

Article

Towards Understanding the Landscapes of Neighbourhood Research: An Insight from Bibliometric Analysis

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Abstract: The concept of neighbourhood remains contested and negotiated, and how to define it continues to be subject to debate. Neighbourhood is important for understanding social processes, behavioural characteristics, policy implementation and development initiatives. Until now, no attempt has been made to statistically characterise the field. This study aims to provide a macroscopic overview using bibliometric analysis of the main characteristics of neighbourhood research publications in order to understand the academic landscape. This characterisation will help to understand the scholarship nuances, which are often difficult to grasp by reading selected academic papers. The study analyses the emergence and evolution of the concept of neighbourhood in published research, its global regional distribution and extent of collaboration between regions, the contribution of institutions, author and journal productivity, as well as scholarship clusters of neighbourhood publications. The paper shows that the subfield of neighbourhood research is predominantly under the hegemony of the United States, given its major role in publication records, institutional contributions and international collaborations. While most studies have concentrated on social and environmental aspects of neighbourhood, topics related to the local economy of neighbourhoods are sparse, suggesting a major gap in the literature.

Keywords: neighbourhood; academic landscape; bibliometric analysis; urban

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1. Introduction

The essence of the idea of neighbourhood is a local place of lived experiences. Neighbourhood as an academic concept and research unit continues to attract scholarly interest from different disciplines, including but not limited to urban planning, community development, geography and sociology. This increasing attention could be attributed to its embodiment as a microcosm of broader urban socio-ecological landscapes. The relevance of neighbourhoods as spatial units can be seen from different perspectives, including planning and strategic policies [1,2], population sampling [3], understanding behavioural characteristics [4] and social processes, such as immigration, unemployment and housing quality [5].

In spite of its currency, the concept of neighbourhood remains contested and negotiated, and how to define it continues to be subject to debate. The porosity and fluidity of neighbourhood boundaries, in addition to emerging social changes, make accurate definition a challenging task [6]. One author of [7] conceptualised neighbourhoods as socio-territorial units, encompassing four dimensions: the place-based, involving physical, topology, morphological, and architectural aspects of a neighbourhood; local human activities, including mobility and social organisations; unique cultural characteristics and personalities. Drawing on traditional conceptualisations, and echoing Brower's [7]

encapsulation, the authors of [8] classified neighbourhoods by emphasising territorialisation, rootedness, day-by-day services, social interactions, control and identity as well as place attachment. Forrest and Kearns [9] defined neighbourhood as ‘overlapping social networks with specific and variable time-geographies’. Others have defined neighbourhood from multiscalar [10] and place-framing perspectives [11]. Bjarnesen [12] notes that the varied connotations of neighbourhood in everyday life make the analytical application of the concept challenging. In this study, a neighbourhood is defined as a local abode with a defined or undefined boundary, often characterised by complex socio-economic and ecological interactions.

In practice, scholars have studied a wide range of phenomena at the neighbourhood level, ranging from neighbourhood effects and change [13–17], social cohesion [9,18], satisfaction and wellbeing [19,20], deprivation [21,22], health [23] and redevelopment [24]. They have also examined its practical definition [25] and its use as a geographical unit for addressing social challenges [26]. These studies, and many others, undoubtedly have made significant contributions in enriching both empirical and theoretical understanding of neighbourhood issues.

Until now, however, no attempt has been made to statistically characterise the field. The present study aims to fill that gap. The objective of the present paper is to provide a macroscopic overview using bibliometric analysis of the main characteristics of neighbourhood research publications in order to understand the academic landscape. The scientific value of this exercise is that characterisation helps to understand scholarship nuances (e.g., publication trends, collaborations, research hotspots, etc.), which are often difficult to imagine by reading selected academic papers. Specifically, the study seeks to (1) identify publication patterns, such as temporal dynamics and journal types; (2) quantify scholarship performance and impact from multiple perspectives, including authors’ countries and institutions; and (3) examine the intellectual development path by visualising the citation networks. Applying a bibliometric approach will be helpful in providing an overview of a research topic, which can inform further research [27], in addition to helping to identify research gaps. The study analyses are not limited to a particular aspect of neighbourhood research because of the potential danger in skewing the results; therefore, this study seeks to analyse neighbourhood as a general field.

This paper aims to be relevant in shaping the future direction of neighbourhood scholarship, but also to help avoid duplication of research efforts, while aiding in identifying the most productive authors, institutions, journals and countries in the domain of neighbourhood research. Its next section presents the method, including a detailed description of the sources, methods and data of bibliometric analysis. This is followed by results and discussions, while the last section concludes the paper, and considers its implications.

2. Materials and Methods

2.1. Bibliometric Analysis

Bibliometric analysis is widely applied across different disciplines, because it provides valuable information about scientific fields [28]. At its heart are statistical techniques used to objectively examine and quantify the number and growth trend of publications in an academic discipline [29,30]. Bibliometric analysis makes it possible to provide a macroscopic overview of a large amount of literature, through characterisation of various attributes, such as publication record, growth and impact [31,32] and it allows assessment of scientific quality and knowledge impact in a particular research domain [33]. It has been applied to study many fields in different contexts, including sustainability science [34], smart cities [35], city systems [36], funding and research productivity [37], safety culture [38] and deforestation [39].

Given the burgeoning literature in almost every academic field, scholars increasingly face a herculean task of achieving a structured overview of the landscape of their

discipline or field [40]. Bibliometric analysis provides an effective way not only to analyse and summarise, but also to study the structure, distribution, relationships as well as growth of academic literature [41]. Such analyses help us to understand the social dimensions of (social) science and how social science is configured and knowledge produced in relation to the phenomenon studied. Notably, scholars use it to evaluate research productivity and impact [29], to map research communications [42] and to analyse connections between different bodies in the publication landscape [43]. It should, however, be noted that other important techniques, such as systematic review, literature review, scoping review and meta-analysis can be used to perform similar analyses.

The current study adopts bibliometric analysis due to its power to provide a broad overview of a field, dwelling on techniques, such as social network analysis (in delineating cocitations and international collaboration) and cluster analysis. Moreover, unlike systematic review and meta-analysis, bibliometric analysis is not limited in terms of literature quantum as the use of software makes it possible to avoid the manual exercise of counting and reading individual papers in a collection. There are still limitations, however. For instance, search parameters, particular languages and restrictions on the type of document included affect the results, thereby compromising a fully comprehensive picture of a particular field. Yet these shortcomings do not deny the usefulness of bibliometric analysis in charting scientific disciplines as it “does not replace the fundamental work of extensive readings but allows framing the literature in a novel way” [36] (p. 537).

Bibliometric analysis uses several techniques, such as basic bibliometric information, performance analysis, science mapping and domain visualisation in order to understand the scholarship terrain [34,44]. Core units of analysis consist of authors, journals, documents, citations, institutions and countries. Importantly, cocitations measure research influence, on the assumption that scholars cite works that they believe have influenced their field [45,46]. Cocitation refers to the frequency by which two documents are cited together [47] although it should be noted that this does not necessarily measure productivity. According to [48], although citation is important, methodological rigour and robustness of results must be prioritised in determining the quality of a paper. This is particularly important as papers in open access journals—some of poor quality—tend to be cited more frequently. Quantity (number of publications) and quality (impact of a publication) are two major indicators that measure the productivity and quality of research in this domain of scientific analysis [46,49]. Co-authorship analysis, in particular, provides critical information about the intellectual structure and social connections among scientists [50].

Taking cognisance of existing studies, the present study analyses the landscape of neighbourhood scholarship from the perspectives of literature growth, productive authors and journals, cocitations, publishing institutions and collaboration to discern underlying influences and to obtain a systematic overview of the features and the evolutions in the field.

2.2. Data Sources

The Web of Science (WOS), owned by Clarivate Analytics based in Philadelphia, and Scopus, owned by Elsevier which is headquartered in Amsterdam, are the two major academic abstract and citation databases used for bibliometric studies. For the purposes of this study, both databases were tested. The results in this paper were verified with the WOS database and WOS results are available upon request. Scopus was preferred to WOS because of its wider coverage of relevant journals, particularly in the field of social science. Scopus covers more titles [51,52] and is less stringent on journal index status [35], hence, making it a more comprehensive source. It also has a stronger social science coverage [35,36,53]. Although Scopus covers more journals than WOS, it should be noted that it does not cover every single paper in a particular field of study, including some influential work. As such, results reflect the limitations of the database and require to be interpreted with a degree of caution.

To access relevant neighbourhood papers in Scopus, searches were conducted using a keywords strategy [54]. The keywords were combined using Boolean Operators. The first variant of the search was to look for those words that are synonymous with the ‘neighbourhood’ term (e.g., vicinity, community, urban hood, urban area, suburb and locale). The ‘AND NOT’ operators were applied to terms such as ‘community’, ‘hood’ and ‘catchment area’, to limit the results to relevant papers only. Although ‘community’ is often used as a near-synonym of neighbourhood, a separate search generated 312,000 items with most papers discussing plant and animal communities, which were irrelevant to the current context. The operators were therefore applied to the term ‘community’ to exclude papers that discuss animal, plant, ecological, religious, interest, consumer, international, crofting, minority and online communities. A similar approach was applied to the remaining keywords. The second variant of the search was to combine neighbourhood with key [issue] terms (i.e., an issue-based search) (e.g., neighbourhood crime, neighbourhood satisfaction, neighbourhood effects, neighbourhood change and neighbourhood participation). This was important as it ensured that relevant papers that were missed in the first variant search were captured in the collection.

In all, 40 keywords were used for the search. These keywords were carefully selected, given that the concept of neighbourhood is fluid. They were particularly informed by literature and personal experience and knowledge of neighbourhood research. For the same reasons, the study treated the term ‘neighbourhood’ as a social construct. As such, the search was limited to only the Social Science collection in the Scopus database. Both British and American spellings were used in the search strategy. The search strategy (see Appendix A) is included in the paper for reproducibility purposes.

The time span for the search was from 1990 to 2020. The three-decade period was selected to allow for nuances in the publication trend. Using the title, abstract and keyword search options within Scopus, a total of 62,648 social science publications were retrieved. The records were then limited to only original articles, papers published in English and selected journals, using a manual process. The filtering (a 32-page filtering process file is available as supplementary file. This file will be made available upon request) brought down the number of papers to 11,714, which were used for the analysis. The language screening was important to ensure that all articles could be analysed without difficulty. However, we acknowledge that this is likely to have eliminated some important papers published in other languages. Figure 1 shows the process.

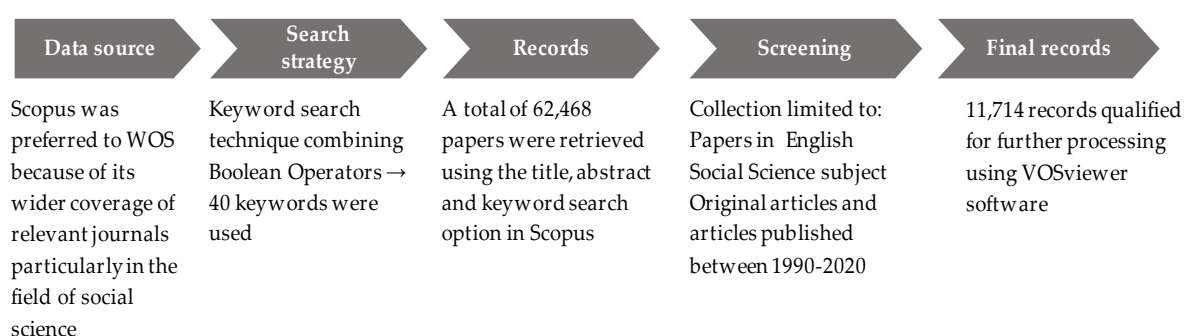


Figure 1. Methodological process.

2.3. Data Processing and Research Cluster

The Scopus data was processed using the VOSviewer (Visualizing Scientific Landscapes) software [55]. This software is based on an algorithm called “visualisation of similarities” or VOS [56]. It provides a graphical representation of bibliometric networks, which enables relationship mapping between, for instance, keywords or co-occurrence that illustrate the most frequently used terms by scholars in a particular field. It further reveals clusters, making it possible to visualise, for instance, the intensity of citations and

collaboration among countries [49]. The study used VOSviewer due to its user-friendly nature and wide application [38,57]. In particular, cluster analysis enables the partitioning of research into thematic areas, therefore illustrating the interrelationships among the different research streams [58]. This approach is frequently used in bibliometric analysis and critical discourse topics to understand author relationships [59]. In the present study, cluster analysis was used to identify thematic areas of neighbourhood scholarship, the nature of international collaboration, as well as keyword analysis. The latest impact factor (IF) of each journal was manually extracted from the relevant journal websites.

3. Results and Discussions

3.1. Collection Information and Publication Trend

The 11,714 articles were published in 130 journals by 17,805 authors (see Table 1) with an average citation of 27.24 per article. The contribution of articles to the domain of neighbourhood scholarship suggests the importance of original peer-reviewed research in the production of knowledge.

Table 1. Main information for the Social Sciences collection (1990–2020).

Main Information	Number
Total documents	11,714
Sources	130
Timespan	1990–2020
Authors	17,805
Keywords	14,444
Single authored documents	2713
Multiple authored documents	15,092
Average citations per document	27.24
Average citation per year per document	2.417

Source: Scopus database computation.

In terms of scholarship growth, three major stages can be identified (Figure 1). The period between 1990 and 2000 is characterised by a low level of neighbourhood studies, just 999 papers in the decade. The second decade is one of very considerable growth, where publication numbers increased to 3063. The period between 2011 and 2020 can be said to be the peak of neighbourhood research (so far), as publication more than doubled (to 7691) over the previous period. A closer look reveals a rising trend within all three stages, however. Critically observing Figure 2, it can be seen that there was a slight decline in 2002, 2008, and 2014, with the fastest growth occurring from 2015–2020.

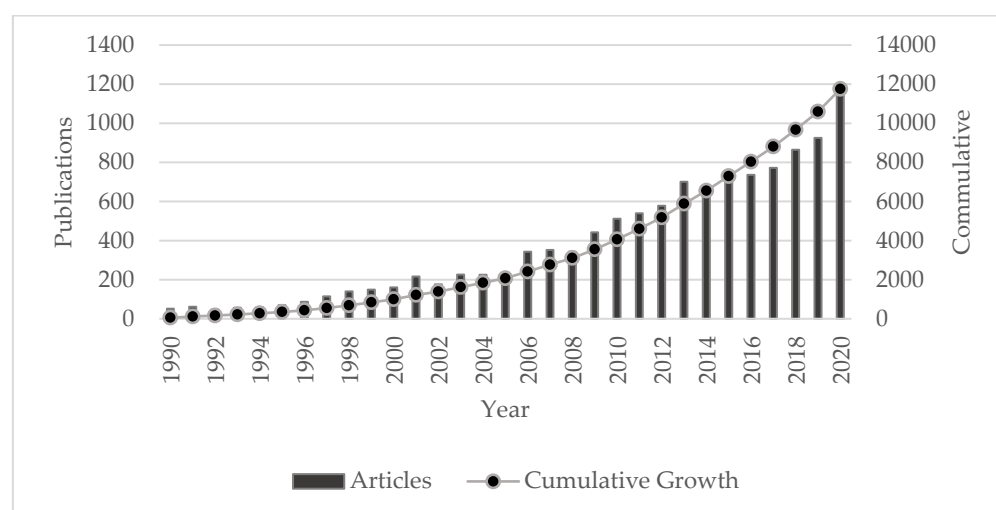


Figure 2. Number of neighbourhood publications and cumulative number of neighbourhood publications by year (1990–2020). Source: Scopus database.

3.2. Neighbourhood Publication Sources

Table 2 shows the top 25 journals that publish neighbourhood research. It is evident that many can be characterised as urban studies or planning journals. Altogether, the 11,714 outputs were published by 130 journals. The top 5 journals have, in total, published 2840 papers, with the top 10 publishing 4247, representing 24.2% and 36.2% of all neighbourhood-related papers, respectively. Urban Studies tops with 734 publications and 25,173 citations, followed by Health and Place (720 records), Social Science and Medicine (676 records), Journal of Urban Health (362 records) and Cities (348 records). Social Science and Medicine is the most cited journal with 39,060 citations, followed by Health and Place (26,860 citations) and Urban Studies (25,173 citations). In terms of journal impact, the top journals are Journal of the American Planning Association, Cities, Habitat International, Urban Geography, Journal of Transport Geography and Social Science and Medicine, with impact factors of 6.95, 4.80, 4.31, 4.04 3.83 and 3.62, respectively.

Table 2. Top 25 publishing journals in the Social Sciences collection (1990–2020).

Rank	Journal	No. of Documents	% Share	Total Citations	IF
1	Urban Studies	734	6.25	25,173	2.828
2	Health and Place	720	6.13	26,860	3.29
3	Social Science and Medicine	676	5.75	39,060	3.616
4	Journal of Urban Health	362	3.08	9109	2.356
5	Cities	348	2.96	6812	4.802
6	Housing Policy Debate	298	2.54	8858	1.927
7	Urban Geography	290	2.47	6729	4.04
8	Journal of Urban Affairs	285	2.42	5438	1.619
9	Environment and Planning A	269	2.29	9102	3.033
10	Housing Studies	265	2.25	7162	2.27
11	Urban Affairs Review	217	1.85	6383	2.192
12	Habitat International	197	1.68	4591	4.31
13	International Journal of Urban and Regional Research	196	1.67	6185	2.975
14	Planning	184	1.57	260	
15	City and Community	182	1.55	2286	1.133

16	American Journal of Community Psychology	166	1.41	7398	1.509
17	Social Science Research	160	1.36	4010	1.959
18	Journal of the American Planning Assoc.	157	1.34	8961	6.95
19	Journal of Planning Education and Research	155	1.32	3981	3.1
20	Children and Youth Services Review	149	1.27	2195	1.521
21	Applied Geography	148	1.26	2886	3.508
22	Journal of Transport Geography	142	1.21	3838	3.834
23	Journal of Housing and the Built Environment	138	1.17	1649	1.442
24	Journal of Urban History	137	1.17	925	0.453
25	Journal of Urban Economics	130	1.11	5253	2.858

Note: Total number (N) of the publishing journals is 130. The table shows only the top 25. The number of papers is based on the count in the collection. Impact Factor (IF) is the current figure and was searched manually from the individual journal websites. Source: Scopus database.

3.3. Top Publishing Authors in the Scopus Database

The 11,714 papers were written by 17,805 scholars (authors and coauthors combined). Table 3 shows the topmost productive (in terms of publishing) authors with their corresponding h-index and citations. From Table 3, Galster of Wayne State University, United States, leads the publication records with 65 papers and an h-index of 28. This is followed by Giles-Corti and Hipp (48 each), Kearns (39), Musterd (36), Subramanian (35) and Wu (33) with h-indexes of 27, 23, 21, 23, 20 and 26, respectively. While the United States is represented by five scholars in the top 10, Australia and United Kingdom are represented by two each, with The Netherlands represented by one scholar. With respect to the most cited authors, Giles-Corti tops with 3280 citations. He is followed by Frank, Diez Roux, Kawachi, Galster, Sallis, Wu, Saelens and Kearns with 2850, 2756, 2716, 2619, 2551, 2534, 2519 and 2372 citations, respectively. From these results, it can be argued that these scholars lead the subfield of neighbourhood research, at least with respect to outputs that appear in the current Scopus collection.

Table 3. Top 40 most productive and cited authors in the Social Sciences collection.

Rank	Author	Records	h-Index	Total Citations	Institution
1	Galster, G.	65	28	2619	Wayne State University, United States
2	Giles-Corti, B.	48	27	3280	RMIT University, Australia
3	Hipp, J.R.	48	23	1588	University of California, Irvine, United States
4	Kearns, A.	39	21	2372	University of Glasgow, United Kingdom
5	Musterd, S.	36	23	1834	Universiteit van Amsterdam, Netherlands
6	Subramanian, S.V.	35	20	2217	Harvard University, United States
7	Wu, F.	33	26	2534	University College London, United Kingdom
8	Sallis, J.F.	32	21	2551	Australia Catholic University
9	Immergluck, D.	30	16	1197	Georgia State University, United States

10	Kawachi, I.	28	20	2716	Harvard T.H. Chan School of Public Health, United States
11	Witten, K.	28	17	975	Massey University, New Zealand
12	Diez Roux, A.V.	27	22	2756	Drexel University, United States
13	van Ham, M.	27	14	850	Delft University of Technology, Netherlands
14	Browning, C.R.	26	16	1251	Ohio State University, United States
15	Talen, E.	25	18	1131	University of Chicago, United States
16	Owen, N.	24	18	1644	The University of Queensland, Australia
17	Saelens, B.E.	24	16	2519	Children's Hospital and Regional Medical Centre, United States
18	Cerin, E.	23	16	1213	Australian Catholic University
19	Frank, L.D.	23	17	2850	The University of British Columbia, United States
20	Kestens, Y.	22	13	1160	Université de Montréal, Canada
21	South, S.J.	22	18	1639	University at Albany, United States
22	Sugiyama, T.	22	14	991	University of South Australia
23	Ellen, I.G.	21	11	1363	New York University, United States
24	Andersson, R.	20	17	1121	Uppsala Universitet, Sweden
25	Webster, C.	19	14	1221	University of Cardiff, United Kingdom
26	Bolt, G.	18	14	1221	Utrecht University, Netherlands
27	Clark, W.A.V.	18	12	783	University of California, Los Angeles
28	Cohen, D.A.	18	13	1010	RAND Corporation, United States
29	Conway, T.L.	18	14	1909	University of California, San Diego
30	Ellaway, A.	18	13	1406	University of Glasgow, United Kingdom
31	Koohsari, M.J.	18	9	497	Waseda University, Japan
32	Mavoa, S.	18	12	610	Melbourne School of Population and Global Health, Australia
33	O'Campo, P.	18	14	1104	University of Toronto, Canada
34	Pearce, J.	18	13	583	The University of Edinburgh, United Kingdom
35	Song, Y.	18	15	1240	The University of North Carolina at Chapel Hill, United States
36	Badland, H.	17	13	630	RMIT University, Australia
37	Crawford, D.	17	15	1492	The Institute for Physical Activity and Nutrition, Australia
38	Crowder, K.	17	11	1018	University of Washington, United States
39	Freeman, L.	17	14	1122	Columbia University in the City of New York

40	Holloway, S.R.	17	14	618	University of Georgia, United States
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Note: The 11,714 papers were written by 17,805 authors. The table shows only the top 40 authors. The h-index measures author productivity based on the number of publications and citations within the database. A complete list of authors can be found in the supplementary file. Source: Scopus database.

3.4. Cocitation and Research Cluster

Cocitation analysis places emphasis on the interaction between two publications. It gives a general overview of papers that have been cited together in other publications. Similarities between two or more papers can be identified by looking at how often they have been cited together [60]. Figure 3 shows the cocitation results. The nodes represent the papers, while the edges (curved lines) represent the interactions between the papers. The larger a node the more influential that particular paper is, in the subfield. A shorter edge between two papers indicates a stronger relationship and a high degree of similarity between the papers. Nodes with the same colour show that the papers discuss similar topics, helping to identify major clusters in the field. It should be noted that each node is represented by the publication's first author.

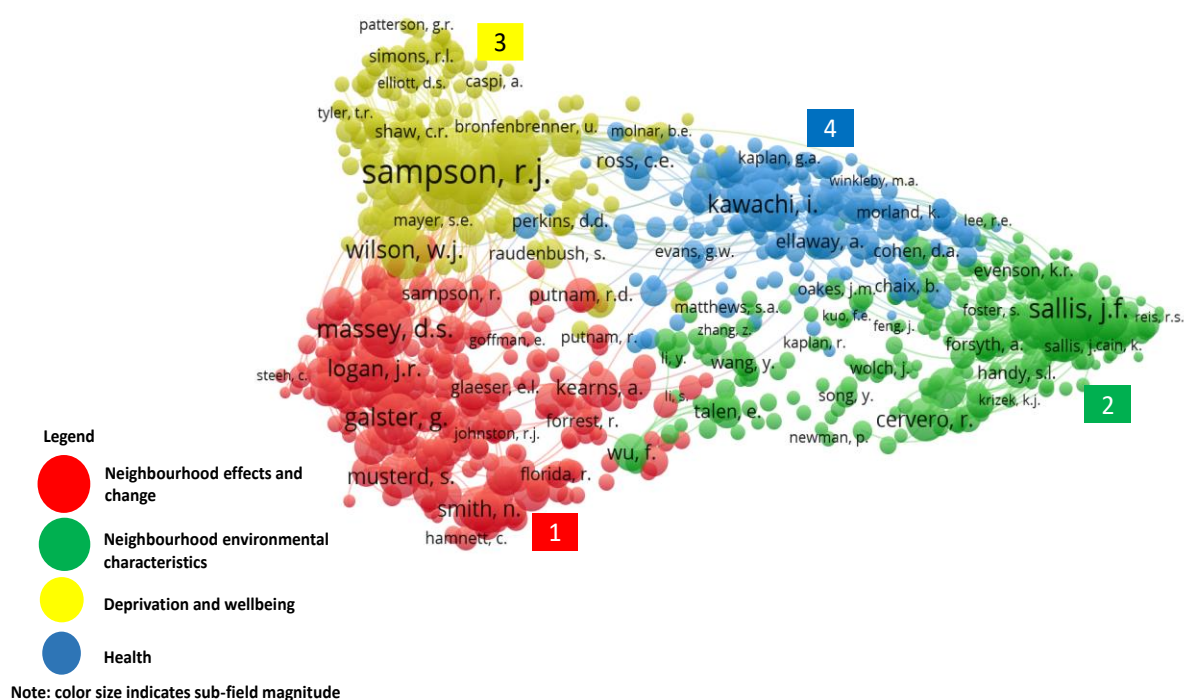


Figure 3. Author cocitation and clusters of neighbourhood research. The first-named author identifies publications. A threshold of 50 minimum citations was applied and limited to 1000 most productive authors. Cluster 1 (n = 310 items); Cluster 2 (n = 289 items); Cluster 3 (n = 214 items); Cluster 4 (n = 187 items). Note that the figure shows only the most cited and influential authors in each subfield of neighbourhood research. Source: Generated using Scopus collection.

Figure 3 clearly shows that within the domain of neighbourhood research, there are four distinct clusters, each representing a major research focus. From the figure, the largest cluster is coloured red, followed by green, yellow and blue, in that order. A closer look at the figure reveals that the colours somehow intermingle, particularly red and green, blue and green, suggesting that the clusters (based on the clustering algorithm within the software) cover similar topics. By carefully reading the original papers in each cluster, suitable

labels were assigned. The largest cluster (red) represents the subfield of neighbourhood effects and change. The next major cluster (green) represents the subfield of neighbourhood environmental characteristics, with yellow and blue (third and fourth clusters) representing the subfields of deprivation and wellbeing and health, respectively.

Figure 3 also reveals key papers in each cluster, e.g., Galster (2012), Massey (1990), Musterd (2012) and Kearns and Parkinson (2001) in neighbourhood effects and change; Sallies et al. (2009) and Cervero (2004) in the subfield of neighbourhood environmental characteristics; Kawachi (2007) and Ellaway (2001) in health cluster; and Sampson (1997) and Wilson and Taub (2007) in the deprivation and wellbeing subfield.

With respect to what the authors investigated, Galster [61], Kearns and Parkinson [18], among others, have extensively analysed how the immediate neighbourhood socio-economic, cultural and political factors influence life changes. Sallies and others and Cervero [62] analysed neighbourhood environment and physical activity correlates in 11 countries; Wilson and Taub [63] discussed race, ethnicity and class tensions in Chicago neighbourhoods. [5,64], on the other hand, employed various techniques to study neighbourhood health in different contexts. A closer look at Figure 2 shows that it is consistent with Table 3, as almost all the lead names in each cluster are among the most productive authors. However, it is important to note that the node size can be influenced by the relative size of a subfield. This is important because journals, for instance, in urban environments and psychology-related disciplines tend to have higher citation indexes than those, for instance, in urban anthropology because there are more scholars in the former fields.

3.5. Regional Distribution, Institutional Contribution and International Collaboration

Global production of neighbourhood publications is shared among authors from 113 countries. Table 4 shows the top 60, where the contribution of the United States stands out, accounting for almost half of the total. Other notable countries include the United Kingdom (9%), Canada (7%), the Netherlands (4%) and Australia (3%). Of the 10 most productive countries, although five are in Europe, they together produce only 17% of the papers, compared to 56% from North America (the United States and Canada). The UK is the most productive country in Europe with 1079 publications, representing 9% of global output. Australia is the most productive in Oceania, with 385 papers and number five in the global rank. Asia is mainly represented by China with 374 publications, making it the sixth most productive country. Based on the current collection, it seems that the subfield of neighbourhood is under-studied in developing countries, particularly in Africa.

Table 4. Regional distribution of papers (1990–2020).

Rank	Country	Records	%	Citations	Rank	Country	Record	%	Citations
1	United States	5823	49.56	197,210	31	Malaysia	37	0.31	696
2	United Kingdom	1079	9.18	47,907	32	Colombia	36	0.31	822
3	Canada	781	6.65	31,334	33	Poland	30	0.26	572
4	Netherlands	476	4.05	14,948	34	Nigeria	30	0.26	651
5	Australia	385	3.28	15,062	35	Austria	29	0.25	535
6	China	374	3.18	6953	36	Greece	29	0.25	286
7	Sweden	149	1.27	5758	37	Czech Republic	28	0.24	413
8	Germany	182	1.55	3836	38	Kenya	27	0.23	829
9	France	134	1.14	3175	39	Ghana	27	0.23	586
10	Israel	137	1.17	4035	40	Argentina	26	0.22	468

11	New Zealand	114	0.97	2226	41	Estonia	23	0.20	390
12	South Korea	110	0.94	3639	42	Egypt	20	0.17	294
13	Belgium	111	0.94	1486	43	Bangladesh	18	0.15	270
14	Italy	109	0.93	2574	44	Hungary	17	0.14	278
15	South Africa	109	0.93	1900	45	Saudi Arabia	16	0.14	542
16	Denmark	93	0.79	2026	46	Pakistan	16	0.14	259
17	Japan	84	0.71	1932	47	Indonesia	15	0.13	142
18	Turkey	82	0.70	1229	48	United Arab Emirates	14	0.12	123
19	Brazil	81	0.69	836	49	Luxembourg	14	0.12	127
20	Singapore	77	0.66	1590	50	Tanzania	12	0.10	146
21	India	75	0.64	1536	51	Russian Federation	12	0.10	208
22	India	74	0.63	1430	52	Philippines	10	0.09	113
23	Finland	73	0.62	1066	53	Qatar	9	0.08	158
24	Chile	70	0.60	966	54	Thailand	9	0.08	56
25	Portugal	59	0.50	939	55	Uganda	9	0.08	82
26	Switzerland	56	0.48	942	56	Viet Nam	8	0.07	369
27	Iran	54	0.46	773	57	Ethiopia	7	0.06	233
28	Taiwan	47	0.40	382	58	Iceland	6	0.05	112
29	Ireland	47	0.40	719	59	Lebanon	6	0.05	83
30	Mexico	46	0.39	1020	60	Romania	6	0.05	59

Note: Total number (N) of countries is 113. The table only shows the top 60 productive countries. See supplementary file for the complete list. Source: Scopus database.

Related results concern the most productive institutions, presented in Table 5, which is wholly consistent with the regional distribution, as the dominance of North America, particularly the United States, again stands out. Of the top 30 most productive institutions, 25 are located in the United States, with the universities of Michigan (324 records), Harvard (265), Arizona State (239) and Washington (215), occupying numbers 1, 2, 4 and 5, respectively. The number three position is occupied by the University of Toronto, Canada, with 249 publication records. There is no representation from Oceania in the top 30 universities. Europe has four universities—Amsterdam (9th globally, with 180 records and number one in the Netherlands), Glasgow (11th, 171 records and number one in the UK), Utrecht (16th, 147 records) and UCL (17th, 143 records). Overall, these results further cement the position of the United States as a global leader in neighbourhood research and knowledge production. The influence of the USA can be partly attributed to its population size, however, this does not in any way underestimate the focus and the competencies of its scholars in this field.

Table 5. Top publishing institutions.

Rank	Institution	Records	% Share	Country
1	University of Michigan	324	2.76	United States
2	Harvard University	265	2.26	United States
3	University of Toronto	249	2.12	Canada
4	Arizona State University	239	2.03	United States

5	University of Washington	215	1.83	United States
6	The University of North Carolina at Chapel Hill	199	1.69	United States
7	The University of British Columbia	187	1.59	United States
8	University of California, Los Angeles	182	1.55	United States
9	Universiteit van Amsterdam	180	1.53	Netherlands
10	Johns Hopkins University	176	1.50	United States
11	University of Glasgow	171	1.46	United Kingdom
12	Rutgers University	167	1.42	United States
13	University of California, Berkeley	154	1.31	United States
14	Michigan State University	150	1.28	United States
15	Northeastern University	150	1.28	United States
16	Utrecht University	147	1.25	Netherlands
17	University College London	143	1.22	United Kingdom
18	University of California, Irvine	142	1.21	United States
19	University of Pennsylvania	142	1.21	United States
20	New York University	142	1.21	United States
21	University of Illinois at Chicago	140	1.19	United States
22	University of Minnesota	138	1.17	United States
23	The Ohio State University	137	1.17	United States
24	University of Southern California	137	1.17	United States
25	Pennsylvania State University	132	1.12	United States
26	Columbia University in the City of New York	131	1.11	United States
27	Wayne State University	129	1.10	United States
28	The University of Chicago	128	1.09	United States
29	University of Georgia	121	1.03	United States
30	The University of Utah	109	0.93	United States

Note: The total number (N) of institutions is 150. The table shows the top 30. Source: Scopus database.

In terms of international cooperation, measured by the number of collaboratively-authored publications among countries, Figure 4 presents the core collaborative networks. Major cooperation can be discerned between the United States and the United Kingdom, the Netherlands, South Korea, and China. There is also reasonable cooperation between the United Kingdom and Sweden, France, Germany and Australia. The various colours represent eight identifiable collaboration clusters. It should be noted that the clusters themselves do not indicate the intensity of cooperation, which is shown by the thickness of the edge between countries. Notwithstanding, many countries are collaborating at varying levels, for instance, Sweden with Italy and Germany; Brazil with Spain; Australia and Hong Kong China and Germany. The size of the node is an indication of influence in international cooperation. In this respect, the United States and the United Kingdom, Australia and the Netherlands are the key players, in line with their positions in the previous results.

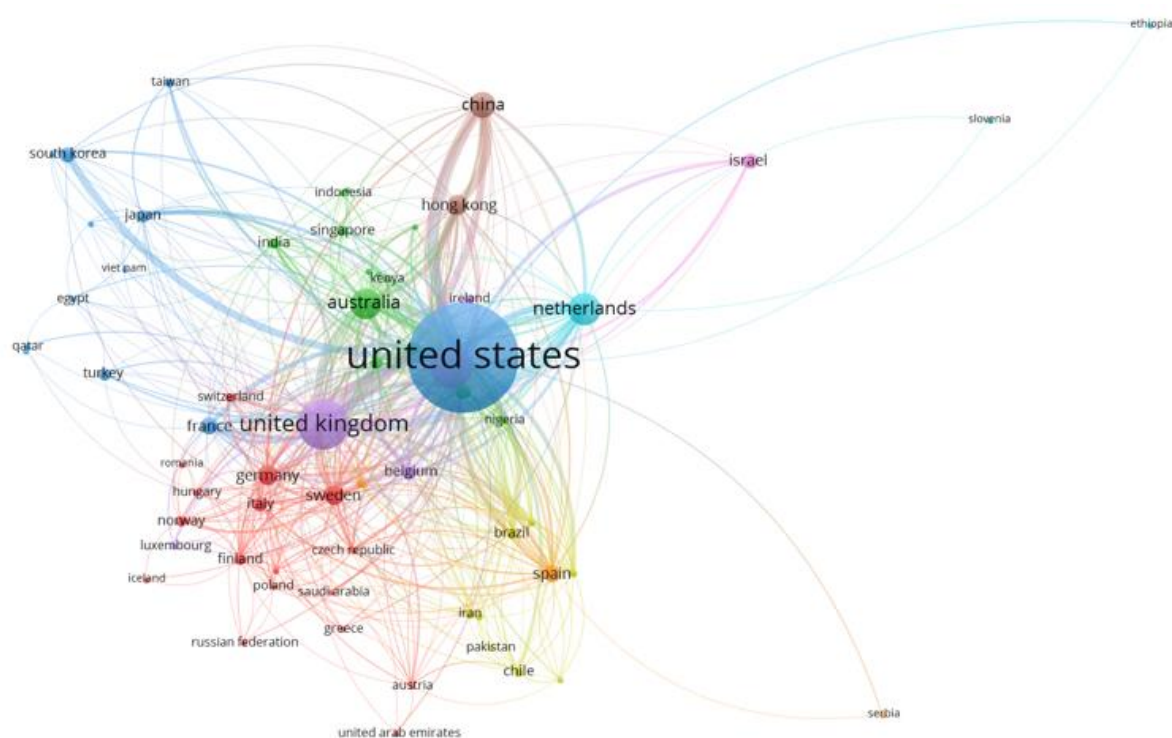


Figure 4. Global collaboration on neighbourhood scholarship. Source: Generated from the Scopus collection.

3.6. Keywords and Conceptual Analysis

The analysis of the cooccurrence of titles, keywords and abstract terms of neighbourhood research provides critical insight into the core topics, concepts and research trajectory of this field of study (Figure 5). The bigger the node size, the higher the occurrence of a term in the documents while the edge between terms gives an indication of closeness, so that a shorter edge suggests a stronger relationship [38]. The various colours—red, green, blue, yellow, grey, gold, violet, brown and sky blue, highlight eight clusters. For instance, in the red cluster (largest), noticeable keywords such as gentrification, neighbourhood/s, built environment and segregation, suggest a focus on urban geography and sociological issues. Cluster blue keywords, such as governance, neoliberalism and participation, suggest urban governance. The keywords in the gold cluster (e.g., redevelopment and social housing) represent a neighbourhood housing focus. Frequently occurring words, such as fear of crime, neighbourhood effects, racism and exclusion, found in grey, violet and brown clusters, suggests a focus on neighbourhood social conditions and adverse neighbourhood outcomes. The keywords in the green cluster (e.g., land use, community development and transportation), suggest a neighbourhood planning concern. Food, environment, exercise, quality of life and health inequalities, suggest a concern with the relationship between nutrition and wellbeing and the physical environment, i.e., neighbourhood health effects. Also worthy of mention are some core keywords in the red cluster (i.e., neighbourhood/s, collective efficacy, place, deprivation, residential mobility and walkability), which are perhaps more indicative of a more conceptual focus.

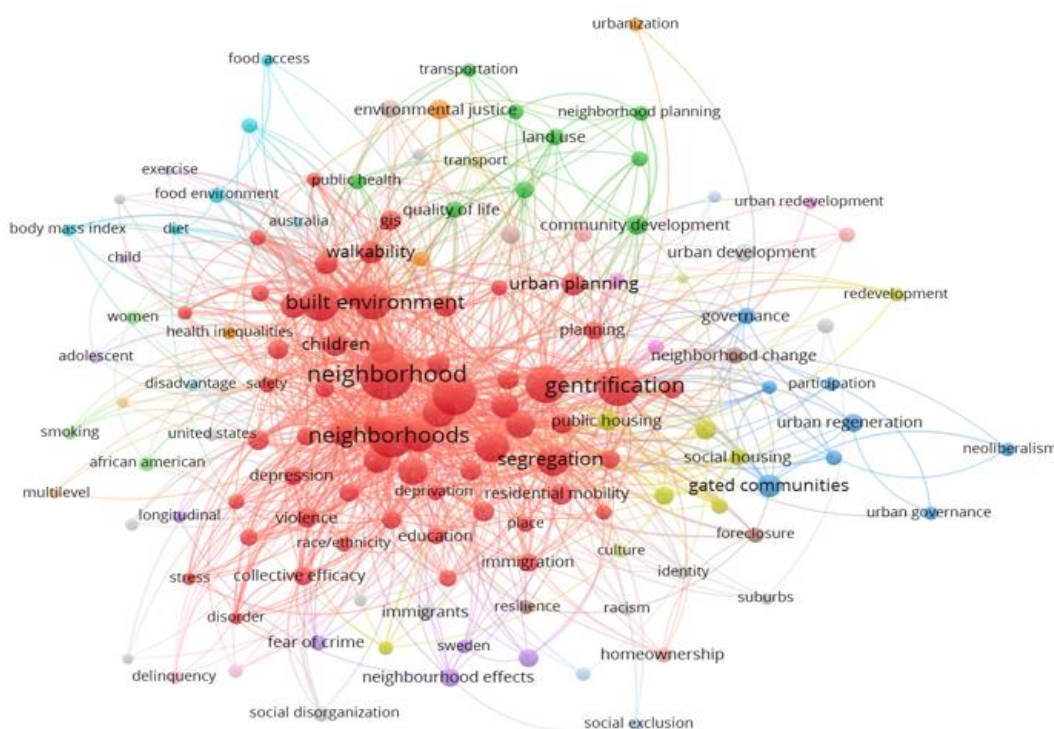


Figure 5. Keywords analysis of neighbourhood publications. Source: Generated from the Scopus collection.

The keyword map clearly illustrates that neighbourhood scholarship cuts across a diverse range of issues, particularly social and environmental topics. There are, however, some notable omissions. There are no economic-related keywords—none about work, livelihoods, economic sectors, businesses or social enterprise, economic division, or economic development, for example. Furthermore, there are no nodes related to some key aspects of poverty such as food security or fuel poverty. Overall, this may suggest that neighbourhood research has understudied some key neighbourhood-related problems.

3.7. Discussion: The State of Neighbourhood Research

From the publication trend analysis, we see a sharp increase in publication between 2018 and 2020, and a valid question to ask is whether this rise will continue in the coming years. We are unclear if this represents a real rise in interest, perhaps representing the second or third stages of Price's law, which holds that the trajectory of scientific publication has four main stages; emergence, exponential growth, consolidation and decline [65,66]. The rapid growth could also be explained by (1) a shift of interest into this field, (2) scholars having the same interests as before but publishing more in Scopus listed outlets, (3) more scholars working in this field, (4) changing nature of academia and the 'publish or perish' culture, (5) a combination of any of the above.

The global north orientation corroborates a recent finding [67], but also highlights a major knowledge gap in developing countries, which should be a concern to urban scholars and development policy actors. The present situation largely reflects a world of rich-country academics studying 'first world' built environment and social problems, and diseases of the relatively privileged [21,68,69], while the most difficult, dangerous and urgent neighbourhood problems are found in developing country cities [70,71]. The countless cross-scale challenges that cities in the third world face should provide enough impetus to re-orient the current trend of neighbourhood research. Differences between places represent some of the most egregious inequalities in global north societies. This and the fact that neighbourhoods are often the object of (often flawed) policy responses inevitably has generated a response from researchers, particularly those who are trained in spatial fields

such as geography, planning and urban sociology. The rise in interest in recent years, as well as the reasons discussed in the section about the numbers of papers, might also be to do with a rise in neighbourhood inequalities or their persistence in the face of the inadequate policy.

From the results, the domain of neighbourhood research can be categorised into four main groups, with neighbourhood effects and neighbourhood environmental characteristics being the most dominant focus areas. In terms of sources, the journals *Urban Studies*, *Health and Place*, *Social Science and Medicine*, *Journal of Urban Health* and *Cities* are the top journals in the subfield. More so, neighbourhood research has an urban face, as the above journal names suggest. From the analyses, while most studies have focused on social and environmental issues, economic issues in neighbourhoods were found to be understudied and scarce. For instance, livelihood strategies, which are critical for building local level resilience [72,73] is yet to receive the necessary attention. Also evidently lacking in the analyses are education-related papers. However, there is a possibility that the keywords may not be the best terms to identify place-based education research, as there is a different linguistic tradition, where words like 'school board areas' (in the spatial sense) or catchment areas might be used more frequently [74]. Linguistic tradition may also partly explain apparent regional disparities. Nonetheless, the analysis here is still suggestive of a major gap that future research may consider, especially in developing countries. Focusing on these areas would not only be relevant in enhancing urban resilience, but also provide evidence that could contribute to assessing the United Nations' Sustainable Development Goal 11 (Make cities and human settlements inclusive, safe, resilient and sustainable). The role of education and livelihood in building sustainable and resilient communities is widely acknowledged.

4. Conclusions

This study aimed to provide a macroscopic overview using bibliometric analysis of the main characteristics of neighbourhood research publications in order to better understand the academic landscape. It is acknowledged that the results presented here do not reflect the entire picture of the subfield. This is because Scopus does not cover all journals and books, and hence, some relevant publications (particularly those in languages other than English) are likely to have been missed in the current collection. However, this paper provides a useful contribution to understanding some of the temporal dynamics, authorship trends, subject areas, collaborations and spatial origins of neighbourhood research, as well as pointing out some glaring omissions which deserve greater scholarly attention.

The study has helped to understand the evolution of neighbourhood research over the past three decades. It has been shown that in terms of publication records, institutional contribution and international collaboration, the United States stands out. Countries in North America (the United States and Canada), Europe (e.g., United Kingdom and the Netherlands), Oceania (Australia) and Asia (mainly China), are the major loci of neighbourhood knowledge production. The most published and cited authors are also US-based. Evidently, neighbourhood research has been biased, given the geographic distribution of studies. Indeed, it could be argued that neighbourhood research is under United States hegemony.

Given that almost all the top scholars are from the developed world, it would be interesting for future bibliometric works to trace the geographical origin of the empirical content of neighbourhood studies, which is often not clear in abstract and citation databases. This will help to understand the linkage between the country of origin and the study country. Such an analysis would help to make a case for developing countries, such as serving as a laboratory for empirical analysis and theoretical application. Further analysis on how the concept of neighbourhood has been applied in different contexts (e.g., between the North and the South and between North America and Europe) would be important in shaping understanding of the global distribution and production of knowledge.

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Appendix A

Search string

(TITLE-ABS-KEY (“neighbourhood”) OR (“neighborhood”) OR (“urban neighbourhood”) OR (“urban neighborhood”) OR (“urban neighbourliness”) OR (“urban neighborliness”) OR (“urban locale”) OR (“urban locality”) OR (“urban small area”) OR (“urban community” AND NOT animal AND NOT community AND NOT interest AND NOT profession AND NOT ecological AND NOT religious AND NOT consumer AND NOT international AND NOT crofting AND NOT minority AND NOT online) OR (“city neighbourhood”) OR (“city neighborhood”) OR (“urban suburb”) OR (“urban village”) OR (“urban vicinity”) OR (“urban hood” AND NOT clothing AND NOT fashion) OR (“urban catchment area” AND NOT water AND NOT river AND NOT hydrology) OR (“neighbourhood effects”) OR (“area effect”) OR (“area effects”) OR (“neighbourhood change”) OR (“neighborhood change”) OR (“urban enclave”) OR (“urban ghetto”) OR (“urban slum”) OR (“gated community”) OR (“urban residential area”) OR (“neighbourhood gentrification”) OR (“neighborhood gentrification”) OR (“urban housing estate”) OR (“neighbourhood participation”) OR (“neighborhood participation”) OR (“neighbourhood crime”) OR (“neighborhood crime”) OR (“neighbourhood ethnicity”) OR (“neighborhood ethnicity”) OR (“neighbourhood segregation”) OR (“neighborhood segregation”) OR (“neighbourhood social network”) OR (“neighborhood social network”)) AND PUBYEAR > 1989 AND PUBYEAR < 2021 AND (LIMIT-TO (SUBJAREA, “SOCI”)) AND (LIMIT-TO (LANGUAGE, “English”)) AND (LIMIT-TO (DOCTYPE, “ar”))

References

1. The Young Foundation. How Can Neighbourhoods Be Understood and Defined? Available online: <https://youngfoundation.org/publications/how-can-neighbourhoods-be-understood-and-defined/> (accessed on 15 March 2020).
2. Olowoporoku, O.; Salami, A.; Akintifonbo, O. Assessment of Residents’ Neighbourhood Confidence in an African Traditional City: The Abeokuta Experience. *Econ. Environ. Stud.* **2017**, *17*, 757–775.
3. Getis, A. Analytically derived neighbourhoods in a rapidly growing West African city: The case of Accra, Ghana. *Habitat Int.* **2015**, *45*, 126–134.
4. Subramanian, S.V.; Jones, K.; Duncan, C. Multilevel Methods for Public Health Research. In *Neighborhoods and Health*; Kawachi, I., Berkman, L.F., Eds.; Oxford University Press: New York, NY, USA, 2003; pp. 65–111.
5. Kawachi, I.; Subramanian, S.V. Neighbourhood influences on health. *J. Epidemiol. Community Health* **2007**, *61*, 3–4.
6. Anderson, M.B. Neighbourhood. In *The International Encyclopedia of Geography*; Richardson, D., Castree, N., Goodchild, M.F., Kobayashi, A., Liu, W., Marston, R., Eds.; Wiley and Sons Ltd.: Hoboken, NJ, USA, 2017.
7. Brower, S. *Good Neighbourhoods: A Study of In-Town & Suburban Residential Environments*; Praeger: Westport, CT, USA, 1996.
8. Schnell, I.; Goldhaber, R. The Social Structure of Tel-Aviv-Jaffa neighbourhoods. *Environ. Behav.* **2001**, *33*, 765–795.
9. Forrest, R.; Kearns, A. Social cohesion, social capital and the neighbourhood. *Urban Stud.* **2001**, *38*, 2125–2143.

10. Galster, G. On the Nature of Neighbourhood. *Urban Stud.* **2001**, *38*, 2111–2124.
11. Martin, D.G. Enacting neighbourhood. *Urban Geogr.* **2003**, *24*, 361–385.
12. Bjarnesen, J. The ambivalence of neighbourhood in urban Burkina Faso. *Anthropol. S. Afr.* **2015**, *38*, 331–343.
13. Levanthal, T.; Brooks-Gunn, J. The neighbourhoods they live in: The effects of neighbourhood residence on child and adolescent outcomes. *Psychol. Bull.* **2000**, *126*, 309–337.
14. Pattie, C.; Johnston, R. People Who Talk Together Vote Together: An Exploration of Contextual Effects in Great Britain. *Ann. Assoc. Am. Geogr.* **2000**, *90*, 41–66.
15. Sampson, R.J.; Morenoff, J.D.; Gannon-Rowley, T. Assessing neighbourhood effects: Social processes and new directions in research. *Annu. Rev. Sociol.* **2002**, *28*, 443–478.
16. Loo, B.P.Y.; Lam, W.W.Y.; Mahendran, R.; Katagiri, K. How Is the Neighborhood Environment Related to the Health of Seniors Living in Hong Kong, Singapore, and Tokyo? Some Insights for Promoting Aging in Place. *Ann. Assoc. Am. Geogr.* **2017**, *107*, 812–828.
17. Petrovic, A.; Manley, D.; van Ham, M. Freedom from the tyranny of neighbourhood: Rethinking sociospatial context effects. *Prog. Hum. Geogr.* **2020**, *44*, 1103–1123.
18. Kearns, A.; Parkinson, M. The significance of neighbourhood. *Urban Stud.* **2001**, *38*, 2103–2110.
19. Cramm, J.M.; Moller, V.; Nieboer, A.P. Individual- and Neighbourhood-Level Indicators of Subjective Well-Being in a Small and Poor Eastern Cape Township: The Effect of Health, Social Capital, Marital Status, and Income. *Soc. Indic. Res.* **2011**, *105*, 581–593.
20. te Lintelo, D.J.H.; Gupte, J.; McGregor, J.A.; Lakshman, R.W.D.; Jahan, F. Wellbeing and urban governance: Who fails, survives or thrives in informal settlements in Bangladeshi cities? *Cities* **2018**, *72*, 391–402.
21. Kintrea, K.; St-Clair, R.; Houston, M. Shaped by place? Young people's aspirations in disadvantaged neighbourhoods. *J. Youth Stud.* **2015**, *18*, 666–684.
22. Atkinson, R.; Kintrea, K. Disentangling Area Effects: Evidence from Deprived and Non-deprived Neighbourhoods. *Urban Stud.* **2001**, *38*, 2277–2298.
23. Smit, W.; de Lannoy, A.; Dover, R.V.H.; Lambert, E.V.; Levitt, N.; Watson, V. Making unhealthy places: The built environment and non-communicable diseases in Khayelitsha, Cape Town. *Health Place* **2016**, *39*, 196–203.
24. Wang, Y.; Shaw, D. The complexity of high-density neighbourhood development in China: Intensification, deregulation and social sustainability challenges. *Sustain. Cities Soc.* **2018**, *43*, 578–586.
25. Baffoe, G.; Malonza, J.; Manirakiza, V.; Mugabe, L. Understanding the concept of neighbourhood in Kigali City, Rwanda. *Sustainability* **2020**, *12*, 1555.
26. Drilling, M.; Schnur, O. Neighbourhood research from a geographical perspective. *Die Erde J. Geogr. Soc. Berl.* **2019**, *150*, 48–60.
27. Wang, B.; Pan, S.-Y.; Ke, R.-Y.; Wang, K.; Wei, Y.-M. An overview of climate change vulnerability: A bibliometric analysis based on Web of Science database. *Nat. Hazards* **2014**, *74*, 1649–1666.
28. Vain, P. Trends in GM crop, food and feed safety literature. *Nat. Biotechnol.* **2007**, *25*, 624–626.
29. Merigó, J.M.; Cancino, C.A.; Coronado, F.; Urbano, D. Academic research in innovation: A country analysis. *Scientometrics* **2016**, *108*, 559–593.
30. Mao, G.; Huang, N.; Chen, L.; Wang, H. Research on biomass energy and environment from the past to the future: A bibliometric analysis. *Sci. Total Environ.* **2018**, *635*, 1081–1091.
31. Jia, X.; Tao, D.; Xinbiao, G. Comprehensive exploration of urban health by bibliometric analysis: 35 years and 11,299 articles. *Scientometrics* **2014**, *99*, 881–894.
32. Li, J.; Hale, A. Output distributions and topic maps of safety related journals. *Saf. Sci.* **2016**, *82*, 236–244.
33. van Leeuwen, T. The application of bibliometric analyses in the evaluation of social science research. Who benefits from it, and why it is still feasible? *Scientometrics* **2006**, *66*, 133–154.
34. Kajikawa, Y.; Junko, O.; Yoshiyuki, T.; Katsumori, M.; Hiroshima, K. Creating an academic landscape of sustainability science: An analysis of the citation network. *Sustain. Sci.* **2007**, *2*, 221–231.
35. de Jong, M.; Simon, J.; Daan, S.; Changjie, Z.; Margot, W. Sustainable-smart-resilient-low carbon-eco-knowledge cities; making sense of a multitude of concepts promoting sustainable urbanization. *J. Clean. Prod.* **2015**, *109*, 25–38.
36. Peris, A.E.; van Ham, M. The Evolution of the Systems of Cities Literature Since 1995: Schools of Thought and their Interaction. *Netw. Spat. Econ.* **2018**, *18*, 533–554.
37. Mariethoz, G.; Herman, F.; Dreiss, A. The imaginary carrot: No correlation between raising funds and research productivity in geosciences. *Scientometrics* **2021**, *126*, 2401–2407.
38. van Nunen, K.; Li, J.; Reniers, G.; Ponnet, K. Bibliometric analysis of safety culture research. *Saf. Sci.* **2018**, *108*, 248–258.
39. Aleixander-Benavent, R.; Aleixandre-Tudo, J.S.; Castello-Cogollos, L.; Aleixandre, J.L. Trends in global research in deforestation. A bibliometric analysis. *Land Use Policy* **2018**, *72*, 293–302.
40. Rodrigues, S.P.; van Eck, N.J.; Waltman, L.; Jansen, F.-W. Mapping patient safety: A large-scale literature review using bibliometric visualisation techniques. *BMJ Open* **2014**, *4*, e004468.
41. Mao, G.; Zou, H.; Chen, G.; Du, H.; Zuo, J. Past, current and future of biomass energy research: A bibliometric analysis. *Renew. Sustain. Energy Rev.* **2015**, *52*, 1823–1833.
42. Fetscherin, M.; Heinrich, D. Consumer Brand Relationships Research: A Bibliometric Citation Meta-Analysis. *J. Bus. Res.* **2015**, *68*, 380–390.

43. Li, W.; Zhao, Y. Bibliometric analysis of global environmental assessment research in a 20-year period. *Environ. Impact Assess. Rev.* **2015**, *50*, 158–166.
44. Wagner, C.S.; Roessner, D.J.; Bobb, K.; Klein, J.T.; Boyack, K.W.; Keyton, J.; Rafols, I.; Borner, K. Approaches to understanding and measuring interdisciplinary scientific research (IDR): A review of the literature. *J. Informetr.* **2011**, *5*, 14–26.
45. van Raan, A.F.J. The use of bibliometric analysis in research performance assessment and monitoring of interdisciplinary scientific developments. *Assess. Theory Pract.* **2003**, *1*, 20–29.
46. van Raan, A.F.J. Assessing the social sciences: The use of advanced bibliometric methods as a necessary complement of peer review. *Res. Eval.* **1996**, *7*, 2–6.
47. Marshakova, I.V. Bibliographic coupling system based on references. *Nauchno-Tekhnicheskaya Inf. Seriya* **1973**, *2*, 3–8.
48. Baffoe, G. Rural-urban studies: A macro analyses of the scholarship terrain. *Habitat Int.* **2020**, *98*, 102156.
49. van Leeuwen, T.N.; Visser, M.S.; Moed, H.F.; Nederhof, T.J.; Van Raan, A.F.J. The Holy Grail of science policy: Exploring and combining bibliometric tools in search of scientific excellence. *Scientometrics* **2003**, *57*, 257–280.
50. Verbeek, A.; Debackere, K.; Luwel, M.; Zimmermann, E. Measuring Progress and Evolution in Science and Technology—I: The Multiple Uses of Bibliometric Indicators. *Int. J. Manag. Rev.* **2020**, *4*, 179–211.
51. Elsevier. Scopus Content. Available online: <https://www.elsevier.com/solutions/scopus/content> (accessed on 20 March 2020).
52. Beshoff, N.; Akanmu, M.A. Scopus or Web of Science for a bibliometric profile of pharmacy research at a Nigerian university? *S. Afr. J. Libr. Inf. Sci.* **2017**, *83*, 12–22.
53. Akmal, A.; Podgorodnichenko, N.; Greatbanks, R.; Everett, A.M. Bibliometric analysis of production planning and control (1990–2016). *Prod. Plan. Control* **2018**, *29*, 1–19.
54. van Meeteren, M.; Poorthuis, A.; Derudder, B.; Witlox, F. Pacifying Babel’s tower: A scientometric analysis of polycentricity in urban research. *Urban Stud.* **2015**, *53*, 1278–1298.
55. van Eck, N.J.; Ludo, W. How to normalize co-occurrence data? An analysis of some well-known similarity measures. *J. Am. Soc. Inf. Sci. Technol.* **2009**, *60*, 1635–1651.
56. Sarkar, S.; Searcy, C. Zeitgeist or chameleon? A quantitative analysis of CSR definitions. *J. Clean. Prod.* **2016**, *135*, 1423–1435.
57. Qasim, M. Sustainability and wellbeing: A scientometric and bibliometric review of the literature. *J. Econ. Surv.* **2017**, *31*, 1035–1061.
58. Cui, X. How can cities support sustainability: A bibliometric analysis of urban metabolism. *Ecol. Indic.* **2018**, *93*, 704–717.
59. Everitt, B.; Landau, S.; Leese, M. *Cluster Analysis*, 5th ed.; Wiley: Hoboken, NJ, USA, 2011.
60. Price, D.J.S. *Little Science, Big Science*; Columbia University Press: New York, NY, USA, 1963.
61. Dabi, Y.; Darrigues, L.; Katsahian, S.; Azoulay, D.; De Antonio, M.; Lazzati, A. Publication trends in bariatric surgery: A bibliometric study. *Obes. Surg.* **2016**, *26*, 2691–2699.
62. Li, J.; Hale, A. Identification of, and knowledge communication among core safety science journals. *Saf. Sci.* **2015**, *74*, 70–78.
63. Galster, G.C. The Mechanism(s) of Neighbourhood Effects: Theory, Evidence, and Policy Implications. In *Neighbourhood Effects Research: New Perspectives*; van Ham, M., Manley, D., Bailey, N., Simpson, I., MacLennan, D., Eds.; Springer: Berlin/Heidelberg, Germany, 2012; pp. 23–56.
64. Cervero, R.; Duncan, M. Neighbourhood Composition and Residential Land Prices: Does Exclusion Raise or Lower Values? *Urban Stud.* **2004**, *41*, 299–315.
65. Wilson, W.J.; Taub, R.P. *There Goes the Neighborhood: Racial, Ethnic, and Class Tensions in Four Chicago Neighborhoods and Their Meaning for America*; Vintage: New York, NY, USA, 2007.
66. Diez Roux, A.V.; Mair, C. Neighborhoods and health. *Ann. N. Y. Acad. Sci.* **2010**, *1186*, 125–145.
67. Baffoe, G. Understanding the Neighborhood Concept and its Evolution. *Environ. Urban. ASIA* **2019**, *10*, 393–402.
68. Galster, G.; Anderson, R.; Musterd, S. Who Is Affected by Neighbourhood Income Mix? Gender, Age, Family, Employment and Income Differences. *Urban Stud.* **2010**, *47*, 2915–2944.
69. Kearns, A.; Whitley, E. Perceived neighbourhood ethnic diversity and social outcomes: Context-dependent effects within a post-industrial city undergoing regeneration. *J. Urban Aff.* **2018**, *40*, 186–208.
70. Davis, M. Planet of slums. *New Perspect. Q.* **2006**, *23*, 6–11.
71. Marx, B.; Stoker, T.; Suri, T. The Economics of Slums in the Developing World. *J. Econ. Perspect.* **2013**, *27*, 187–210.
72. Baffoe, G.; Matsuda, H. Understanding the determinants of rural credit accessibility: The case of Ehiaminchini, Fanteakwa District, Ghana. *J. Sustain. Dev.* **2015**, *8*, 183–195.
73. Baffoe, G.; Matsuda, H. Why do rural communities do what they do in the context of livelihood activities? Exploring the livelihood priority and viability nexus. *Community Dev.* **2017**, *48*, 715–734.
74. Nespor, J. Education and Place: A Review Essay. *Educ. Theory* **2008**, *58*, 475–489.