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**Research Article** 

# Study Bibliometric to Electronic Government, an International Journal: Twenty Years Review

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ARTICLE INFO	ABSTRACT
Received: 22 Dec 2024	Electronic Government, an International Journal (EG), established in 2004, is a peer-reviewed journal that
Revised: 20 Feb 2025	disseminates articles showcasing contemporary practices and research in the realm of electronic government. The bibliometric data set for EG articles and reviews published between 2004 and 2023 is
Accepted: 26 Feb 2025	examined in this study, using a variety of metrics including the yearly citation structure, the most referenced articles in EG, and the leading authors, institutions, and nations that have made significant contributions. The utilization of the VOSviewer software aids in visualizing bibliometric data, revealing patterns in cocitation, bibliographic coupling, and co-occurrences of authors, institutions, countries, and keywords featured in EG. The findings not only shed light on the journal's historical performance but also offer insights into potential future focal points based on bibliographic trends and the evolving online landscape. Notably, EG is found to perform favorably when contrasted with other prominent journals in this area.  Keywords: Bibliometric analysis; Electronic Government, International Journal; Scopus; VOSviewer.

#### INTRODUCTION

Electronic Government, an International Journal (EG), is a fully refereed journal that publishes articles that present current practice and research in the sphere of electronic government. Since its establishment in 2004, EG has been committed to addressing issues related to the design, development, management, implementation, technology, and applications in e-government. The journal's mission is to assist professionals, academic educators, and policymakers in contributing, disseminating knowledge, and exchanging insights on cutting-edge e-government concepts. With an emphasis on the international dimension, EG seeks to transcend cultural and national barriers, addressing the evolving technological landscape and global economic shifts. It serves as an exceptional platform where e-government research can flourish, fostering collaboration and knowledge-sharing among institutions, governments, researchers, students, and industry stakeholders. At present, EG is indexed in Scopus (Elsevier). EG first came into existence in 2004 and has released four issues annually until 2022, and six releases annually beginning in 2023, along with a 2.7 citation scorein 2022 (Electronic Government, an International Journal EG, 2023). The average time it takes the journal to make a first decision is fourteen days, which is rather fast when compared to other journals.

Historically, journals have commemorated specific milestones and anniversaries by organizing special activities, celebrating with events like special issue, editorial and review. Notably, bibliometric studies have gained popularity on such occasions, offering insights into the historical and current landscape of academic journals. Bibliometrics is a quantitative approach that is widely used in the "library and information sciences" (Broadus, 1987), has been extensively used in past research, often focusing on a particular journal. For example, Martínez-López et al. (2018) assessed the productivity of the "European Journal of Marketing" over 50 years, while a review of "Tourism Recreation Research" spanning 43 years was conducted by Vishwakarma and Mukherjee (2019). In 2020, Kabongo (2020) summarized the first two decades of the "Journal of African Business," Additionally, between 1990 and 2016, Akmal et al. (2018) investigated the field of production planning and control. A bibliometric technique has been used to assess journals in several research, including Trianni et al. (2018) for 10 years of "Energy Efficiency," Cancino et al. (2017) report that throughout the past four decades of "Computers & Industrial Engineering," For the past three decades, the "Journal of Business & Industrial Marketing," Valenzuela et al. (2017) have published a study and Cobo

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et al. (2015) for "Knowledge-based Systems" that have been around for over 25 years. This pattern has been observed in more recent research, with Donthu et al. (2021) concentrating on the International Journal of Information Management from 1980 to 2019. A study conducted by Kumar et al. (2022) that looked at the Journal of Behavioral and Experimental Finance over a period of eight years, research by Dana et al. (2021) on the years 1996–2019 published in the Journal of Small Business Management, an analysis of technological forecasting and social change spanning 49 years is presented by Singh et al. (2020), and investigating 28 years of Environmental and Business Strategy (Farrukh et al., 2020).

Twenty years of EG have passed in 2023. The purpose of this bibliometric study is to examine the evolution of EG during the course of its 20-year. Additionally, there is not a single bibliometric study that has been discovered in this prestigious publication to evaluate its level of output. Therefore, it is essential to carry out such a study. As a result, the study divulges the publications and yearly citation structure, the papers that are most referenced, and the nations that are the most productive, authors, and universities/institutions that Had a significant impact through their published works between 2004 and 2023 (Knight et al., 2000). The data is also presented graphically in the work using VOSviewer (Van Eck, and Waltman, 2010). Our consideration of the indicators has been limited to graphical representation such as bibliographic coupling, co-occurrence, and co-citation of the terms included in the publications published from 2004 to 2023. In terms of evaluating the results of EG, it gives more insightful information. Additionally, the study contains the international partnership framework mentioned in the EG papers.

Scopus records 468 publications (articles and reviews) authored by EG as of 2023. Over the past decade (2012–2023), EG has published nearly 250 works, reflecting an almost 9% growth compared to the initial ten years (2004–2011). Consequently, a thorough investigation is warranted to assess EG's productivity. Employing bibliometric analysis, we scrutinized the articles and reviews published in EG over the last 20 years (2004–2023). Furthermore, the research takes into consideration the annual publishing patterns, the annual citation structure, in addition to the 30 most-cited papers inside EG, and the 20 most-cited papers overall. In addition, the study explores the top 15 most productive authors, nations, and institutions in EG publications, as well as the top 20 most influential and contributing organizations. In addition, it analyzes output according to authors, organizations, and nations, etc. To conduct this research, The software program VOSviewer, created by Van Eck and Waltman (2010), was used for bibliographic mapping, which included coupling nations' bibliographies, co-citing sources referenced in EG, and other tasks.

The current investigation holds several implications, including an exploration of (1) the citation and publication structure of EG on a yearly basis, (2) determining which EG papers have had the most impact and are most often referenced, (3) a review of EG's effectiveness in comparison to other prominent e-government journals, (4) an examination of the journals that cite EG articles most frequently, (5) the year-wise evolution of the citing patterns of journals and countries, (6) an analysis of contributing authors, institutions, and countries, and (7) the year-wise evolution of authors' keywords, shedding light on current research trends and areas that have received less attention in past years within EG. Consequently, this study adds to the existing body of knowledge by uncovering various patterns observed in EG publications.

### 2 METHOD

The Scopus database was applied in order to get the bibliometric data for the current study, which took into consideration the publications that were published in EG between the years 2004 and 2023. It is comprised of 34,346 journals that have been reviewed by other scholarly publications and come from a wide range of fields, such as the sciences, business management and accounting, health science, social science, and other sectors. Therefore, you may be sure that it has top-notch data standards. Our search term for extracting data from the Scopus database is "Electronic Government, an International Journal". 468 search results (2004–2023) are obtained from the query result; this number is further decreased to 483 because the study just considered articles and reviews in the bibliometric analysis. This study provides a summary of EG's current productivity according to a number of metrics, some of which are subject to vary over time due to factors like the inclusion or exclusion of recent publications and changes in the structure of citations.

According to Bar-Ilan (2008), the bibliometric approach is the most popular for obtaining an overview of a journal and current research trends. Martínez-López, Merigó, Valenzuela-Nicolás, and Fernández (2018) have assessed the many facets of the European Journal of Marketing using bibliometric methods. Svensson (2010) lists the following as measures of production and influence: the EG annual citation summary, the most cited articles, prolific authors nations, and institutions that contribute to the journal.

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In order to generate a visual representation of the bibliometric data, the research study utilized VOSviewer. This was done in order to gain further insights (Van Eck, and Waltman, 2010). Bibliographic coupling, citation, co-citation, and co-occurrences of authors' keywords are some of the VOSviewer signs that have been utilized in several past studies, etc., to visually examine the bibliographical information. A number of additional indicators are also included in this study, for example, bibliometric data analysis including publications referenced in EG papers, a period-wise examination of contributing nations and organizations, etc.

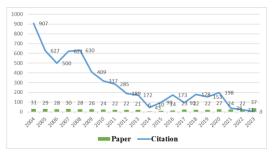
### 3 RESULTS

Since 2004 to 2023, EG has released a total of 483 documents. Following the consideration of articles and reviews, these numbers were decreased to 468 documents. Following the consideration of articles and reviews, these numbers were decreased to 468 documents. As of the year 2023, EG has been cited 5,656 times, and its h-index is 39. Till 2023, the average number of citations for EG papers was 12.09.

## 3.1 Publication and citation structure of EG

Between 2004 and 2013, EG published more papers than in the preceding ten years (2014–2023). Between 2004 and 2013, EG published more papers than in the preceding ten years (2014–2023). Figure 1 displays the publication history in EG along with the citations for each year. Every year, on average, EG publishes 23 papers. Impressively, EG has published 37 articles in 2023, surpassing all previous years. This might be due to the fact that the EG has gone from four issues each year to six, perhaps as a result of the high volume of high-quality manuscripts submitted to the journal (Electronic Government, an International Journal EG, 2023), It indicates that the authors' would rather have their work published on a topic connected to e-government.

Figure 1 Yearly count of published papers and an overview of citations in EG



The citation structure of EG is shown in Table 1 by year. It contains the various citation levels (for example, greater than equals 100, 50, 25, etc.). Citations to EG were higher in the first decade (2004–2013) than in the second decade (2014–2023). As evidence of the high quality of the documents that were published in the EG, about 79.83 percent of the documents were cited at least once. In addition to this, it demonstrates that the researchers looked at a significant number of EG archives. 2004 was the year that EG received the maximum number of citations in its whole existence, with a total of 907 citations.

**Table 1** Yearly citation pattern of publications in EG (2004–2023)

Year	TP	NCP	TC	C/P	C/CP	h	g	m	≥100	≥50	≥25	≥10	$\geq 1$	=0
2023	37	2	3	0.08	1.50	1	1	1.00	0	0	0	0	2	35
2022	22	13	21	0.95	1.62	3	3	1.50	O	O	O	O	13	9
2021	24	12	38	1.58	3.17	4	4	1.33	0	0	0	O	12	12
2020	27	23	198	7.33	8.61	6	13	1.50	O	2	O	3	18	4
2019	22	18	153	6.95	8.50	8	11	1.60	O	O	1	5	12	4
2018	22	20	178	8.09	8.90	8	12	1.33	O	O	1	6	13	2
2017	23	20	93	4.04	4.65	5	8	0.71	0	0	1	0	19	3
2016	14	13	173	12.36	13.31	8	11	1.00	0	1	0	5	7	1
2015	10	10	99	9.90	9.90	5	9	0.56	O	1	0	1	8	O
2014	6	6	43	7.17	7.17	3	6	0.30	0	0	0	2	4	0
2013	21	18	172	8.19	9.56	8	12	0.73	0	0	1	6	11	3
2012	22	19	189	8.59	9.95	8	13	0.67	0	1	0	6	12	3
2011	22	21	285	12.95	13.57	10	16	0.77	0	0	2	9	10	1
2010	24	23	317	13.21	13.78	12	17	0.86	0	0	5	8	10	1
2009	26	25	409	15.73	16.36	11	19	0.73	0	1	3	11	10	1
2008	28	27	630	22.50	23.33	16	24	1.00	0	5	4	9	9	1
2007	30	30	621	20.70	20.70	15	24	0.88	O	5	2	13	10	O
2006	28	28	500	17.86	17.86	14	21	0.78	O	O	8	11	9	O
2005	29	29	627	21.62	21.62	15	24	0.79	O	3	6	11	9	O
2004	31	31	907	29.26	29.26	18	30	0.90	1	5	7	12	6	0

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 $\mathbf{TP}$  = total publications;  $\mathbf{NCP}$  = number of cited papers;  $\mathbf{TC}$  = total citations;  $\mathbf{C/P}$  = citation per paper;  $\mathbf{C/CP}$  = citation per cited papers  $\mathbf{h}$  = h-index;  $\mathbf{g}$  = g-index;  $\mathbf{m}$  = m-index

Following that, we conducted an analysis of the top thirty documents published in EG that were cited the most frequently, as determined by Scopus (Table 2). A comparison analysis is carried out with the help of the citation per year in this study. Banerjee and Chau's 2004 article, which has the most citations, suggests an evaluation methodology for assessing developing nations' e-government convergence capabilities and uses it to assess the likelihood of convergence in a small number of chosen developing nations. entitled "An evaluative framework for analysing e-government convergence capability in developing countries". It has obtained 109 citations till now. One article has received at least 100 citations. However, a paper authored by Eyob, E. in 2004 scrutinized a range of challenges faced by county and municipality governments in enhancing the efficiency and accuracy of their business processes, ultimately aiming to satisfy their clients, and it garnered a citations-per-year ratio of (5.21). Electronic governance, electronic voting, electronic payments, public procurement, electronic taxes, social exclusion, efficiency, effectiveness, transparency, security, trust, and rural applications were the primary foci of the most referenced research publications in (EG).

**Table 2** Documents with the highest number of citations in EG (2004–2023) as per Scopus.

			•		1 1	<u>.</u>
					Scopus	
R	Authors	Title	Year	Age	Cited by	C/Y
1	Banerjee, P., Chau, P.Y.K.	An evaluative framework for analysing e-government convergence capability in developing countries	2004	19	106	5.58
2	Eyob, E.	E-government: breaking the frontiers of inefficiencies in the public sector	2004	19	99	5.21
3	Shareef, M.A., Kumar, U., Kumar, V., Dwivedi, Y.K.	Identifying critical factors for adoption of e-government	2009	14	83	5.93
4	Al-Sebie, M., Irani, Z.	Technical and organisational challenges facing transactional e- government systems: an empirical study	2005	18	76	4.22
5	Gupta, K.P., Singh, S., Bhaskar, P.	Citizen adoption of e-government: A literature review and conceptual framework	2016	7	67	9.57
6	Henriksson, A., Yi, Y., Frost, B., Middleton, M.	Evaluation instrument for e- government websites	2007	16	65	4.06
7	Dwivedi, Y.K., Williams, M.D.	Demographic influence on UK citizens' e-government adoption	2008	15	63	4.20
8	Liebowitz, J.	Will knowledge management work in the government?	2004	19	63	3.32
9	Dwivedi, Y.K., Weerakkody, V.	Examining the factors affecting the adoption of broadband in the Kingdom of Saudi Arabia	2007	16	62	3.88
10	Metaxiotis, K., Psarras, J.	E-government: new concept, big challenge, success stories	2004	19	61	3.21
11	Chircu, A.M., Lee, D.HD.	E-government: key success factors for value discovery and realisation	2005	18	60	3.33
12	Kalvet, T.	Innovation: A factor explaining e- government success in Estonia	2012	11	58	5.27
13	Chircu, A.M.	E-government evaluation: Towards a multidimensional framework	2008	15	58	3.87
14	Srivastava, S.C., Theo, T.S.H.	What facilitates e-government development? A cross-country analysis	2007	16	58	3.63

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15	Ghapanchi, A., Albadvi, A., Zarei, B.	A framework for e-government planning and implementation	2008	15	56	3.73
16	Klischewski, R., Scholl, H.J.	Information quality as capstone in negotiating e-government integration, interoperation and information sharing	2008	15	55	3.67
17	Dwivedi, Y.K., Khan, N., Papazafeiropoulou, A.	Consumer adoption and usage of broadband in Bangladesh	2007	16	55	3.44
18	Ifinedo, P., Davidrajuh, R.	Digital divide in Europe: assessing and comparing the e-readiness of a developed and an emerging economy	2005	18	55	3.06
19	Sharma, S.K., Gupta, J.N.D.	in the Nordic region Web services architecture for m- government: issues and challenges A framework for e-healthcare	2004	19	55	2.89
20	Nagaraj, P., Deepalakshmi, P.	management service using recommender system	2020	3	53	17.67
21	Sheng, H., Trimi, S.	M-government: Technologies, applications and challenges	2008	15	52	3.47
22	Almaiah, M.A., Nasereddin, Y.	Factors influencing the adoption of e- government services among Jordanian citizens	2020	3	51	17.00
23	Abu-Shanab, E., Haider, S.	Major factors influencing the adoption of m-government in Jordan	2015	8	50	6.25
24	Weerakkody, V., Dwivedi, Y.K., Brooks, L., Williams, M.D., Mwange, A.	E-government implementation in Zambia: Contributing factors	2007	16	50	3.13
25	Sharma, S.K.	Assessing e-government implementations	2004	19	50	2.63
26	Van Veenstra, A.F., Klievink, B., Janssen, M.	Barriers and impediments to transformational government: Insights from literature and practice	2011	12	49	4.08
27	Lee, S.M., Tan, X., Trimi, S.	M-government, from rhetoric to reality: Learning from leading countries	2006	17	48	2.82
28	Gotoh, R.	Critical factors increasing user satisfaction with e-government services	2009	14	46	3.29
29	Chiang, L.	Trust and security in the e-voting system	2009	14	46	3.29
30	Byun, DH., Finnie, G.	Evaluating usability, user satisfaction and intention to revisit for successful e-government websites	2011	12	44	3.67
ank.	C/ <b>Y</b> : citation per year					

 $\mathbf{R} = \text{rank}$ ;  $\mathbf{C}/\mathbf{Y}$ : citation per year.

Moreover, it is intriguing to examine the leading 20 articles with the highest citations in EG. Table 3 displays these top-cited documents throughout EG's entire trajectory, highlighting the more influential works within the journal. The most frequently cited document (25 citations) in the Journal of Government Information Quarterly was penned by Layne and Lee in 2001. Additionally, other highly cited documents originate from journals such as "The Journal of Strategic Information Systems," "MIS Quarterly," "Government Information Quarterly," "Information Systems

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Journal," and others. This suggests that articles published in EG frequently reference materials from the broader field of information technology, indicating their engagement with influential journals in the domain.

**Table 3** Most cited documents in EG (2004–2023)

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R	Y e a r	Authors	Title	C i t	T L S	Journal	Cite score 2022	SJ R 20 22	SN IP 20 22
1	2 0 0 1	Layne, K., Lee, J.	Developing fully functional E- government: A four stage model	2 5	6 2	Government Information Quarterly	17.3	2.3 21	3.3 09
2	2 0 0 5	Ebrahim, Z., Irani	E-government adoption: architecture and barriers	2 1	3	Business Process Management Journal	8	0.9 18	1.4 51
3	2 0 0 5	Carter, L., Bélanger, F.	The utilization of e-government services: citizen trust, innovation and acceptance factors	2	5 8	Information Systems Journal	16.3	2.7 48	3.1 89
4	1 9 8 9	Davis, F. D.	Perceived usefulness, perceived ease of use, and user acceptance of information technology	1 6	4 2	MIS Quarterly	18.7	3.7 93	4.6 12
5	2 0 0 8	Ghapanchi, A., Albadvi, A., Zarei, B.	A framework for e-government planning and implementation	1 5	1	Electronic Government, An International Journal	2.7	0.3 51	0.5 99
6	2 0 0 5	Gil-García, J. R., Pardo, T. A	E-government success factors: Mapping practical tools to theoretical foundations	1 5	2 7	Government Information Quarterly	17.3	2.3 21	3.3 09
7	2 0 0 3	Venkatesh, V., Morris, M. G., Davis, G. B., Davis, F. D.	User acceptance of information technology: Toward a unified view	1 4	4 3	MIS Quarterly	18.7	3.7 93	4.6 12
8	2 0 0 8	Bélanger, F., Carter, L	Trust and risk in e-government adoption	1 3	4	The journal of Strategic Information Systems	31	4.0 11	5.8 18
9	2 0 0 8	Carter, L., Weerakkody, V.	E-government adoption: A cultural comparison	1 2	4 8	Information Systems Frontiers	11.1	1.4 24	2.1 64
1 0	1 9 8 9	Davis, F. D., Bagozzi, R. P., Warshaw, P. R	User acceptance of computer technology: A comparison of two theoretical models.	1 2	4	Management Science	7.9	5.3 22	3.2 84
1 1	2 0 0 2	Moon, M. J.	The evolution of e-government among municipalities: rhetoric or reality?.	1 2	2 2	Public Administration Review	12.2	3.3 11	3.2 33
1 2	1 9	Fornell, C., Larcker, D. F.	Evaluating structural equation models with unobservable variables and measurement error.	1 1	1 9	Journal of Marketing Research	11.2	7.4 15	2.9 94

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	1								
1 3	2 0 0 4	West, D. M.	E-government and the transformation of service delivery and citizen attitudes.	1 1	3 6	Public Administration Review	12.2	3.3 11	3.2 33
1 4	1 9 9	Ajzen, I.	The theory of planned behavior. Organizational behavior and human decision processes	1 0	2 9	Organizational Behavior and Human Decision Processes	8	3.4 08	2.4 9
1 5	2 0 0 3	DeLone, W. H., McLean, E. R	The DeLone and McLean model of information systems success: a ten-year update	9	8	Journal of Management Information Systems	10.7	3.0 64	2.3 19
1 6	2 0 0 4	Palanisamy, R.	Issues and challenges in e- governance planning	9	1 0	Electronic Government, An International Journal	2.7	0.3 51	0.5 99
1 7	2 0 0 5	Siau, K., Long, Y.	Synthesizing e-government stage models—a meta-synthesis based on meta-ethnography approach.	9	1 2	Industrial Management & Data Systems	8.3	1.2 19	1.4 46
1 8	2 0 0 0	Venkatesh, V., Davis, F. D	A theoretical extension of the technology acceptance model: Four longitudinal field studies	9	2 9	Management Science	7.9	5.3 22	3.2 84
1 9	2 0 0 7	Yildiz, M.	E-government research: Reviewing the literature, limitations, and ways forward	9	3	Government Information Quarterly	17.3	2.3 21	3.3 09
2	2 0 0 8	Chircu, A. M.	E-government evaluation: towards a multidimensional framework	8	7	Electronic Government, An International Journal	2.7	0.3 51	0.5 99

To go further, the study looks at articles published in EG from 2004 to 2023 and identifies the top 20 authors, institutions, and nations that reference those works (Table 4). Notably, EG publications are most commonly cited by Dwivedi and Weerakkody. When it comes to institutions, the most top institutions that consult articles published in EG include Brunel University London, Swansea University, and Kalasalingam Academy of Research and Education. In addition, those from the US, India, and the UK are the most likely to read EG-published articles.

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**Table 4** Citing EG articles: Authors, University, Country (2004–2023)

R	Authors	TP	University	TP	Country	TP
1	Dwivedi, Y.K.	81	Brunel University London	121	United States	431
2	Weerakkody, V.	54	Swansea University	62	India	389
3	Gottschalk, P.	48	Kalasalingam Academy of Research and Education	49	United Kingdom	388
4	Nagaraj, P.	48	Brunel Business School	49	Australia	190
5	Muneeswaran, V.	39	Handelshøyskolen BI	48	China	182
6	Rana, N.P.	33	Qatar University	44	Malaysia	148
7	Williams, M.D.	31	School of Management	39	Greece	124
8	Irani, Z.	22	Tallinna Tehnikaülikool	38	Germany	115
9	Mensah, I.K.	21	National Technical	33	Indonesia	110
10	Phusavat, K.	21	University of Athens Universiti Utara Malaysia	32	Italy	108
11	Almaiah, M.A.	20	Delft University of Technology	30	Saudi Arabia	100
12	Janssen, M.	20	National University of Singapore	27	Norway	98
13	Smith, A.D.	18	Indian Institute of Technology Delhi	27	Taiwan	98
14	Gil-Garcia, J.R.	17	RMIT University	24	Jordan	97
15	Shareef, M.A.	17	Kasetsart University	24	Canada	89
16	Bannister, F.	16	King Faisal University	24	Spain	84
17	Joia, L.A.	16	University of Macedonia	23	Portugal	73
18	Anussomnitisam, P.	15	Universitas Indonesia	23	Brazil	65
19	Choudrie, J.	15	UNSW Sydney	22	South Africa	62
20	Dias, G.P.	15	Symbiosis International Deemed University	22	Netherlands	61

## $\mathbf{R} = \text{rank}$ ; $\mathbf{TP} = \text{total papers}$ .

To further evaluate the efficacy of the EG and its performance among the journals, the research also looked at the bibliometric results of the top ten e-government journals. Table 5 displays the results of the analysis from 2004 to 2023. Interestingly, among journals ranked by h-index, "Government Information Quarterly" has consistently ranked first. With an h-index of 39, EG has achieved the eighth position among all of the reputable journals in the field. Table 5 shows that majority of the journals are consulting top journals, which is important to notice. The results allow us to conclude that EG has an outstanding track record in its field and might one day rival other leading journals.

 Table 5
 Prominent Journals in the E-Government Field (2004–2023)

R	Journal	TP	NCP	TC	C/P	C/CP	h	g	m	≥100	≥50	≥25	≥1	=0
1	International Journal of Public Administration	1798	1576	19437	10.81	12.33	49	83	2.45	20	29	129	1398	22 2
2	Government Information Quarterly	1144	1096	67020	58.58	61.15	12 7	20 5	6.35	179	199	233	485	48
3	Social Science Computer Review	1003	905	26971	26.89	29.80	78	11 8	3.90	56	109	150	590	98
4	Electronic Journal of Information Systems in Developing Countries	724	636	10675	14.74	16.78	45	74	2.25	10	26	68	532	88
5	Transforming Government People Process and Policy	482	426	8902	18.47	20.90	47	68	2.76	6	40	66	314	56
6	Electronic Government, an International Journal	468	388	5656	12.09	14.58	39	50	1.95	1	24	41	322	80
7	Journal of Information Technology & Politics	452	402	9590	21.22	23.86	50	77	3.13	11	39	62	290	50
8	Information Polity	422	388	8394	19.89	21.63	41	75	2.05	19	13	51	305	34
9	International Journal of Electronic Government Research	383	344	4734	12.36	13.76	35	50	1.84	4	15	32	293	39
10	International Journal of Electronic Governance	246	192	1678	6.82	8.74	22	30	1.29	0	4	13	175	54

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Another intriguing aspect to explore is the journals that reference the publications in EG. The table below showcases the top 20 journals, with many esteemed journals from the e-government field making the list, including EG. Additionally, renowned journals like "Government Information Quarterly," "Transforming Government: People, Process and Policy," and "International Journal of Information Management" are among the top 20. This underscores the significance and pertinence of the research published in EG for these journals. EG focuses on disseminating mresearch on e-government and its application in business, establishing a common thematic link between EG and these journals.

 Table 6
 Journals citing the documents of EG (2004–2023)

R	Journal name	TP	Publisher	Cite score	SJR	SNIP
K	Journal name	11	ruonsner	2022	2022	2022
1	Electronic Government, an	307	Inderscience Publishers	2.7	0.351	0.599
-	International Journal	20.				0.555
2	Government Information Quarterly	118	Elsevier	17.3	2.321	3.309
3	Transforming Government People	69	Emerald Publishing	5	0.585	0.953
	Process and Policy					
4	International Journal of Electronic	65	IGI Global Publishing	2.2	0.272	0.667
	Government Research					
5	International Journal of Electronic	35	Inderscience Publishers	1.3	0.321	0.478
_	Governance					
7	Sustainability	31	Multidisciplinary	5.8	0.664	1.198
			Digital Publishing			
6	International Journal of Information	30	Institute (MDPI) Elsevier	41.9	4 906	5.266
0	Management	30	Elseviel	41.9	4.900	3.200
8	Information Systems Frontiers	22	Springer Nature	11.1	1.424	2.164
9	Information Polity	22	IOS Press	2.7	0.501	0.777
10	Electronic Journal of Information	19	Wiley-Blackwell	4.2	0.455	0.922
	Systems in Developing Countries		W Zey - Dinea well	4.2	0.455	0.522
11	International Journal of Business	19	Inderscience Publishers	1.9	0.349	0.574
	Information Systems					
12	International Journal of Public	18	Taylor & Francis	4.4	0.691	1.186
	Administration					
13	International Journal of	16	Inderscience Publishers	1.3	0.178	0.345
	Management and Enterprise					
	Development					
14	Information Technology and People	16 16	Emerald Publishing Inderscience Publishers	7.6	1.08	1.446
15	International Journal of Mobile	10	Inderscience Publishers	3.2	0.555	0.641
16	Communications International Journal of Innovation	16	Inderscience Publishers	(2017) 1.4	(2019) 0.226	0.394
10	and Learning	10	Inderscience Fuonsners	1.4	0.220	0.394
17	International Journal of Services and	15	Inderscience Publishers	1.5	0.111	0.053
17	Standards	10	inderscience i donsners	(2020)	0.111	0.055
18	Technological Forecasting and	13	Elsevier	17.2	2.644	3.008
	Social Change					2.000
19	International Journal of Electronic	13	Inderscience Publishers	0.9	0.15	0.359
	Finance					
20	Journal of Theoretical and Applied	12	Little Lion Scientific	1	0.165	0.298
	Information Technology					
	•		-			

## 3.2 Prominent Contributors in EG: Authors, Institutions, and Countries

This section delves into an examination of the most prolific and impactful authors, institutions, and countries that have contributed documents to EG since 2004. Additionally, we have assessed authors' productivity specifically concerning EG, highlighting those who have contributed the most articles to the journal. Table 7 provides a concise overview of the top 20 authors who have made significant contributions to EG. Notably, Dwivedi, Y.K leads the list with 12 published articles in EG and maintains a consistent presence in the journal. Remarkably, Dwivedi has garnered the highest number of citations, totaling 462 (refer to Table 7). Notably, of the five papers written by Weerakkody, V. for EG between 2007 and 2011, the one with the highest average amount of citations is the one that they published in 2011. underscoring the relevance of the work, as evidenced by its frequent citation by fellow researchers.

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**Table 7** Most productive authors in EG (2004–2023)

R	Authors	ΤP	NCP	TC	C/P	C/CP	h	g	m	≥100	≥50	≥25	≥1	=0
1	Dwivedi, Y.K.	12	12	462	38.50	38.50	10	12	0.56	0	5	3	4	0
2	Phusavat, K.	9	7	39	4.33	5.57	4	6	0.24	0	0	0	7	2
3	Choudrie, J.	8	8	133	16.63	16.63	6	8	0.32	0	0	3	5	0
4	Smith, A.D.	8	7	72	9.00	10.29	5	8	0.26	0	0	0	7	1
5	Anussomnitisam, P.	7	7	39	5.57	5.57	4	6	0.24	0	0	0	7	0
6	Lin, B.	6	5	41	6.83	8.20	3	6	0.15	0	0	0	5	1
9	Abu-Shanab, E.	6	6	137	22.83	22.83	5	6	0.38	0	1	1	4	0
7	Gottschalk, P.	5	4	60	12.00	15.00	4	5	0.21	0	0	0	4	1
8	Weerakkody, V.	5	5	201	40.20	40.20	5	5	0.29	0	2	2	1	0
11	Williams, M.D.	5	5	135	27.00	27.00	4	5	0.24	0	2	0	3	0
10	Hidayanto, A.N.	4	3	34	8.50	11.33	2	4	0.25	0	0	0	3	1
12	Kolsaker, A.	4	4	113	28.25	28.25	4	4	0.20	0	0	3	1	0
13	Moynihan, G.P.	4	4	13	3.25	3.25	2	3	0.11	0	0	0	4	0
14	Al-Sebie, M.	3	3	97	32.33	32.33	3	3	0.16	0	1	0	2	0
15	Al-Swidi, A.K.	3	3	36	12.00	12.00	3	3	0.27	0	0	0	3	0

Looking at the top institutions that are making contributions to EG is another appealing part. The top 20 universities with the most publications published in EG are shown in Table 8. Brunel University London was the topmost productive institution in EG, publishing 16 papers and receiving 501 citations. Further, Vellore Institute of Technology and Swansea University each have published thirteen and eleven papers; Nevertheless, Swansea University has garnered a higher number of citations per paper and a citation per document score (39.18), indicating the significance of the research published by the institution for other researchers. On the other hand, some institutions like Kasetsart University and the National Technical University of Athens consistently regard EG as a platform for their research, demonstrating the ongoing contributions of these institutions to the journal.

**Table 8** Leading 20 institutions with the highest productivity in EG (2004–2023)

R	Institutions	T	NC	TC	C/P	C/C	h	g	m	≥10	≥5	≥2	≥	=
		P	P			P				O	0	5	1	0
1	Brunel University London	16	15	50 1	31.3 1	33.4 0	1 3	1 6	0.6 8	0	4	5	6	1
2	Vellore Institute of Technology	13	12	48	3.69	4.00	4	6	0.5 7	0	0	0	1 2	1
3	Swansea University	11	11	43 1	39.1 8	39.1 8	1 0	1 1	0.5 6	0	5	2	4	О
4	Kasetsart University	9	7	39	4.33	5.57	4	6	0.2 4	0	0	0	7	2
5	National Technical University of Athens	8	7	15 9	19.8 8	22.7 1	6	8	0.3 0	0	1	1	5	1
6	Robert Morris University	8	7	72	9.00	10.2 9	5	8	0.2 6	0	0	0	7	1
7	Handelshøyskolen BI	6	5	90	15.0 0	18.0 0	5	6	0.2 6	0	Ο	1	4	1
8	Louisiana State University	6	5	41	6.83	8.20	3	6	0.1 5	О	0	0	5	1
9	Kuwait University	6	2	28	4.67	14.0 0	2	5	0.1 4	0	0	0	2	4
1 0	Universiti Teknologi MARA	5	4	16	3.20	4.00	2	4	0.1 5	0	0	0	4	1
11	National Chengchi University	5	5	50	10.0 0	10.0 0	4	5	0.2 0	0	0	0	5	0
1 2	Indian Institute of Technology Delhi	5	5	77	15.4 0	15.4 0	5	5	0.2 9	0	О	0	5	O
1 3	University of Hertfordshire	5	5	60	12.0 0	12.0 0	3	5	0.1 8	0	0	1	4	0

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1 4	Yarmouk University	5	5	12 9	25.8 0	25.8 0	4	5	0.3 1	O	1	1	3	O
1 5	Universiti Sains Malaysia	4	3	14	3.50	4.67	2	3	0.2 9	0	O	O	3	1
1 6	University of Macedonia	4	4	66	16.5 0	16.5 0	4	4	0.2 2	0	О	0	4	0
17	Guru Gobind Singh Indraprastha University	4	3	24	6.00	8.0 0	3	4	0.2 0	0	О	0	3	1
1 8	SRM Institute of Science and Technology	4	2	7	1.75	3.50	1	2	0.1 4	0	О	О	2	2
1 9	University of Surrey	4	4	11 3	28.2 5	28.2 5	4	4	0.2 0	0	О	3	1	0
2 0	Universidade de Aveiro	4	3	45	11.2 5	15.0 0	3	4	0.2 7	0	O	1	2	1

Following that, we have encapsulated a list of the most industrious countries that have made contributions to EG over its existence, as delineated in Table 9. The United States has taken the lead in the number of documents published in EG, trailed by India, the United Kingdom, and Malaysia. Despite Canada securing the 13th position, it boasts the highest citation per paper (23.55), underscoring the pertinence and acclaim of the research produced by Canadian scholars in the field.

**Table 9** Top 15 productive countries in EG (2003–2023)

R	Country	TP	NCP	TC	C/P	C/CP	h	g	m	≥100	≥50	≥25	≥1	=0
1	United States	104	96	1525	14.66	15.89	20	33	1	0	8	9	79	8
2	India	76	58	499	6.57	8.60	13	19	0.65	0	2	2	54	18
3	United Kingdom	46	45	1073	23.33	23.84	20	31	1	0	6	10	29	1
4	Malaysia	23	17	141	6.13	8.29	7	11	0.54	0	0	1	16	6
5	Greece	21	20	415	19.76	20.75	12	20	0.60	0	1	5	14	1
6	Indonesia	17	9	62	3.65	6.89	5	7	0.33	0	0	0	9	8
7	Taiwan	16	14	173	10.81	12.36	8	13	0.40	0	0	1	13	2
8	Norway	15	13	254	16.93	19.54	8	15	0.40	0	1	3	9	2
9	Australia	12	11	249	20.75	22.64	10	12	0.56	0	1	2	8	1
10	Germany	12	12	170	14.17	14.17	6	12	0.30	0	0	3	9	0
11	Jordan	12	12	205	17.08	17.08	6	12	0.43	0	2	1	9	0
12	Thailand	12	10	53	4.42	5.30	4	6	0.22	0	0	0	10	2
13	Canada	11	11	259	23.55	23.55	8	11	0.40	0	1	3	7	0
14	Spain	10	8	74	7.40	9.25	4	8	0.20	0	0	1	7	2
15	Italy	9	7	70	7.78	10.00	5	8	0.28	0	0	0	7	2

## 3.3 Patterns of collaboration among countries

In the subsequent analysis, this investigation delved into the collaborative relationships between countries contributing papers to EG. The preeminent 15 collaborating nations are detailed in Table 10. Notably, the USA and the United Kingdom emerged as the foremost partnership, gauged by the frequency of papers published in EG. Of particular interest is the USA's extensive collaborations with other countries such as South Korea, Australia, Norway, among others, surpassing any other country among the top 15 collaborators in EG. This propensity may be attributed to the substantial volume of papers published by the USA in EG.

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**Table 10** Top 15 countries collaborating in EG research

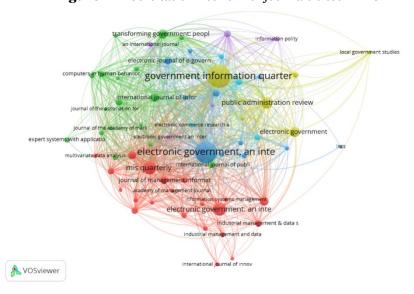
R		Collaborative Countries	Frequency
1	United States	United Kingdom	3
2	United States	South Korea	3
3	United Kingdom	Australia	3
4	United Kingdom	Norway	3
5	Indonesia	Taiwan	3
6	Indonesia	Thailand	3
7	Germany	Greece	3
8	United States	Greece	2
9	United States	Taiwan	2
10	United States	China	2
11	United States	India	2
12	United Kingdom	Malaysia	2
13	United Kingdom	Greece	2
14	India	Oman	2
15	Malaysia	Iraq	2
16	Norway	Finland	2
17	Australia	South Korea	2
18	Jordan	Saudi Arabia	2
19	Brazil	Portugal	2
20	Netherlands	Belgium	1

### $\mathbf{R} = \text{rank}$

## 3.4 Visualization and analysis of EG through VOSviewer

The preceding section examined EG's bibliometric data using performance indicators. However, this segment focuses on visualizing EG's bibliometric data. The VOSviewer software package was employed for this purpose, specifically analyzing the cocitation structure of journals cited in EG since its inception. Co-citation occurs when two different sources (journals) are cited by a third common journal (Small, 1973). The EG co-citation network from 2004–2023, as shown graphically in Figure 2, constructed with 25 citation thresholds.

Figure 2 Co-citation network of journals cited in EG



"Government Information Quarterly", "Electronic Government, an International Journal", "MIS Quarterly", and "Public Administration Review" are the periodicals most referenced in EG papers, as seen in Figure 3. These findings

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highlight that EG primarily cites papers from the field of e-government and information technology, aligning with the journal's aim and scope. The top 30 periodicals mentioned in EG papers are reported in Table 11, emphasizing EG's top-ranking position in citing its references. This underscores the quality and relevance of research published in EG. Additionally, Table 12 compares the journals referenced in EG during two time periods: the first, covering 2004–2013, and the second, covering 2014–2023. The increased citation trend in the latter interval may be attributed to researchers finding EG documents more compelling and suitable, indicative of the growing attention in the field of e-government.

Table 11 Citing Journals in EG

R	Source	Citations
1	Electronic Government, An International Journal	1274
2	Government Information Quarterly	882
3	MIS Quarterly	274
4	Public Administration Review	208
5	Transforming Government: People, Process and Policy	135
6	Communications of the ACM	131
7	International Journal of Information Management	119
8	Information Systems Research	96
9	Journal of Management Information Systems	90
10	Electronic Journal of E-Government	85
11	Information Systems Journal	82
12	Information & Management	78
13	International Journal of Electronic Government Research	75
14	Industrial Management & Data Systems	74
15	Management Science	74
16	Computers in Human Behavior	72
17	European Journal of Information Systems	71
18	Information and Management	70
19	Decision Support Systems	58
20	International Journal of Public Sector Management	57
21	Business Process Management Journal	54
22	Expert Systems with Applications	54
23	Journal of Computer Information Systems	51
24	International Journal of Public Administration	50
25	Telematics and Informatics	50
26	Journal of Public Administration Research and Theory	46
27	Harvard Business Review	45
28	Industrial Management and Data Systems	45
29	Journal of Marketing Research	45

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30 Information Polity 44

 $\mathbf{R} = \text{rank}$ 

**Table 12** Most prominent journals cited in EG [(2004–2013) vs. (2014–2023)]

		(200	04-		(20	14-
		201	3)		202	3)
R	Journal	Cit	CL	Journal	Ci	CL
			S		t	S
1	Electronic Government, an International	53	431	Government Information Quarterly	61	970
	Journal	3	7		1	3
2	Government Information Quarterly	26	396	Electronic Government, an	21	310
		8	7	International Journal	9	5
3	MIS Quarterly	14	22	MIS Quarterly	12	256
		5	89		8	1
4	Communications of the ACM	11	145	Transforming Government: People,	11	254
		О	4	Process and Policy	6	1
5	Public Administration Review	10	173	Public Administration Review	10	225
		4	8		3	О
6	Industrial Management & Data Systems	53	644	International Journal of Information Management	78	172 8
7	Journal of Management Information	48	114	Computers in Human Behavior	66	154
	Systems		1		_	7
8	Information Systems Research	46	83	Electronic Journal of E-Government	58	113
	T. C		4			1
9	Information and Management	44	784	Information Systems Research	50	109
			60	I.C		9
1	European Journal of Information Systems	42	68	Information & Management	45	123
0	Information Contama Incomal	40	3	Telemetics and Information	40	2
1	Information Systems Journal	42	80	Telematics and Informatics	43	112
1	International Journal of Electronic	40	5	Journal of Management Information	40	3 108
1	Government Research	42	823	Journal of Management Information Systems	42	
2 1	Decision Support Systems	41	584	Expert Systems with Applications	40	3
	Decision Support Systems	41	504	Expert Systems with Applications	40	235
3 1	Management Science	41	80	Information Systems Journal	39	910
4	Management belence	41	2	information systems bournar	39	910
1	Industrial Management and Data Systems	40	506	International Journal of Electronic	33	102
5	industrial Management and Data Systems	40	500	Government Research	55	7
1	Harvard Business Review	39	496	International Journal of Public Sector	32	88
6	Trai vara Business Review	39	<b>T</b> 50	Management	J <b>-</b>	0
1	International Journal of Information	38	653	Management Science	32	672
7	Management	O -	- 00		Ü	- /
1	Information & Management	32	532	Information Systems Frontiers	31	741
8	O	O	00	J	O	, <b>.</b>
1	Journal of Global Information Management	32	576	International Journal of Electronic	30	519
9		-		Governance		
2	Business Process Management Journal	31	60	International Journal of Public	29	746
O	_		3	Administration		
2	International Journal of Innovation and	31	279	European Journal of Information	28	790
1	Learning			Systems		
2	Journal of Computer Information Systems	30	46	Information Technology for	27	709
2			8	Development		
2	Journal of Marketing	29	42	Information and Management	26	655
3			8			

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Electronic Journal of E-Government	27	351	Journal of Enterprise Information	25	740
International Journal of Electronic	26	546	<b>Business Process Management</b>	23	428
Journal of Public Administration Research	26	381	Journal of Marketing Research	23	533
LNCS	26	162	Information Polity	22	526
International Journal of Management and	24	281	Industrial Management & Data	21	476
International Journal of Public Sector	24	524	The Journal of Strategic Information	21	495
American Review of Public Administration	22	669	Communications of the ACM	20	242
	International Journal of Electronic Commerce Journal of Public Administration Research and Theory LNCS International Journal of Management and Enterprise Development International Journal of Public Sector Management	International Journal of Electronic Commerce Journal of Public Administration Research and Theory LNCS 26 International Journal of Management and Enterprise Development International Journal of Public Sector Management  24 Management	International Journal of Electronic Commerce Journal of Public Administration Research and Theory LNCS 26 162  International Journal of Management and Enterprise Development International Journal of Public Sector Management	International Journal of Electronic Commerce Journal of Public Administration Research and Theory LNCS 26 162 Information Polity  International Journal of Management and Enterprise Development International Journal of Public Sector Management Management  26 546 Business Process Management Journal of Marketing Research  26 162 Information Polity  281 Industrial Management & Data Systems  International Journal of Public Sector Management Systems  Yellow Process Management Journal of Marketing Research  27 281 Industrial Management & Data Systems  Yellow Process Management Journal of Marketing Research  28  281 Industrial Management & Data Systems	International Journal of Electronic Commerce Journal of Public Administration Research and Theory LNCS 26 162 Information Polity 22 International Journal of Management and Enterprise Development International Journal of Public Sector Management Management  Business Process Management 23 381 Journal of Marketing Research 23 Information Polity 22 Information Polity 22 Industrial Management & Data Systems 23 Industrial Management & Data 21 Systems 24 524 The Journal of Strategic Information 21 Management

**R** = Rank; **Cit** = total citations; **TLS** = total link strength.

Furthermore, we investigated the correlations between co-citations made by the most prominent EG authors. Utilizing a threshold of 40 citations and identifying the top 50 influential connections, we constructed a co-citation structure. Figure 3 illustrates that prominent figure in the e-government field, such as Dwivedi, Y.K., Phusavat, K., and Choudrie, J., emerged as the most influential researchers based on their co-citation connections.

papazafeiropoulou, a. VU.C.C parasuraman, a ifinedo, p davidrajuh, r ghinea, g rogers, e.m smith, a.d. kumar, u liebowitz, i. dwivedi, v.k. metaxiotis, k psarras, i. gottschalk, p. teo, t.s.h ghapanchi, a. zarei, b srivastava, s.o schewski, r belanger, f scholl, h.j. morris, m.g. al-sebie, m weerakkody, v gil-garcia, j.r abu-shanab, e. mossberger, k dawes, s.s. elliman, t. iran rovo. s bhaskar, p 🔼 VOSviewer

Figure 3 Co-citations of the authors cited in EG

Afterwards, we surveyed the publications of EG institutions and countries from 2004 to 2023 and analyzed the bibliographic coupling between them. According to Kessler (1963), bibliographic coupling happens when a third publication is referenced in two separate papers from distinct institutions. A minimum of two papers were required for analysis and a criterion of ten citations was used for bibliographic coupling at the institution level. Similarly, we analyzed bibliographic coupling among countries. Productivity is shown by the size of the circle in Figure 4, it's clear that institutions from the same country have deeper ties and seem more connected. This may be attributed to co-authorship collaborations between organizations. U.S.A. being the most productive nation in EG, displays the largest

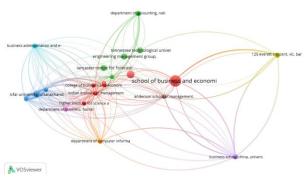
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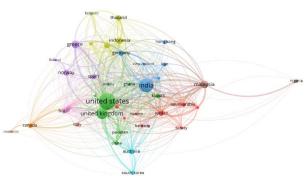
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network, as seen in Figure 5. These findings align with those presented in Table 10, underscoring the significance of the USA and India in EG. The proximity of these countries indicates collaborative work on shared topics and influence on articles' development across other nations, such as Australia and Norway. The most powerful nations in EG are spread out over continents such the Americas, Europe, and Asia.

**Figure 4** Bibliographic coupling of the institutions in EG (2004–2023)

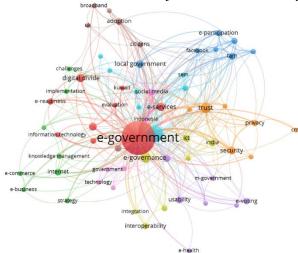


**Figure 5** Bibliographic connections among countries in EG (2004–2023)



Moreover, Figure 6 illustrates the co-occurrence of authors' keywords, presenting an analysis based on their frequency in EG's published documents. The size of each circle represents the significance of keywords within EG. Notably, 'E-government' emerges as the most influential keyword, forming a robust network spanning the years 2004 to 2023. Additional influential keywords include 'electronic government,' 'trust,' 'e-governance,' 'digital divide,' 'e-services,' and 'security.' The majority of keywords identified in EG publications are centered around topics related to e-government, with peripheral keywords reflecting emerging themes. These findings align with the information provided in Table 13. Furthermore, it is noteworthy that a considerable number of EG documents focus on topics such as adoption, social media, and the internet, as highlighted in Table 13. A significant observation is the substantial number of EG publications dedicated to the study of millennials. Additionally, it is important to highlight the absence of papers addressing 'online auctions,' 'e-tailing,' and 'supply chain management.' Moreover, a limited number of articles address topics such as E-voting, E-readiness, and Privacy in the context of e-government.

**Figure 6** Co-occurrences of authors' keywords in documents published in EG



**Table 13** Key terms with the greatest impact in EG (2004–2023)

R	Keywords	TP	NC	TC	C/P	C/C	h	g	m	≥10	≥5	≥2	≥1	=
			P			P				0	0	5		О
1	E-government	24 6	224	385 4	15.67	17.21	3	4 5	1.65	0	18	32	17 4	22

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2	Electronic Government	59	48	571	9.68	11.90	14	2	0.7	О	1	6	41	11
3	Trust	23	19	314	13.65	16.5	9	17	0.4	O	1	3	15	4
4	E-governance	21	18	162	7.71	3 9.00	8	1	5 0.4	0	0	1	17	3
5	Digital Divide	16	15	273	17.06	18.2	9	2 1	0.4	0	2	1	12	1
6	E-services	16	13	22	1.38	0 1.69	8	6	5 0.4	0	1	3	9	3
7	Security	14	13	220	15.71	16.9	8	4	0.4	0	1	2	10	1
8	Local Government	13	12	170	13.0 8	2 14.17	8	4 13	0.4 2	0	0	2	10	1
9	Public Sector	13	11	217	16.69	19.73	8	13	0.4 0	0	1	2	8	2
10	<b>Developing Countries</b>	11	11	259	23.5 5	23.5 5	8	11	0.4 7	0	1	3	7	0
11	ICT	11	9	215	19.55	23.8 9	5	11	0.2 8	0	2	2	5	2
12	Social Media	11	8	73	6.64	9.13	4	8	0.4 0	0	0	1	7	3
13	Usability	11	10	168	15.27	16.8 0	8	11	0.4 2	0	0	2	8	1
14	Adoption	10	8	280	28.0 0	35.0 0	6	1 0	0.3 3	0	3	1	4	2
15	India	10	8	143	14.3 0	17.8 8	5	1 0	0.2 5	0	1	1	6	2
16	Internet	10	10	211	21.10	21.10	7	1 0	0.3 5	0	1	2	7	0
17	Jordan	10	10	227	22.7 0	22.7 0	8	1 0	0.5 0	0	2	1	7	0
18	TAM	10	7	36	3.60	5.14	4	5	0.3 3	0	0	0	7	3
19	E-readiness	9	8	180	20.0 0	22.5 0	6	9	0.3 0	0	1	2	5	1
2 0	E-voting	9	8	105	11.67	13.13	5	9	0.2 9	0	1	0	7	1
21	Interoperability	9	7	55	6.11	7.86	5	7	0.2 9	0	0	0	7	2
2 2	Privacy	9	9	104	11.56	11.56	6	9	0.3	0	0	1	8	0
2 3	Technology Acceptance Model	9	7	36	4.00	5.14	4	5	0.3 3	0	0	0	7	2
2 4	Case Study	8	7	57	7.13	8.14	4	7	0.2 2	0	0	0	7	1
4 2 5	Citizens	8	6	150	18.75	25.0 0	6	8	0.3	0	0	3	3	2
5 2 6	E-participation	8	7	95	11.88	13.57	5	8	0.3 6	0	0	2	5	1
2	Public Administration	8	5	92	11.50	18.4 0	3	8	0.15	0	1	O	4	3
7 2 8	Structural Equation Modelling	8	5	96	12.0 0	19.2 0	4	8	0.2 9	0	1	0	4	3

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2	E-democracy	7	7	87	12.43	12.4	5	7	0.2	О	0	1	6	0
9 3	Facebook	7	5	47	6.71	3 9.40	3	6	8 0.2	0	0	1	4	2
0									7					

### 4. CONCLUSION

Academic articles have been published in the Electronic Government, an International Journal since its establishment in 2004. Digital divide, socioeconomic exclusion, rural applications, efficiency, effectiveness, transparency, security, and trust difficulties in e-government are the primary areas of attention for EG. This study summarised EG from the last 20 years and identified current journal trends using a variety of measures. Factors included in the bibliometric study were yearly citations and publications, papers with a high number of citations, nations and institutions included in EG, and the most prolific and prominent authors., contributing to the creation of a bibliographic overview. In line with other prior investigations (Martínez-López et al., 2018; Vishwakarma and Mukherjee, 2019; Valenzuela et al., 2017). The journal and its readers get new knowledge from this study. According to the research's findings aid both the researchers and readers in comprehending the nature of the e-government research papers published by EG.

According to the findings of the investigation, USA is the nation that has made the most contributions, and a significant number of influential and productive authors are linked with the colleges that are located within the region. USA is home to the vast majority of the producing institutions. On the other hand, the most impactful articles were those that were published by scholars from Canada. In addition, Brunel University London, which is located in the United Kingdom, is the university that has the most articles published in EG above any other university. On the other hand, the documents that were published by Swansea University received a greater number of citations for each paper, which demonstrates the significance and effect of the study. However, it is clear that the majority of the institutions that contribute to EG are located in UK. And yet, as the citation count has been falling since 2018, special issues of the journal can be introduced to address current topics in the field of e-government, It can increase the number of researchers who submit their work to EG and the number of people who read the work that is published there. This will allow EG to receive a greater number of citations, which will ultimately lead to an improvement in the journal ranking. As a result, EG has the ability to publish a special issue that will concentrate on developing issues in the field of e-government., like augmented reality and artificial intelligence in the realm of electronic government applications.

Moreover, the quantity of publications in the initial decade is notably higher compared to the subsequent decade, possibly influenced by a higher rejection rate during the latter period or the volume of submissions received by the journal. Additionally, the study observed a significant interest in articles published in EG from other prominent journals such as "Government Information Quarterly," "International Journal of Information Management," "Technological Forecasting and Social Change," "Information Systems Frontiers," and "Electronic Government, an International Journal." These journals are frequently referenced by EG, indicating the journal's impact on the e-government field. The graphical analysis using VOSviewer provided additional insights, encompassing citation, bibliographic, co-occurrences, and co-citation analyses of EG's bibliographic data. The findings aligned with the results presented in the tables.

On the other hand, the study offers a summary of research documents that have been published in EG ever since the publication's establishment. Additionally, it is subject to certain limitations. On the basis of the Scopus database, the study offers a summary of the research trend as well as a number of other factors. On the basis of the Scopus database, the study offers a summary of the research trend as well as a number of other indicators. Nevertheless, the findings of the study are highly subjective and subject to change over the course of time as a consequence of the growing number of citations of recently released works. As time passes, certain subjects can either continue to increase or see a decrease. Other limitation of this study is that it only looked at articles and review articles.

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