LISTA DE LUCRĂRI

1. Lucrări publicate

1.1. Articole publicate în reviste recunoscute ISI

1. **Á. Baricz**, Functional inequalities involving special functions, *Journal of Mathematical Analysis and Applications*, 319(2) (2006), 450-459. (**IF: 0.758**)
2. **Á. Baricz**, Functional inequalities involving special functions II, *Journal of Mathematical Analysis and Applications*, 327(2) (2007), 1202-1213. (**IF: 0.872**)
3. **Á. Baricz**, **E. Neuman**, Inequalities involving modified Bessel functions of the first kind II, *Journal of Mathematical Analysis and Applications*, 332(1) (2007), 265-271. (**IF: 0.872**)
4. **Á. Baricz**, Turán type inequalities for generalized complete elliptic integrals, *Mathematische Zeitschrift*, 256(4) (2007), 895-911. (**IF: 0.680**)
5. **Á. Baricz**, Some inequalities involving generalized Bessel functions, *Mathematical Inequalities and Applications*, 10(4) (2007), 827-842. (**IF: 0.312**)
6. **Á. Baricz**, **L. Zhu**, Extension of Oppenheim's problem to Bessel functions, *Journal of Inequalities and Applications*, 2007 (2007), Art. 82038. (**IF: 0.408**)
7. **Á. Baricz**, Mills' ratio: Monotonicity patterns and functional inequalities, *Journal of Mathematical Analysis and Applications*, 340(2) (2008), 1362-1370. (**IF: 1.046**)
8. **Á. Baricz**, Turán type inequalities for hypergeometric functions, *Proceedings of the American Mathematical Society*, 136 (9) (2008), 3223-3229. (**IF: 0.584**)
9. **S. András**, **Á. Baricz**, Properties of the probability density function of the non-central chi-squared distribution, *Journal of Mathematical Analysis and Applications*, 346(2) (2008), 395-402. (**IF: 1.046**)
10. **Á. Baricz**, Geometric properties of generalized Bessel functions, *Publicationes Mathematicae Debrecen*, 73 (1-2) (2008), 155-178. (**IF: 0.346**)
11. **Á. Baricz**, Functional inequalities involving Bessel and modified Bessel functions of the first kind, *Expositiones Mathematicae*, 26(3) (2008), 279-293. (**IF: 0.568**)
12. **Y. Sun**, **Á. Baricz**, Inequalities for the generalized Marcum Q-function, *Applied Mathematics and Computation*, 203(1) (2008), 134-141. (**IF: 0.961**)
13. **Á. Baricz**, On a product of modified Bessel functions, *Proceedings of the American Mathematical Society*, 137 (1) (2009), 189-193. (**IF: 0.640**)
14. **Á. Baricz, S. Wu**, Sharp Jordan-type inequalities for Bessel functions, *Publicationes Mathematicae Debrecen*, 74 (1-2) (2009), 107-126. (**IF: 0.646**)
15. **Á. Baricz, S. Wu**, Sharp exponential Redheffer-type inequalities for Bessel functions, *Publicationes Mathematicae Debrecen*, 74 (3-4) (2009), 257-278. (**IF: 0.646**)
16. **Á. Baricz, Y. Sun**, New bounds for the generalized Marcum Q-function, *IEEE Transactions on Information Theory*, 55(7) (2009), 3091-3100. (**IF: 2.357**)
17. **Á. Baricz**, Tight bounds for the generalized Marcum Q-function, *Journal of Mathematical Analysis and Applications*, 360(1) (2009), 265-277. (**IF: 1.225**)
18. **S. Wu, Á. Baricz**, Generalizations of Mitrinovic, Adamovic and Lazarevic's inequalities and their applications, *Publicationes Mathematicae Debrecen*, 75 (3-4) (2009), 447-458. (**IF: 0.646**)
19. **Y. Sun, Á. Baricz, M. Zhao, X. Xu, S. Zhou,** Approximate average bit error probability for DQPSK over fading channels, *Electronics Letters*, 45(23) (2009), 1177-1179. (**IF: 0.970**)
20. **Á. Baricz**, Geometrically concave univariate distributions, *Journal of Mathematical Analysis and Applications*, 363(1) (2010), 182-196. (**IF: 1.174**)

21. **Y. Sun, Á. Baricz, S. Zhou**, On the monotonicity, log-concavity and tight bounds of the generalized Marcum and Nuttall Q-functions, *IEEE Transactions on Information Theory*, 56(3) (2010), 1166-1186. (**IF: 2.725**)

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23. **Á. Baricz**, Turán type inequalities for some probability density functions, *Studia Scientiarum Mathematicarum Hungarica*, 47(2) (2010), 175-189. (**IF: 0.197**)

24. **Á. Baricz**, Powers of modified Bessel functions of the first kind, *Applied Mathematics Letters,* 23(6) (2010), 722-724. (**IF: 1.155**)

25. **Á. Baricz**, Turán type inequalities for modified Bessel functions, *Bulletin of the Australian Mathematical Society,* 82(2) (2010), 254-264. (**IF: 0.392**)

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27. **Á. Baricz**, Bounds for modified Bessel functions of the first and second kinds, *Proceedings of the Edinburgh Mathematical Society (Series 2)*, 53(3) (2010), 575-599. (**IF: 0.697**)

28. **Á. Baricz, S. Ponnusamy**, Starlikeness and convexity of generalized Bessel functions , *Integral Transforms and Special Functions,* 21(9) (2010), 641-653. (**IF: 0.594**)

29. **Á. Baricz, Y. Sun,** Bounds for the generalized Marcum Q-function, *Applied Mathematics and Computation*, 217(5) (2010), 2238-2250. (**IF: 1.534**)

30. **Y. Sun, Á. Baricz, S. Zhou**, Corrections to "Unified Laguerre polynomial-series-based distribution of small-scale fading envelopes", *IEEE Transactions on Vehicular Technology*, 60(1) (2011), 347-349. (**IF: 1.921**)

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32. **Á. Baricz, S. Ponnusamy, M. Vuorinen**, Functional inequalities for modified Bessel functions, *Expositiones Mathematicae,* 29(4) (2011), 399-414. (**IF: 0.902**)

33. **H. Alzer, Á. Baricz**, Functional inequalities for the incomplete gamma function, *Journal of Mathematical Analysis and Applications*, 385(1) (2012), 167-178. (**IF: 1.050**)

34. **Á. Baricz, D. Jankov, T.K. Pogány**, Integral representations for Neumann-type series of Bessel functions I_v, Y_v and K_v, *Proceedings of the American Mathematical Society*, 140(3) (2012), 951-960. (**IF: 0.609**)

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36. **Á. Baricz, D. Jankov, T.K. Pogány**, Neumann series of Bessel functions, *Integral Transforms and Special Functions,* 23(7) (2012), 529-538. (**IF: 0.730**)

37. **Á. Baricz**, **S. Ponnusamy**, On Turán type inequalities for modified Bessel functions, *Proceedings of the American Mathematical Society,* 141(2) (2013), 523-532. (**IF: 0.627**)

38. **Á. Baricz**, **S. Ponnusamy**, Differential inequalities and Bessel functions, *Journal of Mathematical Analysis and Applications*, 400(2) (2013), 558-567. (**IF: 1.119**)

39. **Á. Baricz**, **M.E.H. Ismail**, Turán type inequalities for Tricomi confluent hypergeometric functions, *Constructive Approximation,* 37(2) (2013), 195-221. (**IF: 1.169**)

40. **Á. Baricz, K. Raghavendar, A. Swaminathan**, Turán type inequalities for q-hypergeometric functions, *Journal of Approximation Theory,* 168 (2013), 69-79. (**IF: 0.896**)

41. **Á. Baricz, D. Jankov, T.K. Pogány**, Integral representations of Dini series of Bessel functions, *Integral Transforms and Special Functions,* 24(8) (2013), 628-635. (**IF: 0.814**)

42. **Á. Baricz, T.K. Pogány**, Inequalities for the one dimensional analogous of the Coulomb potential, *Acta Polytechnica Hungarica,* 10(7) (2013), 53-67. (**IF: 0.471**)

43. **Á. Baricz, T.K. Pogány**, Integral representations and summations of the modified Struve function, *Acta Mathematica Hungarica,* 141(3) (2013), 254-281. (**IF: 0.401**)

44. **Á. Baricz, T.K. Pogány**, Turán determinants of Bessel functions, *Forum Mathematicum,* 26(1) (2014), 295-322. (**IF: 0.962**)

45. **Á. Baricz, T.K. Pogány**, Functional inequalities for the Bickley function, *Mathematical Inequalities and Applications,* 17(3) (2014), 989-1003. (**IF: 0.645**)

46. **Á. Baricz, P.A. Kupán, R. Szász**, The radius of starlikeness of normalized Bessel functions of the first kind, *Proceedings of the American Mathematical Society,* 142 (2014), 2019-2025. (**IF: 0.681**)

47. **Á. Baricz, B.A. Bhayo, T.K. Pogány**, Functional inequalities for generalized inverse trigonometric and hyperbolic functions, *Journal of Mathematical Analysis and Applications*, 417 (2014), 244-259. (**IF: 1.120**)

48. **Á. Baricz, T.K. Pogány**, On a sum of modified Bessel functions, *Mediterranean Journal of Mathematics,* 11(2) (2014), 349-360. (**IF: 0.656**)

49. **Á. Baricz**, Remarks on a parameter estimation for von Mises-Fisher distributions, *Computational Statistics,* 29 (2014), 891-894. (**IF: 0.403**)

50. **Á. Baricz**, Landen inequalities for special functions, *Proceedings of the American Mathematical Society*, 142 (9) (2014), 3059-3066. (**IF: 0.681**)

51. **Á. Baricz, R. Szász**, The radius of convexity of normalized Bessel functions of the first kind, *Analysis and Applications,* 12(5) (2014), 485-509. (**IF: 0.796**)

52. **Á. Baricz, T.K. Pogány**, Functional inequalities for modified Struve functions, *Proceedings of the Royal Society of Edinburgh: Section A Mathematics,* 144(5) (2014), 891-904. (**IF: 1.009**)

53. **Á. Baricz, T.K. Pogány**, Functional inequalities for modified Struve functions II, *Mathematical Inequalities and Applications,* 17(4) (2014), 1387-1398. (**IF: 0.645**)

54. **Á. Baricz, D. Jankov Masirevic, T.K. Pogány**, **R. Szász**, On an identity for zeros of Bessel functions, *Journal of Mathematical Analysis and Applications,* 422(1) (2015), 27-36. (**IF: 1.014**)

55. **Á. Baricz, A. Laforgia, T.K. Pogány**, Van der Corput inequalities for Bessel functions, *Integral Transforms and Special Functions,* 26(1) (2015), 78-87. (**IF: 0.528**)

56. **Á. Baricz, T.K. Pogány**, **S. Ponnusamy, I. Rudas**, Bounds for Jaeger integrals, *Journal of Mathematical Chemistry,* 53(5) (2015), 1257-1273. (**IF: 1.056**)

57. **Á. Baricz, B.A. Bhayo, M. Vuorinen**, Turán type inequalities for generalized inverse trigonometric functions, *Filomat*, 29(2) (2015), 303-313. (**IF: 0.603**)

58. **Á. Baricz**, Bounds for Turánians of modified Bessel functions, *Expositiones Mathematicae*, 33 (2) (2015), 223-251. (**IF: 0.784**)

59. **Á. Baricz**, Turán type inequalities for regular Coulomb wave functions, *Journal of Mathematical Analysis and Applications,* 430(1) (2015), 166-180. (**IF: 1.014**)

60. **Á. Baricz, E. Deniz, M. Caglar, H. Orhan**, Differential subordinations involving generalized Bessel functions, *Bulletin of the Malaysian Mathematical Sciences Society,* 38(3) (2015), 1255-1280. (**IF: 0.640**)

61. **Á. Baricz, B.A. Bhayo, R. Klén**, Convexity properties of generalized trigonometric and hyperbolic functions, *Aequationes Mathematicae,* 89(3) (2015), 473-484. (**IF: 1.000**)

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63. **Á. Baricz, R. Szász**, The radius of convexity of normalized Bessel functions, *Analysis Mathematica,* 41(3) (2015), 141-151. (**IF: 0.225**)

64. **Á. Baricz, D.K. Dimitrov, I. Mező**, Radii of starlikeness and convexity of some q-Bessel functions, *Journal of Mathematical Analysis and Applications,* 435(1) (2016), 968-985. (**IF: 1.014**)

65. **Á. Baricz, S. Ponnusamy, S. Singh**, Turán type inequalities for general Bessel functions, *Mathematical Inequalities and Applications,* 19(2) (2016), 709-719. (**IF: 0.544)**

66. **Á. Baricz, R. Szász**, Close-to-convexity of some special functions and their derivatives, *Bulletin of the Malaysian Mathematical Sciences Society,* 39(1) (2016), 427-437. (**IF: 0.640**)

67. **Á. Baricz, M. Caglar, E. Deniz**, Starlikeness of Bessel functions and their derivatives, *Mathematical Inequalities and Applications,* 19(2) (2016), 439-449. (**IF: 0.544**)

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69. **Á. Baricz, S. Koumandos**, Turán type inequalities for some Lommel functions of the first kind, *Proceedings of the Edinburgh Mathematical Society,* 56 (2016), 569-579. (**IF: 0.730**)

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72. **Á. Baricz, S. Ponnusamy, S. Singh**, Modified Dini functions: monotonicity patterns and functional inequalities, *Acta Mathematica Hungarica,* 149(1) (2016), 120-142. (**IF: 0.469**)

73. **Á. Baricz, S. Ponnusamy, S. Singh**, Turán type inequalities for confluent hypergeometric functions of the second kind, *Studia Scientiarum Mathematicarum Hungarica,* 53(1) (2016), 74-92. (**IF: 0.333**)

74. **Á. Baricz, D.K. Dimitrov, H. Orhan, N. Yagmur**, Radii of starlikeness of some special functions, *Proceedings of the American Mathematical Society,* 144(8) (2016), 3355-3367. (**IF: 0.700**)

75. **Á. Baricz, H. Orhan, R. Szász**, The radius of alpha convexity of normalized Bessel functions of the first kind, *Computational Methods and Function Theory,* 16(1) (2016), 93-103. (**IF: 0.362**)

76. **Sz. András, Á. Baricz, T.K. Pogány**, Ulam-Hyers stability of singular integral equations, via weakly Picard operators, *Fixed Point Theory,* 17(1) (2016), 21-36. (**IF: 0.581**)

77. **H.A. Alkharsani, Á. Baricz, K.S. Nisar,** Differential subordinations and superordinations for generalized Bessel functions, *Bulletin of the Korean Mathematical Society* 53(1) (2016) 127-138. (**IF: 0.297**)

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79. **Á. Baricz, S.Kant, J.K. Prajapat,** Differential subordination and superordination results associated with the Wright function, *Bulletin of the Iranian Mathematical Society* 42(6) (2016) 1459-1477. (**IF: 0.283**)

80. **Á. Baricz, S. Ponnusamy, S. Singh**, Turán type inequalities for Struve functions, *Journal of Mathematical Analysis and Applications,* 445(1) (2017), 971-984. (**IF: 1.014**)

81. **Á. Baricz,** Zeros of a cross-product of the Coulomb wave and Tricomi hypergeometric functions, *Proceedings of the American Mathematical Society* 145(4) (2017) 1643-1648. (**IF: 0.700**)

82. **Á. Baricz, N. Yagmur**, Geometric properties of some Lommel and Struve functions, *Ramanujan Journal* 42(2) (2017) 325-346. (**IF: 0.563**)

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1.2. Articole publicate în reviste indexate BDI
[Mathematical Reviews, Zentralblatt Math, STMA-Z Statistical Theory]

1. **Á. Baricz**, Applications of the admissible functions method for some differential equations, *Pure Mathematics and Applications*, 13(4) (2002), 433-440.

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1.3. Cărţi publicate în edituri internationale recunoscute
1. **Á. Baricz**, *Generalized Bessel functions of the first kind,* Lecture Notes in Mathematics, Springer, Berlin, 2010.

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2. **András Sz., Baricz Á.**, *Statisztika közgazdászoknak (Statistică pentru economişti)*, Ed. Státus, Miercurea-Ciuc, 2007.

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                                                                       Conf. univ. dr. Baricz Árpád