

Contents

List of Abbreviations	ii
List of Graphs	iii
Acknowledgements	iv
Summary	V - ix
Chapter 1 Introduction and Methodology	1
Chapter 2 Research Methodology	3
Chapter 3 Literature survey	7
Chapter 4 Growth of S&T scholarly literature	17
Chapter 5 Analysis of Total Citations	39
Chapter 6 Analysis of Citations per Document	68
Chapter 7 Citation and Economic Variables	97
Chapter 8 Citation impact analysis of country-wise Journal groupings	113
Chapter 9 High 'citation impact' countries - A Case analysis of Immunology	161
Chapter 10 Tail-end citations -A Case analysis of Economics	173
Chapter 11 Publishers-wise citation distribution in Scopus	179
Chapter 12 Summary and conclusions	189
References	209

List of Abbreviations

CitableDocs	Citable Documents
CitesPerDoc	Citations per Document
DORA	Declaration on Research Assessment
GDP	Gross Domestic Product
Inter.Collab.	International Collaboration
JCR	Journal Citation Ratio
NIRF	National Institute Ranking Framework
R&D	Research & Development
RefPerDoc	References per Document
S&T	Science & Technology
SJR	Scimago Journal Ranking
TotalCites	Total Citations
TotalRefs	Total References

List of Graphs

4.1 Growth of Source Materials in Scopus	26
4.2 Scientific Literature Output - 1996-2018 (Scopus)	26
4.3 Citable Docs of Top Countries	27
4.4 Cited Docs of Top Countries	27
4.5 Agricultural & Biological Sciences - Top Countries	29
4.6 Chemical Engineering - Top Countries	29
4.7 Chemistry - Top Countries	29
4.8 Computer Science - Top Countries	29
4.9 Decision Science Top Countries	30
4.10 Decision Science Top Countries	30
4.11 Earth & Planetary Sciences - Top Countries	30
4.12 Economics- Top Countries	30
4.13 Energy - Top Countries	31
4.14 Engineering - Top Countries	31
4.15 Environmental Science - Top Countries	31
4.16 Health Sciences - Top 10 Countries	31
4.17 Immunology and Microbiology - Top Countries	32
4.18 Mathematics - Top 10 Countries	32
4.19 Medicine - Top Countries	32
4.20 Neuroscience - Top Countries	32
4.21 Physics& Astronomy - Top Countries	33
4.22 Psychology - Top Countries	33
4.23 Veterinary Science - Top Countries	33
4.24 Uncited Journal Articles of Top10 countries	34
4.25 Uncitedness to the country total	34
4.26 Uncitedness to the country total	34
4.27 Uncitedness to the country total	35
4.28 Major country-wise distribution of Journals	35
4.29 Distribution of Journals in Scopus on H Score (2018)	35
4.30 Country-wise Journals with 0-9 H Score	35
4.31 Country-wise Journals with 10-19 H Score	36
4.32 Country-wise Journals with H Score 20 or more	36
4.33 External Citations of Top 10 Countries	36
4.34 Self-citations of Top 10 countries	36
4.35 Citable Documents & Citations	37
4.36 International Collaboration for Top Countries* (Citable articles)	37
4.37 International Collaboration of Bottom 9 Countries* (Citable articles)	38
4.38 Average Citations per Document	38