

Bruce E Sagan

List of Publications by Year in descending order

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93
papers

1,956
citations

304743

22
h-index

276875

41
g-index

95
all docs

95
docs citations

95
times ranked

705
citing authors

#	ARTICLE	IF	CITATIONS
1	The Symmetric Group. Graduate Texts in Mathematics, 2001, , .	0.5	465
2	The Wiener polynomial of a graph. International Journal of Quantum Chemistry, 1996, 60, 959-969.	2.0	97
3	Shifted tableaux, schur Q-functions, and a conjecture of R. Stanley. Journal of Combinatorial Theory - Series A, 1987, 45, 62-103.	0.8	92
4	Combinatorial Algorithms. Graduate Texts in Mathematics, 2001, , 91-140.	0.5	84
5	A Note on Independent Sets in Trees. SIAM Journal on Discrete Mathematics, 1988, 1, 105-108.	0.8	59
6	A Littlewood-Richardson rule for factorial Schur functions. Transactions of the American Mathematical Society, 1999, 351, 4429-4443.	0.9	54
7	Robinson-schensted algorithms for skew tableaux. Journal of Combinatorial Theory - Series A, 1990, 55, 161-193.	0.8	49
8	Log concave sequences of symmetric functions and analogs of the Jacobi-Trudi determinants. Transactions of the American Mathematical Society, 1992, 329, 795-811.	0.9	49
9	Congruences for Catalan and Motzkin numbers and related sequences. Journal of Number Theory, 2006, 117, 191-215.	0.4	47
10	Inductive and injective proofs of log concavity results. Discrete Mathematics, 1988, 68, 281-292.	0.7	46
11	Möbius Functions of Lattices. Advances in Mathematics, 1997, 127, 94-123.	1.1	42
12	A Chromatic Symmetric Function in Noncommuting Variables. Journal of Algebraic Combinatorics, 2001, 13, 227-255.	0.8	42
13	A maj Statistic for Set Partitions. European Journal of Combinatorics, 1991, 12, 69-79.	0.8	39
14	Inductive proofs of q-log concavity. Discrete Mathematics, 1992, 99, 289-306.	0.7	39
15	A cyclic derivative in noncommutative algebra. Journal of Algebra, 1980, 64, 54-75.	0.7	33
16	Permutation patterns and statistics. Discrete Mathematics, 2012, 312, 2760-2775.	0.7	29
17	Characteristic and Ehrhart Polynomials. Journal of Algebraic Combinatorics, 1998, 7, 115-126.	0.8	27
18	A relative of the Thue-Morse sequence. Discrete Mathematics, 1995, 139, 455-461.	0.7	26

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19	Sinks in Acyclic Orientations of Graphs. Journal of Combinatorial Theory Series B, 2000, 80, 130-146.	1.0	26
20	The Möbius function of a composition poset. Journal of Algebraic Combinatorics, 2006, 24, 117-136.	0.8	25
21	Maximal and maximum independent sets in graphs with at most r cycles. Journal of Graph Theory, 2006, 53, 283-314.	0.9	24
22	Infinite log-concavity: Developments and conjectures. Advances in Applied Mathematics, 2010, 44, 1-15.	0.7	23
23	Basic Derivations for Subarrangements of Coxeter Arrangements. Journal of Algebraic Combinatorics, 1993, 2, 291-320.	0.8	21
24	GCD matrices, posets, and nonintersecting paths. Linear and Multilinear Algebra, 2005, 53, 75-84.	1.0	21
25	Congruences Derived from Group Action. European Journal of Combinatorics, 1980, 1, 67-76.	0.8	19
26	Enumeration of Partitions with Hooklengths. European Journal of Combinatorics, 1982, 3, 85-94.	0.8	19
27	Generalized Fibonacci Polynomials and Fibonomial Coefficients. Annals of Combinatorics, 2014, 18, 541-562.	0.6	19
28	Backbone: An R package for extracting the backbone of bipartite projections. PLoS ONE, 2021, 16, e0244363.	2.5	19
29	Enumeration of trees by inversions. Journal of Graph Theory, 1995, 19, 435-459.	0.9	18
30	On selecting a random shifted young tableau. Journal of Algorithms, 1980, 1, 213-234.	0.9	17
31	Why the characteristic polynomial factors. Bulletin of the American Mathematical Society, 1999, 36, 113-134.	1.5	17
32	A note on Abel polynomials and rooted labeled forests. Discrete Mathematics, 1983, 44, 293-298.	0.7	15
33	Maximizing Möbius functions on subsets of Boolean algebras. Discrete Mathematics, 1994, 126, 293-311.	0.7	15
34	Set partition statistics and $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www. European$	0.8	15
35	Eigenvector and eigenvalues of some special graphs. IV. Multilevel circulants. International Journal of Quantum Chemistry, 1992, 41, 105-116.	2.0	14
36	Mahonian pairs. Journal of Combinatorial Theory - Series A, 2012, 119, 526-545.	0.8	14

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37	Comparing alternatives to the fixed degree sequence model for extracting the backbone of bipartite projections. <i>Scientific Reports</i> , 2021, 11, 23929.	3.3	14
38	Shellability of exponential structures. <i>Order</i> , 1986, 3, 47-54.	0.5	13
39	A NEW NOTION OF TRANSITIVITY FOR GROUPS AND SETS OF PERMUTATIONS. <i>Journal of the London Mathematical Society</i> , 2006, 73, 1-13.	1.0	13
40	Factoring the characteristic polynomial of a lattice. <i>Journal of Combinatorial Theory - Series A</i> , 2015, 136, 39-63.	0.8	13
41	On a rank-unimodality conjecture of Morier-Genoud and Ovsienko. <i>Discrete Mathematics</i> , 2021, 344, 112483.	0.7	13
42	Subspace Arrangements of Type B_n and D_n . <i>Journal of Algebraic Combinatorics</i> , 1996, 5, 291-314.	0.8	12
43	Partition Lattice q -Analogues Related to q -Stirling Numbers. <i>Journal of Algebraic Combinatorics</i> , 1994, 3, 261-283.	0.8	11
44	Left-Modular Elements of Lattices. <i>Journal of Combinatorial Theory - Series A</i> , 2000, 91, 369-385.	0.8	11
45	Maximal independent sets in graphs with at most r cycles. <i>Journal of Graph Theory</i> , 2006, 53, 270-282.	0.9	11
46	What power of two divides a weighted Catalan number?. <i>Journal of Combinatorial Theory - Series A</i> , 2007, 114, 970-977.	0.8	11
47	Pattern Frequency Sequences and Internal Zeros. <i>Advances in Applied Mathematics</i> , 2002, 28, 395-420.	0.7	10
48	Inversion polynomials for 321-avoiding permutations. <i>Discrete Mathematics</i> , 2013, 313, 2552-2565.	0.7	10
49	Antipodes and involutions. <i>Journal of Combinatorial Theory - Series A</i> , 2017, 148, 275-315.	0.8	10
50	Discrete Morse theory and the consecutive pattern poset. <i>Journal of Algebraic Combinatorics</i> , 2012, 36, 501-514.	0.8	9
51	On meteors, earthworms and WIMPs. <i>Annals of Applied Probability</i> , 2015, 25, .	1.3	9
52	The Möbius function of generalized subword order. <i>Advances in Mathematics</i> , 2012, 229, 2741-2766.	1.1	8
53	On 021-Avoiding Ascent Sequences. <i>Electronic Journal of Combinatorics</i> , 2013, 20, .	0.4	8
54	Bounding quantities related to the packing density of $1(\hat{a}, +1)\hat{a}, \hat{a}^2$. <i>Advances in Applied Mathematics</i> , 2004, 33, 633-653.	0.7	7

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55	Congruences via abelian groups. <i>Journal of Number Theory</i> , 1985, 20, 210-237.	0.4	6
56	Subspace arrangements of type B_n and D_n . <i>Journal of Algebraic Combinatorics</i> , 1996, 5, 291-314.	0.8	6
57	Rationality of the Möbius function of a composition poset. <i>Theoretical Computer Science</i> , 2006, 359, 282-298.	0.9	6
58	Descent polynomials. <i>Discrete Mathematics</i> , 2019, 342, 1674-1686.	0.7	6
59	A generalization of semiconductor supersolvable lattices. <i>Journal of Combinatorial Theory - Series A</i> , 1995, 72, 209-231.	0.8	5
60	Combinatorial Interpretations of Binomial Coefficient Analogues Related to Lucas Sequences. <i>Integers</i> , 2010, 10, .	0.3	5
61	<small>Counting $<math>S_n</math>$</small> $\sum_{n=0}^{\infty} S_n x^n = \prod_{i=1}^{\infty} (1-x^i)^{-1}$	0.8	4
62	Restricted growth function patterns and statistics. <i>Advances in Applied Mathematics</i> , 2018, 100, 1-42.	0.7	4
63	Increasing spanning forests in graphs and simplicial complexes. <i>European Journal of Combinatorics</i> , 2019, 76, 178-198.	0.8	4
64	Rationality, Irrationality, and Wilf Equivalence in Generalized Factor Order. <i>Electronic Journal of Combinatorics</i> , 2009, 16, .	0.4	4
65	Set partition patterns and statistics. <i>Discrete Mathematics</i> , 2016, 339, 1-16.	0.7	3
66	On the $1/3 \leq 2/3$ Conjecture. <i>Order</i> , 2018, 35, 581-596.	0.5	3
67	Pattern-avoiding polytopes. <i>European Journal of Combinatorics</i> , 2018, 74, 48-84.	0.8	3
68	Combinatorial Interpretations of Lucas Analogues of Binomial Coefficients and Catalan Numbers. <i>Annals of Combinatorics</i> , 2020, 24, 503-530.	0.6	3
69	Pinnacle set properties. <i>Discrete Mathematics</i> , 2022, 345, 112882.	0.7	3
70	An algorithmic sign-reversing involution for special rim-hook tableaux. <i>Journal of Algorithms</i> , 2006, 59, 149-161.	0.9	2
71	Compositions inside a rectangle and unimodality. <i>Journal of Algebraic Combinatorics</i> , 2009, 29, 405-411.	0.8	2
72	m-Level rook placements. <i>Journal of Combinatorial Theory - Series A</i> , 2014, 124, 130-165.	0.8	2

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73	Bijjective proofs of shuffle compatibility results. <i>Advances in Applied Mathematics</i> , 2020, 113, 101973.	0.7	2
74	Pattern avoidance and quasisymmetric functions. <i>Algebraic Combinatorics</i> , 2020, 3, 365-388.	0.3	2
75	A polyhedral proof of a wreath product identity. <i>Electronic Journal of Combinatorics</i> , 2019, 10, 711-723.	0.1	2
76	Two injective proofs of a conjecture of Simion. <i>Journal of Combinatorial Theory - Series A</i> , 2003, 102, 212-216.	0.8	1
77	Topological properties of activity orders for matroid bases. <i>Journal of Combinatorial Theory Series B</i> , 2005, 94, 101-116.	1.0	1
78	Counting permutations by congruence class of major index. <i>Advances in Applied Mathematics</i> , 2007, 39, 269-281.	0.7	1
79	Bijections on m-level rook placements. <i>European Journal of Combinatorics</i> , 2016, 57, 13-35.	0.8	1
80	Longest Increasing Subsequences and Log Concavity. <i>Annals of Combinatorics</i> , 2017, 21, 535-549.	0.6	1
81	Revisiting Pattern Avoidance and Quasisymmetric Functions. <i>Annals of Combinatorics</i> , 2020, 24, 337-361.	0.6	1
82	Bijjective Proofs of Proper Coloring Theorems. <i>American Mathematical Monthly</i> , 2021, 128, 483-499.	0.3	1
83	Bijjective proofs of certain vector partition identities. <i>Pacific Journal of Mathematics</i> , 1982, 102, 171-178.	0.5	1
84	Cyclic pattern containment and avoidance. <i>Advances in Applied Mathematics</i> , 2022, 135, 102320.	0.7	1
85	10357. <i>American Mathematical Monthly</i> , 1997, 104, 177.	0.3	0
86	Monomial bases for broken circuit complexes. <i>European Journal of Combinatorics</i> , 2009, 30, 1786-1800.	0.8	0
87	Descent sets for symplectic groups. <i>Journal of Algebraic Combinatorics</i> , 2014, 40, 187-208.	0.8	0
88	Dihedral transportation and $(0, 1)$ -matrix classes. <i>Linear and Multilinear Algebra</i> , 2018, 66, 2557-2568.	1.0	0
89	The Amazing Chromatic Polynomial. <i>Mathematical Intelligencer</i> , 0, , 1.	0.2	0
90	Backbone: An R package for extracting the backbone of bipartite projections. , 2021, 16, e0244363.		0

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91	Backbone: An R package for extracting the backbone of bipartite projections. , 2021, 16, e0244363.		0
92	Backbone: An R package for extracting the backbone of bipartite projections. , 2021, 16, e0244363.		0
93	Backbone: An R package for extracting the backbone of bipartite projections. , 2021, 16, e0244363.		0