.825**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	23%
Number of Active Topics	5

3.23.3 Top Research Concepts: Concept Cloud



Figure 3.23.1: Mathematical Sciences: Concept Cloud showing Top Research Concepts

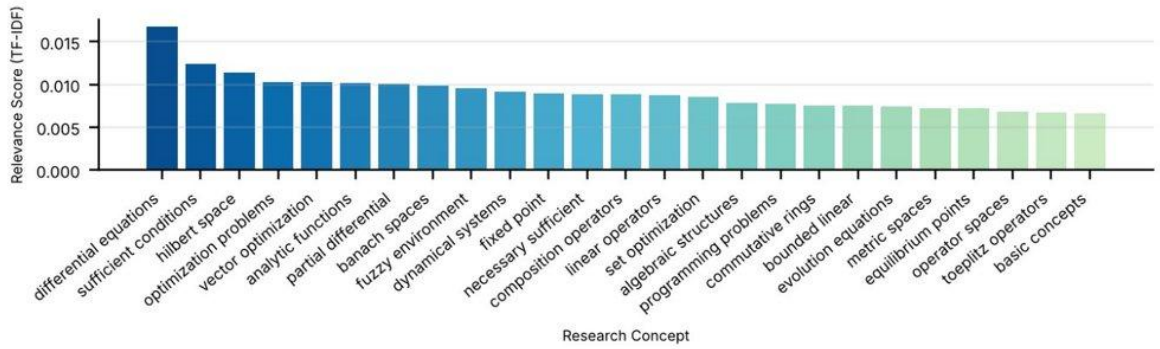

Figure 3.23.2: Mathematical Sciences: Top Concepts by Relevance

3.23.4 Alluvial / Sankey Topic-Evolution Diagram

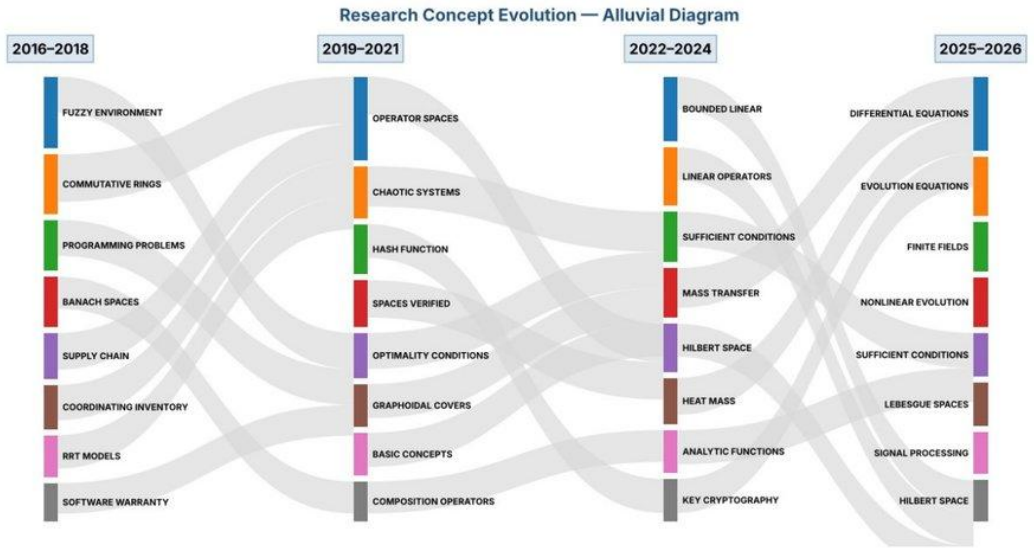

Figure 3.23.3: Mathematical Sciences: Alluvial diagram showing the topic evolution over 2016-2026

3.23.5 Research Concept Co-occurrence Network

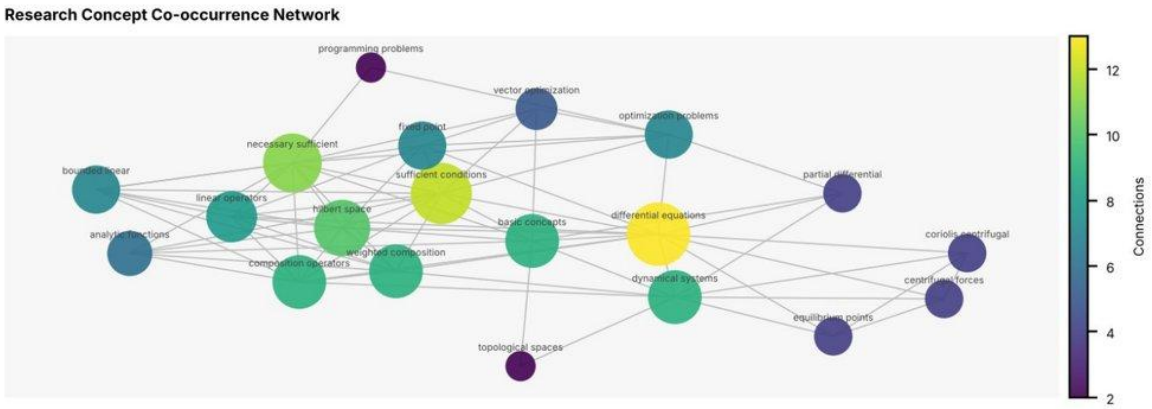

Figure 3.23.4: Mathematical Sciences: Research Concept Co-occurrence Network

3.23.6 Growing and Emerging Concepts

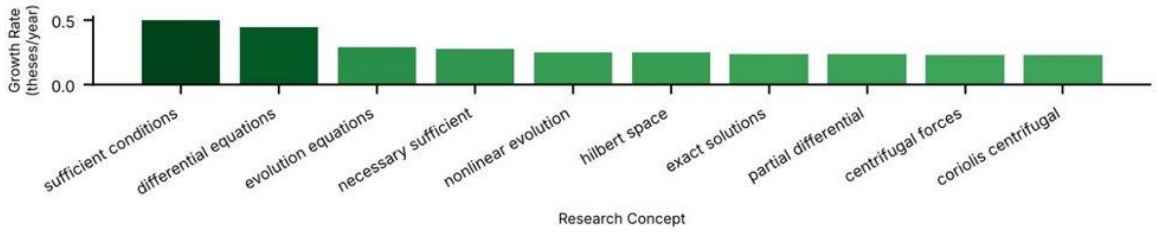

Figure 3.23.5: Mathematical Sciences: Growing Research Concept

3.24 Medical Sciences

3.24.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	183
Average per Year	18.3
Peak Year (Highest Output)	2016 | 36 Theses

3.24.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.768**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	33.3%
Number of Active Topics	5

3.24.3 Top Research Concepts: Concept Cloud

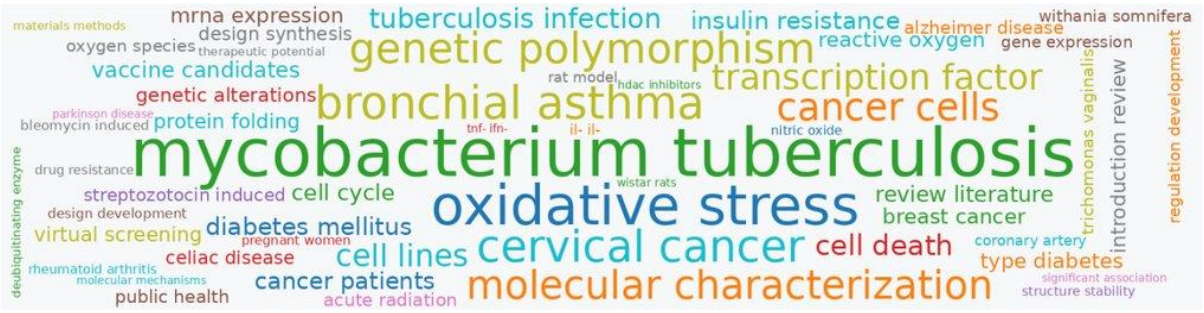

Figure 3.24.1: Medical Sciences: Concept Cloud showing Top Research Concepts

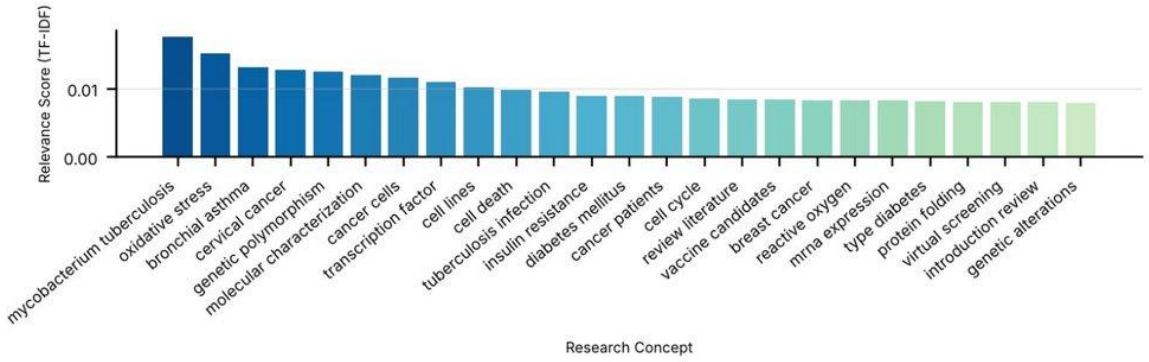

Figure 3.24.2: Medical Sciences: Top Concepts by Relevance

3.24.4 Alluvial / Sankey Topic-Evolution Diagram

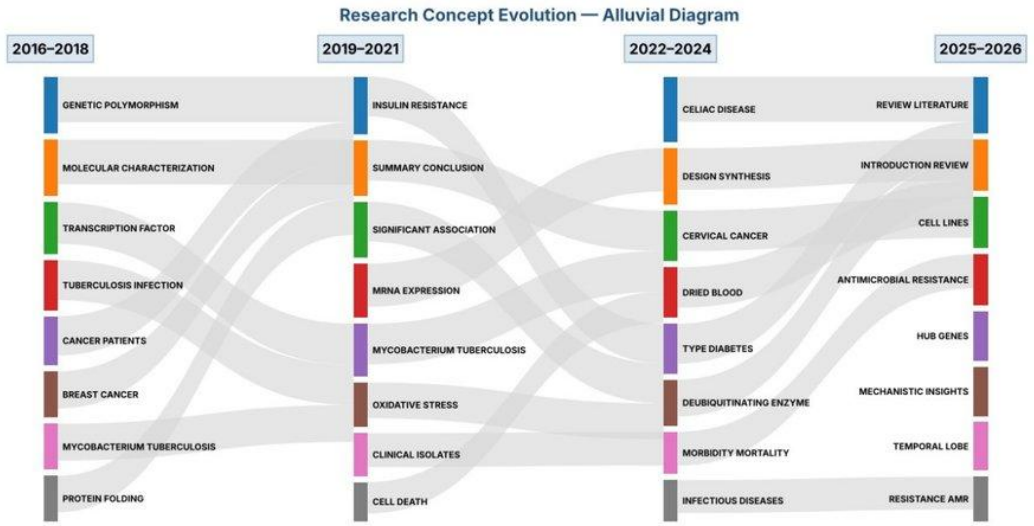

Figure 3.24.3: Medical Sciences: Alluvial diagram showing the topic evolution over 2016-2026

3.24.5 Research Concept Co-occurrence Network

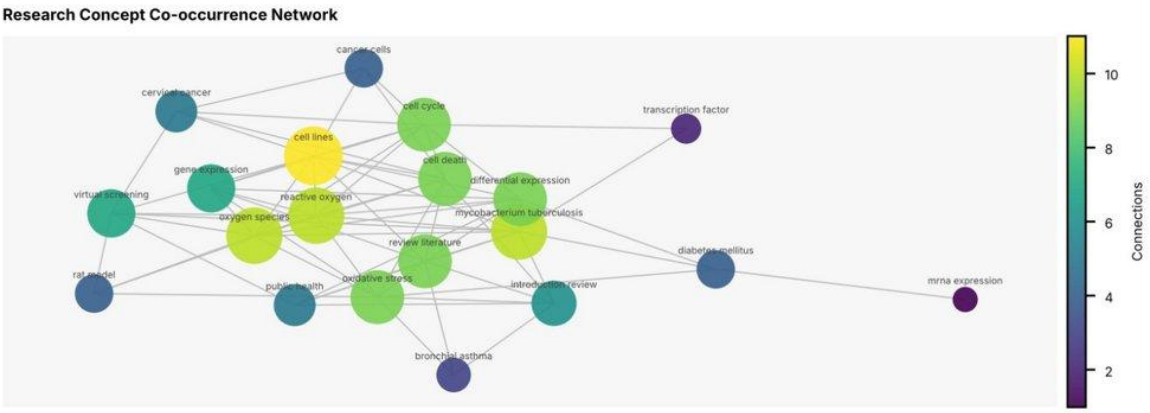

Figure 3.24.4: Medical Sciences: Research Concept Co-occurrence Network

3.24.6 Growing and Emerging Concepts

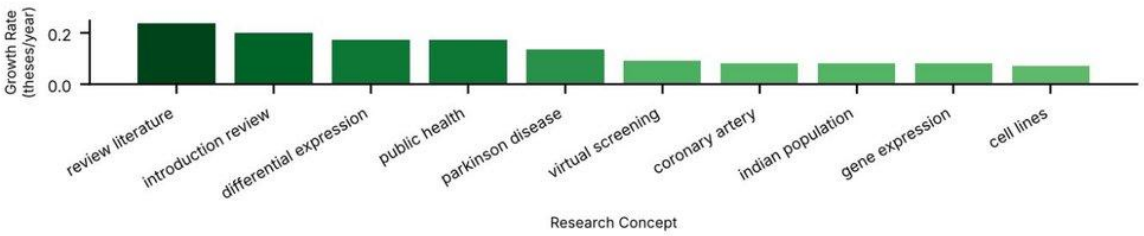

Figure 3.24.5: Medical Sciences: Growing Research Concept

3.25 Microbiology

3.25.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	65
Average per Year	6.5
Peak Year (Highest Output)	2017 | 13 Theses

3.25.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.950**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	27.7%
Number of Active Topics	7

3.25.3 Top Research Concepts: Concept Cloud



Figure 3.25.1: Microbiology: Concept Cloud showing Top Research Concepts

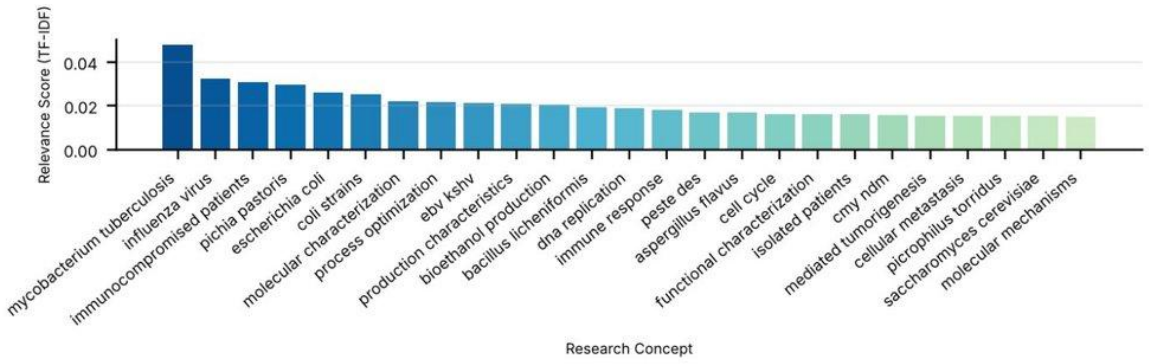

Figure 3.25.2: Microbiology: Top Concepts by Relevance

3.25.4 Alluvial / Sankey Topic-Evolution Diagram

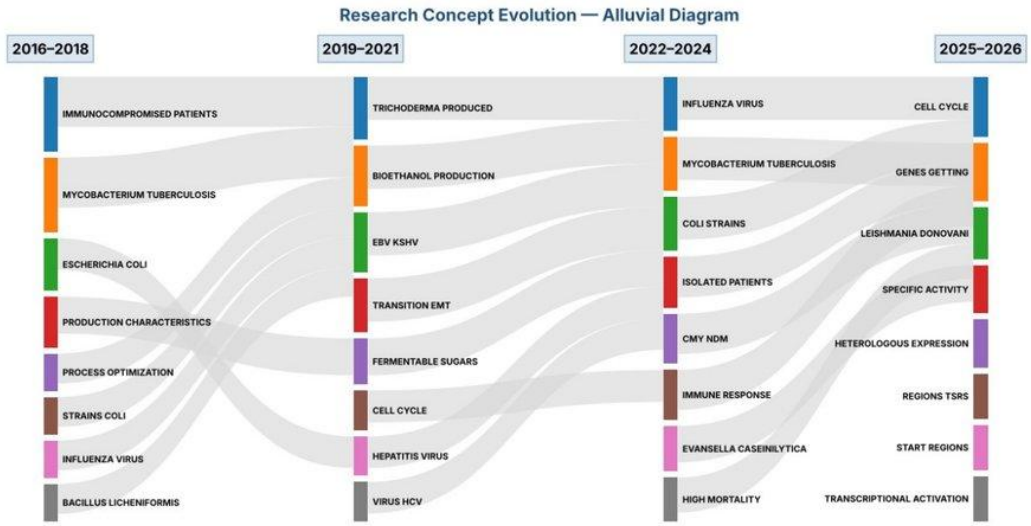

Figure 3.25.3: Microbiology: Alluvial diagram showing the topic evolution over 2016-2026

3.25.5 Research Concept Co-occurrence Network

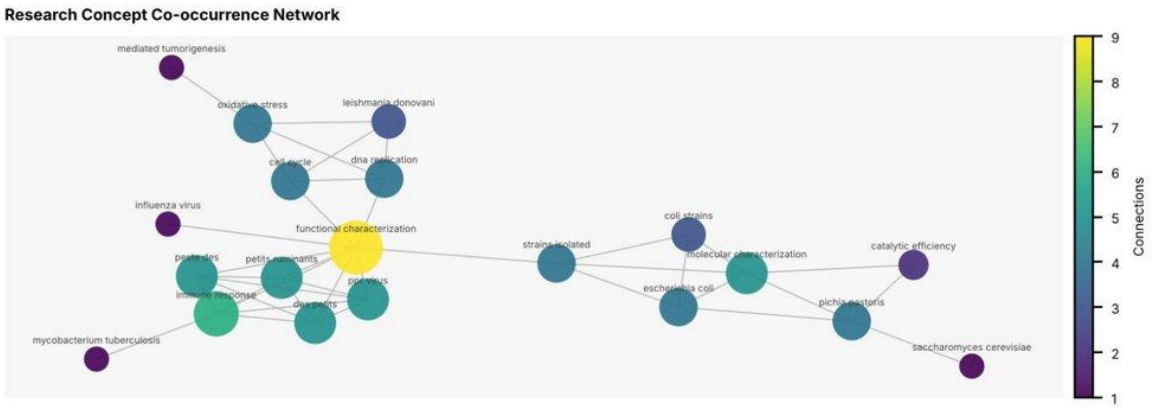

Figure 3.25.4: Microbiology: Research Concept Co-occurrence Network

3.25.6 Growing and Emerging Concepts

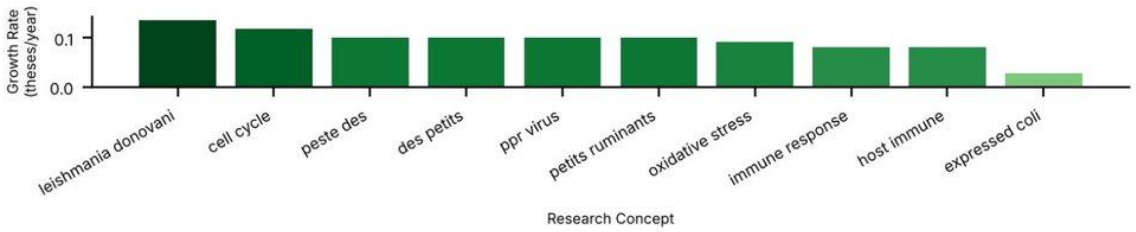

Figure 3.25.5: Microbiology: Growing Research Concept

3.26 Philosophy

3.26.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	99
Average per Year	9.9
Peak Year (Highest Output)	2026 | 27 Theses

3.26.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.938**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	22.2%
Number of Active Topics	7

3.26.3 Top Research Concepts: Concept Cloud



Figure 3.26.1: Philosophy: Concept Cloud showing Top Research Concepts

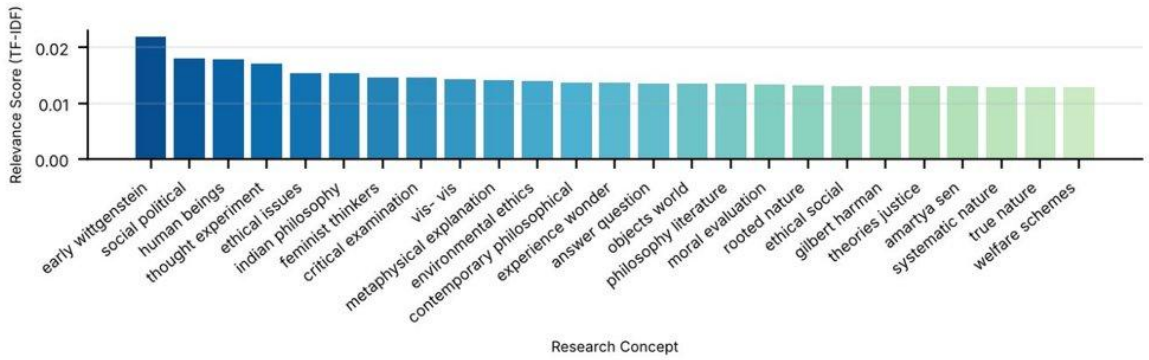

Figure 3.26.2: Philosophy: Top Concepts by Relevance

3.26.4 Alluvial / Sankey Topic-Evolution Diagram

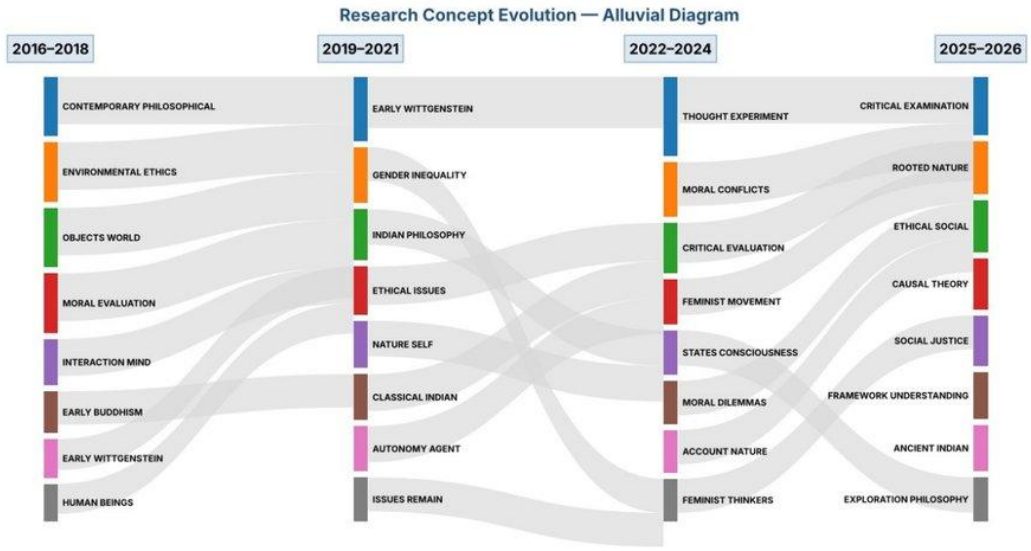

Figure 3.26.3: Philosophy: Alluvial diagram showing the topic evolution over 2016-2026

3.26.5 Research Concept Co-occurrence Network

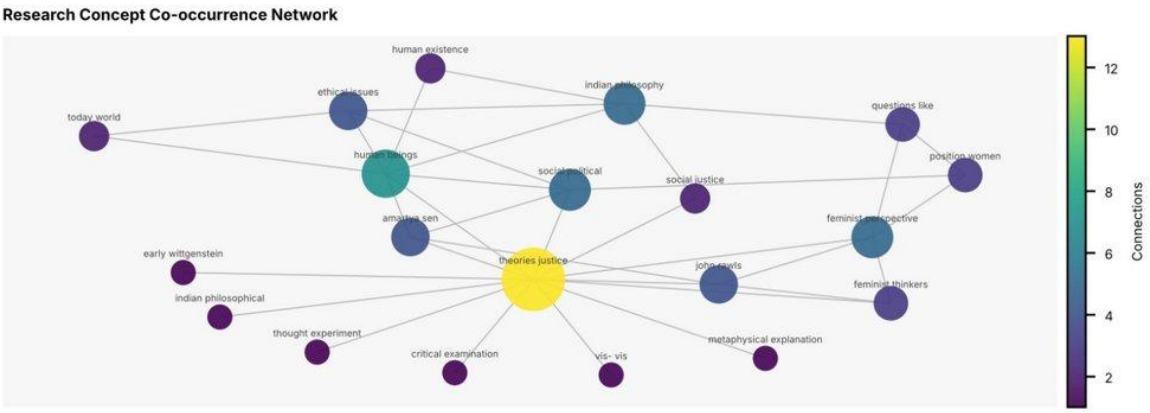

Figure 3.26.4: Philosophy: Research Concept Co-occurrence Network

3.26.6 Growing and Emerging Concepts

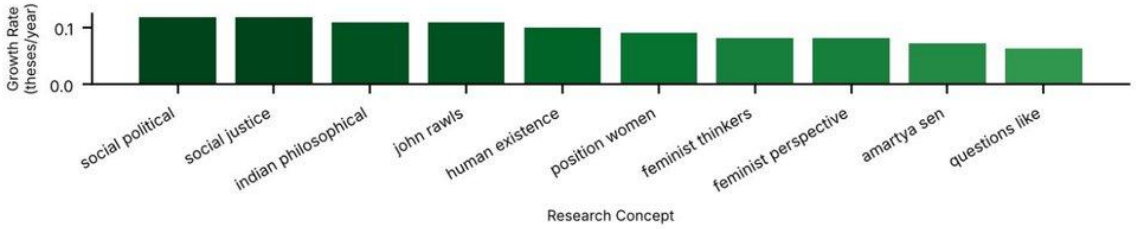

Figure 3.26.5: Philosophy: Growing Research Concept

3.27 Physical Education

3.27.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	129
Average per Year	12.9
Peak Year (Highest Output)	2026 | 30 Theses

3.27.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.634**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	45.7%
Number of Active Topics	5

3.27.3 Top Research Concepts: Concept Cloud



Figure 3.27.1: Physical Education: Concept Cloud showing Top Research Concepts

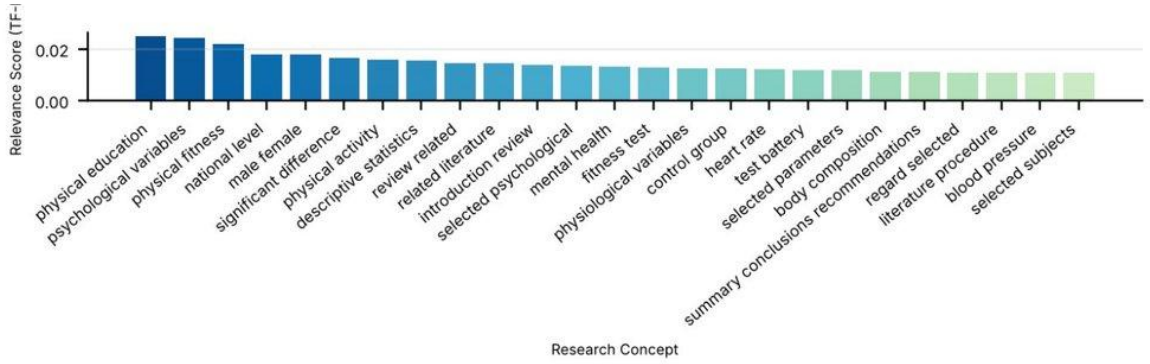

Figure 3.27.2: Physical Education: Top Concepts by Relevance

3.27.4 Alluvial / Sankey Topic-Evolution Diagram

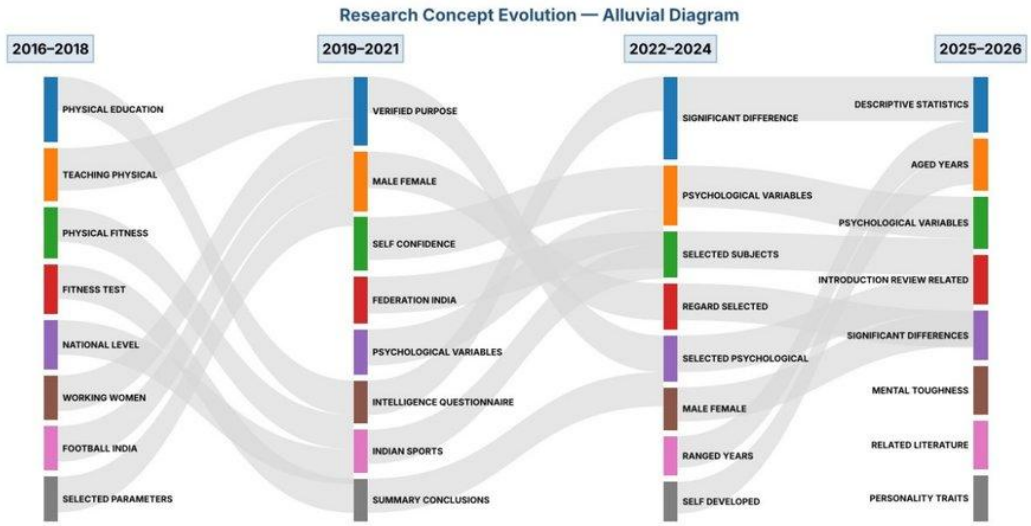

Figure 3.27.3: Physical Education: Alluvial diagram showing the topic evolution over 2016-2026

3.27.5 Research Concept Co-occurrence Network

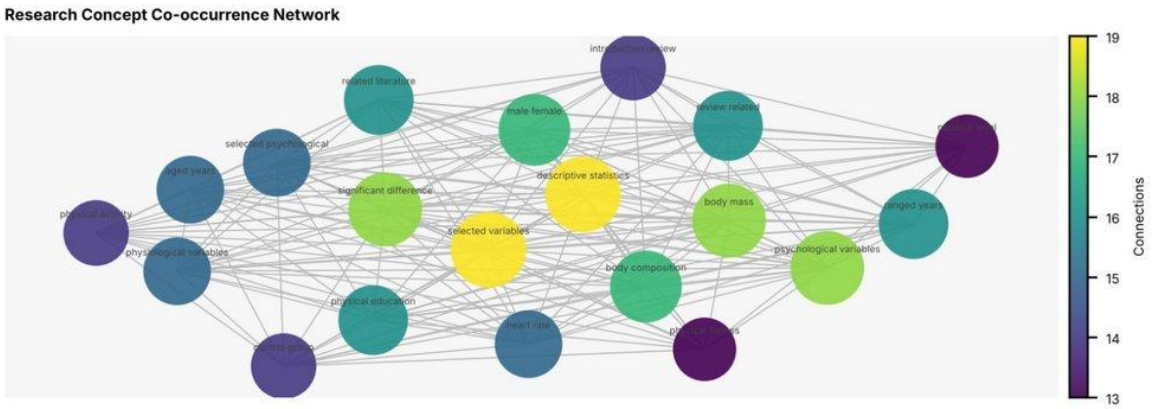

Figure 3.27.4: Physical Education: Research Concept Co-occurrence Network

3.27.6 Growing and Emerging Concepts

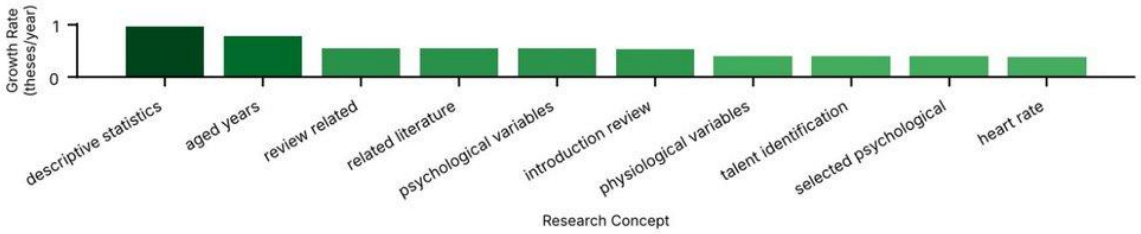

Figure 3.27.5: Physical Education: Growing Research Concept

3.28 Physics and Astrophysics

3.28.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	262
Average per Year	26.2
Peak Year (Highest Output)	2026 | 37 Theses

3.28.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.572**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	45%
Number of Active Topics	5

3.28.3 Top Research Concepts: Concept Cloud

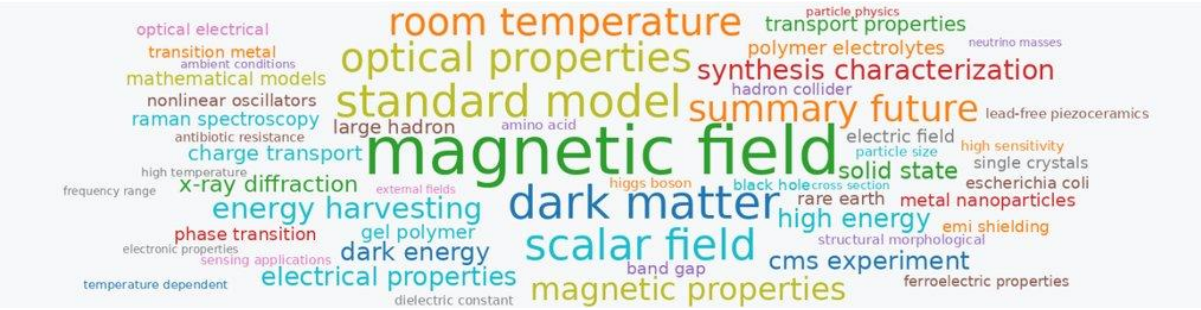

Figure 3.28.1: Physics and Astrophysics: Concept Cloud showing Top Research Concepts

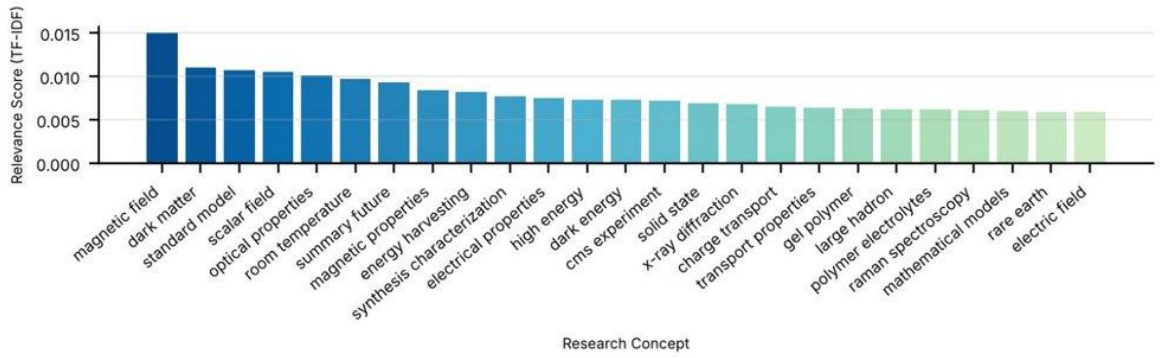

Figure 3.28.2: Physics and Astrophysics: Top Concepts by Relevance

3.28.4 Alluvial / Sankey Topic-Evolution Diagram

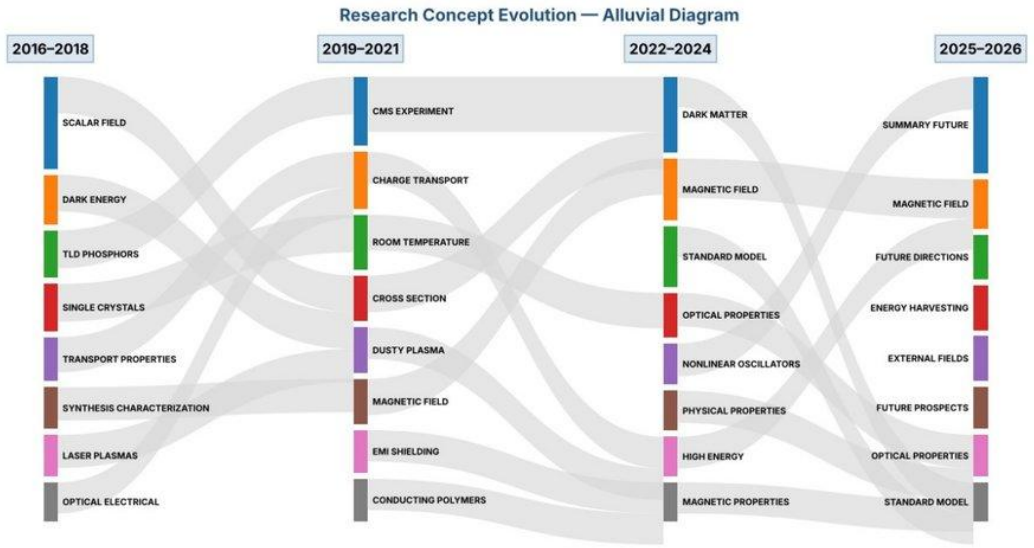

Figure 3.28.3: Physics and Astrophysics: Alluvial diagram showing the topic evolution over 2016-2026

3.28.5 Research Concept Co-occurrence Network

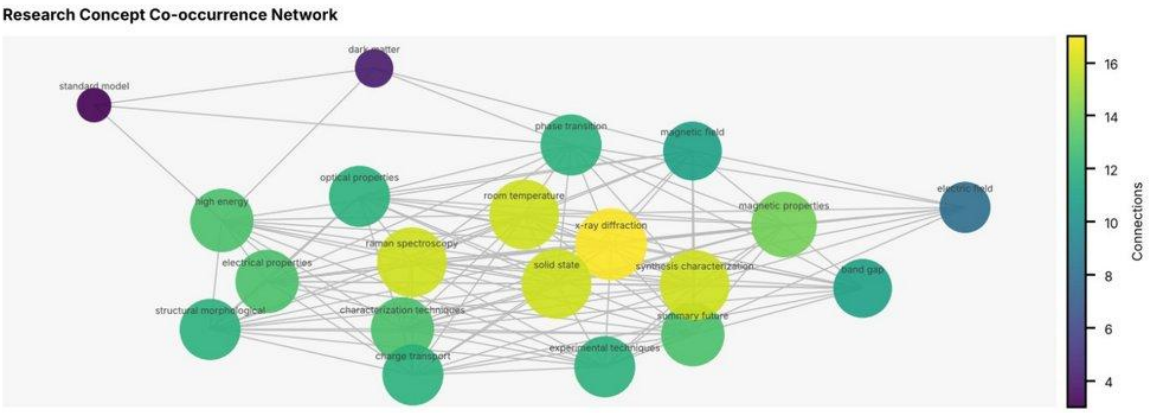

Figure 3.28.4: Physics and Astrophysics: Research Concept Co-occurrence Network

3.28.6 Growing and Emerging Concepts

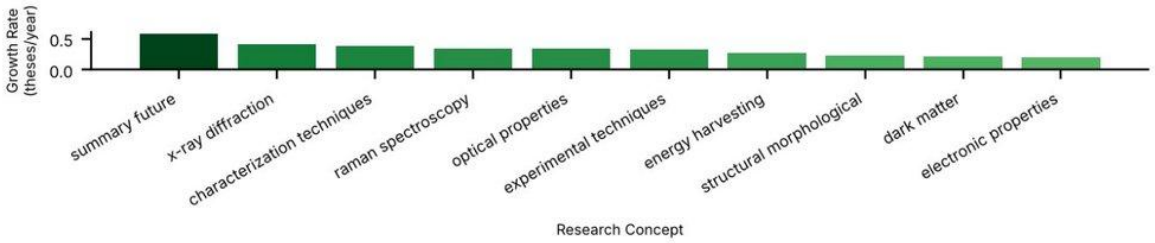

Figure 3.28.5: Physics and Astrophysics: Growing Research Concept

3.29 Plant and Molecular Biology

3.29.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	75
Average per Year	7.5
Peak Year (Highest Output)	2024 | 14 Theses

3.29.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.775**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	34.7%
Number of Active Topics	6

3.29.3 Top Research Concepts: Concept Cloud



Figure 3.29.1: Plant and Molecular Biology: Concept Cloud showing Top Research Concepts

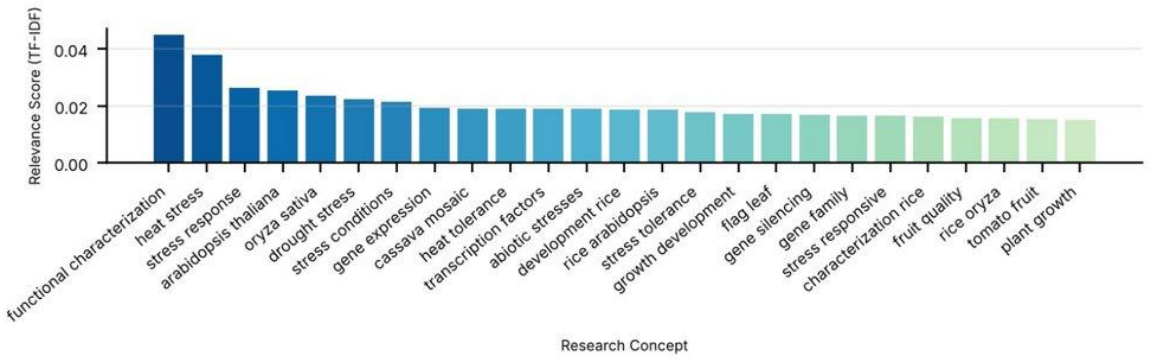

Figure 3.29.2: Plant and Molecular Biology: Top Concepts by Relevance

3.29.4 Alluvial / Sankey Topic-Evolution Diagram

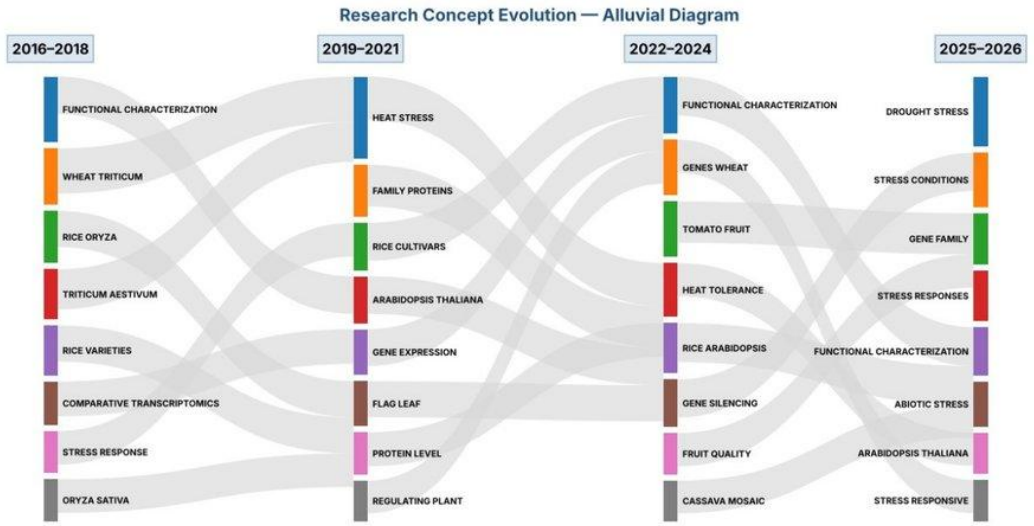

Figure 3.29.3: Plant and Molecular Biology: Alluvial diagram showing the topic evolution over 2016-2026

3.29.5 Research Concept Co-occurrence Network

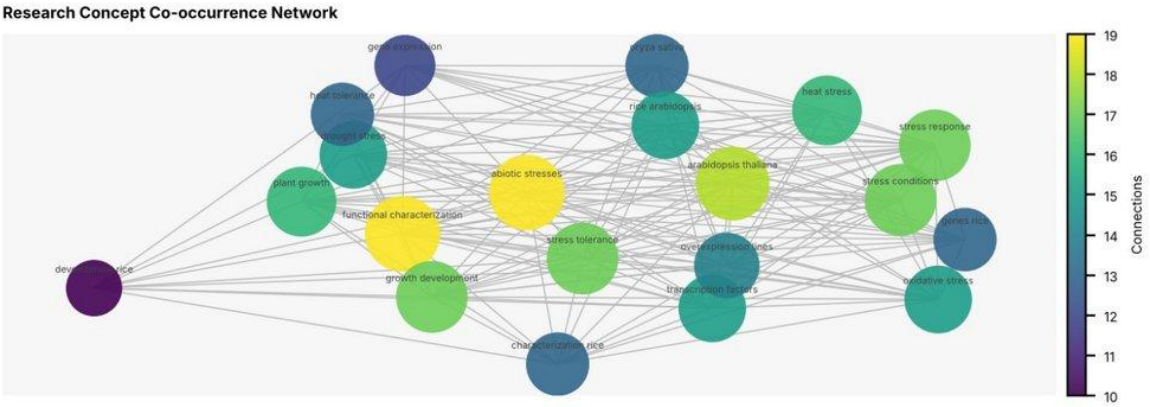

Figure 3.29.4: Plant and Molecular Biology: Research Concept Co-occurrence Network

3.29.6 Growing and Emerging Concepts

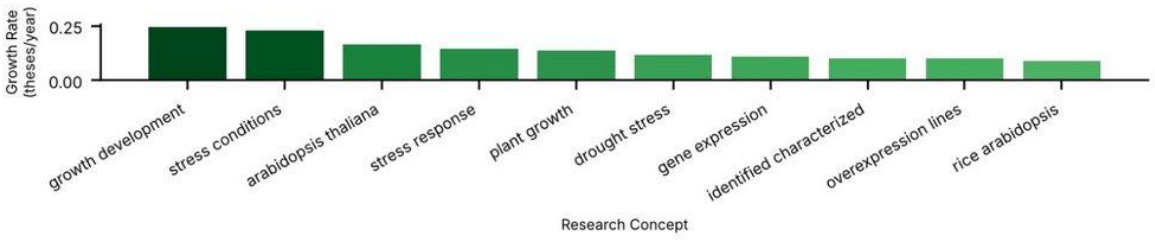

Figure 3.29.5: Plant and Molecular Biology: Growing Research Concept

3.30 Political Science

3.30.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	206
Average per Year	20.6
Peak Year (Highest Output)	2026 | 41 Theses

3.30.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.866**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	28.6%
Number of Active Topics	6

3.30.3 Top Research Concepts: Concept Cloud

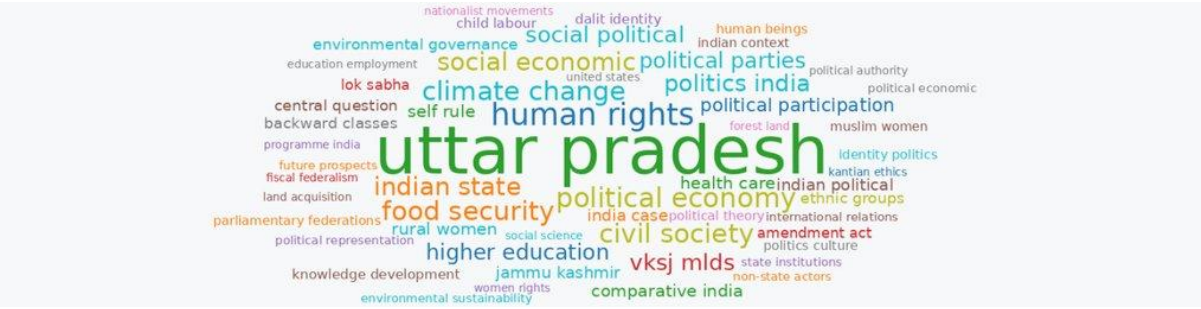

Figure 3.30.1: Political Science: Concept Cloud showing Top Research Concepts

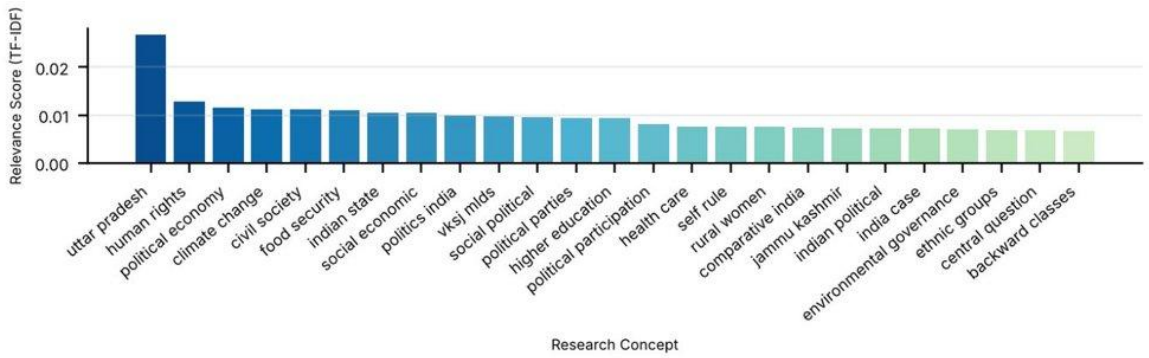

Figure 3.30.2: Political Science: Top Concepts by Relevance

3.30.4 Alluvial / Sankey Topic-Evolution Diagram

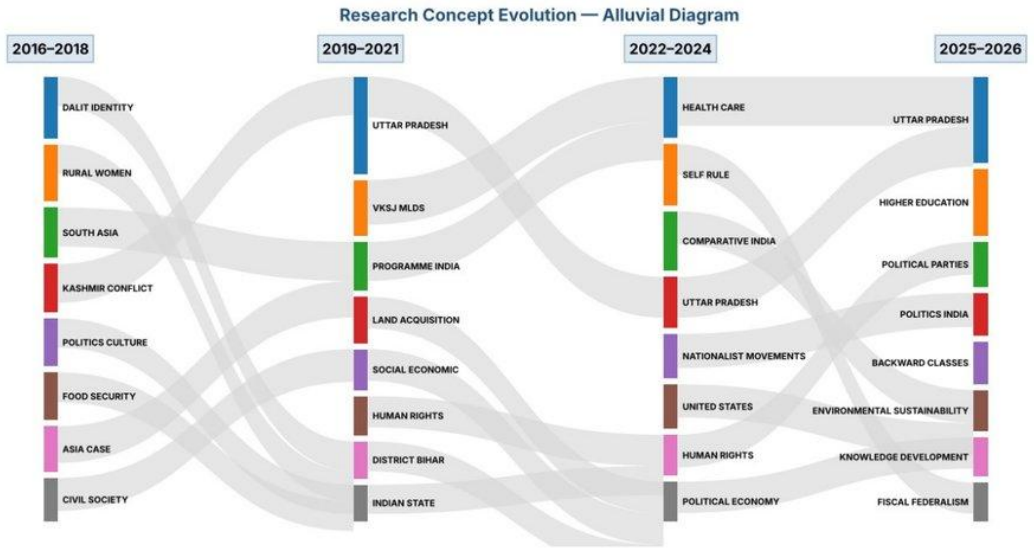

Figure 3.30.3: Political Science: Alluvial diagram showing the topic evolution over 2016-2026

3.30.5 Research Concept Co-occurrence Network

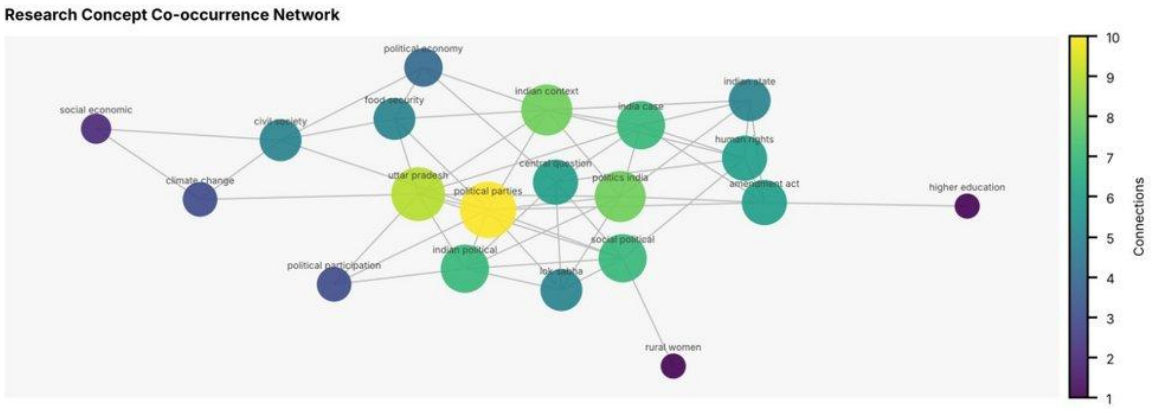

Figure 3.30.4: Political Science: Research Concept Co-occurrence Network

3.30.6 Growing and Emerging Concepts

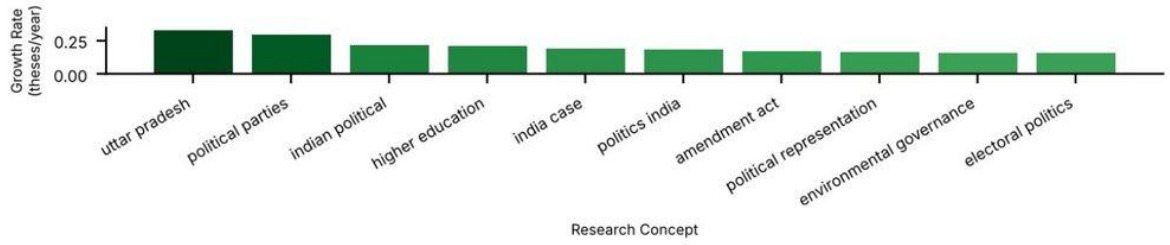

Figure 3.30.5: Political Science: Growing Research Concept

3.31 Psychology

3.31.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	156
Average per Year	15.6
Peak Year (Highest Output)	2026 | 32 Theses

3.31.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.694**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	39.7%
Number of Active Topics	6

3.31.3 Top Research Concepts: Concept Cloud



Figure 3.31.1: Psychology: Concept Cloud showing Top Research Concepts

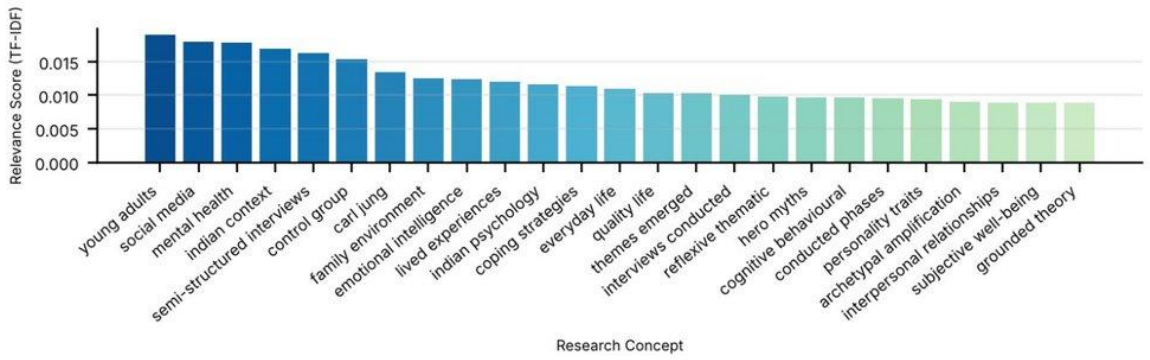

Figure 3.31.2: Psychology: Top Concepts by Relevance

3.31.4 Alluvial / Sankey Topic-Evolution Diagram

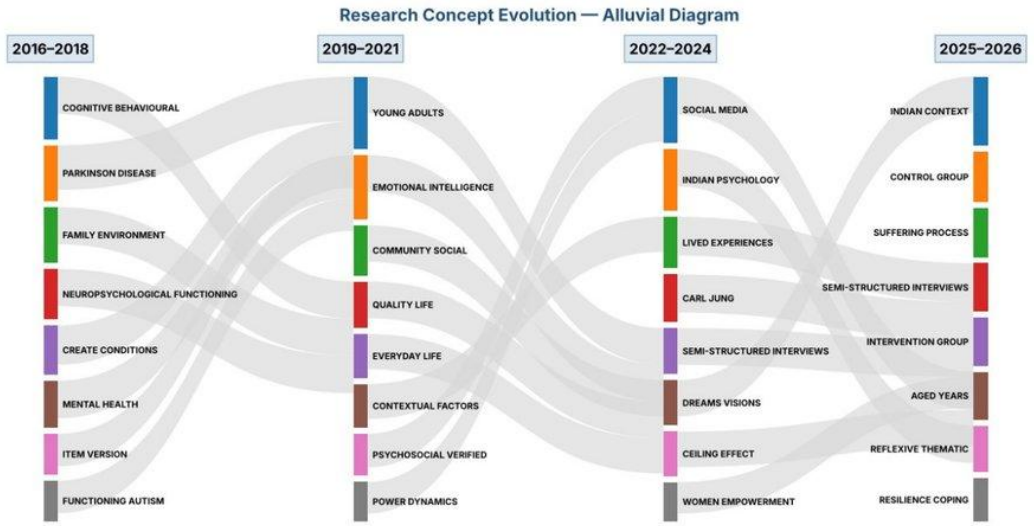

Figure 3.31.3: Psychology: Alluvial diagram showing the topic evolution over 2016-2026

3.31.5 Research Concept Co-occurrence Network

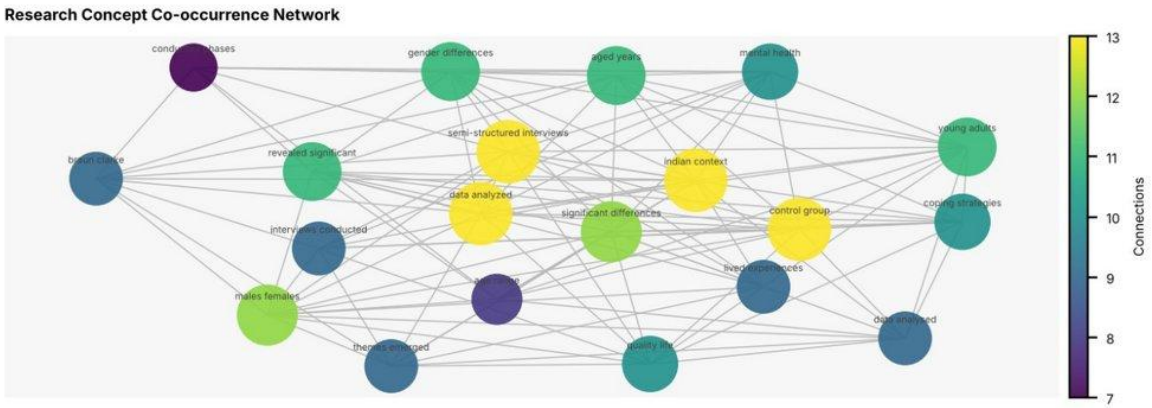

Figure 3.31.4: Psychology: Research Concept Co-occurrence Network

3.31.6 Growing and Emerging Concepts

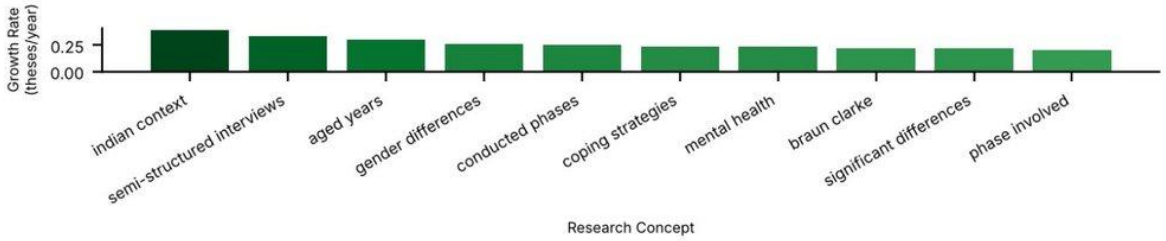

Figure 3.31.5: Psychology: Growing Research Concept

3.32 Sociology

3.32.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	202
Average per Year	20.2
Peak Year (Highest Output)	2025 | 34 Theses

3.32.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.452**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	52.5%
Number of Active Topics	4

3.32.3 Top Research Concepts: Concept Cloud



Figure 3.32.1: Sociology: Concept Cloud showing Top Research Concepts

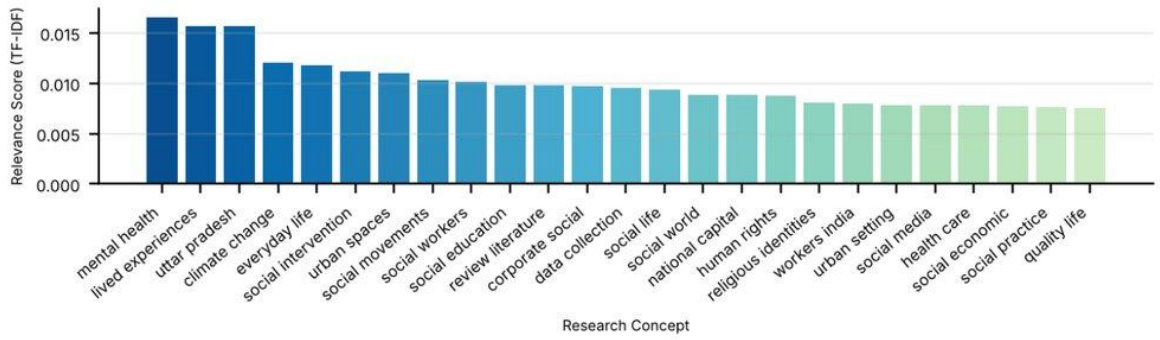

Figure 3.32.2: Sociology: Top Concepts by Relevance

3.32.4 Alluvial / Sankey Topic-Evolution Diagram

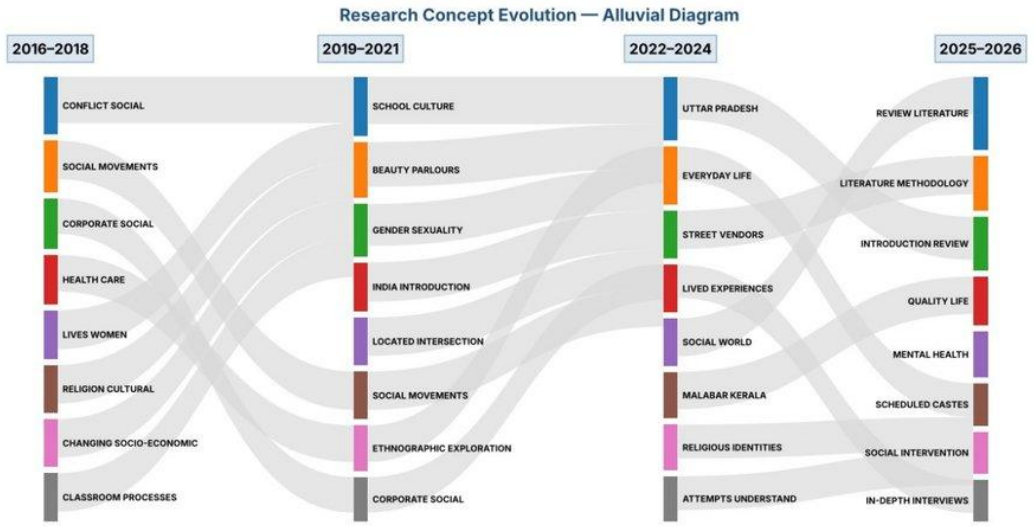

Figure 3.32.3: Sociology: Alluvial diagram showing the topic evolution over 2016-2026

3.32.5 Research Concept Co-occurrence Network

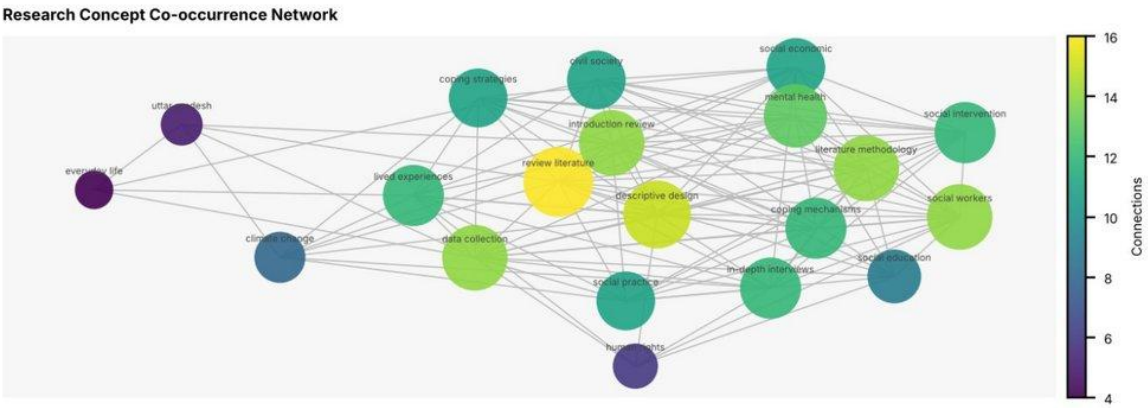

Figure 3.32.4: Sociology: Research Concept Co-occurrence Network

3.32.6 Growing and Emerging Concepts

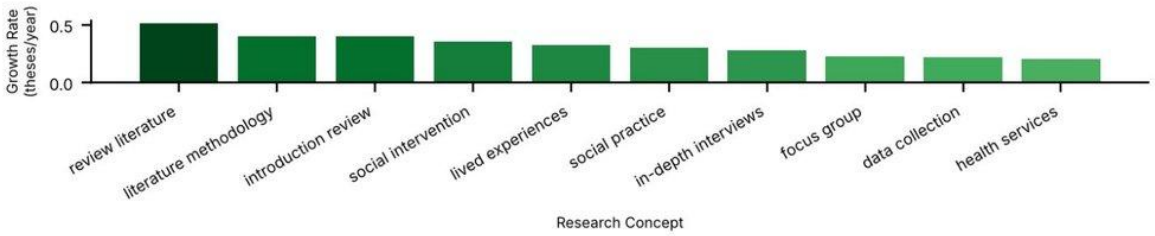

Figure 3.32.5: Sociology: Growing Research Concept

3.33 Statistics

3.33.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	43
Average per Year	4.3
Peak Year (Highest Output)	2024 | 11 Theses

3.33.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.763**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	32.6%
Number of Active Topics	6

3.33.3 Top Research Concepts: Concept Cloud



Figure 3.33.1: Statistics: Concept Cloud showing Top Research Concepts

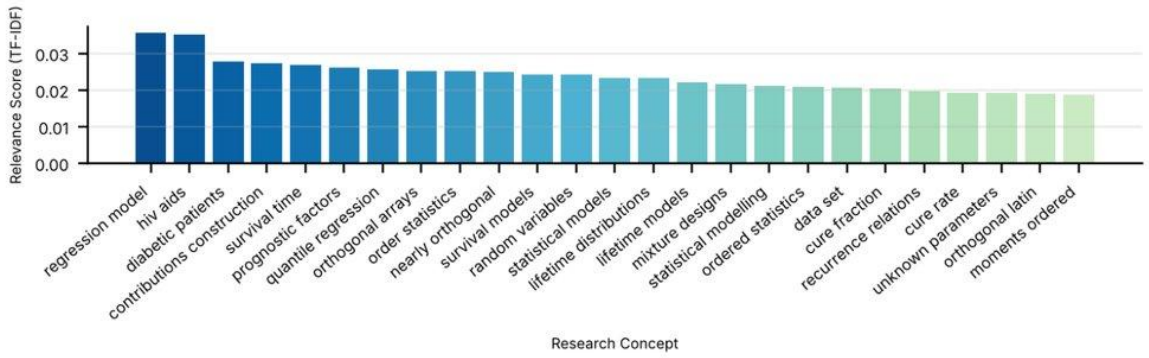

Figure 3.33.2: Statistics: Top Concepts by Relevance

3.33.4 Alluvial / Sankey Topic-Evolution Diagram

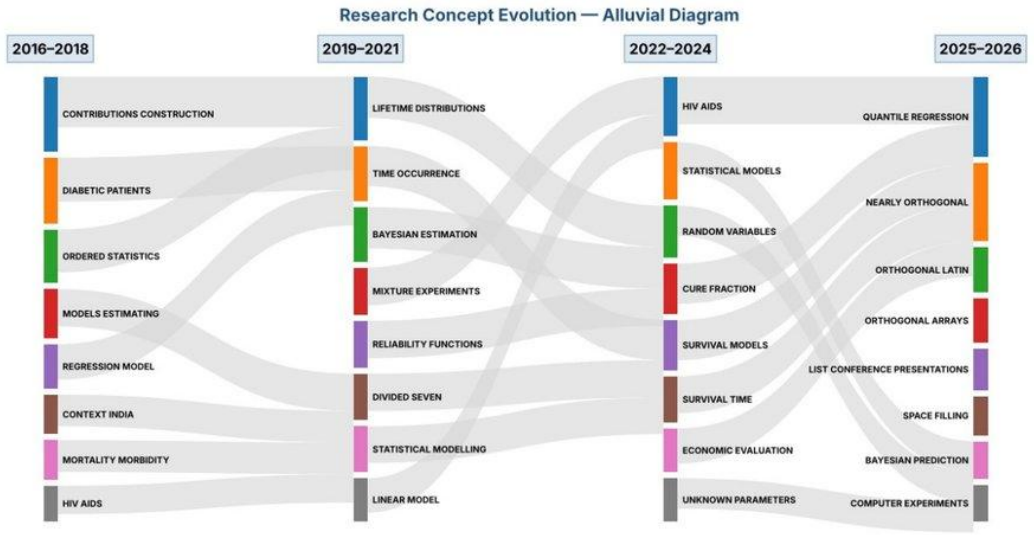

Figure 3.33.3: Statistics: Alluvial diagram showing the topic evolution over 2016-2026

3.33.5 Research Concept Co-occurrence Network

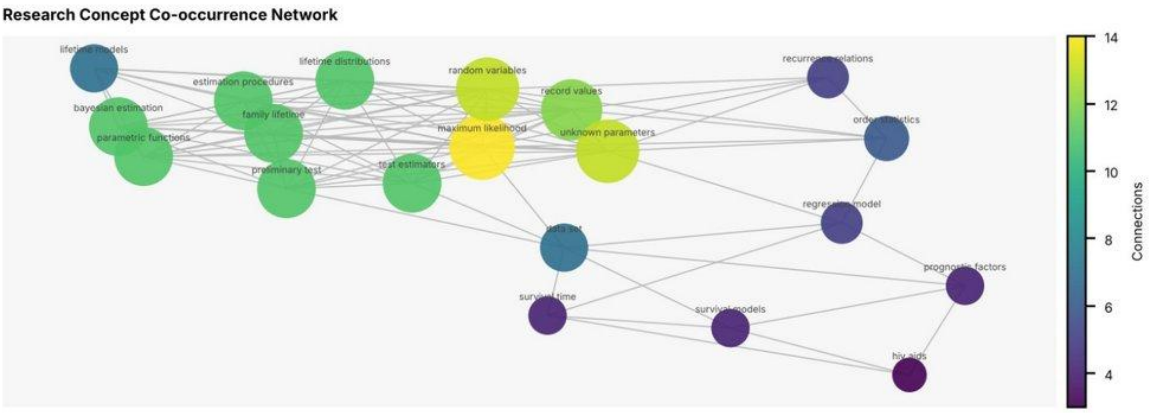

Figure 3.33.4: Statistics: Research Concept Co-occurrence Network

3.33.6 Growing and Emerging Concepts

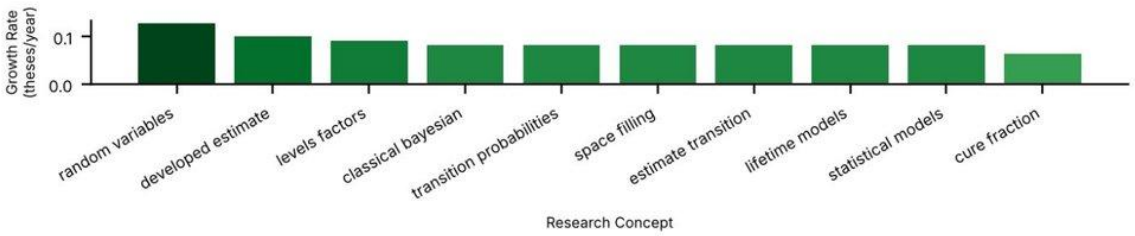

Figure 3.33.5: Statistics: Growing Research Concept

3.34 Technology

3.34.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	194
Average per Year	19.4
Peak Year (Highest Output)	2022 | 37 Theses

3.34.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.772**
Diversity Level	**Moderately diverse – some topic concentration**
Dominant Topic Share	28.4%
Number of Active Topics	5

3.34.3 Top Research Concepts: Concept Cloud



Figure 3.34.1: Technology: Concept Cloud showing Top Research Concepts

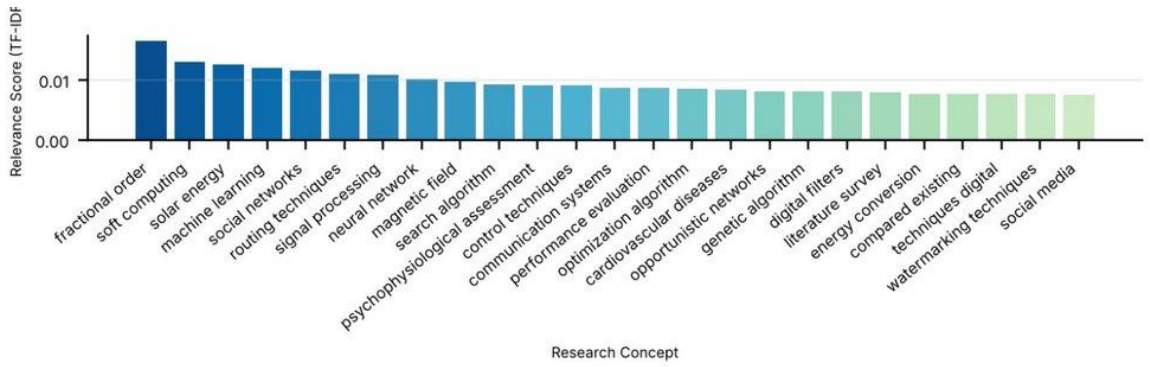

Figure 3.34.2: Technology: Top Concepts by Relevance

3.34.4 Alluvial / Sankey Topic-Evolution Diagram

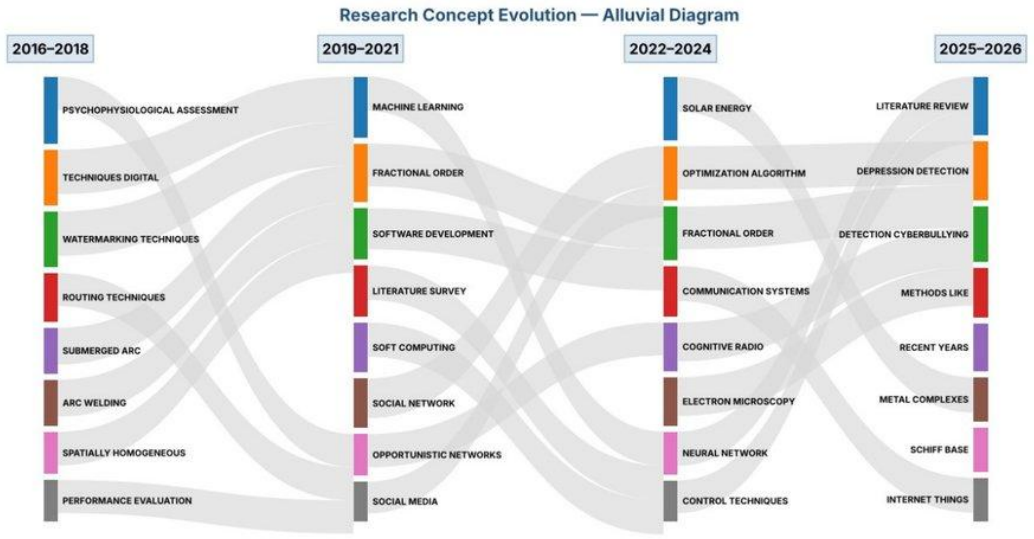

Figure 3.34.3: Technology: Alluvial diagram showing the topic evolution over 2016-2026

3.34.5 Research Concept Co-occurrence Network

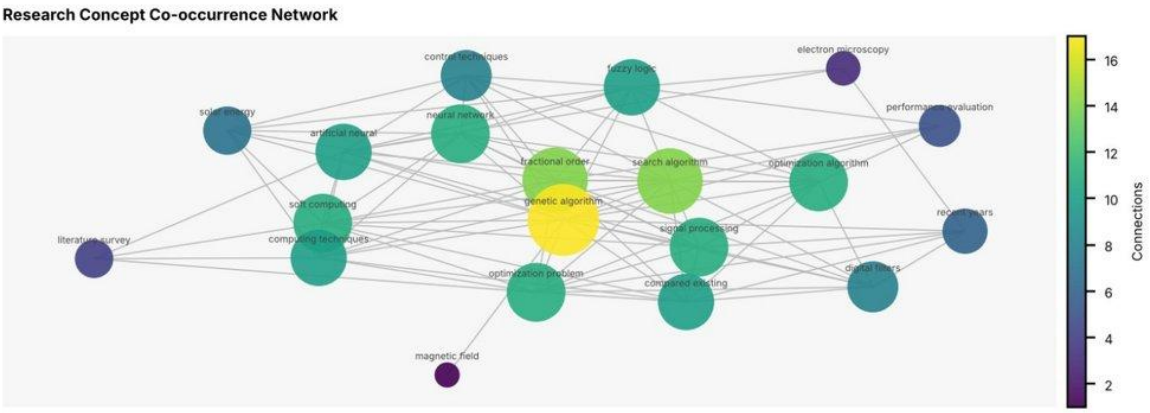

Figure 3.34.4: Technology: Research Concept Co-occurrence Network

3.34.6 Growing and Emerging Concepts

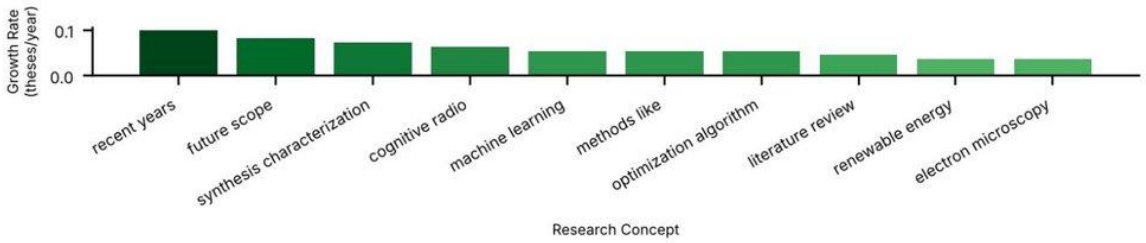

Figure 3.34.5: Technology: Growing Research Concept

3.35 Zoology

3.35.1 Quantitative Summary

Metric	Value
Total Number of PhD Theses	227
Average per Year	22.7
Peak Year (Highest Output)	2016 | 30 Theses

3.35.2 Research Diversity

Diversity Metric	Score
Topic Entropy (Shannon)	**1.874**
Diversity Level	**Highly diverse – research is spread across many topics**
Dominant Topic Share	27.8%
Number of Active Topics	7

3.35.3 Top Research Concepts: Concept Cloud



Figure 3.35.1: Zoology: Concept Cloud showing Top Research Concepts

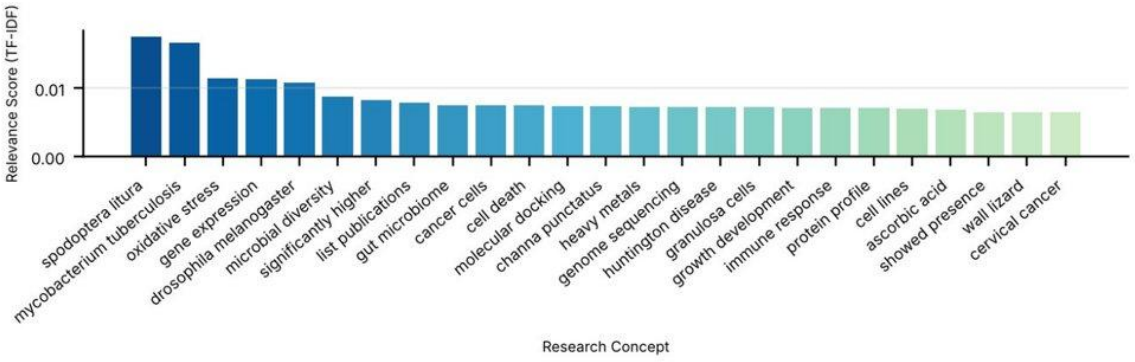

Figure 3.35.2: Zoology: Top Concepts by Relevance

3.35.4 Alluvial / Sankey Topic-Evolution Diagram

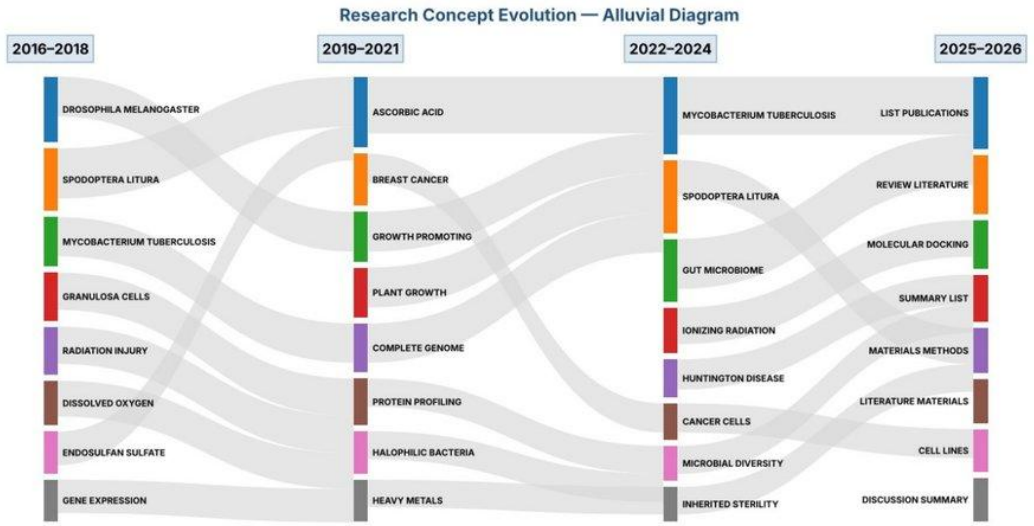

Figure 3.35.3: Zoology: Alluvial diagram showing the topic evolution over 2016-2026

3.35.5 Research Concept Co-occurrence Network

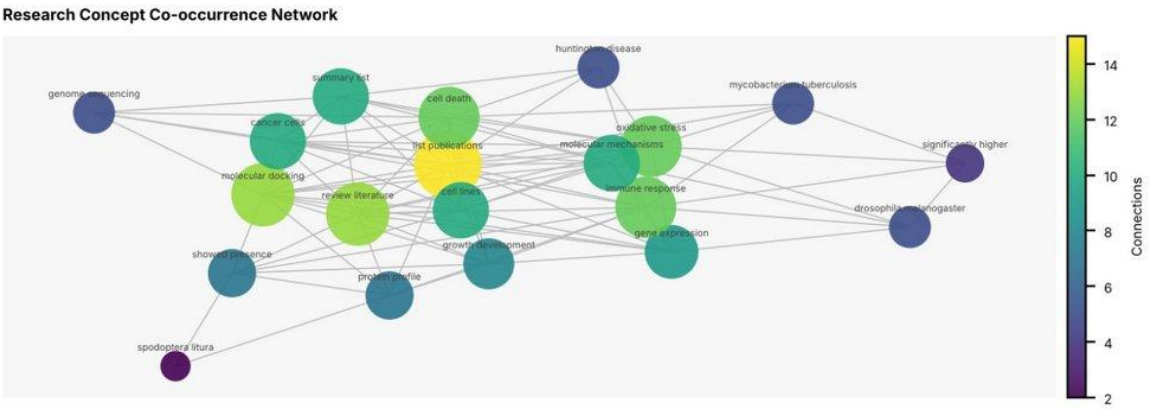

Figure 3.35.4: Zoology: Research Concept Co-occurrence Network

3.35.6 Growing and Emerging Concepts

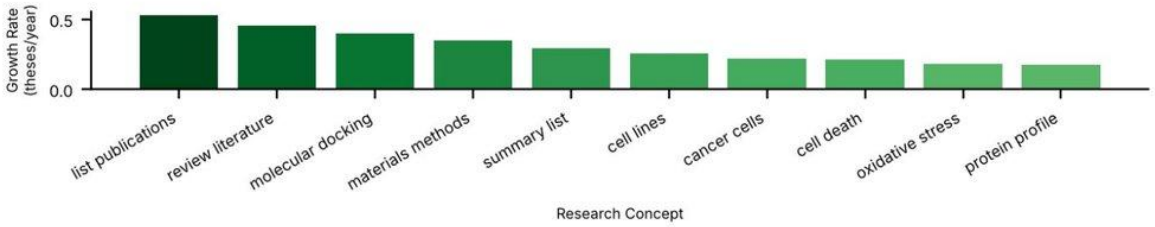

Figure 3.35.5: Zoology: Growing Research Concept

4. Conclusion

This comprehensive analysis of 4,999 PhD theses submitted at the University of Delhi between 2016 and 2026 across 35 major subjects demonstrates the University of Delhi's significant contribution to a highly diverse field.

In recent years, the subjects at the University of Delhi have seen a significant transition towards interdisciplinary study, tackling modern global issues. There is a growing emphasis in the sciences on climate change, renewable energy technologies, biotechnology, artificial intelligence, and data science. Themes of social justice, gender studies, migration, and digital humanities have been prominent within the humanities and social sciences, mirroring the evolving political, economic, and social landscapes in India and worldwide.

Subsequent thematic analysis of the theses indicates an increasing focus on the intersectionality of concerns. Current economic study frequently incorporates social inequity, worker rights, and environmental sustainability. In the social sciences, there is a marked rise in studies about the effects of digital transformation on education, healthcare, and public policy.

The expanding research landscape indicates that the University of Delhi aggressively addresses the demand for theoretically grounded information applicable to real-world challenges. The growing focus on sustainability, technological advancement, and social inclusion underscores the institution's commitment to producing research that is both relevant and influential. Consequently, analyzing these topics provides significant insights into the prospective trajectories of academic research in India and its correspondence with worldwide trends.

Moving forward, the University of Delhi is well-positioned to enhance its contributions to emerging areas across all its subjects by implementing modern, innovative research methods and by providing adequate research infrastructure, resources, and services.

— End of Report —