

LIST OF PUBLICATIONS

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(h-index in Scopus=8)

https://scholar.google.bg/scholar?hl=en&q=J+paneva-Konovska&btnG=&as_sdt=1%2C5&as_sdt=1%2C5&as_sdt=1%2C5

• Monographs

1. **J. Paneva-Konovska**, *From Bessel to Multi-Index Mittag-Leffler Functions: Enumerable Families, Series in them and Convergence*, World Scientific Publishing, 2016, London; ISBN-13: 978-1786340887; ISBN-10: 1786340887; <https://doi.org/10.1142/q0026> ; <https://www.worldscientific.com/worldscibooks/10.1142/q0026> .
2. **J. Paneva-Konovska**, *After the Invitation to Bessel Functions*, 116 pp., Softtraid, Sofia, 2019; ISBN 978-954-334-216-7.

• Selected papers

1. **J. Paneva-Konovska**, Hyper-Bessel functions as multi-index Mittag-Leffler functions: Integrals and derivatives of arbitrary orders, *Amer. Inst. Phys. Conference Proceedings*, **2172**, 2019, Art. 050005, 8 pp. ISSN 0094-243X, ISBN: 978-0-7354-1919-3, doi:10.1063/1.5133524; <https://doi.org/10.1063/1.5133524>; **SJR(2018)= 0.182**
2. **J. Paneva-Konovska**, A survey on Bessel type functions as multi-index Mittag-Leffler functions: Differential and integral relations, *International Journal of Applied Mathematics*, **32**, No 3, 2019, 357-380; doi: 10.12732/ijam.v32i3.1; ISSN: 1311-1728 (printed version); ISSN: 1314-8060 (on-line version) **SJR(2018)= 0,111**
3. **J. Paneva-Konovska**, Differential and integral relations in the class of multi-index Mittag-Leffler functions, *Fract. Calc. Appl. Anal.*, **21**, No 1, 2018, 254-265; ISSN p 1311-0454, ISSN e 1314-2224, DOI:10.1515/fca-2018-0016 **Q1- IF(2018) = 3.514**
4. **J. Paneva-Konovska**, Bessel type functions: Relations with integrals and derivatives of arbitrary orders, *Amer. Inst. Phys. Conference Proceedings*, **2048**, 2018, Art. 050015, 6 pp. ISSN 0094-243X, ISBN: 978-0-7354-1774-8,

doi:10.1063/1.5082114; <https://doi.org/10.1063/1.5082114>;

SJR(2018)= 0.182

5. **J. Paneva-Konovska**, Bessel series: some results on their overconvergence. *Compt. rend. Acad. bulg. Sci.*, Tome **70**, No 1, 2017, 21-28; ISSN 1310-1331
http://www.proceedings.bas.bg/PDF17/H_01-03.pdf **Q4- IF(2017) = 0.270**
6. **J. Paneva-Konovska**, Inequalities for the partial sums of some Mittag-Leffler type series, *Journal of Inequalities and Special Functions*, **8**, No 1, 2017, 42-47; ISSN: 2217-4303,
<http://www.ilirias.com/jiasf/repository/docs/JIASF8-1-4.pdf>
URL: <http://www.ilirias.com> indexed in **WoS**
7. **J. Paneva-Konovska**, Overconvergence of series in generalized Mittag-Leffler functions, *Fract. Calc. Appl. Anal.*, Vol. **20**, No 2, 2017, 506-520; ISSN p 1311-0454, ISSN e 1314-2224, DOI:10.1515/fca-2017-0026 **Q1- IF(2017) = 2.865**
8. **J. Paneva-Konovska**, On a family of Bessel type functions: Estimations, series, overconvergence, *Amer. Inst. Phys. Conference Proceedings*, **1910**, 2017, Art. 050002, 8 pp., ISSN 0094-243X, ISBN: 978-0-7354-1602-4, doi:10.1063/1.5013984; **SJR(2017) = 0.165**
9. **J. Paneva-Konovska**, Y. Nikolova, Laplace transform approach for solving integral equations using Computer Algebra System, *Amer. Inst. Phys. Conference Proceedings*, **1789**, 2016, Art. 050008, 9 pp.; ISBN: 978-0-7354-1453-2, ISSN 0094-243X, doi: 10.1063/1.4968492
SJR(2016) = 0.165
10. **J. Paneva-Konovska**, Periphery behaviour of series in Mittag-Leffler type functions, I. *Intern. J. Appl. Math.*, **29**, No 1, 2016, 69-78; ISSN p: 1311-1728, ISSN e : 1314-8060; doi: 10.12732/ijam.v29i1.6, <http://dx.doi.org/10.12732/ijam.v29i1.6>;
11. **J. Paneva-Konovska**, Periphery behaviour of series in Mittag-Leffler type functions, II. *Intern. J. Appl. Math.*, **29**, No 2, 2016, 175-186; ISSN p: 1311-1728, ISSN e : 1314-8060; doi: 10.12732/ijam.v29i2.2, <http://dx.doi.org/10.12732/ijam.v29i2.2>;
12. **J. Paneva-Konovska**, On some Mittag-Leffler series: A set of overconvergence theorems, *Amer. Inst. Phys. Conference Proceedings*, **1789**, 2016, Art. 050007, 6 pp.; ISBN: 978-0-7354-1453-2, ISSN 0094-243X, doi: 10.1063/1.4968491 **SJR(2016) = 0.165**
13. **J. Paneva-Konovska**, Series in 3-parameter Mittag-Leffler functions – various convergence theorems, *Proc. International Conference on Fractional Differentiation and its Applications - 2016*, (Novi Sad, Serbia, July 18-20, 2016), 786-789; Serbian Soc. of Mechanics and Fac. of Techn. Sci. Novi Sad, ISBN 978-86-7892-830-7.

14. **J. Paneva-Konovska**, On the multi-index Mittag-Leffler series and their boundary behaviour, *Integral Transforms and Special Functions*, **26**, No 3 (2015), 152–164; ISSN p 1065-2469, ISSN e 1476-8291, DOI: 10.1080/10652469.2014.975129. **Q3- IF(2015) = 0.528**
15. **J. Paneva-Konovska**, Overconvergence of Bessel series. *Compt. rend. Acad. bulg. Sci.* Tome **68**, No 9, 2015, 1091-1098; ISSN 1310-1331 **Q4- IF(2015) = 0.233**
16. **J. Paneva-Konovska**, Overconvergence of Bessel type series, *Amer. Inst. Phys. Conference Proceedings*, **1690**, 2015, Art. 050004, 8 pp.; ISBN: 978-0-7354-1337-5, ISSN 0094-243X doi: 10.1063/1.4936734, **SJR(2015) = 0.180**
17. **J. Paneva-Konovska**, On the convergence and overconvergence of Mittag-Leffler series, *Advances Math Sci Journal* **4**, No 2, 2015, 175- 181; ISSN 1857-8365
18. **J. Paneva-Konovska**, Convergence of series in three-parametric Mittag-Leffler functions. *Mathematica Slovaca*, Vol. 64, Issue 1, 2014, 73-84, ISSN e: 1337-2211, ISSN p: 0139-9918, DOI: 10.2478/s12175-013-0188-0 **Q4- IF(2014)= 0.409**
19. **J. Paneva-Konovska**, A family of hyper-Bessel functions and convergent series in them, *Fract. Calc. Appl. Anal.*, **17**, No 4, 2014, 1001-1015; ISSN p 1311-0454, ISSN e 1314-2224 DOI:10.2478/s13540-014-0211-3 **Q1- IF(2014) = 2.245**
20. **J. Paneva-Konovska**, Fatou theorems for multi-index Bessel series, *Amer. Inst. Phys. Conference Proceedings*, **1631**, 2014, 303-312; ISBN 978-0-7354-1270-5, ISSN 0094-243X Online: <http://dx.doi.org/10.1063/1.4902491>, doi: 10.1063/1.4902491; **SJR(2014) = 0.171**
21. **J. Paneva-Konovska**, Series in Prabhakar functions and the geometry of their convergence, *Mathematics in Industry* (Ch. V: "Algorithms in Industrial Mathematics"), 198-214, Cambridge Scholars Publi., Cambridge, October 2014 (Ed. A. Slavova), ISBN-13: 978-1443864015; ISBN-10: 1443864013.
22. **J. Paneva-Konovska**, On the multi-index (3m-parametric) Mittag-Leffler functions, fractional calculus relations and series convergence, *Central European Journal of Physics* (now: *Open Physics*) **11**, No 10, 2013, 1164-1177; Print ISSN: 1895-1082, Online ISSN: 1644-3608, DOI: 10.2478/s11534-013-0263-8. **Q3- IF(2013) = 1,077**
23. **J. Paneva-Konovska**, Comparison between the convergence of power and Bessel series, *Amer. Inst. Phys. Conference Proceedings*, **1570**, 2013, 383-392; ISBN 978-0-7354-1168-5; ISSN 0094-243X, doi: 10.1063/1.4854780 **SJR(2013) = 0.164**
24. **J. Paneva-Konovska**, Comparison between the convergence of power and generalized Mittag-Leffler series. *Proc. "Complex Analysis and Applications 2013"* (Sofia, 31. Oct.- 02.

Nov. 2013), 166 -173, ISBN 978-954-8986-37-3.

- 25. J. Paneva-Konovska**, Three-multi-index Mittag-Leffler functions, series and convergence theorems. *Proc. 5th Symposium on Fractional Differentiation and Its Applications – 2012* (Nanjing, China, May 14-17, 2012), Paper No 284, 1-7 (Eds: W. Chen, H-G Sun, D. Baleanu).
- 26. J. Paneva-Konovska**, Fatou type theorems for series in Mittag-Leffler functions, *Amer. Inst. Phys. Conference Proceedings* **1497**, 2012, 318-325; ISBN 978-0-7354-1111-1; ISSN 0094-243X, doi: 10.1063/1.4766800 **SJR(2012) = 0.176**
- 27. J. Paneva-Konovska**, The convergence of series in multi-index Mittag-Leffler functions. *Integral Transforms and Special Functions*, **23**, No 3, 2012, 207-221.
doi: 10.1080/10652469.2011.575567, ISSN 1065-2469 print / ISSN 1476-8291 online
URL: <http://dx.doi.org/10.1080/10652469.2011.575567> **Q2- IF(2012)=0.73**
- 28. J. Paneva-Konovska**, Inequalities and asymptotic formulae for the three parametric Mittag-Leffler functions. *Mathematica Balkanica (N.S.)* **26**, No 1-2, 2012, 203-210; ISSN 0205-3217
- 29. J. Paneva-Konovska**, Series in Mittag-Leffler functions: Geometry of convergence. *Advances Math. Sci., Journal*, **1**, No 2, 2012, 73-79; ISSN 1857-8365, UDC: 517.58:517.521.
- 30. J. Paneva-Konovska**, Multi-index (3m-parametric) Mittag-Leffler functions and fractional calculus. *Compt. rend. Acad. bulg. Sci.*, Tome 64, No 8, 2011, 1089-1098, ISSN 1310-1331
Q4- IF= 0.210
- 31. J. Paneva-Konovska**, Convergence of series in Mittag-Leffler functions. *Compt. rend. Acad. Bulg. Sci.* Tome **63**, No 6, 2010, 815-822, ISSN 1310-1331 **Q3- IF= 0.219**
- 32. J. Paneva-Konovska**, Inequalities and asymptotic formulae related to generalizations of the Bessel functions, *Amer. Inst. Phys. Conference Proceedings*, Vol. **1293**, 2010, 157-164 (AMEE 2010); ISBN 978-0-7354-0850-0; ISSN 0094-243X; doi:10.1063/1.3515580
URL: <http://dx.doi.org/10.1063/1.3515580> **SJR (2010) = 0.166**
- 33. J. Paneva-Konovska**, Convergence of series in Mittag-Leffler type functions. *AIP Conference Proceedings*, Vol. **1301**, 2010, 636-643 (AMiTaNS'10), ISBN 978-0-7354-0856-2; ISSN 0094-243X, doi:10.1063/1.3526665; **SJR (2010) = 0.166**
- 34. J. Paneva-Konovska**, Series in Mittag-Leffler functions: inequalities and convergent theorems. *Fract. Calc. Appl. Anal.*, Vol. **13**, No **4**, 2010, 403-414, ISSN: 1311-0454.
- 35. J. Paneva-Konovska**, Series in some Mittag-Leffler type functions: Theorems for their convergence in complex domain. *Proc. of International Symposium "Geometric Function Theory and Applications, Sofia '10"*, IMI, BAS, 2010, 223-228.
- 36. J. Paneva-Konovska**, Convergence of series in some multi-index Mittag-Leffler functions. *Proc. 4th IFAC Workshop Fractional Differentiation and its Applications – 2010* (Badajoz,

Spain, Oct. 18-20, 2010), Art. No. FDA10-147, 2010, 4 pp. (Eds: I. Podlubny, B. M. Vinagre Jara, YQ. Chen, V. Feliu Batlle, I. Tejado Balsera); ISBN 9788055304878.

- 37. J. Paneva-Konovska**, Tauberian theorem of Littlewood type for series in Bessel functions of first kind. *Compt. rend. Acad. bulg. Sci.* Tome **62**, No **2**, 2009, 161-166, ISSN 1310-1331

Q4- IF = 0.204

- 38. J. Paneva-Konovska**, Some theorems on the convergence of series in Bessel-Maitland functions, *Annuaire de l' Universite de Sofia, Faculte de Mathematiques et Informatique*, Vol. **99** (2009). 75-84. ISSN 0205-0808

- 39. J. Paneva-Konovska**, Cauchy-Hadamard, Abel and Tauber type theorems for series in generalized Bessel-Maitland functions, *Compt. rend. Acad. bulg. Sci.*, vol. **61**. No 1 (2008). 09-14.

Q4- IF =0.152

- 40. J. Paneva-Konovska**, Tauberian theorem of Littlewood type for series in Bessel–Maitland functions. *Mathematica Macedonica*, Vol. **6**, 2008, 55-60, ISSN 1409-9721.

- 41. J. Paneva-Konovska**, Series in generalized Bessel-Maitland functions: Some Convergence Theorems in the Complex Plane. *Mathematica Balkanica, New Series*. Vol. **22**, Fasc. 1-2, 2008, 11-23; ISSN: 0205-3217.

- 42. J. Paneva-Konovska**, Theorems on the convergence of series in generalized Lommel-Wright functions. *Fractional Calculus & Applied Analysis*, Vol. **10**, No 1 (2007), 59-74.

ISSN: 1311-0454.

- 43. J. Paneva-Konovska**, Index-asymptotic formulae for Wright's generalized Bessel functions, *Math. Science Research J.*, vol. **11**, No 5 (May 2007), 424-431, ISSN: 1537-5978.

- 44. I. H. Dimovski, J. D. Paneva-Konovska**, Duhamel representations for a class of non-local boundary value problems. *Math. Balkanica, New Series*. Vol. **18**. Fasc. 3-4 (2004), 266-276.

ISSN: 0205-3217

- 45. J. Paneva-Konovska, P. Petrov**, Mathematical model of non-stationary heat convection of power-plant of non-piloted flying devices. *Прикладная математика и механика (Сборник научных трудов)*. Выпуск 6, Ульяновск 2004, 183--191; ISBN: 5-89146-526-4

- 46. J. Paneva-Konovska**, Complete systems of Bessel functions of first kind in spaces of holomorphic functions. *Fractional Calculus & Applied Analysis*. Vol. **6**, No 3 (2003), 299-309.

ISSN: 1311-0454

- 47. J. Paneva-Konovska**, Complete systems of Bessel functions of third kind in spaces of holomorphic functions. *Proc. 28-th International Summer School "Applications of Mathematics in Engineering and Economics", Sozopol 2002, Sofia 2003*, 64-71.

- 48. J. Paneva-Konovska**, A Tauber type theorem for series in Bessel functions, *Fractional*

Calculus & Applied Analysis, Vol. **2**, No 5 (1999), 683-688; ISSN: 1311-0454

- 49. J.D. Paneva-Konovska**, Complete systems of Neumann polynomials in spaces of holomorphic functions. *Compt. rend. Acad. bulg. Sci.*, Vol. **49**, No 4 (1996), 13-16.

ISSN 0861-1459

- 50. J.D. Paneva-Konovska**, Complete systems of Bessel functions in spaces of holomorphic functions, I. *Compt. rend. Acad. bulg. Sci.* Vol. **49**, No 5 (1996), 15-18; ISSN 0861-1459

- 51. J.D. Paneva-Konovska**, Complete systems of Bessel functions in spaces of holomorphic functions, II. *Compt. rend. Acad. bulg. Sci.* Vol. **49**, No 6 (1996), 9-12; ISSN 0861-1459

- 52. J.D. Paneva-Konovska**, Complete systems of Bessel and inversed Bessel polynomials in spaces of holomorphic functions, *Ann. Sofia University, FMI*, V. **89** (1995). 79-88.

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- 53. J.D. Paneva-Konovska**, On the singularities of Bessel expansions. *Proc. Int. Workshop "Transform Methods & Special Functions, Sofia'94"*, SCT Publishing, Singapore, 220-226.

- 54. J.D. Paneva-Konovska**, Cauchy-Hadamard and Abel type theorems for Bessel functions series. *Proc. 19-th Summer School "Applications of Mathematics in Engineering" Varna, 24.08.-02.09. 1993*, Sofia 1994, 165-170.

- 55. J.D. Paneva-Konovska**, On the zeros of a class of entire functions involving Bessel functions. *Math. Balkanica*. Vol. **6**, Fasc. 2 (1992), 141-146.; ISSN: 0205-3217.

• Textbooks and guiding books

- 1. J. Paneva-Konovska**, *Mathematical Analysis 2*, Technical University - Sofia, Sofia 2018 (in Bulgarian); ISBN: 978-619-167-298-1.
- 2. J. Paneva-Konovska, T. Stancheva**, *Handbook on the Mathematical Analysis 2, Helped by MAPLE*, Technical Univ.- Sofia, Sofia 2014 (in Bulgarian); ISBN: 978-619-167-099-4.
- 3. J. Paneva-Konovska**, *Laplace Transform in Examples and Problems*. TU-Sofia, Sofia, 2012 (in Bulgarian); ISBN: 978-954-438-992-5.
- 4. L. Garnevskia, R. Petrova, J. Paneva-Konovska**, *Complex Numbers. A Function of a Complex Variable*, Avangard Prima, София, 2012 (in Bulgarian); ISBN: 978-619-160-057-1.