Alexander A. Borisenko

Publications

Articles

1. On spherical image of a shortest line on a convex surface. *Ukr.Geom.Sb.*, 1971, Vol.10, p. 11-12.

2. On the structure of hypersurfaces with a spherical image of zero hausdorf measure. *Ukr.Geom.Sb.,* 1972, Vol.12, p. 36-45.

3. On the class of Riemannian spaces of a strong negative curvature. *Ukr.Geom.Sb.*, 1973, Vol.13, p. 15-18.

4. On the structure of one dimensional surfaces with a degenerated second fundamental form in *n*-dimensional Euclidean space. *Ukr.Geom.Sb.*, 1973, Vol. 13, p. 18-27.

5. On the structure of a continuous surface, containing straight line. *Ukr.Geom.Sb.,* 1973, Vol.14, p. 21-24.

6. On complete surfaces in the spaces of a constant curvature. *Ukr.Geom.Sb.*, 1974, Vol. 15, p. 8-16.

7. On compact surfaces of nonpositive extrinsic curvature in the spherical space. *Ukr.Geom.Sb.*, 1975, Vol. 17, p. 33-35.

8. On straight lines on the complete noncompact 2-dimensional Riemannian manifold. *Ukr.Geom.Sb.*, 1975, Vol. 17, p. 35-44.

9. On the Euler characteristic of compact surfaces of the negative extrinsic curvature in Riemannian space. *Ukr.Geom.Sb.*,1975, Vol. 18, p. 20-25.

10. On saddle surfaces in the spherical space. *Ukr.Geom.Sb.*, 1975, Vol. 18, p. 25-27.

11. On compact surfaces of negative extrinsic curvature in Riemannian space. *Ukr.Geom.Sb.*, 1976, Vol. 19, p. 9-11.

12. On isometric imbedding of the pseudoriemannian spaces of a constant curvature. *Ukr.Geom.Sb.*, 1976, Vol. 19, p. 11-19.

13. A class of a Riemannian space. *Mathem. Encyclopaedia*, 1979, Vol. 1.

14. Complete *l*-dimensional surfaces of nonpositive extrinsic curvature in a Riemannian space. *Mat. Sb. (N.S.)*, 1977, Vol. 104(146), Issue 4(12), p. 559–576. (English translation*: Math. USSR-Sb.*, 1977, Vol. 33, Issue 4, p. 485–499).

15. The correction to the paper "On a structure of hypersurfaces with a zero spherical of Hausdorf measure". *Ukr.Geom.Sb.*, 1978, Vol. 21, p.141.

16. Curvature. *Encyclopaedia(Ukraine)*, 1980.

17. On Pontryagin classes of compact surfaces in a spherical space. *Ukr.Geom.Sb.*, 1980, Vol. 23, p. 24-30.

18. On compact surfaces with a field of principal directions in a spherical space. *Ukr.Geom.Sb.,* 1980, Vol.23, p.30-32.

19. Surfaces of nonpositive extrinsic curvature in spaces of constant curvature. *Mat. Sb. (N.S.)*, 1981, Vol. 114(156), Issue 3, p. 339–354. (English translation: *Math. USSR-Sb.*, 1982, Vol.42, Issue 3, p. 297–310).

20. Extrinsically geometric, topological properties of parabolic and saddle surfaces in symmetric spaces of rank one. *Dokl. Akad. Nauk SSSR*, 1981, Vol. 23, Issue 2, p. 783-788.

21. On parabolic surfaces in the Euclidean spaces. *Ukr.geom.Sb.*, 1982, Vol. 25, p.3-6.

22. On an explicitly defined minimal surfaces. *Ukr.geom.Sb.,* 1982, Vol. 25, p. 6-8.

23. On the extrinsic geometric properties of parabolic surfaces and topological properties of saddle surfaces in symmetric spaces of rank one. *Mat. Sb. (N.S.)*, 1981, Vol. 116(158), Issue 3(11), p. 440-457. (*English translation: Math. USSR-Sb.*, 1983, Vol. 44, Issue 3, p. 401-415).

24. The surfaces with a degenerated spherical image (co-author Lisitsa V.T.). *Ukr.Geom.Sb.*, 1984, Vol.27, p. 12-22.

25. On complete parabolic surfaces in a Euclidean space. *Ukr.Geom.Sb.*, 1985, Vol.28, p. 8-19.

26. On some classes of multidimensional surfaces. *Ukr.Geom.Sb.*, 1986, Vol.29, p.5-12. (English translation: *Journal of Soviet Mathematics*, 1990, Vol. 51, № 2, p. 2191-2196).

27. On cylindercity of the tangent bundles of the strong parabolic metrics and the strong parabolic surfaces (co-author Yampolsky A.L.). *Ukr.Geom.Sb.*,1986, Vol. 29, p. 12-32. (English translation: *Journal of Soviet Mathematics*, 1990, V.51, № 2, p. 2197-2212).

28. On algebraic surfaces defined by a homogeneous polynomial (co-author Nikolaevsky J.A.). *Ukr.geom.Sb.,* 1987, Vol.30, p. 3-10. (English translation: *Journal of Soviet Mathematics,* 1990, Vol. 51, Issue 5, p. 2497-2502).

29. Sectional curvature of the Sasaki metric (coauthor Yampolsky A. L.). *Ukr.Geom.Sb.*, 1987, Vol.30, p.10-18. (English translation: *Journal of Soviet Mathematics*, 1990, Vol. 51, Issue 5, p. 2503-2508).

30. On the Sasaki metric of tangent and normal bundles (co-author Yampolsky A. L.) *Dokl. Akad. Nauk SSSR*, 1987, V. 294, Issue 1, p. 19-23.

31. On extremal properties of compact surfaces on nonpositive extrinsic curvature. *Dokl. Akad. Nauk SSSR*, 1987, Vol.133, Issue 1, p. 12-126.

32. On the Sasaki metric of tangent and normal bundle of the submanifold in a Riemannian manifold (co-author Yampolsky A.L.). *Mat. Sb. (N.S.)*, 1987, Vol. 134 (176), Issue 2 (10), p. 440-457. (English translation*: Math. USSR-Sb.*, 1989, Vol. 62, Issue 1, p. 157-175).

33. On extremal properties of compact parabolic surfaces in a Riemannian space. *Mat. Sb. (N.S.)*, 1987, Vol. 133(175), Issue 1(5), p. 112-126. (English translation*: Math. USSR-Sb.*, 1988, Vol. 61, Issue 1, p. 113-127).

34. Normal curvature and the topological structure of multidimensional surfaces in a spherical space. *Ukr.Geom.Sb.*, 1988, Vol. 31, p.3-14 (English translation: *Journal of Soviet Mathematics,* 1991, Vol. 54, Issue 1, p. 675-678).

35. A characteristic property of multidimensional cylindrical surfaces (co-author Ushakov V.G.). *Ukr.Geom.Sb.,*1988, Vol.31, p.19-25. (English translation: *Journal of Soviet Mathematics,* 1991, Vol. 54, Issue 1, p. 678-683).

36. Surfaces with Chern–Lashof absolute curvature equal to the area of the Grassmann image. *Math. Zametki,* 1989, Vol.46, Issue 3, p.9-11. (English translation: *Mathematical Notes*, 1989, Vol. 46, Issue 3, p. 687-688).

37. Classification of the points of three-dimensional surfaces according to the Grassmann image. (co-author NikolaevskyJ.A.). *Ukr.Geom.Sb.,*1989, Vol.32, p.17-27. (English translation: *Journal of Soviet Mathematics*, 1992, Vol. 59, Issue 2, p. 697-709).

38. On surfaces with maximal curvature of the Grassmanian image (co-author Nikolaevsky J.A.). *Math. Zametki*, 1990, Vol.48, Issue 3, p. 12-20. (English translation: *Mathematical Notes,* Vol.48, Issue 3, p. 880-885).

39. Affine classification of points of multidimensional surfaces. *Sibirsk. Mat. Zh.*, 1990, Vol. 31, Issue 3, p. 19-30. (English translation: *Siberian Mathematical Journal*, 1990, Vol. 31, № 3, p. 379-387).

40. Cylindrical multidimensional surfaces in Lobachevsky space. *Ukr.Geom.Sb.,* 1990, Vol.33, p. 18-27. (English translation: *Journal of Soviet Mathematics*, 1991, Vol. 53, Issue 5, p. 474-480).

41. The isometric immersion of strongly parabolic metrics in the class of strongly parabolic surfaces. (co-author Ushakov V.G.). *Ukr.Geom.Sb.*, 1990, Vol.33, p.27-36. (English translation: *Journal of Soviet Mathematics*, 1991, Vol. 53, Issue 5, p. 481-487).

42. The structure of an infinite, complete, convex hypersurface in E^4 with bounded mean curvature. (co-author Sergienko L.N.). *Ukr.Geom.Sb.*,1991, Vol. 34, p.8-9. (English translation: *Journal of Mathematical Sciences*, 1994, Vol. 69, Issue 1, p. 829-830).

43. Unique determination of multidimensional submanifolds of Euclidean space from the Grassmann image. *Math. Zametki*, 1992, Vol.51, Issue 1, p. 8-15. (English translation: *Mathematical Notes,* 1992, Vol.51, Issue 1, p. 6-11).

44. Isometric submanifolds of arbitrary codimension in Euclidean space with the same Grassmann image. *Math. Zametki*, 1992, Vol.52, Issue 4, p. 29-34. (English translation: *Mathematical Notes,* 1992, Vol.52, Issue 4, p. 1012–1015).

45. A Liouville-type theorem for the equation of special Lagrangian manifolds. *Math. Zametki*, 1992, Vol.52, Issue 5, p. 22-25. (English translation: *Mathematical Notes,* 1992, Vol. 52, Issue 5, p. 1094-1096).

46. On the structure of parabolic Kahler submanifolds in Kahler manifolds (co-author Ostroumov S.A.). *Journal of Mathematical Physics, Analysis, Geometry,* 1994, Vol.1, Issue 1, p. 60-77.

47. On the cylindricity of complete strongly parabolic Kahler submanifolds in complex Hermitian space (co-author Ostroumov S.A.). *Journal of Mathematical Physics, Analysis, Geometry*, 1995, Vol.2, Issue.3/4, p. 284-295.

48. On compact submanifolds of nonpositive external curvature in Riemannian spaces. *Math. Zametki*, 1996, Vol.60, Issue 1, p. 3-10. (English translation: *Mathematical Notes,* 1996, Vol.60, Issue 1, p. 3-7).

49. Convex surfaces in Lobachevsky space (co-author Vlasenko D.). *Journal of Mathematical Physics, Analysis, Geometry,* 1997, Vol.4, Issue 3, p. 1 -8.

50. Saddle submanifolds in Riemannian space (co-authors K. Tenenblat, M. Rabelo). *Geometriae Dedicata*,1997, Vol.67, Issue 2, p. 233-243.

51. Negative exterior curvature foliations on compact Riemannian manifolds. *Math. Zametki*, 1997, Vol.62, Issue 5, p. 673–676. (English translation: *Mathematical Notes,*1997*,* Vol. 62, Issue 2, p. 562–565).

52. Total curvature of convex hypersurfaces in hyperbolic space (co-author V.Miquel). *Ilinois Journal of Mathematics*, 43:1, 1999, p. l-17.

53. Strongly parabolic timelike submanifolds of Minkowski space (co-authors Rabelo M., Tenenblat K.). *Journal of Mathematical Physics, Analysis, Geometry*, 1999, Vol. 6, Issue 1-2, p. l-12.

54. Compact Hopf hypersurfaces. *Reports NASU*, 1999, Vol.8, p.13-17.

55. Asymptotic behavior of volume of convex sets in Adamar manifold (co-author D. Vlasenko). *Journal of Mathematical Physics, Analysis, Geometry*, 1999, Vol.6, No.3-4, p. 223-233.

56. On explicitly given saddle surfaces in a spherical space. *Uspechi Mat.Nauk*, 1999, Vol. 54, Issue 5, p.151-152. (English translation: *Russian Math. Surveys,* 1999, Vol. 54, Issue 5, p. 1021-1022)

57. On locally convex hypersurfaces in Hadamard manifolds. *Math. Zametki*, 2000, Vol. 67, Issue 4, p. 498–507. (English translation: *Mathematical Notes,* 2000*,* Vol.67, Issue 4, p. 425-432).

58. About volumes of convex bodies in manifolds of nonpositive sectional curvature (co-author D. Vlasenko). *Reports NASU*, 2000, Vol.6, p.10-14.

59. Relation between area and volume for lambda-convex sets in Hadamard manifolds (co-authors E.Gallego and A.Reventos). *Differential geometry and its Applications,* 2001, Vol. 14, p. 267-280.

60. On the global structure of Hopf hypersurfaces in a complex space form. *Illinois Journal of Mathematics,* 2001, Vol.45, № 1, p. 265-277.

61. Mathematics and Society. Universitates, 2001, № 1, p. l8-26.

62. The structure of Hopf hypersurfaces in Sasaki and 3-Sasaki space forms (co-author V.Miquel). *Proceedings of Toponogov's conference "Geometry and application",* Novosibirsk, Mathematics Institute, 2001, p. 17-25. (English translation: *Siberian Advances in Mathematics*, 2003, Vol. 13, Issue 3, p. 54-61).

63. A quantitative estimation of representative volume in hydrodynamics (co-author Nemets K.A., Yampolsky A.L.). *Bulletin of Kharkov National University, Ser. Geology-Geography-Economy,* 2001, Vol. 521, p. 93-100.

64. Comparasion Theorem on Hypersurfaces in Hadamard Manidold (co-author V.Miquel). *Diffferential Geometry and its Applications*, 2002, Vol. 17, p. 191-202.

65. Convex sets in Hadamard manifold, *Differential Geometry and its Applications*, 2002, Vol. 17, p. 111-121

66. Classification of the points of two-dimensional and three-dimensional complex submanifolds according to the Grassmann image (co-author O.V. Leybina). *Journal of Mathematical Physics, Analysis, Geometry,* 2002, Vol. 9, Issue 4, p. 572-594.

67. A.V. Pogorelov - outstanding mathematician of 20th century. *Universitates*, 2003, № 4, p. 55-60.

68. Complex submanifolds with extremal curvature (co-author Leybina O.V.). *Reports NASU*, 2004, Vol. 10, p. 10-14.

69. Extremal properties of Lobachevsky space (co-author Vlasenko DJ.). *Reports NASU*, 2004, Vol. 12, p. 13-20.

70. Convex hypersurfaces in Hadamard manifolds. *Complex Contact and Symmetric manifolds, Ser. Progress in Mathematics*, 2005, Vol. 234, p.50-68.

71. Geometry of submanifolds and Riemannian spaces. (co-author Leybina O.V., Yampolsky A.L.) *Fundamental guiding line of science (Mathematics, Informatics, Mechanics), Collections of articles, Kyiv, Publish House "Academperiodika"*, 2005, p. 43-57

72. Compact spacelike surfaces in the 3-dimensional de Sitter space. *Journal of Mathematical Physics, Analysis, Geometry*, 2006, Vol. 2, № 1, p. 3-8.

73. Pogorelov is the mathematician of wonderfull power, *Journal of Mathematical Physics, Analysis, Geometry,* 2006, № 3, p.231-268.

74. Hypothesis of Poincare and Thurston, *Universitates*, 2006, № 3, p. 24-33.

75. About topology of saddle submanifolds, (co-author V.Rovenski), *Differential Geometry and its Applications*, 2007. Vol. 25. № 2. p. 220-233.

76. Some comparison theorems in Finsler-Hadamard manifolds. (co-author Olin E.L.), *Journal of Mathematical Physics, Analysis, Geometry*, 2007, №3, p. 298-312.

77. Chern–Lashof Absolute Curvature of Complex Submanifolds and Volumes of Grassmann Images (co-author O.V. Leibina), *Math. Zametki*, 2007, Vol.81, Issue 5, p. 666–675. (English translation: *Mathematical Notes,* 2007, Vol.81, Issue 5, p. 596–604).

78. About connection between the volume and the area of balls in Finsler-Hadamard manifolds (co-author E.Olin). *Reports NASU*, 2007, Vol. 6, p. 1-4.

79. Asymptotic properties of Hilbert geometry (co-author E.Olin), *Journal of Mathematical Physics, Analysis, Geometry,* 2008, Vol.4, Issue 3, p. 327 – 345.

80. A. M. Lyapunov (1857-1918) (On his 150th birthday). *Visnyk, seriya "Math., Prikl. Math. and Mech."* 2008, Vol. 790, p. 41-52.

81. Alexei Mihajlovich Lyapunov (On his 150th birthday), *Universitates*, 2008, № 16, p. 84- 91.

82. On Isometric Immersion of Nilmanifolds in Euclidean space, *Math. Zametki*, 2010, Vol. 87, Issue 1, p. 130-132. (English translation: *Mathematical Notes,* 2010, Vol. 87, Issue 1, p. 122-124).

83. Some comparison theorems in Finsler and Minkowski spaces, *Acta Math. Academiae Paedagogicae Nyiregyhaziensis,* 2010, Vol. 26, No. 2, p. 231-245

84. The Global Structure of Locally Convex Hypersurfaces in Finsler–Hadamard Manifolds (co-author E.Olin), *Math. Zametki*, 2010, Vol. 87, Issue 2, p. 163–174. (English translation: *Mathematical Notes,* 2010, Vol.87, Issue 2, p. 155–164).

85. Gaussian mean curvature flow (co - author V.Miquel), *Journal of Evolution Equations*, 2010, Vol. 10, p. 413-423.

86. One-to-One Projectability of Closed Surfaces in a Spherical Space, *Math. Zametki*, 2011, Vol. 89, Issue 1, p. 120-121. (English translation: *Mathematical Notes,* 2010, Vol. 89, Issue 1, p. 131-132).

87. Surfaces in the Three-Dimensional Heisenberg Group on Which the Gauss Map Has Bounded Jacobian (co-author E. Petrov), *Math. Zametki*, 2011, Vol. 89, Issue 5, p. 794–796. (English translation: *Mathematical Notes,* 2011, Vol.89, Issue 5, p. 746–748).

88. Curvatures of hyperspheres in the Hilbert geometry (co-author E.Olin), *Reports of NASU*, 2011, Vol. 4, p. 15-19.

89. About an angle comparison theorem for closed curves (co-author K.Drach), *Reports of NASU*, 2011, Vol. 6, p. 7 - 11.

90.　About the curvature of some family of plane curves (co-author M.Golitsyna), *Reports of NASU*, 2011, Vol. 7, 2011, p. 12 - 16.

91.　On the 90th Anniversary of Geometry Department of Kharkiv University, *Universitates*, 2011, № 1, p. 58-66.

92.　Curvature hypersphere in Hilbert Geometry (co-author E.Olin). *Pacific Journal of Mathematics*, 2012, Vol. 254, Issue 2, p. 257-273.

93.　On the total curvature of curves in a Minkowski space (co-author Keti Tenenblat), *Israel Journal of Mathematics*, 2012, Vol.191, Issue 2, p. 755 – 769.

94.　Mean curvature flow of graphs in warped products (co-author Vicente Miquel), *Transactions of the American Mathematical Society*, 2012, Vol. 364, p. 4551-4587.

95.　About flag curvature of two-dimensional surfaces in three-dimensional Randers spaces (co-author S. Myroshnichenko). *Reports of NAS of Ukraine*, 2012, Vol. 11, p. 7-14.

96.　Closeness to spheres of hypersurfaces with normal curvature bounded below (co-author K. Drach), *Mat. Sb.*, 2013, Vol. 204, Issue 11, p. 21-40 (English translation: *Sbornik: Mathematics*, 2013, Vol. 204, Issue 11, p. 1565-1583).

97.　Isoperimetric Inequality for Curves with Curvature Bounded Below (co-author K. Drach). *Mat. Zametki.*, 2014, Vol. 95, Issue 5, p. 656–665 (English translation: *Math. Notes*, 2014, Vol. 95, Issue 5, p. 590–598).

98.　Extreme Properties of Curves with Bounded Curvature on a Sphere (co-author K. Drach), *Journal of Dynamical and Control Systems,* 2014., Vol. 20, № 1.

99.　Gaussian Mean Curvature Flow for Submanifolds in Space Forms (co-author V. Rovenski,), *Lecture Notes in Math.*, p. 39-50, serie: *Geometry and Algebra* (Springer Proceedings in Mathematics & Statistics), Vol. 72, 2014, p. 243.

100.　On the cylindricity of submanifolds containing a line in Minkowski space, *Mat. Sb.*, 2014, Vol. 205, Issue 7, p. 25-422 (English translation: *Sbornik: Mathematics*, 2014, Vol. 205, Issue 7, p. 936–952).

101.　On the total curvature of curves in nonsymmetric Minkowski spaces (co-author Miroshnichenko S.V.), *Reports of NAS of Ukraine*, 2014, Vol. 10, p. 7-11.

102.　Comparison theorem for the support functions of hypersurfaces (co-author K. Drach), *Reports of NASU*, 2015, Vol. 3, p. 11-16.

103.　Immersion of Kähler manifolds in the class of convex submanifolds, *Mat. Zametki.*, 2016, Vol. 100, Issue 4, p. 504–509 (English translation: *Math. Notes*, 2016, Vol. 100, Issue 4, p. 526–530).

104.　Reverse isoperimetric inequality in two-dimensional Alexandrov spaces*, Proceedings of the AMS*, 2017, Vol. 145, p. 4465-4471.

105. Outstanding mathematician, educator and organizer of science (To the 150th anniversary of Academician D.M. Syntsov), *Visn. Nac. Akad. Nauk Ukr.* 2017, Vol. 11, p. 85-91.

106. Convex hypersurfaces and Monge-Ampere equations, *Outstanding achievements. 1918-2018, NAS of Ukraine*, 2018, p. 23-25.

107. About the structure of multidimensional submanifolds with metric of revolution in Euclidean space, *Journal of Mathematical Physics, Analysis, Geometry*, 2019, Vol. 15, № 2, p. 192-202.

108. On the 100th anniversary of the birth of Aleksei Vasil'evich Pogorelov (co-author A. Yu. Vesnin, N. M. Ivochkina), Uspekhi *Mat. Nauk*, 2019, Vol. 74, Issue 6(450), p. 171-193. (English translation: *Russian Mathematical Surveys*, 2019, Vol. 74, Issue 6, p. 1135–1157).

109. A diamond, trimmed with tireless work (To the 100th anniversary of Academician of NAS of Ukraine O.V. Pogorelov), *Visn. Nac. Akad. Nauk Ukr.* 2019, Vol. 3, p. 85-96.

110. About Kharkiv Mathematicians, Members of the Academy of Sciences of Ukraine, *Journal of Mathematical Physics, Analysis, Geometry*, 2019, Vol. 15, № 2, p. 288-303.

111. A classification of simple closed geodesics on regular tetrahedra in the Lobachevsky space (co-author Sukhorebska D.D.). *Reports of NAS of Ukraine*, 2019, Vol. 4, p. 3-9.

112. Simple closed geodesics on regular tetrahedra in Lobachevsky space (co-author Sukhorebska D.D.). *Mat. Sb.*, 2020, Vol. 211, Issue 5, p. 3-30 (English translation: *Sbornik: Mathematics*, 2020, Vol. 211, Issue 5, p. 617–642).

113. An Estimation of the Length of a Convex Curve in Two-Dimensional Aleksandrov Spaces, *Journal of Mathematical Physics, Analysis, Geometry*, 2020, Vol 16, Issue 3, p. 221-227.

114. On cylindricity of submanifolds of nonnegative Ricci curvature in a Minkowski space (co-author Nikolaevsky J.A.), *Journal of Geometry and Physics*, 2020, Vol. 155, doi: 10.1016/j.geomphys.2020.103776.

115. Degenerate Bianchi Transformations for Three-Dimensional Pseudo-Spherical Submanifolds in R5 (co-author V.O. Gorkavyy). Mediterranean Journal of Mathematics, 18:4 (2021), 1-20.

116. Simple closed geodesics on regular tetrahedra in spherical space space (co-author Sukhorebska D.D.). *Mat. Sb.*, 212:8 (2021), c. 3–32. (English translation: *Sbornik: Mathematics*, 2021, Vol. 212, DOI:10.1070/SM9433).

Surveys

117. Grassmann manifolds and the Grassmann image of submanifolds (co-author Nikolaevsky J.A.). *Uspekhi Math. Nauk*, 1991, Vol. 46, Issue 2 (278), p.41-83. (English translation: *Russian Math. Surveys*, 1991, Vol. 46, Issue 2, p. 45-94).

118. Riemannian geometry of fibre bundles (co-author Yampol'skii A.L.). *Uspekhi Math. Nauk*, 1991, Vol. 46, Issue 6 (282), p.51-95 (English translation: *Russian Math. Surveys*, 1991, Vol. 46, Issue 6, p. 55-106).

119. Extrinsic geometry of strongly parabolic multidimensional submanifolds. *Uspekhi Math. Nauk*, 1997, Vol. 52, Issue 6 (318), p.3-52 (English translation: *Russian Math. Surveys*, 1997, Vol. 52, Issue 6, p. 1141–1190).

120. Extrinsic geometry of parabolic and saddle multidimensional manifolds. *Uspekhi Math. Nauk*, 1998, Vol. 53, Issue 6 (324), p.3-52 (English translation: *Russian Math. Surveys*, 1998, Vol. 53, Issue 6, p. 1111–1158).

121. Isometric immersions of space forms into Riemannian and pseudo-Riemannian spaces of constant curvature. *Uspekhi Math. Nauk*, 2001, Vol. 56, Issue 3 (339), p. 3-78 (English translation: *Russian Math. Surveys*, 2001, Vol. 56, Issue 3, p. 425–497).

Books

1.   Analytical geometry (co-author Ushakova L.N.). *Publ. "Osnova", Kharkov*, 1993, 191 p.

2.   Differential Geometry and Topology. *Publ. "Osnova", Kharkov*, 1995, 300 p.

3.   Intrinsic and extrinsic geometry of multidimensional submanifolds. *Publish house "Examen", Moskow,* 2003, 670 p.

4.   An introduction to Hamilton and Perelman's work on the conjectures of Poincare and Thurston, (co-authors E. Cabezas-Rivas, V. Miquel-Molina), *Matematiques*, 3,2 (2006), 150 p.