

# Alan J Cain

## List of Publications by Year in descending order

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49  
papers

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citations

1307594

7  
h-index

1281871

11  
g-index

49  
all docs

49  
docs citations

49  
times ranked

53  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automaton semigroups. <i>Theoretical Computer Science</i> , 2009, 410, 5022-5038.	0.9	23
2	Finite Gröbner-Shirshov bases for Plactic algebras and biautomatic structures for Plactic monoids. <i>Journal of Algebra</i> , 2015, 423, 37-53.	0.7	16
3	Automaton semigroup constructions. <i>Semigroup Forum</i> , 2015, 90, 763-774.	0.6	11
4	Subsemigroups of groups: presentations, Malcev presentations, and automatic structures. <i>Journal of Group Theory</i> , 2006, 9, .	0.2	9
5	CONTEXT-FREE REWRITING SYSTEMS AND WORD-HYPERBOLIC STRUCTURES WITH UNIQUENESS. <i>International Journal of Algebra and Computation</i> , 2012, 22, 1250061.	0.5	9
6	Deus ex Machina and the Aesthetics of Proof. <i>Mathematical Intelligencer</i> , 2010, 32, 7-11.	0.2	8
7	Visual thinking and simplicity of proof. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180032.	3.4	8
8	Automaton semigroups: New constructions results and examples of non-automaton semigroups. <i>Theoretical Computer Science</i> , 2017, 674, 1-15.	0.9	7
9	Identities and bases in the hypoplactic monoid. <i>Communications in Algebra</i> , 2022, 50, 146-162.	0.6	7
10	Identities in Plactic, Hypoplactic, Sylvester, Baxter, and Related Monoids. <i>Electronic Journal of Combinatorics</i> , 2018, 25, .	0.4	7
11	Representations and identities of plactic-like monoids. <i>Journal of Algebra</i> , 2022, 606, 819-850.	0.7	7
12	Subsemigroups of virtually free groups: finite Malcev presentations and testing for freeness. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2006, 141, 57.	0.4	6
13	Automatic presentations for semigroups. <i>Information and Computation</i> , 2009, 207, 1156-1168.	0.7	6
14	Green index in semigroups: generators, presentations, and automatic structures. <i>Semigroup Forum</i> , 2012, 85, 448-476.	0.6	6
15	Rewriting systems and biautomatic structures for Chinese, hypoplactic, and sylvester monoids. <i>International Journal of Algebra and Computation</i> , 2015, 25, 51-80.	0.5	6
16	Crystallizing the hypoplactic monoid: from quasi-Kashiwara operators to the Robinson-Schensted-Knuth-type correspondence for quasi-ribbon tableaux. <i>Journal of Algebraic Combinatorics</i> , 2017, 45, 475-524.	0.8	6
17	DECISION PROBLEMS FOR FINITELY PRESENTED AND ONE-RELATION SEMIGROUPS AND MONOIDS. <i>International Journal of Algebra and Computation</i> , 2009, 19, 747-770.	0.5	5
18	The monoids of the patience sorting algorithm. <i>International Journal of Algebra and Computation</i> , 2019, 29, 85-125.	0.5	5

#	ARTICLE	IF	CITATIONS
19	CANCELLATIVE AND MALCEV PRESENTATIONS FOR FINITE REES INDEX SUBSEMIGROUPS AND EXTENSIONS. Journal of the Australian Mathematical Society, 2008, 84, 39-61.	0.4	4
20	Malcev presentations for subsemigroups of direct products of coherent groups. Journal of Pure and Applied Algebra, 2009, 213, 977-990.	0.6	4
21	Deciding conjugacy in sylvester monoids and other homogeneous monoids. International Journal of Algebra and Computation, 2015, 25, 899-915.	0.5	4
22	Malcev presentations for subsemigroups of groups " a survey. , 2007, , 256-268.		4
23	CANCELLATIVITY IS UNDECIDABLE FOR AUTOMATIC SEMIGROUPS. Quarterly Journal of Mathematics, 2006, 57, 285-295.	0.8	3
24	MONOIDS PRESENTED BY REWRITING SYSTEMS AND AUTOMATIC STRUCTURES FOR THEIR SUBMONOIDS. International Journal of Algebra and Computation, 2009, 19, 771-790.	0.5	3
25	Automatic semigroups and Bruck-Reilly extensions. Acta Mathematica Hungarica, 2010, 126, 1-15.	0.5	3
26	Hyperbolicity of monoids presented by confluent monadic rewriting systems. Beitrage Zur Algebra Und Geometrie, 2013, 54, 593-608.	0.5	3
27	Crystal monoids & crystal bases: Rewriting systems and biautomatic structures for plactic monoids of types A, B, C, D, and G2. Journal of Combinatorial Theory - Series A, 2019, 162, 406-466.	0.8	3
28	A GROUP-EMBEDDABLE NON-AUTOMATIC SEMIGROUP WHOSE UNIVERSAL GROUP IS AUTOMATIC. Glasgow Mathematical Journal, 2006, 48, 337.	0.3	2
29	Automatic structures for subsemigroups of Baumslag's "Solitar semigroups. Semigroup Forum, 2013, 87, 537-552.	0.6	2
30	Finitely presented monoids with linear Dehn function need not have regular cross-sections. Semigroup Forum, 2014, 88, 300-315.	0.6	2
31	Markov semigroups, monoids and groups. International Journal of Algebra and Computation, 2014, 24, 609-653.	0.5	2
32	A simple non-bisimple congruence-free finitely presented monoid. Semigroup Forum, 2015, 90, 184-188.	0.6	2
33	Decision problems for word-hyperbolic semigroups. Journal of Algebra, 2016, 465, 287-321.	0.7	2
34	On finite complete rewriting systems, finite derivation type, and automaticity for homogeneous monoids. Information and Computation, 2017, 255, 68-93.	0.7	2
35	Crystals and trees: Quasi-Kashiwara operators, monoids of binary trees, and Robinson's "Schensted-type correspondences. Journal of Algebra, 2018, 502, 347-381.	0.7	2
36	Automatic Presentations for Cancellative Semigroups. Lecture Notes in Computer Science, 2008, , 149-159.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Automatic Presentations and Semigroup Constructions. Theory of Computing Systems, 2010, 47, 568-592.	1.1	1
38	UNARY FA-PRESENTABLE SEMIGROUPS. International Journal of Algebra and Computation, 2012, 22, 1250038.	0.5	1
39	Combinatorics of cyclic shifts in plactic, hypoplactic, sylvester, Baxter, and related monoids. Journal of Algebra, 2019, 535, 159-224.	0.7	1
40	Two applications of monoid actions to cross-sections. Communications in Algebra, 2020, 48, 1894-1903.	0.6	1
41	Context-Free Word Problem Semigroups. Lecture Notes in Computer Science, 2019, , 292-305.	1.3	1
42	Hopfian And Co-Hopfian Subsemigroups And Extensions. Demonstratio Mathematica, 2014, 47, .	1.5	0
43	Subalgebras of FA-presentable algebras. Algebra Universalis, 2014, 72, 101-123.	0.3	0
44	Combinatorics of Cyclic Shifts in Plactic, Hypoplactic, Sylvester, and Related Monoids. Lecture Notes in Computer Science, 2017, , 190-202.	1.3	0
45	GROWTHS OF ENDOMORPHISMS OF FINITELY GENERATED SEMIGROUPS. Journal of the Australian Mathematical Society, 2017, 102, 163-184.	0.4	0
46	Combinatorics of patience sorting monoids. Discrete Mathematics, 2019, 342, 2590-2611.	0.7	0
47	A language hierarchy of binary relations. Information and Computation, 2020, 275, 104607.	0.7	0
48	A countable family of finitely presented infinite congruence-free monoids. Acta Scientiarum Mathematicarum, 2015, 81, 437-445.	0.4	0
49	Reconstructing Young tableaux. Journal of Combinatorial Theory - Series A, 2022, 187, 105578.	0.8	0