

List of all publications
Professor Olha Martynyuk

Monographs

1. Horodets'kyi, V., **Martynyuk, O.** Parabolic pseudo-differential equations with analytic symbols in S-type spaces. Monograph. – Chernivtsi: Technodruk, 2019. – 279 pages.
2. Horodets'kyi, V., **Martynyuk, O.** Evolutionary pseudo-differential equations in countably normed spaces. Monograph. – Chernivtsi: Technodruk, 2016. – 340 pages.
3. Horodets'kyi, V., **Martynyuk, O.** The Cauchy problem and nonlocal problems for first-order evolution equations in the time variable. Monograph. – Chernivtsi: Publishing house "Rodovid", 2015. - 400 pages.
4. Horodets'kyi, V., **Martynyuk, O.** Nonlocal problems for first-order evolution equations in the time variable. Monograph. – Chernivtsi: Publishing house "Rodovid", 2013. – 352 pages.
5. Horodets'kyi, V., **Martynyuk, O.** The Cauchy problem and nonlocal problems for singular evolution equations of the parabolic type. Monograph. – Chernivtsi: Books - XXI, 2010. – 320 pages.

Papers

1. Tsan, V., Stanzhytskyi, O. and **Martynyuk, O.** (2024) On the correspondence between periodic solutions of differential and dynamic equations on periodic time scales. Georgian Mathematical Journal. <https://doi.org/10.1515/gmj-2024-2003>
2. Kapustyan, O., **Martynyuk, O.**, Misiats, O. and Stanzhytskyi, O. (2023) Thin film equations with nonlinear deterministic and stochastic perturbations. arXiv preprint, arXiv:2307.12665. <http://www.scopus.com/inward/record.url?eid=2-s2.0-85166146176&partnerID=MN8TOARS>
3. Kapustyan, O., **Martynyuk, O.**, Misiats, O. and Stanzhytskyi, O. (2023) Long Time Behavior of Stochastic Thin Film Equation. arXiv preprint, arXiv:2311.16285.
4. Horodets'kyi, V., **Martynyuk, O.**, Kolisnyk, R. Nonlocal in time problem for evolution equations with pseudo-differential operators in S-type spaces. Nonlinear Oscillations. - 2023. - Vol. 26, No. 3, pp. 322-341.
5. Horodets'kyi, V., Petryshyn, R., **Martynyuk, O.** Evolutionary Pseudodifferential Equations with Smooth Symbols in S-Type Spaces. Ukrainian Mathematical Journal. - 2023. - Vol. 75, pp. 861–888. <https://doi.org/10.1007/s11253-023-02233-3>
6. Petryshyn, R., **Martynyuk, O.** International Scientific Conference "Mathematics and Information Technologies" dedicated to the 55th anniversary of the FMI. Bukovinian Mathematical Journal. - 2023. - Vol.11(2), pp. 8-10.

7. Horodets'kyi, V., **Martynyuk, O.**, Martynyuk, S., Kolisnyk, R. Properties of the Abel-Poisson transformation of formal Hermite series. Bukovinian Mathematical Journal. - 2023. - Vol.11(1), pp. 80-93.
8. Horodets'kyi, V., **Martynyuk, O.**, Kolisnyk, R. On a Nonlocal Problem for the First-Order Differential-Operator Equations. Carpathian Mathematical Publications. - 2022. - Vol. 14, pp. 513-528.
9. Horodets'kyi, V., **Martynyuk, O.** Properties of solutions of the heat conduction equation with dissipation. Bukovinian Mathematical Journal. – 2022. - Vol.10(2), pp. 77–89.
10. Horodets'kyi, V., Zhytaryuk I., Kolisnyk, R., **Martynyuk, O.**, Sobchuk O. The Life of Sobchuk. Bukovinian Mathematical Journal. - 2022. - Vol.10(1), pp. 107–127.
11. Horodets'kyi, V., **Martynyuk, O.** Evolution pseudodifferential equations with analytic symbols in spaces of S type. Carpathian Mathematical Publications. - 2021. - Vol.13, pp. 160–179.
12. Horodets'kyi, V., **Martynyuk, O.**, Kolisnyk, R. Generalized S-type spaces and evolution pseudodifferential equations. Nonlinear Oscillations. – 2021. – Vol. 24, No. 1, pp. 28-55.
13. Horodets'kyi, V., **Martynyuk, O.** Evolutionary Pseudodifferential Equations in the Spaces of Generalized Periodic Functions. Journal of Mathematical Sciences. - 2021. - Vol. 256, pp. 604–627. <https://doi.org/10.1007/s10958-021-05448-6>
14. Horodets'kyi, V., **Martynyuk, O.** Approximate Solutions of One Abstract Cauchy Problem. Journal of Mathematical Sciences. - 2021. - Vol. 253, pp. 230–241 . <https://doi.org/10.1007/s10958-021-05224-6>
15. Horodets'kyi, V., Kolisnyk, R., **Martynyuk, O.** A nonlocal problem in time for one class of pseudodifferential equations with smooth symbols. Bukovinian Mathematical Journal. - 2021. - Vol. 9(1), pp. 107–127.
16. Zhytaryuk I., **Martynyuk, O.** Simion Stoilov (1887-1961): sketches to a scientific biography. Bukovinian Mathematical Journal. - 2021. - Vol.9 (1), pp. 152-163.
17. Horodets'kyi, V., **Martynyuk, O.**, Petryshyn, R. On the generalized Cauchy problem for the evolution equation with the fractional differentiation operator. Nonlinear Oscillations. - 2020. - Vol. 23, No. 4, pp. 457-475.
18. Horodets'kyi, V., **Martynyuk, O.**, Petryshyn, R. On the Generalized Cauchy Problem for One Class of Differential Equations of Infinite Order. Ukrainian Mathematical Journal. - 2020. - Vol. 72, pp. 1030–1050. <https://doi.org/10.1007/s11253-020-01842-6>
19. Gorodetskyi, V., **Martynyuk, O.**, Feduh, O. The well-posedness of a nonlocal multipoint problem for a differential operator equation of second order. Georgian Mathematical Journal. - 2020. - Vol. 27 (Issue 1), pp. 67-79. <https://doi.org/10.1515/gmj-2018-0007>

20. Horodets'kyi, V., **Martynyuk, O.**, Petryshyn, R. Nonlocal Multipoint (in Time) Problem for Evolutionary Pseudodifferential Equations with Analytic Symbols in the Spaces of Type W. Ukrainian Mathematical Journal. - 2020. - Vol. 71, pp. 1379–1401 . <https://doi.org/10.1007/s11253-020-01721-0>
21. Horodets'kyi, V., Kolisnyk, R., **Martynyuk, O.** A nonlocal problem for partial differential equations of the parabolic type. Bukovinian Mathematical Journal. - 2020. - Vol. 8, No. 2, pp. 24-39.
22. Petryshyn, R., **Martynyuk, O.** The international scientific conference "Modern problems of differential equations and their applications" dedicated to the 100th birth anniversary of Professor S. Eidelman. Bukovinian Mathematical Journal. – 2020. – Vol. 8, No. 1, pp. 7-9.
23. Horodets'kyi, V., **Martynyuk, O.** Localization property for convolutions of generalized periodic functions. Reports of the National Academy of Sciences of Ukraine. - 2020. - No. 4, pp. 3-9.
24. Horodets'kyi, V., **Martynyuk, O.** Localization principle for the formal Fourier series summable by Gauss-Weierstrass type methods. Bukovinian Mathematical Journal. - 2019. - Vol. 7, No. 2, pp. 30-38.
25. Horodets'kyi, V., Kolisnyk, R., **Martynyuk, O.** On one nonlocal problem for parabolic type equations. Bukovinian Mathematical Journal. – 2019. – Vol. 7, No. 1, pp. 1-18.
26. Horodets'kyi, V., **Martynyuk, O.**, Shyrovks'kykh, A. On One Generalization of the Cauchy Problem for Singular Evolutionary Equations of the Parabolic Type. Journal of Mathematical Sciences. – 2018. - Vol. 228, Issue 3, pp. 181–206.
27. Horodets'kyi, V., **Martynyuk, O.** A nonlocal multipoint in time problem for one class of evolution singular equations. Reports of the National Academy of Sciences of Ukraine. - 2018. - No. 5, pp. 8-15.
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29. Horodets'kyi, V., **Martynyuk, O.**, Todoriko, T. On one generalization of the Cauchy problem for evolution singular equations of parabolic type of infinite order. Non-classical problems of the theory of differential equations: a collection of scientific papers dedicated to the 80th anniversary of Bohdan Yosypovych Ptashnyk. Lviv. - 2017. – pp. 22-37.
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31. Gorodetskii, V., **Martynyuk, O.**, Fedukh, O. Nonlocal time-multipoint problem for a certain class of evolutionary pseudodifferential equations with variable symbols: II. Differential Equations. - 2017. - Vol. 53, Issue 2, pp. 200–211. <https://doi.org/10.1134/S0012266117020069>

32. Horodets'kyi, V., **Martynyuk, O.**, Petryshyn, R. Cauchy Problem for Evolutionary Pseudodifferential Equations with Variable Symbols. *Journal of Mathematical Sciences*. - 2016. - Vol. 212, Issue 3, pp. 234–253. <https://doi.org/10.1007/s10958-015-2661-5>
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35. Horodets'kyi, V., **Martynyuk, O.** Nonlocal Problem Multipoint in Time for the Evolutionary Equations with Pseudo-Bessel Operators with Variable Symbols. *Ukrainian Mathematical Journal*. – 2014. - Vol. 66, Issue 2, pp. 178-196. <https://doi.org/10.1007/s11253-014-0921-z>
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Conference abstracts

1. Tsan, V., **Martynyuk, O.**, Perestyuk, Yu. Existence of the Lyapunov function of dissipative systems of dynamic equations on time scales // Proceedings of the 13th International Scientific and Practical

Conference "Mathematics. Information Technologies. Education", Lutsk-Svityaz, May 31 - June 2, 2024: Abstracts. - Lutsk: Volyn National University, 2024. - pp. 53-54.

2. Stanzhytskyi, O., Tsan, V., **Martynyuk, O.** Periodic Solutions in Dynamic Equations on Time Scales and Their Relationship with Differential Equations // International Workshop on the Qualitative Theory of Differential Equations "QUALITDE – 2023" dedicated to the 120th birthday anniversary of Professor V. Kupradze, December 9 - 11, 2023, Tbilisi, Georgia. – pp. 202-206.
3. **Martynyuk, O.**, Zhytaryuk, I. Faculty of Mathematics and Informatics: History and Present // Materials of the International Scientific Conference "Mathematics and Information Technologies" dedicated to the 55th anniversary of the FMI, September 28-30, 2023 - Chernivtsi: Chernivtsi National University, 2023. - pp. 3-6.
4. **Martynyuk O.**, Stanzhytskyi O. Thin film equations with nonlinear deterministic and stochastic perturbations. // Materials of the International Scientific Conference "Mathematics and Information Technologies" dedicated to the 55th anniversary of the FMI, September 28-30, 2023 - Chernivtsi: Chernivtsi National University, 2023. - pp. 94-95.
5. Horodets'kyi, V., Kolisnyk, R., **Martynyuk, O.** On the solvability of nonlocal in time problem for evolution equations with pseudo-differential operators in S-type spaces // Materials of the International Scientific Conference "Applied Mathematics and Information Technologies" dedicated to the 60th anniversary of the department of Applied Mathematics and Information Technologies, September 22-24, 2022 - Chernivtsi: Chernivtsi National University, 2022. - p. 111.
6. Horodets'kyi, V., **Martynyuk, O.**, Petryshyn, R. On a nonlocal in time problem for a singular parabolic equation // Materials of the International Scientific Conference "Applied Mathematics and Information Technologies" dedicated to the 60th anniversary of the department of Applied Mathematics and Information Technologies, September 22-24, 2022 - Chernivtsi: Chernivtsi National University, 2022. - P. 112.
7. Horodets'kyi, V., Kolisnyk, R., **Martynyuk, O.** On the correct solvability of a nonlocal problem for a first-order differential operator equation // International scientific conference dedicated to the 75th anniversary of the Department of Differential Equations and the 85th birth anniversary of Mykhailo Pavlovykh Leniuk, October 28-30, 2021 — Chernivtsi: Chernivtsi National University, 2021. - pp. 65-66.
8. Horodets'kyi, V., **Martynyuk, O.** A nonlocal in time problem for one class of pseudo-differential equations with smooth symbols // Modern problems of differential equations and their applications: Materials of the international scientific conference dedicated to the 100th birth anniversary of Professor S. Eidelman, September 16-19, 2020 — Chernivtsi: Chernivtsi National. University, 2020. - pp. 155-156.

9. Horodets'kyi, V., **Martynyuk, O.**, Petryshyn, R. Correct solvability of a nonlocal multipoint in time problem for evolution pseudo-differential equations with analytic symbols in W-type spaces // International Conference "Functional Methods in Approximation Theory, Differential Equations and Computational Mathematics IV". June 20-26, 2019. Svityaz, Ukraine. Abstracts. - Kyiv: Institute of Mathematics of the National Academy of Sciences of Ukraine, 2019. - pp. 72-73.
10. **Martynyuk, O.** Analysis of the pilot accreditation of educational master's programs according to the criteria of the ASIIN agency at the Yuriy Fedkovych Chernivtsi National University // Development of the quality assurance system of higher education in Ukraine. International conference, June 11-12, 2019 - Kyiv, KNTU, 2019.
11. Horodets'kyi, V., Kolisnyk, R., **Martynyuk, O.** On the approximate solutions of the Cauchy problem for a differential operator equation of the hyperbolic type. - Modern problems of mathematics and its applications in natural sciences and information technologies: Materials of the international scientific conference dedicated to the 50th anniversary of the Faculty of Mathematics and Informatics at Yuriy Fedkovych Chernivtsi National University, September 17-19, 2018 - Chernivtsi: Chernivtsi National University, 2018. - P. 55.
12. Gorodetskyi, V., **Martynyuk, O.** Operators of generalized differentiation of infinite order in spaces of type S // International Conference in Functional Analysis dedicated to the 125th anniversary of Stefan Banach, September 18-23, 2017: Book of Abstracts. Lviv, Ukraine, 2017. – pp. 45-47.
13. Horodets'kyi, V., **Martynyuk, O.** Nonlocal two-point problem for evolution equations with generalized differentiation operator // Differential equations and their applications. International conference dedicated to the 75th birth anniversary of D. I. Martyniuk (May 19-21, 2017): conference materials. - Kamianets-Podilskyi: Axioma, 2017. – pp. 28-30.
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15. Horodets'kyi, V., **Martynyuk, O.** Correct solvability of nonlocal multipoint in time problems for evolution equations with pseudo-Bessel operators // Differential equations and their applications: abstracts of the International scientific conference dedicated to the 70th anniversary of Academician of the National Academy of Sciences of Ukraine M. O. Perestyuk, Uzhhorod, May 19-21, 2016. - Uzhhorod: Publishing House of UzhNU "Hoverla", 2016. - P. 59.
16. Gorodetskyi, V., **Martynyuk, O.** Well-posed solvability of the nonlocal multipoint problem for singular evolution equations // International V. Skorobohatko mathematical conference: Abstracts. – Drohobych, Ukraine, 25-28 August 2015. – P. 50.
17. **Martynyuk, O.** On the solvability of the Cauchy problem for the evolution equations with generalized differentiation operators. - Materials of X International scientific and practical conference “Strategic

issues of the world science”, 7-15 Feb 2014, Przemysl, Poland. - Poland: "Nauka i studia", 2014. - Volume 31. - pp. 10-16.

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19. Horodets’kyi, V., **Martynyuk, O.** A two-point in time problem for the evolution equation with a generalized differentiation operator in the spaces of type S' / International mathematical conference "Differential equations, computational mathematics, function theory and mathematical methods of mechanics" dedicated to the 100th birth anniversary of the corresponding member of the National Academy of Sciences of Ukraine H. M. Polozhny, April 23-24, 2014, Kyiv, Ukraine: Conference materials. – Kyiv: Taras Shevchenko Kyiv National University, 2014. – P. 50.
20. **Martynyuk, O.**, Petryshyn, R. The Cauchy problem for evolution equations with pseudo-Bessel operators. / International mathematical conference "Differential equations, computational mathematics, function theory and mathematical methods of mechanics" dedicated to the 100th birth anniversary of the corresponding member of the National Academy of Sciences of Ukraine H. M. Polozhny, April 23-24, 2014, Kyiv, Ukraine: Conference materials. – Kyiv: Taras Shevchenko Kyiv National University, 2014. – P. 87.
21. **Martynyuk, O.** The Cauchy problem for singular evolution equations of infinite order / Materials of the X International Scientific and Practical Conference "Current Scientific Achievements - 2014", 27-30 June 2014, Prague, Czech Republic. - Prague: "Education and Science", 2014. - Vol.13. - pp. 3-7.
22. **Martynyuk, O.** Solvability of the Cauchy problem for evolution equations with pseudo-Bessel operators / Materials of the X International Scientific and Practical Conference "Dynamics of Modern Science - 2014", July 17-25, 2014, Sofia, Bulgaria. - Sofia: "Byal HRAD-BG", 2014. - Vol.40. - pp. 30-36.
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A.M. Samoilenko, June 23-30, 2013, Sevastopol, Ukraine: Abstracts. - Kyiv: Institute of Mathematics of the National Academy of Sciences of Ukraine, 2013. - pp. 139-140.

26. Horodets'kyi, V., **Martynyuk, O.**, Petryshyn, R. Correct solvability of a nonlocal multipoint in time problem for one class of evolution equations with pseudo-Bessel operators // International mathematical conference "Bogolyubov readings DIF-2013. Differential equations, function theory and their applications" on the occasion of the 75th birth anniversary of Academician A.M. Samoilenko, June 23-30, 2013, Sevastopol, Ukraine: Abstracts. - Kyiv: Institute of Mathematics of the National Academy of Sciences of Ukraine, 2013. - P. 87.
27. Horodets'kyi, V., **Martynyuk, O.** Nonlocal in time problems for singular parabolic equations with pseudo-differential conditions // International Summer Mathematical School in commemoration of V.O. Plotnikov, June 15-22, 2013, Odesa, Ukraine: Abstracts. – Odesa: Astroprint, 2013. – P. 47.
28. Horodets'kyi, V., **Martynyuk, O.** Properties of the fundamental solution of the evolution equation with the pseudo-Bessel operator / Materials of the 9th International Scientific and Practical Conference "Higher Education Achievements - 2013", November 17-25, 2013, Sofia, Bulgaria. - Sofia: "Byal HRAD-BG", 2013. - Vol.40. - pp. 3-5.
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