Chaomei Chen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1717319/publications.pdf

Version: 2024-02-01

202 papers 15,752 citations

70961 41 h-index 23472 111 g-index

234 all docs

234 docs citations

times ranked

234

6936 citing authors

#	Article	IF	CITATIONS
1	CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature. Journal of the Association for Information Science and Technology, 2006, 57, 359-377.	2.6	3,316
2	Searching for intellectual turning points: Progressive knowledge domain visualization. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5303-5310.	3.3	1,593
3	The structure and dynamics of cocitation clusters: A multipleâ€perspective cocitation analysis. Journal of the Association for Information Science and Technology, 2010, 61, 1386-1409.	2.6	1,081
4	Visualizing knowledge domains. Annual Review of Information Science & Technology, 2005, 37, 179-255.	2.6	1,024
5	Emerging trends in regenerative medicine: a scientometric analysis in <i>CiteSpace</i> . Expert Opinion on Biological Therapy, 2012, 12, 593-608.	1.4	860
6	Science Mapping: A Systematic Review of the Literature. Journal of Data and Information Science, 2017, 2, 1-40.	0.5	830
7	Visualizing a field of research: A methodology of systematic scientometric reviews. PLoS ONE, 2019, 14, e0223994.	1.1	528
8	Emerging trends and new developments in regenerative medicine: a scientometric update (2000 – 2014). Expert Opinion on Biological Therapy, 2014, 14, 1295-1317.	1.4	503
9	Patterns of connections and movements in dualâ€map overlays: A new method of publication portfolio analysis. Journal of the Association for Information Science and Technology, 2014, 65, 334-351.	1.5	348
10	Towards an explanatory and computational theory of scientific discovery. Journal of Informetrics, 2009, 3, 191-209.	1.4	303
11	Top 10 unsolved information visualization problems. IEEE Computer Graphics and Applications, 2005, 25, 12-16.	1.0	255
12	Interacting With Hypertext: A Meta-Analysis of Experimental Studies. Human-Computer Interaction, 1996, 11, 125-156.	3.1	227
13	Visualising semantic spaces and author co-citation networks in digital libraries. Information Processing and Management, 1999, 35, 401-420.	5.4	226
14	Emerging trends and new developments in information science: a document co-citation analysis (2009–2016). Scientometrics, 2018, 115, 869-892.	1.6	210
15	Predictive effects of structural variation on citation counts. Journal of the Association for Information Science and Technology, 2012, 63, 431-449.	2.6	200
16	Visualizing a knowledge domain's intellectual structure. Computer, 2001, 34, 65-71.	1.2	188
17	Orphan drugs and rare diseases: a scientometric review (2000 – 2014). Expert Opinion on Orphan Drugs, 2014, 2, 709-724.	0.5	172
18	Mapping Scientific Frontiers: The Quest for Knowledge Visualization. , 2003, , .		137

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19	Tracing knowledge diffusion. Scientometrics, 2004, 59, 199-211.	1.6	133
20	A scientometric review of emerging trends and new developments in recommendation systems. Scientometrics, 2015, 104, 239-263.	1.6	132
21	The thematic and citation landscape of Data and Knowledge Engineering (1985–2007). Data and Knowledge Engineering, 2008, 67, 234-259.	2.1	126
22	Empirical studies of information visualization: a meta-analysis. International Journal of Human Computer Studies, 2000, 53, 851-866.	3.7	108
23	Empirical evaluation of information visualizations: an introduction. International Journal of Human Computer Studies, 2000, 53, 631-635.	3.7	107
24	Big, Deep, and Smart Data in Scanning Probe Microscopy. ACS Nano, 2016, 10, 9068-9086.	7. 3	103
25	Individual differences in virtual environments?Introduction and overview., 2000, 51, 499-507.		101
26	The Top 10 Challenges in Extreme-Scale Visual Analytics. IEEE Computer Graphics and Applications, 2012, 32, 63-67.	1.0	97
27	A Glimpse of the First Eight Months of the COVID-19 Literature on Microsoft Academic Graph: Themes, Citation Contexts, and Uncertainties. Frontiers in Research Metrics and Analytics, 2020, 5, 607286.	0.9	96
28	Interactive overlays of journals and the measurement of interdisciplinarity on the basis of aggregated journal–journal citations. Journal of the Association for Information Science and Technology, 2013, 64, 2573-2586.	2.6	92
29	CiteSpace II: visualization and knowledge discovery in bibliographic databases. AMIA Annual Symposium proceedings, 2005, , 724-8.	0.2	82
30	Generalised similarity analysis and pathfinder network scaling. Interacting With Computers, 1998, 10, 107-128.	1.0	78
31	Visualizing and tracking the growth of competing paradigms: Two case studies. Journal of the Association for Information Science and Technology, 2002, 53, 678-689.	2.6	69
32	The centrality of pivotal points in the evolution of scientific networks., 2005,,.		69
33	Information visualization. Wiley Interdisciplinary Reviews: Computational Statistics, 2010, 2, 387-403.	2.1	69
34	Half a century of research on antipsychotics and schizophrenia: A scientometric study of hotspots, nodes, bursts, and trends. Neuroscience and Biobehavioral Reviews, 2022, 136, 104608.	2.9	67
35	Bridging the Gap: The Use of Pathfinder Networks in Visual Navigation. Journal of Visual Languages and Computing, 1998, 9, 267-286.	1.8	65
36	Structuring and visualising the WWW by generalised similarity analysis., 1997,,.		64

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37	Visualizing evolving networks: minimum spanning trees versus pathfinder networks. , 0, , .		60
38	Mapping Scientific Frontiers., 2013,,.		59
39	Where are citations located in the body of scientific articles? A study of the distributions of citation locations. Journal of Informetrics, 2013, 7, 887-896.	1.4	59
40	Visual Analysis of Conflicting Opinions. , 2006, , .		58
41	Spatial ability and visual navigation: an empirical study. New Review of Hypermedia and Multimedia, 1997, 3, 67-89.	0.9	55
42	Dynamic topic detection and tracking: A comparison of <scp>HDP</scp> , Câ€word, and cocitation methods. Journal of the Association for Information Science and Technology, 2014, 65, 2084-2097.	1.5	55
43	Individual differences in a spatial-semantic virtual environment. Journal of the Association for Information Science and Technology, 2000, 51, 529-542.	1.2	53
44	How many ways to use CiteSpace? A study of user interactive events over 14 months. Journal of the Association for Information Science and Technology, 2017, 68, 1234-1256.	1.5	53
45	The proximity of co-citation. Scientometrics, 2012, 91, 495-511.	1.6	49
46	Trailblazing the literature of hypertext., 1999,,.		48
47	The rising landscape: A visual exploration of superstring revolutions in physics. Journal of the Association for Information Science and Technology, 2003, 54, 435-446.	2.6	48
48	Fitting the Jigsaw of citation: Information visualization in domain analysis. Journal of the Association for Information Science and Technology, 2001, 52, 315-330.	2.6	47
49	A visual analytic study of retracted articles in scientific literature. Journal of the Association for Information Science and Technology, 2013, 64, 234-253.	2.6	44
50	Visualizing the Knowledge Domain of Nanoparticle Drug Delivery Technologies: A Scientometric Review. Applied Sciences (Switzerland), 2016, 6, 11.	1.3	43
51	How are collaboration and productivity correlated at various career stages of scientists?. Scientometrics, 2014, 101, 1553-1564.	1.6	38
52	Literature retrieval based on citation context. Scientometrics, 2014, 101, 1293-1307.	1.6	37
53	How are they different? A quantitative domain comparison of information visualization and data visualization (2000–2014). Scientometrics, 2016, 107, 123-165.	1.6	37
54	User-controlled mapping of significant literatures. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5297-5302.	3.3	34

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55	Hindsight, insight, and foresight: a multi-level structural variation approach to the study of a scientific field. Technology Analysis and Strategic Management, 2013, 25, 619-640.	2.0	34
56	Visualizing latent domain knowledge. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2001, 31, 518-529.	3.3	33
57	An Information-Theoretic View of Visual Analytics. IEEE Computer Graphics and Applications, 2008, 28, 18-23.	1.0	33
58	Representing Scientific Knowledge., 2017,,.		33
59	A scalable and adaptive method for finding semantically equivalent cue words of uncertainty. Journal of Informetrics, 2018, 12, 158-180.	1.4	31
60	How did university departments interweave the Web: A study of connectivity and underlying factors. Interacting With Computers, 1998, 10, 353-373.	1.0	29
61	The differences between latent topics in abstracts and citation contexts of citing papers. Journal of the Association for Information Science and Technology, 2013, 64, 627-639.	2.6	29
62	Representing the semantics of virtual spaces. IEEE MultiMedia, 1999, 6, 54-63.	1.5	27
63	From latent semantics to spatial hypertextan integrated approach. , 1998, , .		26
64	Visualizing the Intellectual Structure with Paper-Reference Matrices. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1153-1160.	2.9	26
65	Half a century of research on Attention-Deficit/Hyperactivity Disorder: A scientometric study. Neuroscience and Biobehavioral Reviews, 2022, 140, 104769.	2.9	25
66	Visualizing and Exploring Scientific Literature with CiteSpace. , 2018, , .		24
67	Eugene Garfield's scholarly impact: a scientometric review. Scientometrics, 2018, 114, 489-516.	1.6	24
68	Turning Points., 2011,,.		23
69	Storylines: Visual exploration and analysis in latent semantic spaces. Computers and Graphics, 2007, 31, 338-349.	1.4	22
70	Grand Challenges in Measuring and Characterizing Scholarly Impact. Frontiers in Research Metrics and Analytics, 2016, 1, .	0.9	22
71	The boundary-spanning mechanisms of Nobel Prize winning papers. PLoS ONE, 2021, 16, e0254744.	1.1	22
72	Science Mapping. Advances in Information Quality and Management, 2014, , 4171-4184.	0.3	21

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73	An Extensive Knowledge Mapping Review of Measurement and Validity in Language Assessment and SLA Research. Frontiers in Psychology, 2020, 11, 1941.	1.1	20
74	Mapping Scientometrics (1981-2001). Proceedings of the American Society for Information Science and Technology, 2005, 39, 25-34.	0.2	16
75	PaperPoles: Facilitating adaptive visual exploration of scientific publications by citation links. Journal of the Association for Information Science and Technology, 2019, 70, 843-857.	1.5	16
76	Visual interfaces to digital libraries. , 2002, , .		15
77	Information Visualization. Information Visualization, 2002, 1, 1-4.	1.2	15
78	Visual Interfaces to Digital Libraries: Motivation, Utilization, and Socio-technical Challenges. Lecture Notes in Computer Science, 2002, , 1-9.	1.0	14
79	Footprints of information foragers: behaviour semantics of visual exploration. International Journal of Human Computer Studies, 2002, 57, 139-163.	3.7	14
80	Panel 1: Can We Determine the Top Unresolved Problems of Visualization?., 2004,,.		13
81	Tracing Conceptual and Geospatial Diffusion of Knowledge. Lecture Notes in Computer Science, 2007, , 265-274.	1.0	13
82	Measuring researchers' potential scholarly impact with structural variations: Four types of researchers in information science (1979–2018). PLoS ONE, 2020, 15, e0234347.	1.1	12
83	Visualizing scientific paradigms: An introduction. Journal of the Association for Information Science and Technology, 2003, 54, 392-393.	2.6	11
84	Thematic maps of 19 iSchools. Proceedings of the American Society for Information Science and Technology, 2008, 45, 1-12.	0.2	11
85	An extended fisheye view browser for collaborative writing. International Journal of Human Computer Studies, 1994, 40, 859-878.	3.7	10
86	Tracking latent domain structures: An integration of pathfinder and Latent Semantic Analysis. Al and Society, 1997, 11, 48-62.	3.1	10
87	Measuring the movement of a research paradigm. , 2005, , .		10
88	Scientometrics of big science: a case study of research in the Sloan Digital Sky Survey. Scientometrics, 2011, 86, 1-14.	1.6	10
89	Top Ten Interaction Challenges in Extreme-Scale Visual Analytics. , 2012, , 197-207.		10
90	The Structure and Dynamics of Scientific Knowledge. , 2013, , 163-199.		10

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91	Graph Analytics-Lessons Learned and Challenges Ahead. IEEE Computer Graphics and Applications, 2011, 31, 18-29.	1.0	9
92	Searching for clinical evidence in CiteSpace. AMIA Annual Symposium proceedings, 2005, , 121-5.	0.2	9
93	From Spatial Proximity to Semantic Coherence: A Quantitative Approach to the Study of Group Dynamics in Collaborative Virtual Environments. Presence: Teleoperators and Virtual Environments, 2005, 14, 81-103.	0.3	8
94	Holistic senseâ€making: conflicting opinions, creative ideas, and collective intelligence. Library Hi Tech, 2007, 25, 311-327.	3.7	8
95	Analysis of citation networks as a new tool for scientific research. MRS Bulletin, 2016, 41, 1009-1016.	1.7	8
96	Predictive Effects of Novelty Measured by Temporal Embeddings on the Growth of Scientific Literature. Frontiers in Research Metrics and Analytics, 2018, 3, .	0.9	8
97	Modelling Situated Actions in Collaborative Hypertext Databases. Journal of Computer-Mediated Communication, 0, 2, 0-0.	1.7	8
98	Content-based image visualization. , 0, , .		7
99	Workshop 1: visual interfaces to digital libraries - its past, present, and future. , 2001, , .		7
100	Delineating the citation impact of scientific discoveries. , 2007, , .		7
101	Temporal Representations of Citations for Understanding the Changing Roles of Scientific Publications. Frontiers in Research Metrics and Analytics, 2018, 3, .	0.9	7
102	LitStoryTeller+: an interactive system for multi-level scientific paper visual storytelling with a supportive text mining toolbox. Scientometrics, 2018, 116, 1887-1944.	1.6	7
103	Domain visualization for digital libraries. , 0, , .		6
104	Adapting the cognitive walkthrough method to assess the usability of a knowledge domain visualization. , 0 , , .		6
105	Semi-supervised Dirichlet-Hawkes process with applications of topic detection and tracking in Twitter. , $2016, , .$		6
106	Individual differences in virtual environmentsâ€"Introduction and overview. , 2000, 51, 499.		6
107	Visualizing the Evolution of HCI. , 2006, , 233-250.		6
108	Integrating spatial, semantic, and social structures for knowledge management., 0,,.		5

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109	<title>Visual-spatial exploration of thematic spaces: a comparative study of three visualization models</title> ., 2001,,.		5
110	Top Ten Problems in Visual Interfaces to Digital Libraries. Lecture Notes in Computer Science, 2002, , 226-231.	1.0	5
111	Al and Global Science and Technology Assessment. IEEE Intelligent Systems, 2009, 24, 68-88.	4.0	5
112	How do Price medalists' scholarly impact change before and after their awards?. Scientometrics, 2021, 126, 5945-5981.	1.6	5
113	Information Visualization. Information Visualization, 2002, 1, 1-4.	1.2	5
114	Towards a consolidated model for a collaborative courseware authoring system. Journal of Computer Assisted Learning, 1993, 9, 34-50.	3.3	4
115	Quality Management of Student-Student Evaluations. Journal of Educational Computing Research, 1997, 17, 199-215.	3.6	4
116	Writing with collaborative hypertext: Analysis and modeling. Journal of the Association for Information Science and Technology, 1997, 48, 1049-1066.	1.2	4
117	Augmenting user interfaces for digital libraries with virtual reality. , 0, , .		4
118	Measuring the quality of network visualization. , 2005, , .		4
119	Visualizing an enterprise social network from email. , 2006, , .		4
120	Information visualization state of the art and future directions. Proceedings of the American Society for Information Science and Technology, 2012, 49, 1-3.	0.2	4
121	Spatiotemporal Analytics of Topic Trajectory. , 2016, , .		4
122	Science Mapping Tools and Applications. , 2017, , 57-137.		4
123	Effects of Domain Knowledge on User Performance and Perception in a Knowledge Domain Visualization System. Lecture Notes in Computer Science, 2013, , 601-610.	1.0	4
124	Making sense of the evolution of a scientific domain: a visual analytic study of the Sloan Digital Sky Survey research. Scientometrics, 2010, 83, 669-688.	1.6	3
125	The use of scientific data: A content analysis. Proceedings of the American Society for Information Science and Technology, 2010, 47, 1-2.	0.2	3
126	Data repository mapping for influenza protein sequence analysis. , 2011, , .		3

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127	Information Visualization and the Semantic Web. , 2006, , 19-44.		3
128	Visual interfaces to digital libraries. ACM SIGIR Forum, 2001, 35, 12-15.	0.4	3
129	The Growth of Scientific Knowledge. , 2003, , 1-38.		3
130	Understanding Collaborative Authoring in Shared Workspaces. IFIP Advances in Information and Communication Technology, 1995, , 277-282.	0.5	3
131	Analyzing the Propagation of Influence and Concept Evolution in Enterprise Social Networks through Centrality and Latent Semantic Analysis. , 2008, , 1090-1098.		3
132	Human factors in virtual environments. Virtual Reality, 1998, 3, 223-225.	4.1	2
133	A semantic-centric approach to information visualization. , 0, , .		2
134	Using CBIR and pathfinder networks for image database visualisation. , 0, , .		2
135	Detecting and mapping thematic changes in transient networks., 0,,.		2
136	Studying scientific collaboration. Part 1: Methodology for investigating collaboration. Part 2: Research papers - collaboration in action. Proceedings of the American Society for Information Science and Technology, 2005, 41, 545-549.	0.2	2
137	Visualizing Complex Networks. , 2005, , 183-201.		2
138	Grand challenge award: Data integration visualization and collaboration in the VAST 2008 Challenge. , 2008, , .		2
139	Trajectories of Search. , 2013, , 143-161.		2
140	The Uncertainty of Science: Navigating Through the Unknown. , 2017, , 1-35.		2
141	Introduction to Information Visualization: Transforming Data into Meaningful Information. By Gerald Benoit. Journal of Education for Library and Information Science, 2020, 61, 300-302.	0.2	2
142	Mapping the Mind. , 2003, , 67-99.		2
143	Patterns and Trends in Semantic Predications. , 2017, , 283-336.		2
144	Information Visualization Versus the Semantic Web., 2003,, 15-35.		2

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145	Virtual Environments., 1999,, 175-211.		2
146	Information Visualization is Growing. Information Visualization, 2002, 1, 159-164.	1.2	1
147	Aesthetics Versus Functionality. Information Visualization, 2002, 1, 93-94.	1.2	1
148	Semantically modified diffusion limited aggregation for visualizing large-scale networks. , 0, , .		1
149	Articles in this Issue. Information Visualization, 2003, 2, 81-81.	1.2	1
150	Understanding the Evolution of NSAID: A Knowledge Domain Visualization Approach to Evidence-Based Medicine. , 0 , , .		1
151	SDSS Log Viewer : visual exploratory analysis of large-volume SQL log data. Proceedings of SPIE, 2012, ,	0.8	1
152	Mapping Science. , 2013, , 259-320.		1
153	Visual Analytics. , 2013, , 321-339.		1
154	Modeling Users' Data Usage Experiences from Scientific Literature. Lecture Notes in Computer Science, 2011, , 337-346.	1.0	1
155	Visualising Information: A Mosaic of Perspectives. Lecture Notes in Computer Science, 2000, , 120-126.	1.0	1
156	Behavioural Patterns of Collaborative Writing with Hypertext â€" A State Transition Approach. , 1996, , 265-279.		1
157	Expert System Technology: Expert System Interface. , 2019, , 6-1-6-12.		1
158	Collaborative software reuse integrated into the work flow. Annual Review in Automatic Programming, 1992, 16, 79-83.	0.2	0
159	Introduction to the human factors and usability issues minitrack. , 1999, , .		O
160	Modeling the Dynamics of Using a Collaborative Hypertext. Journal of Intelligent Systems, 2000, 10, .	1.2	0
161	Information Visualization Research: Citation and Co-Citation Highlights. , 0, , .		0
162	Mapping the knowledge. Sponsored by SIG MET, SIG VIS. Proceedings of the American Society for Information Science and Technology, 2005, 39, 511-512.	0.2	0

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163	Trailblazing through a Knowledge Space of Science: Forward Citation Expansion in CiteSeer. Proceedings of the American Society for Information Science and Technology, 2006, 43, 1-17.	0.2	О
164	Search result visualization panel. Proceedings of the American Society for Information Science and Technology, 2007, 43, 1-2.	0.2	0
165	Messages in Text. , 2011, , 177-218.		0
166	Front Matter: Volume 7868. Proceedings of SPIE, 2011, , .	0.8	0
167	Front Matter: Volume 8294. Proceedings of SPIE, 2012, , .	0.8	O
168	Mapping the Universe., 2013,, 47-84.		0
169	Mapping Associations. , 2013, , 85-141.		0
170	Tracing Competing Paradigms. , 2013, , 201-225.		0
171	Tracking Latent Domain Knowledge. , 2013, , 227-257.		O
172	Front Matter: Volume 8654. Proceedings of SPIE, 2013, , .	0.8	0
173	Front Matter: Volume 9017. Proceedings of SPIE, 2013, , .	0.8	O
174	The Dynamics of Scientific Knowledge: Macroscopic Views., 2017,, 37-55.		0
175	Literature-Based Discovery. , 2017, , 263-281.		O
176	Using Operando Characterization, Data Analytics, and Artificial Intelligence to Understand Mechanistic Links between Processing and Structure. Microscopy and Microanalysis, 2018, 24, 258-259.	0.2	0
177	Editorial: Coronavirus Research Landscape: Resources, Utilities, and Analytic Studies. Frontiers in Research Metrics and Analytics, 2021, 6, 712672.	0.9	O
178	Workshop report. ACM SIGIR Forum, 2002, 36, 90-92.	0.4	0
179	Tracking Latent Domain Knowledge. , 2003, , 191-223.		0
180	Mapping the Universe., 2003,, 39-65.		0

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181	Enabling Techniques for Science Mapping. , 2003, , 101-133.		O
182	Human Factors in the Development of Trend Detection and Tracking Techniques., 2006,, 273-279.		0
183	Analyzing and Visualizing the Dynamics of Scientific Frontiers and Knowledge Diffusion., 2006,, 24-30.		0
184	Human Factors in the Development of Trend Detection and Tracking Techniques. , 2009, , $1678-1686$.		0
185	Foraging., 2011,, 87-137.		0
186	The Gathering Storm., 2011,, 1-20.		0
187	Creative Thinking. , 2011, , 21-41.		0
188	Transformative Potential., 2011,, 219-252.		0
189	Recognizing the Potential of Research. , 2011, , 69-86.		0
190	Cognitive Biases and Pitfalls. , 2011, , 43-67.		0
191	Knowledge Domain Analysis. , 2011, , 139-175.		0
192	Spatial Layout and Graph Drawing Algorithms. , 1999, , 61-91.		0
193	Information Visualisation Systems and Applications. , 1999, , 93-138.		0
194	Individual Differences in Visual Navigation. , 1999, , 139-174.		0
195	Finding Salient Structures. , 1999, , 27-60.		0
196	Concluding Remarks: Today's Vision of Envisioning the Semantic Future. , 2006, , 243-244.		0
197	Concluding Remarks Vladimir Geroimenko and Chaomei Chen. , 2005, , 293-294.		0
198	Visualizing a field of research: A methodology of systematic scientometric reviews., 2019, 14, e0223994.		0

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199	Visualizing a field of research: A methodology of systematic scientometric reviews. , 2019, 14, e0223994.		O
200	Visualizing a field of research: A methodology of systematic scientometric reviews. , 2019, 14, e0223994.		0
201	Visualizing a field of research: A methodology of systematic scientometric reviews. , 2019, 14, e0223994.		O
202	Human Factors in the Development of Trend Detection and Tracking Techniques., 0,,.		0