

Karl Dilcher

List of Publications by Year in descending order

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73
papers

775
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687220

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26
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all docs

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73
times ranked

228
citing authors

#	ARTICLE	IF	CITATIONS
1	Sums of Products of Bernoulli Numbers. <i>Journal of Number Theory</i> , 1996, 60, 23-41.	0.2	105
2	A search for Wieferich and Wilson primes. <i>Mathematics of Computation</i> , 1997, 66, 433-450.	1.1	90
3	Convolution identities and lacunary recurrences for Bernoulli numbers. <i>Journal of Number Theory</i> , 2007, 124, 105-122.	0.2	60
4	Some q-series identities related to divisor functions. <i>Discrete Mathematics</i> , 1995, 145, 83-93.	0.4	46
5	Fermat Quotients for Composite Moduli. <i>Journal of Number Theory</i> , 1997, 66, 29-50.	0.2	36
6	A POLYNOMIAL ANALOGUE TO THE STERN SEQUENCE. <i>International Journal of Number Theory</i> , 2007, 03, 85-103.	0.2	27
7	Asymptotic behaviour of Bernoulli, Euler, and generalized Bernoulli polynomials. <i>Journal of Approximation Theory</i> , 1987, 49, 321-330.	0.5	25
8	Resultants and discriminants of Chebyshev and related polynomials. <i>Transactions of the American Mathematical Society</i> , 2004, 357, 965-981.	0.5	25
9	Generalized Euler constants for arithmetical progressions. <i>Mathematics of Computation</i> , 1992, 59, 259-282.	1.1	24
10	Shortened recurrence relations for Bernoulli numbers. <i>Discrete Mathematics</i> , 2009, 309, 887-898.	0.4	24
11	Higher-order recurrences for Bernoulli numbers. <i>Journal of Number Theory</i> , 2009, 129, 1837-1847.	0.2	21
12	Reciprocity Relations for Bernoulli Numbers. <i>American Mathematical Monthly</i> , 2008, 115, 237-244.	0.2	16
13	General convolution identities for Bernoulli and Euler polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2016, 435, 1478-1498.	0.5	16
14	On generalized gamma functions related to the Laurent coefficients of the Riemann zeta function. <i>Aequationes Mathematicae</i> , 1994, 48, 55-85.	0.4	14
15	Higher-order convolutions for Bernoulli and Euler polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 419, 1235-1247.	0.5	14
16	Zeros of the Wronskian of a polynomial. <i>Journal of Mathematical Analysis and Applications</i> , 1991, 162, 430-451.	0.5	13
17	Stern polynomials and double-limit continued fractions. <i>Acta Arithmetica</i> , 2009, 140, 119-134.	0.2	13
18	A Pascal-Type Triangle Characterizing Twin Primes. <i>American Mathematical Monthly</i> , 2005, 112, 673.	0.2	12

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19	Mod p^3 analogues of theorems of Gauss and Jacobi on binomial coefficients. Acta Arithmetica, 2010, 142, 103-118.	0.2	12
20	The zeros of a certain family of trinomials. Glasgow Mathematical Journal, 1992, 34, 55-74.	0.2	11
21	Integrals of products of Bernoulli polynomials. Journal of Mathematical Analysis and Applications, 2011, 381, 10-16.	0.5	11
22	Derivatives and fast evaluation of the Tornheim zeta function. Ramanujan Journal, 2018, 45, 413-432.	0.4	11
23	On a class of nonlinear differential operators acting on polynomials. Journal of Mathematical Analysis and Applications, 1992, 170, 382-400.	0.5	9
24	Divisibility properties of a class of binomial sums. Journal of Number Theory, 2006, 120, 349-371.	0.2	9
25	Wilson quotients for composite moduli. Mathematics of Computation, 1998, 67, 843-862.	1.1	8
26	THE MULTIPLICATIVE ORDERS OF CERTAIN GAUSS FACTORIALS. International Journal of Number Theory, 2011, 07, 145-171.	0.2	8
27	An inequality for sections of certain power series. Archiv Der Mathematik, 1993, 60, 339-344.	0.3	7
28	A New Criterion for the First Case of Fermat's Last Theorem. Mathematics of Computation, 1995, 64, 363.	1.1	7
29	A generalization of the Eneström-Kakeya theorem. Journal of Mathematical Analysis and Applications, 1986, 116, 473-488.	0.5	6
30	Zeros of Iterated Integrals of Polynomials. Canadian Journal of Mathematics, 1995, 47, 65-87.	0.3	6
31	Arithmetic Properties of Bernoulli- ℓ -adic Numbers and Polynomials. Journal of Number Theory, 2002, 92, 330-347.	0.2	6
32	An Introduction to Gauss Factorials. American Mathematical Monthly, 2011, 118, 812.	0.2	6
33	A Pascal-Type Triangle Characterizing Twin Primes. American Mathematical Monthly, 2005, 112, 673-681.	0.2	5
34	On the Roots of Expected Independence Polynomials. Journal of Graph Theory, 2013, 73, 322-326.	0.5	5
35	An explicit form of the polynomial part of a restricted partition function. Research in Number Theory, 2017, 3, 1.	0.1	5
36	Hyperbinary Expansions and Stern Polynomials. Electronic Journal of Combinatorics, 2015, 22, .	0.2	5

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37	On multiple zeros of Bernoulli polynomials. <i>Acta Arithmetica</i> , 2008, 134, 149-155.	0.2	5
38	Real Wronskian zeros of polynomials with nonreal zeros. <i>Journal of Mathematical Analysis and Applications</i> , 1991, 154, 164-183.	0.5	4
39	Zeros of Sections of Divergent Power Series. <i>Journal of Mathematical Analysis and Applications</i> , 1996, 198, 98-110.	0.5	4
40	An Extension of Fermat's Little Theorem, and Congruences for Stirling Numbers. <i>American Mathematical Monthly</i> , 2000, 107, 936-940.	0.2	4
41	The Gauss-Wilson theorem for quarter-intervals. <i>Acta Mathematica Hungarica</i> , 2014, 142, 199-230.	0.3	4
42	On finite pattern-free sets of integers. <i>Acta Arithmetica</i> , 2006, 121, 313-325.	0.2	4
43	Generalized Stern polynomials and hyperbinary representations. <i>Bulletin of the Polish Academy of Sciences Mathematics</i> , 2017, 65, 11-28.	0.4	4
44	A binomial sum related to Wolstenholme's theorem. <i>Journal of Number Theory</i> , 2009, 129, 2659-2672.	0.2	3
45	Convolution Identities for Stirling Numbers of the First Kind. <i>Integers</i> , 2010, 10, .	0.3	3
46	Identities for Bernoulli polynomials related to multiple Tornheim zeta functions. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 476, 569-584.	0.5	3
47	Nested Squares and Evaluations of Integer Products. <i>Experimental Mathematics</i> , 2000, 9, 369-372.	0.5	2
48	On a sequence of sparse binomial-type polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 398, 128-137.	0.5	2
49	On a congruence of Emma Lehmer related to Euler numbers. <i>Acta Arithmetica</i> , 2013, 161, 47-67.	0.2	2
50	Polynomials Related to Expansions of Certain Rational Functions in Two Variables. <i>SIAM Journal on Mathematical Analysis</i> , 1988, 19, 473-483.	0.9	1
51	An Extension of Fermat's Little Theorem, and Congruences for Stirling Numbers. <i>American Mathematical Monthly</i> , 2000, 107, 936.	0.2	1
52	Dedekind Sums and Uniform Distributions. <i>American Mathematical Monthly</i> , 2002, 109, 279.	0.2	1
53	Dedekind Sums and Uniform Distributions. <i>American Mathematical Monthly</i> , 2002, 109, 279-284.	0.2	1
54	Convolution and Reciprocity Formulas for Bernoulli Polynomials. <i>Integers</i> , 2011, 11, .	0.3	1

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55	A role for generalized Fermat numbers. <i>Mathematics of Computation</i> , 2016, 86, 899-933.	1.1	1
56	Continued fractions and Stern polynomials. <i>Ramanujan Journal</i> , 2018, 45, 659-681.	0.4	1
57	Infinite products involving Dirichlet characters and cyclotomic polynomials. <i>Advances in Applied Mathematics</i> , 2018, 100, 43-70.	0.4	1
58	Properties of Multivariate $\{\vec{b}\}$ -Ary Stern Polynomials. <i>Annals of Combinatorics</i> , 2019, 23, 695-711.	0.3	1
59	Orthogonal polynomials and Hankel determinants for certain Bernoulli and Euler polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 497, 124855.	0.5	1
60	Hankel determinants of sequences related to Bernoulli and Euler polynomials. <i>International Journal of Number Theory</i> , 2022, 18, 331-359.	0.2	1
61	Continued fractions and polynomials related to hyperbinary representations. <i>Bulletin of the Polish Academy of Sciences Mathematics</i> , 2018, 66, 9-29.	0.4	1
62	Nonlinear Identities for Bernoulli and Euler Polynomials. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020, , 369-376.	0.1	1
63	Sums of reciprocals modulo composite integers. <i>Journal of Number Theory</i> , 2013, 133, 3565-3577.	0.2	0
64	Zeros and irreducibility of polynomials with gcd powers as coefficients. <i>Ramanujan Journal</i> , 2015, 36, 227-236.	0.4	0
65	The Polynomials of Mahler and Roots of Unity. <i>American Mathematical Monthly</i> , 2015, 122, 338.	0.2	0
66	Euler and the Strong Law of Small Numbers. <i>American Mathematical Monthly</i> , 2016, 123, 486.	0.2	0
67	Analogues of the binomial coefficient theorems of Gauss and Jacobi. <i>International Journal of Number Theory</i> , 2016, 12, 2125-2145.	0.2	0
68	Nonlinear recurrences related to Chebyshev polynomials. <i>Ramanujan Journal</i> , 2016, 41, 147-169.	0.4	0
69	Polynomial analogues of restricted multicolor b-ary partition functions. <i>International Journal of Number Theory</i> , 2021, 17, 371-391.	0.2	0
70	Arithmetic properties of polynomial solutions of the Diophantine equation $\mathbb{P}(x)x^{n+1}+Q(x)(x+1)^{n+1}=1$. <i>Periodica Mathematica Hungarica</i> , 2022, 84, 89-118.	0.5	0
71	Some properties of a class of sparse polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 505, 125449.	0.5	0
72	Analytic Continuations of Character and Alternating Tornheim Zeta Functions. <i>American Mathematical Monthly</i> , 2021, 128, 780-795.	0.2	0

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73	The Powers of Certain Number-Theoretic Matrices. American Mathematical Monthly, 0, , 1-20.	0.2	0