Cristinel Mortici

List of Publications by Year
in descending order

95	1,703	218677	315739
papers	citations	26 h-index	38 g-index

95	95	95	222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Product Approximations via Asymptotic Integration. American Mathematical Monthly, 2010, 117, 434.	0.3	130
2	A continued fraction approximation of the gamma function. Journal of Mathematical Analysis and Applications, 2013, 402, 405-410.	1.0	74
3	New approximations of the gamma function in terms of the digamma function. Applied Mathematics Letters, 2010, 23, 97-100.	2.7	72
4	A new Stirling series as continued fraction. Numerical Algorithms, 2011, 56, 17-26.	1.9	64
5	An ultimate extremely accurate formula for approximation of the factorial function. Archiv Der Mathematik, 2009, 93, 37-45.	0.5	61
6	On new sequences converging towards the Eulerâ€“Mascheroni constant. Computers and Mathematics With Applications, 2010, 59, 2610-2614.	2.7	58
7	Very accurate estimates of the polygamma functions. Asymptotic Analysis, 2010, 68, 125-134.	0.5	57
8	OPTIMIZING THE RATE OF CONVERGENCE IN SOME NEW CLASSES OF SEQUENCES CONVERGENT TO EULER'S CONSTANT. Analysis and Applications, 2010, 08, 99-107.	2.2	49
9	New improvements of the Stirling formula. Applied Mathematics and Computation, 2010, 217, 699-704.	2.2	48
10	New sequence converging towards the Eulerâ€“Mascheroni constant. Computers and Mathematics With Applications, 2012, 64, 391-398.	2.7	46
11	New approximation formulas for evaluating the ratio of gamma functions. Mathematical and Computer Modelling, 2010, 52, 425-433.	2.0	45
12	Improved convergence towards generalized Eulerâ€“Mascheroni constant. Applied Mathematics and Computation, 2010, 215, 3443-3448.	2.2	45
13	Best estimates of the generalized Stirling formula. Applied Mathematics and Computation, 2010, 215, 4044-4048.	2.2	40
14	Sharp inequalities related to Gosper's formula. Comptes Rendus Mathematique, 2010, 348, 137-140.	0.3	38
15	Improved asymptotic formulas for the gamma function. Computers and Mathematics With Applications, 2011, 61, 3364-3369.	2.7	38
16	On a functional equation of trigonometric type. Applied Mathematics and Computation, 2015, 252, 294-303.	2.2	37
17	On the Stability of a Functional Equation Associated with the Fibonacci Numbers. Abstract and Applied Analysis, 2014, 2014, 1-6.	0.7	35
18	A class of integral approximations for the factorial function. Computers and Mathematics With Applications, 2010, 59, 2053-2058.	2.7	34

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19	Ramanujan formula for the generalized Stirling approximation. Applied Mathematics and Computation, 2010, 217, 2579-2585.	2.2	32
20	The natural algorithmic approach of mixed trigonometric-polynomial problems. Journal of Inequalities and Applications, 2017, 2017, 116.	1.1	29
21	On Gospers formula for the Gamma function. Journal of Mathematical Inequalities, 2011, , 611-614.	0.9	29
22	On Ramanujanâ€™s large argument formula for the Gamma function. Ramanujan Journal, 2011, 26, 185-192.	0.7	28
23	Refinements of Jordanâ€“SteÄkin and Beckerâ€“Stark Inequalities. Results in Mathematics, 2015, 67, 207-215.	0.8	28
24	New approximations of some expressions involving trigonometric functions. Applied Mathematics and Computation, 2016, 283, 299-315.	2.2	28
25	Ramanujanâ€™s estimate for the gamma function via monotonicity arguments. Ramanujan Journal, 2011, 25, 149-154.	0.7	26
26	A new fast asymptotic series for the gamma function. Ramanujan Journal, 2015, 38, 549-559.	0.7	26
27	A subtly analysis of Wilker inequality. Applied Mathematics and Computation, 2014, 231, 516-520.	2.2	25
28	Monotonicity properties of the volume of the unit ball in $${mathbb{R}^{n}}$$. Optimization Letters, 2010, 4, 457-464.	1.6	24
29	Fast convergences towards Euler-Mascheroni constant. Computational and Applied Mathematics, 2010, 29, .	2.2	24
30	Some best approximation formulas and inequalities for the Wallis ratio. Applied Mathematics and Computation, 2015, 253, 363-368.	2.2	22
31	The proof of Muqattashâ€“Yahdi conjecture. Mathematical and Computer Modelling, 2010, 51, 1154-1159.	2.0	21
32	Estimating the Somos' quadratic recurrence constant. Journal of Number Theory, 2010, 130, 2650-2657.	0.4	19
33	Sharp bounds of the Landau constants. Mathematics of Computation, 2011, 80, 1011-1011.	2.1	18
34	On the Ramanujanâ€“Lodge harmonic number expansion. Applied Mathematics and Computation, 2015, 251, 423-430.	2.2	17
35	The asymptotic series of the generalized Stirling formula. Computers and Mathematics With Applications, 2010, 60, 786-791.	2.7	16
36	On the harmonic number expansion by Ramanujan. Journal of Inequalities and Applications, 2013, 2013, .	1.1	16

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37	New Sharp Bounds for Gamma and Digamma Functions. Analele Stiintifice Ale Universitatii Al I Cuza Din Iasi - Matematica, 2011, 57, .	0.2	15
38	Estimates for the arctangent function related to Shafer's inequality. Colloquium Mathematicum, 2014, 136, 263-270.	0.3	15
39	Approximating the constants of Glaisherâ€“Kinkelin type. Journal of Number Theory, 2013, 133, 2465-2469.	0.4	14
40	Completely monotonic functions and inequalities associated to some ratio of gamma function. Applied Mathematics and Computation, 2014, 240, 168-174.	2.2	14
41	Asymptotic expansions of the generalized Stirling approximations. Mathematical and Computer Modelling, 2010, 52, 1867-1868.	2.0	12
42	Completely monotone functions and the Wallis ratio. Applied Mathematics Letters, 2012, 25, 717-722.	2.7	12
43	Further improvements of some double inequalities for bounding the gamma function. Mathematical and Computer Modelling, 2013, 57, 1360-1363.	2.0	10
44	Mathematical model of solidification process in steel continuous casting taking into account the convective heat transfer at liquidâ€“solid interface. Computational Materials Science, 2014, 94, 2-7.	3.0	10
45	The inhomogeneous Euler equation and its Hyersâ€“Ulam stability. Applied Mathematics Letters, 2015, 40, 23-28.	2.7	10
46	Sharp inequalities and complete monotonicity for the Wallis ratio. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2010, 17, .	0.2	10
47	Estimating gamma function by digamma function. Mathematical and Computer Modelling, 2010, 52, 942-946.	2.0	9
48	Refinements of Gurlandâ€™s formula for pi. Computers and Mathematics With Applications, 2011, 62, 2616-2620.	2.7	9
49	A substantial improvement of the Stirling formula. Applied Mathematics Letters, 2011, 24, 1351-1354.	2.7	9
50	A Power Series Approach to Some Inequalities. American Mathematical Monthly, 2012, 119, 147.	0.3	9
51	New sharp inequalities for approximating the factorial function and the digamma function. Miskolc Mathematical Notes, 2010, 11, 79.	0.6	9
52	A coincidence degree for bifurcation problems. Nonlinear Analysis: Theory, Methods & Applications, 2003, 53, 715-721.	1.1	8
53	On the monotonicity and convexity of the remainder of the Stirling formula. Applied Mathematics Letters, 2011, 24, 869-871.	2.7	8
54	Some inequalities for the trigamma function in terms of the digamma function. Applied Mathematics and Computation, 2015, 271, 502-511.	2.2	8

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55	Estimates of the function and quotient by Mincâ€“Sathre. Applied Mathematics and Computation, 2015, 253, 52-60.	2.2	8
56	Asymptotic Formulas and Inequalities for the Gamma Function in Terms of the Tri-Gamma Function. Results in Mathematics, 2015, 67, 395-402.	0.8	8
57	Estimating the digamma and trigamma functions by completely monotonicity arguments. Applied Mathematics and Computation, 2010, 217, 4081-4085.	2.2	7
58	Some new quicker approximations of Glaisherâ€“Kinkelin's and Benderskyâ€“Adamchik's constants. Journal of Number Theory, 2014, 144, 340-352.	0.4	7
59	Accurate Estimates of the Gamma Function Involving the PSI Function. Numerical Functional Analysis and Optimization, 2011, 32, 469-476.	1.4	6
60	Accurate approximations of the Mathieu series. Mathematical and Computer Modelling, 2011, 53, 909-914.	2.0	6
61	Sharpness of Muqattash-Yahdi problem. Computational and Applied Mathematics, 2012, 31, 85-93.	2.2	5
62	Estimates of (1+x)1/x involved in Carlemanâ€™s inequality and Kellerâ€™s limit. Filomat, 2015, 29, 1535-1539.	0.5	5
63	Approximation Methods for Solving the Cauchy Problem. Czechoslovak Mathematical Journal, 2005, 55, 709-718.	0.3	4
64	On some Eulerâ€“Mascheroni type sequences. Computers and Mathematics With Applications, 2010, 60, 2009-2014.	2.7	4
65	Error estimates of Ramanujan-type series. Ramanujan Journal, 2012, 27, 169-179.	0.7	4
66	Limits and inequalities associated with the Eulerâ€“Mascheroni constant. Applied Mathematics and Computation, 2013, 219, 9755-9761.	2.2	4
67	The stability of some points arising from continuous, differential and integral expressions. Monatshefte Fur Mathematik, 2016, 180, 101-122.	0.9	4
68	Some properties of a sequence arising from geometric probability for pairs of hyperplanes intersecting with a convex body. Computational and Applied Mathematics, 2018, 37, 2190-2200.	1.3	4
69	The quotient of gamma functions by the psi function. Computational and Applied Mathematics, 2011, 30, 627-638.	2.2	3
70	Estimates for Wallisâ€™ ratio and related functions. Indian Journal of Pure and Applied Mathematics, 2016, 47, 437-447.	0.5	3
71	Efficient approximations of the gamma function and further properties. Computational and Applied Mathematics, 2017, 36, 677-691.	1.3	3
72	Series associated to some expressions involving the volume of the unit ball and applications. Applied Mathematics and Computation, 2017, 294, 121-138.	2.2	3

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73	Refinements of some bounds related to the constant e. Miskolc Mathematical Notes, 2011, 12, 105.	0.6	3
74	ARITHMETIC MEAN OF VALUES AND VALUE AT MEAN OF ARGUMENTS FOR CONVEX FUNCTIONS. ANZIAM Journal, 2008, 50, 137.	0.2	2
75	Some connections of monotonicity with Weierstrass extreme value theorem. International Journal of Mathematical Education in Science and Technology, 2011, 42, 396-399.	1.4	2
76	The best rational remainders in the Stirling formula. Integral Transforms and Special Functions, 2012, 23, 13-19.	1.2	2
77	Some completely monotonic functions relating to the gamma function. Integral Transforms and Special Functions, 2012, 23, 473-479.	1.2	2
78	A Lower Bound on the Sinc Function and Its Application. Scientific World Journal, The, 2014, 2014, 1-4.	2.1	2
79	A Very Elementary Proof of Bernoulli's Inequality. College Mathematics Journal, 2015, 46, 136-137.	0.1	2
80	A product approximation of the gamma function. Numerical Algorithms, 2015, 69, 595-610.	1.9	2
81	New inequalities for some special functions via the Cauchy-Buniakovsky-Schwarz inequality. Tamkang Journal of Mathematics, 2011, 42, 53-57.	0.3	2
82	The distance between fixed points of some pairs of maps in Banach spaces and applications to differential systems. Czechoslovak Mathematical Journal, 2006, 56, 689-695.	0.3	1
83	A converse of the mean value theorem made easy. International Journal of Mathematical Education in Science and Technology, 2011, 42, 89-91.	1.4	1
84	On the growth rate of divergent series. Journal of Number Theory, 2015, 147, 499-507.	0.4	1
85	About Karamata Mean Value Theorem, Some Consequences and Some Stability Results. Results in Mathematics, 2017, 72, 329-342.	0.8	1
86	New inequalities for some special functions via the Cauchy-Buniakovsky-Schwarz inequality. Tamkang Journal of Mathematics, 2011, 42, .	0.3	1
87	Gamma function by x xâˆ’1. Carpathian Journal of Mathematics, 2013, 29, 41-46.	0.9	1
88	New forms of Stolzâ€“CesarÃ³ lemma. International Journal of Mathematical Education in Science and Technology, 2011, 42, 692-696.	1.4	0
89	On arithmetic functions means. International Journal of Mathematical Education in Science and Technology, 2011, 42, 229-235.	1.4	0
90	A converse of a result about the floor function by Hermite. International Journal of Mathematical Education in Science and Technology, 2012, 43, 114-118.	1.4	0

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91	Bounds for gamma function in terms of <mml:math altimg="si1.gif" 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.e. Applied Math	2.2	0
92	Funny Forms of the Mean Value Theorem. American Mathematical Monthly, 2015, 122, 780.	0.3	0
93	Some new approximations of Glaisherâ€“Kinkelin's and Benderskyâ€“Adamchik's constants by continued fraction. Journal of Number Theory, 2016, 163, 434-448.	0.4	0
94	On Some Mean Value Points Defined by Divided Differences and Their Hyersâ€“Ulam Stability. Results in Mathematics, 2016, 70, 373-384.	0.8	0
95	New sharp estimates of the generalized Euler-Mascheroni constant. Mathematical Inequalities and Applications, 2013, , 279-288.	0.2	0