Ricardo Baeza-Yates

List of Publications by Year
in descending order

322	9,466	109264	74108
papers	citations	35	75
		h-index	g-index

349	349	349	4329
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	The Attention Economy and the Impact of Artificial Intelligence. , 2022, , 123-134.		13
2	Ethical Challenges in AI. , 2022, , .		6
3	Bots donâ€™t Vote, but They Surely Bother!. , 2022, , .		1
4	AI & Human Values. Lecture Notes in Computer Science, 2021, , 76-89.	1.0	5
5	Characterization of Anorexia Nervosa on Social Media: Textual, Visual, Relational, Behavioral, and Demographical Analysis. Journal of Medical Internet Research, 2021, 23, e25925.	2.1	7
6	Enhanced Word Embedding Variations for the Detection of Substance Abuse and Mental Health Issues on Social Media Writings. IEEE Access, 2021, 9, 130449-130471.	2.6	11
7	How to Handle Health-Related Small Imbalanced Data in Machine Learning?. I-com, 2021, 19, 215-226.	0.9	6
8	Scalable Dynamic Graph Summarization. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 360-373.	4.0	13
9	Reclassifying neurodegenerative diseases. Nature Biomedical Engineering, 2020, 4, 759-760.	11.6	4
10	Representativeness of Abortion Legislation Debate on Twitter: A Case Study in Argentina and Chile. , 2020, , .		6
11	Screening risk of dyslexia through a web-game using language-independent content and machine learning. , 2020, , .		18
12	Bias on the web and beyond. , 2020, , .		1
13	Bias in Search and Recommender Systems. , 2020, , .		30
14	Every Colour You Are: StanceÂPredictionÂandÂTurnaroundÂinÂControversialÂIssues. , 2020, , .		10
15	Predicting risk of dyslexia with an online gamified test. PLoS ONE, 2020, 15, e0241687.	1.1	35
16	Detection of Suicidal Ideation on Social Media: Multimodal, Relational, and Behavioral Analysis. Journal of Medical Internet Research, 2020, 22, e17758.	2.1	42
17	Pre-indexing Pruning Strategies. Lecture Notes in Computer Science, 2020, , 177-193.	1.0	0
18	Biases on Social Media Data. , 2020, , .		0

#	Article	IF	Citations
19	Personalization, Bias and Privacy. , 2020, , .		1
20	Designing Equitable Algorithms for the Web. , 2019, , .		0
21	How Representative is an Abortion Debate on Twitter?. , 2019, , .		10
22	TempWeb 2019 Chairs' Welcome. , 2019, , .		0
23	An effective and efficient algorithm for ranking web documents via genetic programming. , 2019, , .		2
24	A tablet game to target dyslexia screening in pre-readers. , 2018, , .		6
25	Towards Language Independent Detection of Dyslexia with a Web-based Game. , 2018, , .		22
26	Learning Ranking Functions by Genetic Programming Revisited. Lecture Notes in Computer Science, 2018, , 378-386.	1.0	1
27	Bias on the web. Communications of the ACM, 2018, 61, 54-61.	3.3	264
28	Structured Text Retrieval Models. , 2018, , 3829-3833.		0
29	How to present more readable text for people with dyslexia. Universal Access in the Information Society, 2017, 16, 29-49.	2.1	40
30	A resource of errors written in Spanish by people with dyslexia and its linguistic, phonetic and visual analysis. Language Resources and Evaluation, 2017, 51, 379-408.	1.8	10
31	Storyâ€focused reading in online news and its potential for user engagement. Journal of the Association for Information Science and Technology, 2017, 68, 869-883.	1.5	15
32	A machine learning approach for result caching in web search engines. Information Processing and Management, 2017, 53, 834-850.	5.4	14
33	Exploring Query Auto-Completion and Click Logs for Contextual-Aware Web Search and Query Suggestion. , 2017, , .		23
34	Ten Years of Wisdom. , 2017, , .		1
35	Semantic Query Understanding. , 2017, , .		5
36	Towards the Prediction of Dyslexia by a Web-based Game with Musical Elements. , 2017, , .		10

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37	Detection of Trending Topic Communities. , 2017, , .		3
38	Quality-efficiency trade-offs in machine learning for text processing. , 2017, , .		8
39	FA*IR. , 2017, , .		252
40	Semantic search (invited talk). , 2017, , .		0
41	Burden of neurological diseases in the US revealed by web searches. PLoS ONE, 2017, 12, e0178019.	1.1	5
42	Structured Text Retrieval Models. , 2017, , 1-5.		0
43	Scalable dynamic graph summarization. , 2016, , .		7
44	Visual congruent ads for image search. , 2016, , .		0
45	The Effect of Font Type on Screen Readability by People with Dyslexia. ACM Transactions on Accessible Computing, 2016, 8, 1-33.	1.9	33
46	Scalable Semantic Matching of Queries to Ads in Sponsored Search Advertising. , 2016, , .		38
47	Encouraging Diversity- and Representation-Awareness in Geographically Centralized Content. , 2016, , .		5
48	Data and algorithmic bias in the web. , 2016, , .		49
49	Data Portraits and Intermediary Topics. , 2016, , .		14
50	Scalability and Efficiency Challenges in Large-Scale Web Search Engines. , 2016, , .		9
51	Message from the Conference General Chairs. , 2016, , .		0
52	Message from the Workshop Co-Chairs. , 2016, , .		0
53	Towards Mobile Query Auto-Completion. , 2016, , .		11
54	The Role of Relevance in Sponsored Search. , 2016, , .		8

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55	Lexical Matching of Queries and Ads Bid Terms in Sponsored Search. Lecture Notes in Computer Science, 2016, , 231-239.	1.0	0
56	Essential Web Pages Are Easy to Find. , 2015, , .		2
57	Measuring Inter-site Engagement in a Network of Sites. Handbook of Statistics, 2015, , 303-338.	0.4	0
58	Scalability Challenges in Web Search Engines. Synthesis Lectures on Information Concepts, Retrieval, and Services, 2015, 7, 1-138.	0.6	12
59	Predicting The Next App That You Are Going To Use. , 2015, , .		117
60	Large-scale Contextual Query-to-Ad Matching and Retrieval System for Sponsored Search. , 2015, , .		0
61	Scalability and Efficiency Challenges in Large-Scale Web Search Engines. , 2015, , .		6
62	Big Data: Promises and Problems. Computer, 2015, 48, 20-23.	1.2	122
63	Wisdom of the Crowd or Wisdom of a Few?. , 2015, , .		20
64	A plug-in to aid online reading in Spanish. , 2015, , .		9
65	Harmony Assumptions in Information Retrieval and Social Networks. Computer Journal, 2015, 58, 2982-2999.	1.5	4
66	Analyzing User's Sequential Behavior in Query Auto-Completion via Markov Processes. , 2015, , .		26
67	Incremental Sampling of Query Logs. , 2015, , .		6
68	CASSA: A Context-Aware Synonym Simplification Algorithm. , 2015, , .		15
69	Feasibility of Word Difficulty Prediction. Lecture Notes in Computer Science, 2015, , 362-373.	1.0	0
70	Buon appetito. , 2014, , .		24
71	Characterization of online groups along space, time, and social dimensions. EPJ Data Science, 2014, 3, .	1.5	15
72	The wisdom of ad-hoc crowds. , 2014, , .		1

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73	The 4th temporal web analytics workshop (TempWeb'14). , 2014, , .		3
74	Scalability and efficiency challenges in large-scale web search engines. , 2014, , .		5
75	Enhancing web activities with information visualization. , 2014, , .		1
76	Automatic multi-partite graph generation from arbitrary data. Journal of Systems and Software, 2014, 94, 72-86.	3.3	3
77	Evaluation of DysWebxia. , 2014, , .		20
78	Scalability and efficiency challenges in large-scale web search engines. , 2014, , .		3
79	Improving the efficiency of multi-site web search engines. , 2014, , .		11
80	Who Are My Audiences? A Study of the Evolution of Target Audiences in Microblogs. Lecture Notes in Computer Science, 2014, , 561-572.	1.0	6
81	Beyond CPM and CPC. , 2014, , .		13
82	Orthogonal query recommendation. , 2013, , .		20
83	Measuring inter-site engagement. , 2013, , .		11
84	(big) usage data in web search. , 2013, , .		1
85	DysWebxia 2.0!. , 2013, , .		26
86	Networked user engagement. , 2013, , .		9
87	An iOS reader for people with dyslexia. , 2013, , .		7
88	Scalability and efficiency challenges in commercial web search engines. , 2013, , .		5
89	Online multitasking and user engagement. , 2013, , .		22
90	Good fonts for dyslexia. , 2013, , .		91

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91	Simplify or help?. , 2013, , .		63
92	Measuring web quality. , 2013, , .		0
93	Online social networks. , 2013, , .		2
94	Frequent Words Improve Readability and Short Words Improve Understandability for People with Dyslexia. Lecture Notes in Computer Science, 2013, , 203-219.	1.0	66
95	One Half or 50%? An Eye-Tracking Study of Number Representation Readability. Lecture Notes in Computer Science, 2013, , 229-245.	1.0	29
96	The Impact of Lexical Simplification by Verbal Paraphrases for People with and without Dyslexia. Lecture Notes in Computer Science, 2013, , 501-512.	1.0	8
97	The presence of English and Spanish dyslexia in the Web. New Review of Hypermedia and Multimedia, 2012, 18, 131-158.	0.9	13
98	User engagement. , 2012, , .		7
99	On measuring the lexical quality of the web. , 2012, , .		12
100	The effect of links on networked user engagement. , 2012, , .		6
101	Finding trendsetters in information networks. , 2012, , .		47
102	(Big) usage data in web search. , 2012, , .		2
103	Layout guidelines for web text and a web service to improve accessibility for dyslexics. , 2012, , .		70
104	Lexical quality as a proxy for web text understandability. , 2012, , .		16
105	Semantics of query rewriting patterns in search logs. , 2012, , .		2
106	A Mobile Application for Displaying More Accessible eBooks for People with Dyslexia. Procedia Computer Science, 2012, 14, 226-233.	1.2	27
107	A Visual Tool for Querying and Exploring XML Data. , 2012, , .		1
108	GraphGen: A Tool for Automatic Generation of Multipartite Graphs from Arbitrary Data. , 2012, , .		2

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109	IDEAL. , 2012, , .		22
110	Usage Data in Web Search: Benefits and Limitations. Lecture Notes in Computer Science, 2012, , 495-506.	1.0	5
111	Mining query log graphs towards a query folksonomy. Concurrency Computation Practice and Experience, 2012, 24, 2179-2192.	1.4	9
112	Modeling Static Caching in Web Search Engines. Lecture Notes in Computer Science, 2012, , 436-446.	1.0	9
113	Lexical Quality as a Measure for Textual Web Accessibility. Lecture Notes in Computer Science, 2012, , 404-408.	1.0	1
114	3D Inverted Index with Cache Sharing for Web Search Engines. Lecture Notes in Computer Science, 2012, , 272-284.	1.0	0
115	Design and Implementation of Relevance Assessments Using Crowdsourcing. Lecture Notes in Computer Science, 2011, , 153-164.	1.0	55
116	Future trends in business analytics and optimization. Intelligent Data Analysis, 2011, 15, 1001-1017.	0.4	7
117	Special issue of The Journal of Information Retrieval on web mining for search. Information Retrieval, 2011, 14, 213-214.	1.6	0
118	Scalable multi-dimensional user intent identification using tree structured distributions. , 2011, , .		6
119	Estimating dyslexia in the web. , 2011, , .		24
120	Batch query processing for web search engines. , 2011, , .		22
121	The 1st temporal web analytics workshop (TWAW). , 2011, , .		15
122	Trends in Search Interaction. Lecture Notes in Computer Science, 2011, , 26-32.	1.0	4
123	Scalability Challenges in Web Search Engines. The Kluwer International Series on Information Retrieval, 2011, , 27-50.	1.0	21
124	A Multi-faceted Approach to Query Intent Classification. Lecture Notes in Computer Science, 2011, , 368-379.	1.0	11
125	Enhancing Document Snippets Using Temporal Information. Lecture Notes in Computer Science, 2011, , 26-31.	1.0	3
126	Proteomic analysis of peach fruit mesocarp softening and chilling injury using difference gel electrophoresis (DIGE). BMC Genomics, 2010, 11, 43.	1.2	107

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127	Sync/Async parallel search for the efficient design and construction of web search engines. Parallel Computing, 2010, 36, 153-168.	1.3	20
128	Web search solved?. , 2010, , .		16
129	Tuning the capacity of search engines. ACM Transactions on Information Systems, 2010, 28, 1-36.	3.8	29
130	Will recommenders kill search?. , 2010, , .		15
131	Query forwarding in geographically distributed search engines. , 2010, , .		35
132	Web Structure Mining. Studies in Computational Intelligence, 2010, , 113-142.	0.7	8
133	Towards a Distributed Search Engine. Lecture Notes in Computer Science, 2010, , 1-5.	1.0	1
134	Privacy-preserving query log mining for business confidentiality protection. ACM Transactions on the Web, 2010, 4, 1-26.	2.0	13
135	Chapter 2: Next Generation Web Search. Lecture Notes in Computer Science, 2010, , 11-23.	1.0	29
136	Searching the Web of Objects. Lecture Notes in Computer Science, 2010, , 6-7.	1.0	1
137	Mining Large Query Induced Graphs towards a Hierarchical Query Folksonomy. Lecture Notes in Computer Science, 2010, , 237-242.	1.0	3
138	Temporal Analysis of Document Collections: Framework and Applications. Lecture Notes in Computer Science, 2010, , 290-296.	1.0	3
139	Retrieval Evaluation in Practice. Lecture Notes in Computer Science, 2010, , 2-2.	1.0	0
140	Coniunge et Impera: Multiple-Graph Mining for Query-Log Analysis. Lecture Notes in Computer Science, 2010, , 168-183.	1.0	2
141	A Model for Automatic Generation of Multi-partite Graphs from Arbitrary Data. Lecture Notes in Computer Science, 2010, , 49-60.	1.0	5
142	Web Advertising. Lecture Notes in Business Information Processing, 2010, , 143-145.	0.8	0
143	The Geographical Life of Search. , 2009, , .		8
144	Relating content through web usage. , 2009, , .		1

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145	On the feasibility of multi-site web search engines. , 2009, , .		27
146	Media on the web, in post-production and broadcasting. , 2009, , .		0
147	Clustering and exploring search results using timeline constructions. , 2009, , .		87
148	The Components and Impact of Sponsored Search. Computer, 2009, 42, 98-101.	1.2	17
149	On the size of Boyerâ€"Moore automata. Theoretical Computer Science, 2009, 410, 4432-4443.	0.5	0
150	Information systems special issue on ACM CIKM 2007. Information Systems, 2009, 34, 671-672.	2.4	0
151	New Techniques for Visualising Web Navigational Data. , 2009, , .		2
152	A model for fast web mining prototyping. , 2009, , .		5
153	WI 2009 Welcome Message from Conference Chair and Program Chair. , 2009, , .		0
154	IAT 2009 Welcome Message from Conference Chair and Program Chair. , 2009, , .		0
155	A Study of the Impact of Index Updates on Distributed Query Processing for Web Search. Lecture Notes in Computer Science, 2009, , 595-602.	1.0	5
156	Two-Dimensional Distributed Inverted Files. Lecture Notes in Computer Science, 2009, , 206-213.	1.0	6
157	Efficiency trade-offs in two-tier web search systems. , 2009, , .		35
158	Quantifying performance and quality gains in distributed web search engines. , 2009, , .		31
159	Tendencias en minerÃa de datos de la Web. Profesional De La Informacion, 2009, 18, 5-10.	2.7	0
160	Structured Text Retrieval Models. , 2009, , 2868-2871.		2
161	Keynote Talk: Mining the Web 2.0 for Improved Image Search. Lecture Notes in Computer Science, 2009, , 1-1.	1.0	0
162	Web retrieval: Techniques for the aggregation and selection of queries and answers. International Journal of Intelligent Systems, 2008, 23, 1223-1234.	3.3	4

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163	Towards content-oriented patent document processing. World Patent Information, 2008, 30, 21-33.	0.7	73
164	From Capturing Semantics to Semantic Search: A Virtuous Cycle. , 2008, , 1-2.		10
165	Deterministic Searching on the Line. , 2008, , 235-236.		0
166	Near-Term Prospects for Semantic Technologies. IEEE Intelligent Systems, 2008, 23, 76-88.	4.0	42
167	Query-sets. , 2008, , .		65
168	Link analysis for Web spam detection. ACM Transactions on the Web, 2008, 2, 1-42.	2.0	76
169	Human or Automatic Answers? A User's Based Study. , 2008, , .		0
170	Design trade-offs for search engine caching. ACM Transactions on the Web, 2008, 2, 1-28.	2.0	68
171	ResIn. , 2008, , .		44
172	Improved query difficulty prediction for the web. , 2008, , .		66
173	Data challenges at Yahoo!. , 2008, , .		8
174	Genealogical trees on the web. , 2008, , .		18
175	The anatomy of a large query graph. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224002.	0.7	5
176	Evolution of the Chilean Web: A Larger Study. , 2008, , .		0
177	A Web Search Analysis Considering the Intention behind Queries. , 2008, , .		9
178	Towards Semantic Search. Lecture Notes in Computer Science, 2008, , 4-11.	1.0	23
179	Clique Analysis of Query Log Graphs. Lecture Notes in Computer Science, 2008, , 188-199.	1.0	7
180	Characterization of national Web domains. ACM Transactions on Internet Technology, 2007, 7, 9.	3.0	65

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181	Extracting semantic relations from query logs. , 2007, , .		230
182	Search results using timeline visualizations. , 2007, , .		4
183	The impact of caching on search engines. , 2007, , .		162
184	Challenges on Distributed Web Retrieval. , 2007, , .		69
185	Distinctive Features of the Argentinian Web. , 2007, , .		0
186	Improving search engines by query clustering. Journal of the Association for Information Science and Technology, 2007, 58, 1793-1804.	2.6	20
187	2004 Symposium on String Processing and Information Retrieval. Journal of Discrete Algorithms, 2007, 5, 203.	0.7	0
188	Analyzing imbalance among homogeneous index servers in a web search system. Information Processing and Management, 2007, 43, 592-608.	5.4	25
189	A pipelined architecture for distributed text query evaluation. Information Retrieval, 2007, 10, 205-231.	1.6	88
190	Graphs from Search Engine Queries. Lecture Notes in Computer Science, 2007, , 1-8.	1.0	42
191	Analysis of Web Search Engine Query Session and Clicked Documents. Lecture Notes in Computer Science, 2007, , 207-226.	1.0	14
192	Website Privacy Preservation for Query Log Publishing. , 2007, , 80-96.		8
193	On the value of temporal information in information retrieval. ACM SIGIR Forum, 2007, 41, 35-41.	0.4	113
194	Load-Balancing and Caching for Collection Selection Architectures. , 2007, , .		6
195	New Stochastic Algorithms for Scheduling Ads in Sponsored Search. , 2007, , .		0
196	Distinctive Features of the Argentinian Web. , 2007, , .		0
197	Where and How Duplicates Occur in the Web. , 2006, , .		2
198	Generic Damping Functions for Propagating Importance in Link-Based Ranking. Internet Mathematics, 2006, 3, 445-478.	0.7	12

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199	Seasonal variation in the development of chilling injury in â€˜â€™Henryâ€™ peaches. Scientia Horticulturae, 2006, 110, 79-83.	1.7	30
200	Dynamics of the Chilean Web structure. Computer Networks, 2006, 50, 1464-1473.	3.2	12
201	Generalizing PageRank. , 2006, , .		56
202	Relationship between web links and trade. , 2006, , .		3
203	A content and structure website mining model. , 2006, , .		8
204	Modeling performance-driven workload characterization of web search systems. , 2006, , .		7
205	Introduction to the special issue on XML retrieval. ACM Transactions on Information Systems, 2006, 24, 405-406.	3.8	11
206	Analysis of Web Search Engine Clicked Documents. , 2006, , .		1
207	Algorithmic Challenges in Web Search Engines. Lecture Notes in Computer Science, 2006, , 1-7.	1.0	2
208	Algorithmic Challenges in Web Search Engines. Lecture Notes in Computer Science, 2006, , 277-278.	1.0	3
209	A Rapid and Efficient Method for Purifying High Quality Total RNA from Peaches (Prunus persica) for Functional Genomics Analyses. Biological Research, 2005, 38, 83-8.	1.5	215
210	ANÃLISIS DE CONSULTAS A UN BUSCADOR DE LA WEB CHILENA. Revista Facultad De IngenierÃa - Universidad De TarapacÃ¡, 2005, 13, 21.	0.1	1
211	Crawling a country. , 2005, , .		90
212	Applications of Web Query Mining. Lecture Notes in Computer Science, 2005, , 7-22.	1.0	59
213	Database and Information Retrieval Techniques for XML. Lecture Notes in Computer Science, 2005, , 22-27.	1.0	5
214	Modeling Text Databases. , 2005, , 1-25.		4
215	A Fast Set Intersection Algorithm for Sorted Sequences. Lecture Notes in Computer Science, 2004, , 400-408.	1.0	68
216	Query Recommendation Using Query Logs in Search Engines. Lecture Notes in Computer Science, 2004, , 588-596.	1.0	351

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217	Query Clustering for Boosting Web Page Ranking. Lecture Notes in Computer Science, 2004, , 164-175.	1.0	38
218	Clustering in Metric Spaces with Applications to Information Retrieval. Network Theory and Applications, 2004, , 1-33.	0.6	0
219	Web page ranking using link attributes. , 2004, , .		49
220	Crawling the Infinite Web: Five Levels Are Enough. Lecture Notes in Computer Science, 2004, , 156-167.	1.0	24
221	Challenges in the Interaction of Information Retrieval and Natural Language Processing. Lecture Notes in Computer Science, 2004, , 445-456.	1.0	20
222	An Optimistic Model for Searching Web Directories. Lecture Notes in Computer Science, 2004, , 364-377.	1.0	5
223	Text Searching: Theory and Practice. Studies in Fuzziness and Soft Computing, 2004, , 565-597.	0.6	6
224	Excavando la web. Profesional De La Informacion, 2004, 13, 4-10.	2.7	9
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226	Information retrieval in the Web: beyond current search engines. International Journal of Approximate Reasoning, 2003, 34, 97-104.	1.9	53
227	Optimal binary search trees with costs depending on the access paths. Theoretical Computer Science, 2003, 290, 1799-1814.	0.5	8
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230	New and faster filters for multiple approximate string matching. Random Structures and Algorithms, 2002, 20, 23-49.	0.6	24
231	Optimal bounded disorder. Information Processing Letters, 2002, 83, 151-157.	0.4	0
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233	Agents, Crawlers, and Web Retrieval. Lecture Notes in Computer Science, 2002, , 1-9.	1.0	3
234	Searching Large Text Collections. Massive Computing, 2002, , 195-243.	0.4	11

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237	Improving an Algorithm for Approximate Pattern Matching. Algorithmica, 2001, 30, 473-502.	1.0	21
238	Block addressing indices for approximate text retrieval. , 2000, 51, 69-82.		46
239	Compression: a key for next-generation text retrieval systems. Computer, 2000, 33, 37-44.	1.2	101
240	Adding Compression to Block Addressing Inverted Indexes. Information Retrieval, 2000, 3, 49-77.	1.6	82
241	Binary Searching with Nonuniform Costs and Its Application to Text Retrieval. Algorithmica, 2000, 27, 145-169.	1.0	12
242	Fast and flexible word searching on compressed text. ACM Transactions on Information Systems, 2000, 18, 113-139.	3.8	199
243	Very fast and simple approximate string matching. Information Processing Letters, 1999, 72, 65-70.	0.4	40
244	Bounding the Expected Length of Longest Common Subsequences and Forests. Theory of Computing Systems, 1999, 32, 435-452.	0.7	20
245	A New Indexing Method for Approximate String Matching. Lecture Notes in Computer Science, 1999, , 163-185.	1.0	20
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247	Fast searching on compressed text allowing errors. , 1998, , .		39
248	Fast two-dimensional approximate pattern matching. Lecture Notes in Computer Science, 1998, , 341-351.	1.0	7
249	Block addressing indices for approximate text retrieval. , 1997, , .		11
250	Proximal nodes. ACM Transactions on Information Systems, 1997, 15, 400-435.	3.8	100
251	Multiple approximate string matching. Lecture Notes in Computer Science, 1997, , 174-184.	1.0	18
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270	Fast two-dimensional pattern matching. Information Processing Letters, 1993, 45, 51-57.	0.4	28

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