

Publications by M.M. Popov

I Books and book chapters

2. M. Popov. Rademacher type independence in Boolean algebras. In the book: The Mathematical Legacy of Victor Lomonosov. Operator Theory. De Gruyter, Berlin-Boston (2020), 327-348. DOI: <https://doi.org/10.1515/9783110656756>

1. M. Popov, B. Randrianantoanina, Narrow Operators on Function Spaces and Vector Lattices, De Gruyter Studies in Mathematics 45, De Gruyter, Berlin-Boston (2013) MR2985035 DOI: <https://doi.org/10.1515/9783110263343>

II Scientific Papers

75. O. Fotiy, I. Krasikova, M. Pliev, M. Popov. Order continuity of orthogonally additive operators. Results in Math. 77, no 5 (2022) published online <https://link.springer.com/article/10.1007%2Fs00025-021-01543-x>

74. I. Krasikova, M. Pliev, M. Popov. Measurable Riesz spaces. Carpathian Math. Publ. 13, no 1 (2021), 81-88. DOI: <https://doi.org/10.15330/cmp.13.1.81-88>

73. M. Popov. Horizontal Egorov property of Riesz spaces. Proc. Amer. Math. Soc. 149, no 1 (2021), 323-332. DOI: <https://doi.org/10.1090/proc/15235>

72. V. Mykhaylyuk, M. Pliev, M. Popov. The lateral order on Riesz spaces and orthogonally additive operators. Positivity 25, no 2 (2021), 291-327. DOI: <https://doi.org/10.1007/s11117-020-00761-x>

71. I.V. Krasikova, M.A. Pliev, M.M. Popov, O.G. Fotiy. On separate order continuity of orthogonally additive operators (dedicated to the memory of V.K. Maslyuchenko). Bukovinian Math. J. 9, no 1 (2021) (in Ukrainian). DOI: <https://doi.org/10.31861/bmj2021.01.17>

70. A. Kamińska, I. Krasikova, M. Popov. Projection lateral bands and lateral retracts. Carpathian Math. Publ. 12, no 2 (2020), 333-339. DOI: <https://doi.org/10.15330/cmp.12.2.333-339>

69. O. Fotiy, M. Ostrovskii, M. Popov. Isomorphic spectrum and isomorphic length of a Banach space. Carpathian Math. Publ. 12, no 1 (2020), 88-93. <https://doi.org/10.15330/cmp.12.1.88-93>

68. M. Popov. On two long standing open problems on $L_p(\mu)$ -spaces. Carpathian Math. Publ. 12, no 1 (2020), 229-241. <https://doi.org/10.15330/cmp.12.1.229-241>

67. V. Mykhaylyuk, M. Popov. On geometric entropy in Hilbert spaces. J. Math. Anal. Appl. 481, no 2 (2020). MR4008015, DOI: 10.1016/j.jmaa.2019.123487

66. O. Fotiy, A. Gumenchuk, I. Krasikova, M. Popov. On sums of narrow and compact operators. Positivity. 24, no 1 (2020), 69–80. MR4052682, DOI: 10.1007/s11117-019-00666-4

65. O. Maslyuchenko, M. Popov. On sums of strictly narrow operators acting from a Riesz space to a Banach space. J. Funct. Spaces. (2019), Art. ID 8569409, 6 pp.. MR3963605, DOI: 10.1155/2019/8569409

64. O. Maslyuchenko, M. Popov. More on representation of operators on L_1 . J. Math. Anal. Appl. 470 (2) (2019), 679–689. MR3870583, DOI: <https://doi.org/10.1016/j.jmaa.2018.05.083>

63. M. M. Popov, O. V. Sobchuk. On the “function” and “lattice” definitions of a narrow operator, Positivity. 22 (1) (2018), 59–62. MR3764630, DOI: <https://doi.org/10.1007/s11117-017-0497-6>

62. A. I. Gumenchuk, M. M. Popov. On the sum of a narrow and a finite rank operator on vector lattices, Bukovinian Math. J. 5 (1-2) (2017), 62–70 (in Ukrainian). <http://bmj.fmi.org.ua/index.php/adm/article/view/232>

61. A. I. Gumenchuk, I. V. Krasikova, M. M. Popov. Points of narrowness and uniformly narrow operators, *Carpathian Math. Publ.* 9 (1) (2017), 37–47. MR3669975, DOI: 10.15330/cmp.9.1.37-47
60. M. Pliev, M. Popov. On extension of abstract Uryson operators, *Sib. Mat. Zh.* 57 (3) (2016), p. 700–708 (in Russian). MR3548797, DOI: <https://doi.org/10.1134/S0037446616030198>
59. V. Mykhaylyuk, M. Pliev, M. Popov, O. Sobchuk. Dividing measures and narrow operators, *Stud. Math.* 231 (2) (2015), p. 97–116. MR3465282, DOI: 10.4064/sm7878-2-2016
58. A. Gumenchuk, O. Karlova, M. Popov. Order Schauder bases in Banach lattices, *J. Funct. Anal.* 269 (2) (2015), p. 536–550. MR3348826, DOI: <https://doi.org/10.1016/j.jfa.2015.04.008>
57. V. Mykhaylyuk, M. Popov, B. Randrianantoanina, G. Schechtman. Narrow and l_2 -strictly singular operators from L_p , *Israel J. Math.* 203 (1) (2014), p. 81–108. MR3273433, DOI: <https://doi.org/10.1007/s11856-014-0012-8>
56. M. Pliev, M. Popov. Narrow orthogonally additive operators, *Positivity* 18 (4) (2014), 641–667. MR3275358, DOI: <https://doi.org/10.1007/s11117-013-0268-y>
55. A. Dorogovtsev, M. Popov. Geometric entropy in Banach spaces, *Theory Stoch. Process.* 19 (2) (2014), 10–30. MR3405380, http://tsp.imath.kiev.ua/files/1920/art1920_02.pdf
54. M. Pliev M., M. Popov. Dominated Uryson operators, *Int. J. Math. Anal. (Ruse)* 8 (22) (2014), 1051–1059. DOI: <http://dx.doi.org/10.12988/ijma.2014.44118>
53. M. Pliev, M. Popov, O. Sobchuk. Up-martingales in vector lattices, *Int. J. Math. Anal. (Ruse)* 8 (22) (2014), 1041–1050. DOI: <http://dx.doi.org/10.12988/ijma.2014.44117>
52. M. Popov, E. Semenov, D. Vatsek. Some problems on narrow operators on function spaces, *Cent. Eur. J. Math.* 12 (3) (2014), 476–482. MR3145905, DOI: <https://doi.org/10.2478/s11533-013-0358-x>
51. M. Popov, D. Vatsek. Wide operators on Köthe function spaces, *Mat. Stud.* 42 (1) (2014), 104–112. MR3381394, http://matstud.org.ua/texts/2014/42_1/104-112.html
50. A. Gumenchuk, M. Pliev, M. Popov, Extensions of orthogonally additive operators, *Mat. Stud.* 41 (2) (2014), 214–219. MR3289104, http://matstud.org.ua/texts/2014/41_2/214-219.html
49. I. V. Krasikova, M. M. Popov, An application of Kadets-Pełczyński sets to narrow operators, *Zh. Mat. Fiz. Anal. Geom.* 9 (1) (2013), 102–107. MR3097549, http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=jmag&paperid=551&option_lang=eng
48. V. Mykhaylyuk, M. Popov, On sums of narrow operators on Köthe function spaces. *J. Math. Anal. Appl.* 404 (2) (2013), 554–561. MR3045194, DOI: <https://doi.org/10.1016/j.jmaa.2013.03.008>
47. I. Krasikova and M. Popov, A note on operators from Köthe function spaces to $c_0(\Gamma)$, *Carpathian Math. Publ.* 4 (1) (2012), 67–71 (in Ukrainian). <http://journals.pu.if.ua/index.php/cmp/article/view/87>
46. A. M. Plichko, M. M. Popov, Some open problems on Banach spaces, *Mat. Stud.* 38 (2) (2012), 203–211. MR3058486, http://matstud.org.ua/texts/2012/38_2/203-211.html
45. V. Kholomenyuk, V. Mykhaylyuk and M. Popov, On isomorphisms of some Köthe function F-spaces, *Central European J. Math.* 9 (6) (2011), 1267–1275. MR2836719 (2012g:46008)
44. M. Martín, J. Merí and M. Popov, On the numerical radius of operators in Lebesgue spaces, *J. Funct. Anal.* 261 (1) (2011), 149–168. MR2785896, DOI: <https://doi.org/10.1016/j.jfa.2011.03.007>
43. M. Martín, J. Merí and M. Popov, On the numerical index of the real $L_p(\mu)$ -spaces, *Israel J. Math.* 184 (2011), 183–192. MR2823974 (2012g:46032). DOI: 10.1007/S11856-011-0064-Y

42. M. Popov, Narrow operators (a survey), Function spaces IX Banach Center Publ., Inst. of Math. Polish Acad. Sci., Warszawa, 92 (2011), 299–326. MR2884464, DOI: 10.4064/bc92-0-21
41. M. Martín, J. Meri, M. Popov and B. Randrianantoanina, Numerical index of absolute sums of Banach spaces, J. Math. Anal. Appl. 375 (1) (2011), p. 207–222. MR2735706 (2011j:46017) DOI: 10.1016/J.JMAA.2010.08.061
40. M. Martín, J. Meri and M. Popov, The polynomial Daugavet property for atomless $L_1(\mu)$ -spaces, Arch. Math. (Basel) 94 (4) (2010), 383–389. MR2643972, DOI: <https://doi.org/10.1007/s00013-010-0105-5>
39. I. V. Krasikova and M. M. Popov, On a generalization of the notion of compact operator on the spaces L_p , Nauk. Visn. Chernivetskoho Univ., Mat. (Chernivtsi), 501 (2010), p. 38–42 (in Ukrainian). Zbl 1240.46058
38. I. V. Krasikova, V. V. Mykhaylyuk and M. M. Popov, Operators defined on L_1 which «nowhere» attain their norm, Methods Funct. Anal. Topology 16 (1) (2010), 17–27. MR 2656128 (2011d: 46024)
37. O. V. Maslyuchenko, V. V. Mykhaylyuk and M. M. Popov, A lattice approach to narrow operators, Positivity, 13 (3) (2009), p. 459–495. MR2511237, DOI: <https://doi.org/10.1007/s11117-008-2193-z>
36. A. A. Dorogovtsev and M. M. Popov, On narrowness of conditional expectation operators in spaces of measurable functions, Mat. Visn. Nauk. Tov. Im. Shevchenka, 5, (1) (2008), p. 36–46 (in Ukrainian). Zbl 1199.46075
35. M. M. Popov, An exact Daugavet type inequality for small into isomorphisms in L_1 , Arch. Math. (Basel), 90, No 6 (2008) p. 537–544. MR 2415297, DOI: <https://doi.org/10.1007/s00013-008-2559-2>
34. O. V. Maslyuchenko, V. V. Mykhaylyuk and M. M. Popov, Asymptotic structure and the existence of noncompact operators between Banach spaces, J. Funct. Anal., 253 (2) (2007), p. 550–560. MR 2370089 <https://doi.org/10.1016/j.jfa.2007.08.015>
33. M. M. Popov, Complemented subspaces and some problems of the modern geometry of Banach spaces, Mat. Siohodni, 13 (2007), p. 78–116 (in Ukrainian). MR 2541898 (2010h: 46017)
32. V. V. Mykhaylyuk and M. M. Popov, Weak embeddings of L_1 , Houston J. Math., 32 (4) (2006), p. 1139–1152. MR2268476, <https://www.math.uh.edu/~hjm/Vol32-4.html>
31. V. V. Mykhaylyuk and M. M. Popov, Some geometric aspects of operators acting from L_1 , Positivity, 10 (3) (2006), p. 431–466. MR2258952, <https://doi.org/10.1007/s11117-005-0041-y>
30. O. V. Maslyuchenko, V. V. Mykhaylyuk and M. M. Popov, Theorems on decomposition of operators in L_1 and their generalization to vector lattices, Ukr. Mat. Zh., 58 (1) (2006), p. 26–35 (in Ukrainian). English translation: Ukrainian Math. J. 58 (1) (2006), 26–35. MR2244903, DOI: <https://doi.org/10.1007/s11253-006-0050-4>
29. M. M. Popov, The Rosenthal subsequence splitting lemma in L_1 , Mat. Visn. Nauk. Tov. Im. Shevchenka, 2 (2005), p. 147–150 (in Ukrainian). Zbl 1144.46306
28. A. Martínez-Abejón, E. Odell, M. M. Popov, Some open problems on the classical function space L_1 , Mat. Stud., 24 (2) (2005), p. 173–191. MR2224004, http://matstud.org.ua/texts/2005/24_2/24_2_173_191.pdf
27. M. M. Popov, A property of convex basic sequences in L_1 , Methods Funct. Anal. Topology, 11 (4) (2005), p. 409–416. MR2243294, <http://mfat.imath.kiev.ua/article/?id=323>

26. O. V. Maslyuchenko, V. V. Mykhaylyuk and M. M. Popov, Asymptotic norm and compact operators, *Nauk. Visn. Chernivets'koho Univ., Mat. (Chernivtsi)*, 269 (2005), p. 73–75 (in Ukrainian). Zbl 1100.47502, <http://bmj.fmi.org.ua/index.php/adm/article/view/485>
25. M. M. Popov, Weak embeddings of L_1 , In: «Some Open Problems on Functional Analysis and Function Theory», eds. V. K. Maslyuchenko and A. M. Plichko, *Extracta Math.*, 20 (1) (2005), p. 66–67. Zbl 1092.46500, <https://www.eweb.unex.es/eweb/extracta/Vol-20-1/20J1Masly.pdf>
24. M. M. Popov, More examples of hereditarily l_p Banach spaces, *Ukr. Math. Bull.*, 2(1) (2005), p. 95–111. MR2172327 (2006h:46010)
23. M. M. Popov, A hereditarily l_1 subspace of L_1 without the Schur property, *Proc. Amer. Math. Soc.*, 133 (7) (2005), p. 2023–2028. MR2137868, <https://www.ams.org/journals/proc/2005-133-07/S0002-9939-05-07758-0/>
22. M. M. Popov, Sign-embeddings of the spaces L_p for $0 < p < 1$, *Nauk. Visn. Chernivets'koho Univ., Mat. (Chernivtsi)*, 228 (2004), p. 108–109 (in Ukrainian). Zbl 1069.47500, <http://bmj.fmi.org.ua/index.php/adm/article/view/451>
21. M. M. Popov, Daugavet type inequalities for narrow operators in the space L_1 , *Mat. Stud.*, 20 (1) (2003), p. 75–84. MR2019599 (2004i:46019), http://matstud.org.ua/texts/2003/20_1/75_84.pdf
20. V. M. Kadets and M. M. Popov, Some stability theorems on narrow operators acting in L_1 and $C(K)$, *Mat. Fizika, Analiz, Geom.*, 10 (1) (2003), p. 49–60. MR1937046, <https://jimage.ilt.kharkov.ua/main.php?page=10>
19. M. M. Popov, Reproducibility of sequences in Banach spaces, *Nauk. Visn. Chernivets'koho Univ., Mat. (Chernivtsi)*, 160 (2003), p. 104–108 (in Ukrainian). Zbl 1071.46020, <http://bmj.fmi.org.ua/index.php/adm/article/view/401>
18. M. M. Popov and B. Randrianantoanina, A pseudo-Daugavet property for narrow projections in Lorenz spaces, *Ill. J. Math.*, 46 (4) (2002), p. 1313–1338. MR1988266, <https://projecteuclid.org/euclid.ijm/1258138482>
17. M. M. Popov, On curves with values in F-spaces, *Nauk. Visn. Chernivets'koho Univ., Mat. (Chernivtsi)*, 76 (2000), p. 92–95 (in Ukrainian). Zbl 1039.26010, <http://bmj.fmi.org.ua/index.php/adm/article/view/315>
16. V. K. Maslyuchenko, V. V. Mykhaylyuk and M. M. Popov, Partitions of a segment into similar parts, *Nauk. Visn. Chernivets'koho Univ., Mat. (Chernivtsi)*, 46 (1999), p. 88–94 (in Ukrainian). Zbl 1039.26002, <http://bmj.fmi.org.ua/index.php/adm/article/view/284>
15. V. M. Kadets and M. M. Popov, The Daugavet property for narrow operators in rich subspaces of $C[0,1]$ and $L_1[0,1]$, *Algebra i Analiz*, 8 (4) (1996), p. 43–62 (in Russian). English translation: *Petersburg Math. J.* 8 (1997), 571–584. MR1418254, http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=aa&paperid=728&option_lang=eng
14. M. M. Popov, On integrability in F-spaces, *Stud. Math.*, 110 (3) (1994), p. 205–220. MR1292843, <https://www.impan.pl/en/publishing-house/journals-and-series/studia-mathematica/all/110/3/108433/on-integrability-in-f-spaces> DOI: 10.4064/sm-110-3-205-220
13. V. M. Kadets and M. M. Popov, On the Liapunov convexity theorem with applications to sign-embeddings, *Ukr. Mat. Zh.*, 44 (9) (1992), p. 1192–1200. MR1211141
12. A. N. Plichko and M. M. Popov, Symmetric function spaces on atomless probability spaces, *Dissertationes Mathematicae*, 306 (1990), p. 1–85. MR1082412

<http://pdlm1.icm.edu.pl/pdlm1/element/bwmeta1.element.zamlynska-536d8afd-fad6-4cef-b63c-d2829aea1ffd>

11. M. M. Popov, An elementary proof of the absence of nonzero compact operators defined on the space L_p , $0 < p < 1$, *Mat. Zametki*, 47 (5) (1990), p. 154–155 (in Russian). MR1068071, http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=mzm&paperid=3251&option_lang=eng

10. V. M. Kadets, A. N. Plichko and M. M. Popov, Complete minimal systems of a certain type in Banach spaces, *Izv. Vuzov. Mat.*, 5 (1988), p. 33–40 (in Russian). English translation: *J. Soviet Math. (Iz. VUZ)*, 32 (5) (1988), p. 39–48. MR0960964, http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=ivm&paperid=7958&option_lang=eng

9. M. M. Popov, Norms of projections in $L_p(\mu)$ with «small» kernels, *Funkts. Analiz i Prilozhen.*, 21 (2) (1987), p. 86–87 (in Russian). English translation: *J. Soviet Math.*, 21 (2) (1987), p. 162–163. MR0902304, <https://link.springer.com/article/10.1007%2FBF01078037#citeas>

8. M. M. Popov, Isomorphic classification of the spaces L_p for $0 < p < 1$, *Teor. Funkts., Funkts. Anal. Primenen. (Kharkov)*, 47 (1987), p. 77–85 (in Russian). English translation: *J. Soviet Math.*, 48 (6) (1990), p. 674–681. MR0916446, <http://rave.ohiolink.edu/ejournals/article/330666385> DOI: 10.1007/BF01094722

7. V. M. Kadets and M. M. Popov, Schauder bases which are conditional at each hyperoctant, *Sibirsk. Mat. Zh.*, 28 (1) (1987), p. 115–118 (in Russian). English translation: *Sib. Math. J.*, 28 (1) (1987), p. 86–89. MR0886859

6. A. N. Plichko and M. M. Popov, Bases in nonseparable symmetric spaces and spaces of almost periodic functions, *Izv. Vuzov. Mat.*, 4 (1987), p. 50–59 (in Russian). MR0904981 (89e:46034), http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=ivm&paperid=7729&option_lang=eng

5. V. K. Maslyuchenko and M. M. Popov, An invariant of partially ordered sets, *Mat. Zametki*, 38 (6) (1985), p. 866–871 (in Russian). English translation: *Math. Notes*, 38 (6) (1985), p. 981–984. MR0823424, http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=mzm&paperid=5599&option_lang=eng

4. M. M. Popov, Codimension of subspaces of $L_p(\mu)$ for $p < 1$, *Funkts. Analiz i Prilozhen.*, 18 (2) (1984), p. 94–95 (in Russian). English translation: *Funct. Anal. Appl.*, 18 (2) (1984), p. 168–170. MR0745720, <https://link.springer.com/article/10.1007%2FBF01077844>

3. L. N. Gurvitz, V. K. Maslyuchenko and M. M. Popov, Ordinal characteristics of partially ordered sets, *VINITI Report, Chernovtsy State Univ.*, (1983), 25 p. (in Russian).

2. N. Kurganetsky, M. Bzovy, M. Popov, V. Savulyak and A. Lopushanskaya, Determination of optimal conditions for obtaining crystals with uniform distribution of an admixture, *Fizicheskaya Khimiya (Moscow)*, 57 (1) (1983), p. 38–42 (in Russian).

1. M. M. Popov, Logical connectives as derivatives of the rules of inference, *Semiotika i Informatika (Moscow)*, 21 (1983), p. 89–107 (in Russian). MR0724439

III Anniversary articles and obituaries

9. Mikhail Ostrovskii (for his 60th birthday) 13 (1) (2021), 272–283. *Carpathian Math. Publ.* <https://journals.pnu.edu.ua/index.php/cmp/article/view/5118/5576>

8. Yo. V. Ostrovskii (April 6. 1934 - November 29, 2020), *Mat. Studii.* 54 (2) (2020), 222–224. <http://matstud.org.ua/ojs/index.php/matstud/article/view/166>

7. Maslyuchenko Volodymyr (September 26. 1950 - September 25, 2020), *Mat. Studii.* 54 (1) (2020), 111–112. <http://matstud.org.ua/ojs/index.php/matstud/article/view/134>
6. Vladimir Mikhailovich Kadets (to 60th anniversary), *Visnyk of V.N. Karazin Nat. Univ. Ser. Math., Appl. Math. and Mech.* 92 (2020), 57–58. <http://vestnik-math.univer.kharkov.ua/Visnyk-KhNU-92-2020-Kadets.pdf>
5. Anatolij Mykolajovych Plichko (on the 70-th anniversary), *Mat. Visn. Nauk. Tov. Im. Shevchenka* 16 (2019), 1–25 (in Ukrainian).
4. Mikhail Iosipfovich Kadets, *Russian Math. Surveys* 66 (4) (2011), 179–180.
3. To the 60-th anniversary of V.K.Maslyuchenko, *Mat. Visn. Nauk. Tov. Im. Shevchenka* 7 (2010), 455–483 (in Ukrainian). <http://journals.iapmm.lviv.ua/ojs/index.php/MBSSS/article/view/169>
2. Anatolij Mykolajovych Plichko (on the 60-th anniversary), *Mat. Visn. Nauk. Tov. Im. Shevchenka* 6 (2009), 294–312 (in Ukrainian). Zbl 1199.01049
1. Mikhail Iosiphovich Kadets (to 80-th birthday ann.), *Uspekhi Mat. Nauk*, 59 (5) (2004), p. 183–185 (in Russian). English translation: *Russian Math. Surveys* 59 (2004), no. 5, p. 1001–1004 MR2125945, DOI: <https://doi.org/10.4213/rm790>