Chao-Ping Chen

List of Publications by Year
in descending order

105 papers	1,143 citations	471371 17 h-index	477173 29 g-index
105 all docs	105 docs citations	105 times ranked	163 citing authors

#	ARTICLE	IF	CITATIONS
1	A complete monotonicity property of the gamma function. Journal of Mathematical Analysis and Applications, 2004, 296, 603-607.	0.5	125
2	Some completely monotonic functions involving the gamma and polygamma functions. Journal of the Australian Mathematical Society, 2006, 80, 81-88.	0.3	65
3	Some completely monotonic functions involving polygamma functions and an application. Journal of Mathematical Analysis and Applications, 2005, 310, 303-308.	0.5	59
4	New sequence converging towards the Euler–Mascheroni constant. Computers and Mathematics With Applications, 2012, 64, 391-398.	1.4	46
5	Logarithmically completely monotonic functions relating to the gamma function. Journal of Mathematical Analysis and Applications, 2006, 321, 405-411.	0.5	45
6	The best bounds in Wallis' inequality. Proceedings of the American Mathematical Society, 2004, 133, 397-401.	0.4	39
7	Asymptotic formulae associated with the Wallis power function and digamma function. Journal of Classical Analysis, 2013, , 151-166.	0.1	39
8	Some properties of functions related to the gamma and psi functions. Integral Transforms and Special Functions, 2010, 21, 153-164.	0.8	34
9	Inequalities, asymptotic expansions and completely monotonic functions related to the gamma function. Applied Mathematics and Computation, 2015, 250, 514-529.	1.4	31
10	Inequalities for the Euler–Mascheroni constant. Applied Mathematics Letters, 2010, 23, 161-164.	1.5	27
11	Completely monotonic function associated with the Gamma functions and proof of Wallis' inequality. Tamkang Journal of Mathematics, 2005, 36, 303-307.	0.3	26
12	Remarks on asymptotic expansions for the gamma function. Applied Mathematics Letters, 2012, 25, 2322-2326.	1.5	24
13	Unified treatment of several asymptotic formulas for the gamma function. Numerical Algorithms, 2013, 64, 311-319.	1.1	22
14	Wilker- and Huygens-type inequalities and solution to Oppenheim's problem. Integral Transforms and Special Functions, 2012, 23, 325-336.	0.8	21
15	Sharp Wilker- and Huygens-type inequalities for inverse trigonometric and inverse hyperbolic functions. Integral Transforms and Special Functions, 2012, 23, 865-873.	0.8	21
16	Asymptotic expansions of the gamma function related to Windschitl's formula. Applied Mathematics and Computation, 2014, 245, 174-180.	1.4	19
17	Complete monotonicity and logarithmically complete monotonicity properties for the gamma and psi functions. Journal of Mathematical Analysis and Applications, 2007, 336, 812-822.	0.5	18
18	Some inequalities and monotonicity properties associated with the gamma and psi functions and the BarnesG-function. Integral Transforms and Special Functions, 2011, 22, 1-15.	0.8	16

#	ARTICLE	IF	CITATIONS
19	On the harmonic number expansion by Ramanujan. Journal of Inequalities and Applications, 2013, 2013, .	0.5	16
20	A more accurate approximation for the gamma function. Journal of Number Theory, 2016, 164, 417-428.	0.2	16
21	Glaisher–Kinkelin constant. Integral Transforms and Special Functions, 2012, 23, 785-792.	0.8	15
22	Ramanujan's asymptotic expansion for the harmonic numbers. Ramanujan Journal, 2015, 38, 123-128.	0.4	15
23	The monotonicity of the ratio between generalized logarithmic means. Journal of Mathematical Analysis and Applications, 2008, 345, 86-89.	0.5	13
24	Inequalities and monotonicity properties for the psi (or digamma) function and estimates for the Euler–Mascheroni constant. Integral Transforms and Special Functions, 2011, 22, 681-693.	0.8	13
25	Asymptotic expansions for Barnes G -function. Journal of Number Theory, 2014, 135, 36-42.	0.2	13
26	On the coefficients of asymptotic expansion for the harmonic number by Ramanujan. Ramanujan Journal, 2016, 40, 279-290.	0.4	13
27	Inequalities and Monotonicity properties for some special functions. Journal of Mathematical Inequalities, 2009, , 79-91.	0.5	13
28	Inequalities and asymptotic expansions for the gamma function. Journal of Number Theory, 2015, 149, 313-326.	0.2	12
29	Inequalities associated with Barnes G-function. , 2011, 29, 119-125.		11
30	Inequalities and asymptotic expansions associated with the Ramanujan and Nemes formulas for the gamma function. Applied Mathematics and Computation, 2015, 261, 337-350.	1.4	11
31	Approximation formulas for Landau¼s constants. Journal of Mathematical Analysis and Applications, 2012, 387, 916-919.	0.5	10
32	Asymptotic expansions related to Glaisher–Kinkelin constant based on the Bell polynomials. Journal of Number Theory, 2013, 133, 2699-2705.	0.2	10
33	Some inequalities and monotonicity properties associated with the gamma and psi functions. Applied Mathematics and Computation, 2012, 218, 8217-8225.	1.4	9
34	Inequalities and asymptotic expansions for the constants of Landau and Lebesgue. Applied Mathematics and Computation, 2014, 248, 610-624.	1.4	9
35	Shafer-type inequalities for inverse trigonometric functions and Gauss lemniscate functions. Journal of Inequalities and Applications, 2016, 2016, .	0.5	9
36	Inequalities related to certain inverse trigonometric and inverse hyperbolic functions. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2020, 114, 1.	0.6	9

#	ARTICLE	IF	CITATIONS
37	Asymptotic formulas for the gamma function by Gosper. Journal of Mathematical Inequalities, 2015, , 541-551.	0.5	9
38	Monotonicity properties of functions related to the psi function. Applied Mathematics and Computation, 2010, 217, 2905-2911.	1.4	8
39	New asymptotic expansions related to SomosÊ¼ quadratic recurrence constant. Comptes Rendus Mathematique, 2013, 351, 9-12.	0.1	8
40	Asymptotic expansions of the Glaisherâ€"Kinkelin and Choiâ€"Srivastava constants. Journal of Number Theory, 2014, 144, 105-110.	0.2	8
41	On Somos' quadratic recurrence constant. Journal of Number Theory, 2016, 166, 31-40.	0.2	8
42	A class of two-sided inequalities involving the psi and polygamma functions. Integral Transforms and Special Functions, 2010, 21, 523-528.	0.8	7
43	New representations for the Lugo and Eulerâ€"Mascheroni constants. Applied Mathematics Letters, 2011, 24, 1239-1244.	1.5	7
44	Inequalities for the Volume of the Unit Ball in $${\mathbb{R}^{n}}$$ R n. Mediterranean Journal of Mathematics, 2014, 11, 299-314.	0.4	7
45	Stirling expansions into negative powers of a triangular number. Ramanujan Journal, 2016, 39, 107-116.	0.4	7
46	A sharp version of Ramanujanâ€™s inequality for the factorial function. Ramanujan Journal, 2016, 39, 149-154.	0.4	7
47	Inequalities and asymptotic expansions for the psi function and the Eulerâ€"Mascheroni constant. Journal of Number Theory, 2016, 163, 596-607.	0.2	7
48	Several identities containing central binomial coefficients and derived from series expansions of powers of the arcsine function. Results in Nonlinear Analysis, 2021, 4, 57-64.	0.3	7
49	Extension of an Inequality of H. Alzer for Negative Powers. Tamkang Journal of Mathematics, 2005, 36, 69-72.	0.3	7
50	Sharp bounds for the Landau constants. Ramanujan Journal, 2013, 31, 301-313.	0.4	6
51	An Asymptotic Formula for (1 + 1/*x*)*^x* Based on the Partition Function. American Mathematical Monthly, 2014, 121, 338.	0.2	6
52	Asymptotic expansions for the constants of Landau and Lebesgue. Advances in Mathematics, 2014, 254, 622-641.	0.5	6
53	Sharp inequalities and asymptotic expansion associated with the Wallis sequence. Journal of Inequalities and Applications, 2015, 2015, .	0.5	6
54	Unified treatment of several asymptotic expansions concerning some mathematical constants. Applied Mathematics and Computation, 2017, 305, 348-363.	1.4	6

#	ARTICLE	IF	CITATIONS
55	Approximations to inverse tangent function. Journal of Inequalities and Applications, 2018, 2018, 141.	0.5	6
56	Note on weighted Carleman-type inequality. International Journal of Mathematics and Mathematical Sciences, 2005, 2005, 475-481.	0.3	5
57	Some properties of functions related to the gamma, psi and tetragamma functions. Computers and Mathematics With Applications, 2011, 62, 3389-3395.	1.4	5
58	Continued fraction estimates for the psi function. Applied Mathematics and Computation, 2013, 219, 9865-9871.	1.4	4
59	Limits and inequalities associated with the Euler–Mascheroni constant. Applied Mathematics and Computation, 2013, 219, 9755-9761.	1.4	4
60	Inequalities and asymptotic expansions associated with the Wallis sequence. Journal of Inequalities and Applications, 2014, 2014, .	0.5	4
61	Inequalities and completely monotonic functions associated with the ratios of functions resulting from the gamma function. Applied Mathematics and Computation, 2015, 259, 790-799.	1.4	4
62	Monotonicity properties, inequalities and asymptotic expansions associated with the gamma function. Applied Mathematics and Computation, 2016, 283, 385-396.	1.4	4
63	Padé approximant related to asymptotics for the gamma function. Journal of Inequalities and Applications, 2017, 2017, 53.	0.5	4
64	Ramanujan's formula for the harmonic number. Applied Mathematics and Computation, 2018, 317, 121-128.	1.4	4
65	Inequalities and asymptotic expansions related to the generalized Somos quadratic recurrence constant. Journal of Inequalities and Applications, 2018, 2018, 147.	0.5	4
66	Complete asymptotic expansions for the density function of t-distribution. Statistics and Probability Letters, 2018, 141, 1-6.	0.4	4
67	On the Ramanujan Harmonic Number Expansion. Results in Mathematics, 2019, 74, 1.	0.4	4
68	New inequalities for the volume of the unit ball in $\mathbb{R}^n$. Journal of Mathematical Inequalities, 2017, , 527-542.	0.5	4
69	New representations for the Lugo and Euler–Mascheroni constants. II. Applied Mathematics Letters, 2012, 25, 333-338.	1.5	3
70	Two infinite product formulas with two parameters. Integral Transforms and Special Functions, 2013, 24, 357-363.	0.8	3
71	New bounds and asymptotic expansions for the constants of Landau and Lebesgue. Applied Mathematics and Computation, 2014, 242, 790-799.	1.4	3
72	Asymptotic expansions and completely monotonic functions associated with the gamma, psi and polygamma functions. Applied Mathematics and Computation, 2015, 269, 232-241.	1.4	3

#	Article	IF	Citations
73	Sharp inequalities and asymptotic expansions for the gamma function. Journal of Number Theory, 2016, 160, 418-431.	0.2	3
74	Inequalities and asymptotic expansions for the gamma function related to Mortici's formula. Journal of Number Theory, 2016, 162, 578-588.	0.2	3
75	Asymptotic expansions and continued fraction approximations for harmonic numbers. Applicable Analysis and Discrete Mathematics, 2019, 13, 569-582.	0.3	3
76	Generalization of an inequality of Alzer for negative powers. Tamkang Journal of Mathematics, 2005, 36, 219-222.	0.3	3
77	Note on Alzer's inequality. Tamkang Journal of Mathematics, 2006, 37, 11-14.	0.3	3
78	90.42 Extension of an inequality of H. Alzer. Mathematical Gazette, 2006, 90, 293-295.	0.0	2
79	Generalizations of two infinite product formulas. Integral Transforms and Special Functions, 2014, 25, 547-551.	0.8	2
80	Inequalities and asymptotics for the Euler–Mascheroni constant based on DeTemple's result. Numerical Algorithms, 2016, 73, 761-774.	1.1	2
81	Padé approximant related to the Wallis formula. Journal of Inequalities and Applications, 2017, 2017, 132.	0.5	2
82	Sharp inequalities and asymptotic series related to Somos' quadratic recurrence constant. Journal of Number Theory, 2017, 172, 145-159.	0.2	2
83	Series Representations of the Remainders in the Expansions for Certain Functions with Applications. Results in Mathematics, 2017, 71, 1443-1457.	0.4	2
84	The median of gamma distribution and a related Ramanujan sequence. Ramanujan Journal, 2017, 44, 75-88.	0.4	2
85	Padé Approximant Related to Ramanujan's Formula for the Gamma Function. Results in Mathematics, 2018, 73, 1.	0.4	2
86	Inequalities and Asymptotic Expansions Related to the Volume of the Unit Ball in $$\pmb {\mathbb {R}}^{{{\varvec{n}}}}$$ R n. Results in Mathematics, 2019, 74, 1.	0.4	2
87	A method to construct continued-fraction approximations and its applications. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	0.6	2
88	Approximation formulas and inequalities for the Euler-Mascheroni constant. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	0.6	2
89	Sharp form of inequality for the constant e. Carpathian Journal of Mathematics, 2011, 27, 185-191.	0.4	2
90	Inequalities involving gamma and digamma functions. Studia Scientiarum Mathematicarum Hungarica, 2014, 51, 520-529.	0.1	1

#	Article	IF	Citations
91	On the asymptotic expansions of the gamma function related to the Nemes, Gosper and Burnside formulas. Applied Mathematics and Computation, 2016, 276, 417-431.	1.4	1
92	On the asymptotics of products related to generalizations of the Wilf and Mortini problems. Integral Transforms and Special Functions, 2016, 27, 281-288.	0.8	1
93	Sharp inequalities and asymptotic series of a product related to the Euler–Mascheroni constant. Journal of Number Theory, 2016, 165, 314-323.	0.2	1
94	On the asymptotic expansions of products related to the Wallis, Weierstrass, and Wilf formulas. Applied Mathematics and Computation, 2017, 293, 30-39.	1.4	1
95	Padé approximant related to inequalities involving the constant e and a generalized Carleman-type inequality. Journal of Inequalities and Applications, 2017, 2017, 205.	0.5	1
96	Sharp Inequalities Involving $$(n!)^{1/n}$$ (n !) 1 / n. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.4	1
97	Asymptotic series related to Ramanujan's expansion for the harmonic number. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2019, 129, 1.	0.2	1
98	Asymptotic results of the remainders in the series representations for the Apéry constant. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2022, 116, 1.	0.6	1
99	Sharp inequalities for the harmonic numbers. Carpathian Journal of Mathematics, 2012, 28, 223-229.	0.4	1
100	Series representations of the remainders in the expansions for certain trigonometric functions and some related inequalities, II. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2022, 116, .	0.6	1
101	A note on monotonicity for generalized weighted mean values. International Journal of Mathematical Education in Science and Technology, 2004, 35, 415-418.	0.8	0
102	Approximation formulas related to Somos' quadratic recurrence constant. Journal of Inequalities and Applications, 2018, 2018, 266.	0.5	0
103	Approximation formulas for the constant e and an improvement to a Carleman-type inequality. Journal of Mathematical Analysis and Applications, 2018, 466, 711-725.	0.5	0
104	Complete asymptotic expansions related to the probability density function of the χ2-distribution. Applicable Analysis and Discrete Mathematics, 2022, 16, 218-231.	0.3	0
105	Some properties of the remainders in certain series representations for the constant $$pi $$. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2022, 116, .	0.6	0