

Árpád Baricz

List of Publications by Year in descending order

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papers

1,753
citations

361296

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h-index

345118

36
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93
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93
docs citations

93
times ranked

667
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Bessel Functions of the First Kind. Lecture Notes in Mathematics, 2010, , .	0.1	104
2	On the Monotonicity, Log-Concavity, and Tight Bounds of the Generalized Marcum and Nuttall Q -Functions. IEEE Transactions on Information Theory, 2010, 56, 1166-1186.	1.5	90
3	Properties of the probability density function of the non-central chi-squared distribution. Journal of Mathematical Analysis and Applications, 2008, 346, 395-402.	0.5	80
4	Turán type inequalities for generalized complete elliptic integrals. Mathematische Zeitschrift, 2007, 256, 895-911.	0.4	75
5	Starlikeness and convexity of generalized Bessel functions. Integral Transforms and Special Functions, 2010, 21, 641-653.	0.8	73
6	Mills' ratio: Monotonicity patterns and functional inequalities. Journal of Mathematical Analysis and Applications, 2008, 340, 1362-1370.	0.5	66
7	Bounds for modified Bessel functions of the first and second kinds. Proceedings of the Edinburgh Mathematical Society, 2010, 53, 575-599.	0.2	62
8	The radius of starlikeness of normalized Bessel functions of the first kind. Proceedings of the American Mathematical Society, 2014, 142, 2019-2025.	0.4	59
9	Functional inequalities involving Bessel and modified Bessel functions of the first kind. , 2008, 26, 279-293.		52
10	The radius of convexity of normalized Bessel functions of the first kind. Analysis and Applications, 2014, 12, 485-509.	1.2	47
11	Geometrically concave univariate distributions. Journal of Mathematical Analysis and Applications, 2010, 363, 182-196.	0.5	44
12	On a product of modified Bessel functions. Proceedings of the American Mathematical Society, 2008, 137, 189-193.	0.4	40
13	Turán type inequalities for hypergeometric functions. Proceedings of the American Mathematical Society, 2008, 136, 3223-3229.	0.4	39
14	On Turán type inequalities for modified Bessel functions. Proceedings of the American Mathematical Society, 2013, 141, 523-532.	0.4	37
15	Functional inequalities involving special functions II. Journal of Mathematical Analysis and Applications, 2007, 327, 1202-1213.	0.5	35
16	TURÁN TYPE INEQUALITIES FOR MODIFIED BESSEL FUNCTIONS. Bulletin of the Australian Mathematical Society, 2010, 82, 254-264.	0.3	35
17	New Bounds for the Generalized Marcum Q -Function. IEEE Transactions on Information Theory, 2009, 55, 3091-3100.	1.5	34
18	Inequalities for the generalized Marcum Q -function. Applied Mathematics and Computation, 2008, 203, 134-141.	1.4	30

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19	Radii of starlikeness of some special functions. Proceedings of the American Mathematical Society, 2016, 144, 3355-3367.	0.4	29
20	Bounds for complete elliptic integrals of the first kind. , 2010, 28, 357-364.		27
21	Close-to-Convexity of Some Special Functions and Their Derivatives. Bulletin of the Malaysian Mathematical Sciences Society, 2016, 39, 427-437.	0.4	26
22	Bounds for Turánians of modified Bessel functions. , 2015, 33, 223-251.		23
23	Geometric properties of some Lommel and Struve functions. Ramanujan Journal, 2017, 42, 325-346.	0.4	22
24	Bounds for radii of starlikeness and convexity of some special functions. Turkish Journal of Mathematics, 2018, 42, 211-226.	0.3	22
25	Functional inequalities involving special functions. Journal of Mathematical Analysis and Applications, 2006, 319, 450-459.	0.5	20
26	Turán type inequalities for Krätzel functions. Journal of Mathematical Analysis and Applications, 2012, 388, 716-724.	0.5	20
27	Turán-Type Inequalities for Some Lommel Functions of the First Kind. Proceedings of the Edinburgh Mathematical Society, 2016, 59, 569-579.	0.2	20
28	Bounds for Radii of Starlikeness of Some $\{\varvec{q}\}$ q -Bessel Functions. Results in Mathematics, 2017, 72, 947-963.	0.4	20
29	Tight bounds for the generalized Marcum Q-function. Journal of Mathematical Analysis and Applications, 2009, 360, 265-277.	0.5	19
30	Turán Type Inequalities for Tricomi Confluent Hypergeometric Functions. Constructive Approximation, 2013, 37, 195-221.	1.8	19
31	Series of Bessel and Kummer-Type Functions. Lecture Notes in Mathematics, 2017, , .	0.1	19
32	Inequalities involving modified Bessel functions of the first kind II. Journal of Mathematical Analysis and Applications, 2007, 332, 265-271.	0.5	18
33	Functional inequalities for modified Bessel functions. , 2011, 29, 399-414.		18
34	Integral representations for Neumann-type series of Bessel functions $I_{\{?\}}$, $Y_{\{?\}}$ and $K_{\{?\}}$. Proceedings of the American Mathematical Society, 2012, 140, 951-960.	0.4	18
35	Extensions of the generalized Wilker inequality to Bessel functions. Journal of Mathematical Inequalities, 2008, , 397-406.	0.5	18
36	Differential Subordinations Involving Generalized Bessel Functions. Bulletin of the Malaysian Mathematical Sciences Society, 2015, 38, 1255-1280.	0.4	17

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37	The Radius of α -Convexity of Normalized Bessel Functions of the First Kind. Computational Methods and Function Theory, 2016, 16, 93-103.	0.8	17
38	Turán type inequalities for Struve functions. Journal of Mathematical Analysis and Applications, 2017, 445, 971-984.	0.5	17
39	Turán type inequalities for some probability density functions. Studia Scientiarum Mathematicarum Hungarica, 2010, 47, 175-189.	0.1	16
40	Neumann series of Bessel functions. Integral Transforms and Special Functions, 2012, 23, 529-538.	0.8	16
41	The radius of convexity of normalized Bessel functions. Analysis Mathematica, 2015, 41, 141-151.	0.2	16
42	Radii of starlikeness and convexity of some q-Bessel functions. Journal of Mathematical Analysis and Applications, 2016, 435, 968-985.	0.5	16
43	Landen-Type Inequality for Bessel Functions. Computational Methods and Function Theory, 2006, 5, 373-379.	0.8	15
44	Functional inequalities for modified Struve functions. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2014, 144, 891-904.	0.8	15
45	Convexity properties of generalized trigonometric and hyperbolic functions. Aequationes Mathematicae, 2015, 89, 473-484.	0.4	14
46	Bounds for the generalized Marcum Q-function. Applied Mathematics and Computation, 2010, 217, 2238-2250.	1.4	13
47	Monotonicity property of generalized and normalized Bessel functions of complex order. Complex Variables and Elliptic Equations, 2009, 54, 689-696.	0.4	12
48	Turán determinants of Bessel functions. Forum Mathematicum, 2014, 26, .	0.3	12
49	On an identity for zeros of Bessel functions. Journal of Mathematical Analysis and Applications, 2015, 422, 27-36.	0.5	12
50	Zeros of some special entire functions. Proceedings of the American Mathematical Society, 2018, 146, 2207-2216.	0.4	12
51	Geometric and monotonic properties of hyper-Bessel functions. Ramanujan Journal, 2020, 51, 275-295.	0.4	12
52	Integral representations and summations of the modified Struve function. Acta Mathematica Hungarica, 2013, 141, 254-281.	0.3	11
53	Close-to-convexity of normalized Dini functions. Mathematische Nachrichten, 2016, 289, 1721-1726.	0.4	11
54	Turán type inequalities for generalized inverse trigonometric functions. Filomat, 2015, 29, 303-313.	0.2	11

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55	Functional inequalities for the incomplete gamma function. Journal of Mathematical Analysis and Applications, 2012, 385, 167-178.	0.5	10
56	Alternating Mathieu Series, Hilbert's Eisenstein Series and Their Generalized Omega Functions. , 2014, , 775-808.		9
57	Integral representation of first kind Kapteyn series. Journal of Mathematical Physics, 2011, 52, .	0.5	8
58	Differential inequalities and Bessel functions. Journal of Mathematical Analysis and Applications, 2013, 400, 558-567.	0.5	8
59	Turán type inequalities for regular Coulomb wave functions. Journal of Mathematical Analysis and Applications, 2015, 430, 166-180.	0.5	8
60	Functional inequalities for Galuá's generalized modified Bessel functions. Journal of Mathematical Inequalities, 2007, , 183-193.	0.5	8
61	Landen inequalities for special functions. Proceedings of the American Mathematical Society, 2014, 142, 3059-3066.	0.4	7
62	Turán type inequalities for q -hypergeometric functions. Journal of Approximation Theory, 2013, 168, 69-79.	0.5	6
63	Monotonicity properties of some Dini functions. , 2014, , .		6
64	Bounds for the product of modified Bessel functions. Aequationes Mathematicae, 2016, 90, 859-870.	0.4	6
65	Zeros of Bessel function derivatives. Proceedings of the American Mathematical Society, 2017, 146, 209-222.	0.4	6
66	On a Sum of Modified Bessel Functions. Mediterranean Journal of Mathematics, 2014, 11, 349-360.	0.4	4
67	Starlikeness of a cross-product of Bessel functions. Journal of Mathematical Inequalities, 2016, , 819-827.	0.5	4
68	Properties of the Product of Modified Bessel Functions. , 2014, , 809-820.		3
69	Bounds for Jaeger integrals. Journal of Mathematical Chemistry, 2015, 53, 1257-1273.	0.7	3
70	Turán type inequalities for confluent hypergeometric functions of the second kind. Studia Scientiarum Mathematicarum Hungarica, 2016, 53, 74-92.	0.1	3
71	The Hurwitz-type theorem for the regular Coulomb wave function via Hankel determinants. Linear Algebra and Its Applications, 2018, 548, 259-272.	0.4	3
72	The generalized Marcum function of the second kind: Monotonicity patterns and tight bounds. Journal of Computational and Applied Mathematics, 2021, 382, 113093.	1.1	3

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73	Approximation of CDF of Non-Central Chi-Square Distribution by Mean-Value Theorems for Integrals. <i>Mathematics</i> , 2021, 9, 129.	1.1	3
74	Corrections to “Unified Laguerre Polynomial-Series-Based Distribution of Small-Scale Fading Envelopes” [Oct 09 3988-3999]. <i>IEEE Transactions on Vehicular Technology</i> , 2011, 60, 347-349.	3.9	2
75	New approximations for DQPSK transmission bit error rate. , 2013, , .		2
76	Incomplete Krätzel function model of leaky aquifer and alike functions. , 2015, , .		2
77	Van der Corput inequalities for Bessel functions. <i>Integral Transforms and Special Functions</i> , 2015, 26, 78-87.	0.8	2
78	Radii of starlikeness and convexity of a cross-product of Bessel functions. <i>Ramanujan Journal</i> , 2017, 44, 493-519.	0.4	2
79	Radii of Starlikeness and Convexity of a Product and Cross-Product of Bessel Functions. <i>Results in Mathematics</i> , 2018, 73, 1.	0.4	2
80	Redheffer type bounds for Bessel and modified Bessel functions of the first kind. <i>Aequationes Mathematicae</i> , 2018, 92, 425-439.	0.4	2
81	Integral representations of Dini series of Bessel functions. <i>Integral Transforms and Special Functions</i> , 2013, 24, 628-635.	0.8	1
82	Remarks on a parameter estimation for von Mises“Fisher distributions. <i>Computational Statistics</i> , 2014, 29, 891-894.	0.8	1
83	Bounds for the symmetric difference of generalized Marcum Q-functions. , 2015, , .		1
84	On Kapteyn-Kummer series' integral form. , 2016, , .		1
85	Cross-product of Bessel functions: Monotonicity patterns and functional inequalities. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2018, 128, 1.	0.2	1
86	Bounds for the generalized Marcum function of the second kind. <i>Ramanujan Journal</i> , 2022, 58, 1-21.	0.4	1
87	Trends in Classical Analysis, Geometric Function Theory, and Geometry of Conformal Invariants. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-1.	0.3	0
88	Bounds for the asymptotic order parameter of the stochastic Kuramoto model. <i>Journal of Approximation Theory</i> , 2017, 217, 1-14.	0.5	0
89	Zeros of Orthogonal Polynomials Near an Algebraic Singularity of the Measure. <i>Constructive Approximation</i> , 2018, 47, 407-435.	1.8	0
90	Asymptotic expansions for the radii of starlikeness of normalised Bessel functions. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 494, 124624.	0.5	0

#	ARTICLE	IF	CITATIONS
91	Functional Inequalities and Bounds for the Generalized Marcum Function of the Second Kind. Results in Mathematics, 2021, 76, 1.	0.4	0
92	Asymptotic and numerical aspects of the generalized Marcum function of the second kind. Applicable Analysis and Discrete Mathematics, 2022, 16, 202-217.	0.3	0