

Georgi Ganchev

List of papers

89. **G. Ganchev**, V. Milousheva, *Meridian Surfaces of Parabolic Type in the Four-dimensional Minkowski Space*. [Proc. 17th Int. Conf. Geometry, Integrability and Quantization](#), Ivalo Mladenov, Guowu Meng and Akira Yoshioka, eds., Avangard Prima, Sofia (2016), 243-255.
doi: 10.7546/giq-17-2016-243-255
88. **G. Ganchev**, V. Milousheva, *Meridian Surfaces of Elliptic or Hyperbolic Type in the Four-dimensional Euclidean Space*. [Math. Commun.](#), **21** (2016), 1-21.
(IF 0.284 - 14)
87. Y. Aleksieva, **G. Ganchev**, V. Milousheva, *On the Theory of Lorentz Surfaces with Parallel Normalized Mean Curvature Vector Field in Pseudo-Euclidean 4-Space*, [Bull. Korean Math. Soc.](#), **53** (2016),
(IF 0.228 - 14)
86. **G. Ganchev**, V. Milousheva, *Special Classes of Meridian Surfaces in the Four-dimensional Euclidean Space*. [Bull. Korean Math. Soc.](#), **52**(2015), 6, 2035-2045.
<http://dx.doi.org/10.4134/BKMS.2015.52.6.2035>
(IF 0.228 - 14)
85. **G. Ganchev**, V. Mihova, *A Classification of Conformally Flat Riemannian Manifolds Locally Isometric to Hypersurfaces in Euclidean or Minkowski Space*. [Ann. Sofia Univ., Fac. Math and Inf.](#), **102** (2015)
84. **G. Ganchev**, V. Milousheva, *General rotational surfaces in the four-dimensional Minkowski space*, [Turkish Journal of Mathematics](#), **38** (2014), 883-895.
DOI:10.3906/mat-1312-10
(IF 0.333)
83. **G. Ganchev**, K. Kanchev, *Explicit Solving of the System of Natural PDE's of Minimal Surfaces in the Four-Dimensional Euclidean Space*, [C. R. Acad. Bulg. Sci](#), **67** (2014), 5, 623-628.
(IF 0.198)
82. **G. Ganchev**, V. Milousheva, *Quasi-minimal Rotational Surfaces in Pseudo-Euclidean Four-dimensional Space*, [Cent. Eur. J. Math.](#), **12** (2014), 10, 1586-1601.
DOI 10.2478/s11533-014-0430-1
(IF 0.578)
81. V. Mihova, **G. Ganchev**. *Partial differential equations of time-like Weingarten surfaces in the three-dimensional Minkowski space*. [Ann. Sofia Univ., Fac. Math. and Inf.](#), **101** (2013), 143-165.
80. **G. Ganchev**, V. Mihova, *Directed Riemannian manifolds of pointwise constant relative sectional curvature*, [C. R. Acad. Bulg. Sci.](#), 66 (2013), 11, 1505-1514.
(IF 0.198)
79. **G. Ganchev**, V. Milousheva, *Marginally trapped meridian surfaces of parabolic type in the four-dimensional Minkowski space*. [Int. J. of Geom. Methods in Modern Phys.](#),

- (2013), 10, 1350060 (17 pages).
 DOI: 10.1142/s0219887813500606
 (IF 0.617)
78. **G. Ganchev**, V. Milousheva. *Timelike surfaces with zero mean curvature in Minkowski 4-space*. *Israel J. Math.*, **196** (2013), 1, 413-433.
 DOI: 10.1007/s11856-012-0169-y
 (IF 0.659)
77. **G. Ganchev**, V. Mihova. *Space-like Weingarten surfaces in the three-dimensional Minkowski Space and their natural Partial Differential Equations*. *Cent. Eur. J. Math.* **11**, (2013),1, 133-148.
 DOI: 10.2478/s11533-012-0044-4
 (IF 0.519)
76. **G. Ganchev**, V. Milousheva, *An Invariant Theory of Surfaces in the four-dimensional Euclidean or Minkowski space*, *Pliska Studia Mathematica Bulgarica*, 21 (2012), 101-124.
75. **G. Ganchev**, V. Milousheva. *An invariant theory of marginally trapped surfaces in the four-dimensional Minkowski space*. *J. Math. Phys.* 53, (2012) 033705 (15 pages)
<http://dx.doi.org/10.1063/1.3693976>
 (IF 1.296)
74. **G. Ganchev**, V. Milousheva. *An invariant theory of spacelike surfaces in the four-dimensional Minkowski space*. *Mediterr. J. Math.*, 9 (2012), 2, 267-294.
 DOI 10.1007/s00009-010-0108-2
 (IF 0.641)
73. **G. Ganchev**, V. Milousheva. *Chen Rotational Surfaces of Hyperbolic or Elliptic Type in the Four-dimensional Minkowski Space*, *C. R. Acad. Bulg. Sci.*, 64 (2011), 5, 641-652.
 (IF 0.210)
72. **G. Ganchev**, V. Milousheva. *Invariants and Bonnet-type theorem for surfaces in R^4* . *Cent. Eur. J. Math.*, 8 (2010), 6, 993-1008.
 DOI: 10.2478/s11533-010-0073-9
 (IF 0.581)
71. **G. Ganchev**, V. Mihova. *On the invariant theory of Weingarten surfaces in Euclidean space*. *J. Phys. A: Math. Theor.* 43 (2010) 405210-405236.
[doi:10.1088/1751-8113/43/40/405210](https://doi.org/10.1088/1751-8113/43/40/405210)
 (IF 1.779)
70. **G. Ganchev**, V. Milousheva. *Invariants of lines on surfaces in R^4* . *C. R. Acad. Bulg. Sci.*, 63 (2010), 6, 835-842.
 (IF 0.219)
69. **G. Ganchev**, V. Milousheva. *On the theory of surfaces in the four-dimensional Euclidean space*. *Kodai Math. J.*, 31 (2008), 183-198.
68. **G. Ganchev**, N. Nikolov. *Isogonal Conjugacy and Fermat Problems*. *Matematicheskoe Prosveshchenie*, III, 12 (2008), 185-194. (In Russian)
67. **G. Ganchev**, V. Mihova. *Warped Product Kaehler Manifolds and Bochner-Kaehler*

- Metrics. J. Geom. Phys.* 58 (2008), 7, 803-824.
DOI: 10.1016/j.geomphys.2008.02.002
(IF 0.683)
66. **G. Ganchev**, V. Mihova. *Kahler manifolds of quasi-constant holomorphic sectional curvature. Cent. Eur. J. Math.*, 6 (2008) 1, 43-75.
DOI: 10.2478/s11533-008-0004-1
65. **G. Ganchev**, O. Kassabov. *Hermitian manifolds of pointwise constant antiholomorphic sectional curvatures. Serdica Math. J.*, 33 (2007), 2-3, 377-386.
64. **G. Ganchev**, V. Milousheva. *Analytical characterization of the minimal and bi-umbilical foliated semi-symmetric hypersurfaces in euclidean space. C. R. Acad. Bulg. Sci.*, 60 (2007), 6, 601-606.
(IF 0.106)
63. **G. Ganchev**, V. Milousheva. *On the Geometric Structure of Hypersurfaces of Conullity Two in Euclidean Space. Proc. 8 th Int. Conf. Geometry, Integrability and Quantization*, Varna, 2006, Eds. I. Mladenov and G. Naber, (2007), 169-183.
62. **G. Ganchev**, V. Mihova. *Kahler manifolds admitting a flat complex conformal connection. Kodai Math. J.*, 30 (2007), 2, 237-245.
61. **G. Ganchev**, V. Mihova. *Kahler metrics generated by functions of the time-like distance in the flat Kahler-Lorentz space. J. Geom. Phys.*, 57 (2007), 2, 617-640.
DOI: 10.1016/j.geomphys.2006.05.004
(IF 0.986)
60. **G. Ganchev**, V. Milousheva, *A generation of foliated semi-symmetric hypersurfaces in the four-dimensional Euclidean space. Mathematica Balkanica*, 21 (2007), 1-2, 97-111.
59. **G. Ganchev**, O. Kassabov, *Hermitian manifolds with flat associated connection. Kodai Math. J.*, 29 (2006), 2, 281-298.
58. **G. Ganchev**, V. Milousheva, *Foliated semi-symmetric hypersurfaces in Euclidean space with involutive geometric two-dimensional distribution. C. R. Acad. Bulg. Sci.*, 59 (2006), 1, 5-10.
57. **G. Ganchev**, *Involutive distributions of codimension one in Kaehler manifolds. Trends in Complex Analysis, Differential Geometry and Mathematical Physics. Proc. 6th International Workshop on Complex Structures and Vector Fields*, Varna, 2002, Eds. S. Dimiev and K. Sekigawa, World Scientific, (2003), 30-40.
56. V. Milousheva, **G. Ganchev**, *One-parameter systems of developable surfaces of codimension two in Euclidean space. Proc. 3 rd Int. Conf. Geometry, Integrability and Quantization*, Varna, 2001, Eds. I. Mladenov and G. Naber, (2002), 328-336.
55. **G. Ganchev**, M. Hristov. *Riemannian curvatures of the four basic classes of real hypersurfaces of a complex space form. Proc. 3rd Int. Conf. Geometry, Integrability and Quantization*, Varna, 2001, Eds. I. Mladenov and G. Naber, (2002), 238-248.
54. **G. Ganchev**, M. Hristov. *Real hypersurfaces of a Kaehler manifold (The sixteen classes). Perspectives of Complex Analysis and Mathematical Physics. Proc. 5th International Workshop on Complex Structures and Vector Fields*, Varna, 2000, Eds S. Dimiev and K. Sekigawa, World Scientific, (2001), 147-158.

53. **G. Ganchev**, V. Milousheva . *Hypersurfaces of conullity two in Euclidean space which are one-parameter systems of torses*. Perspectives of Complex Analysis and Mathematical Physics. Proc. 5th International Workshop on [Complex Structures and Vector Fields](#), Varna, 2000, Eds S. Dimiev and K. Sekigawa, World Scientific, (2001), 135-146.
52. **G. Ganchev**, V. Mihova. *Hypersurfaces in Euclidean space which are one-parameter families of spheres*. Perspectives of Complex Analysis and Mathematical Physics. Proc. 5th International Workshop on [Complex Structures and Vector Fields](#), Varna, 2000, Eds S. Dimiev and K. Sekigawa, World Scientific, (2001), 125-134.
51. **G. Ganchev**, S. Ivanov. *Harmonic and holomorphic 1-forms on compact balanced Hermitian manifolds*. [Differential Geometry and its Applications](#), 14 (2001) 79-93.
(IF 0.375)
50. **G. Ganchev**, V. Mihova. *Riemannian manifolds of quasi-constant sectional curvatures*. [Journal für die reine und angewandte Mathematik \(Crelles Journal\)](#), 522 (2000) 119-141.
(IF 0.718)
49. **G. Ganchev**, S. Ivanov. *Holomorphic and Killing vector fields on compact balanced Hermitian manifolds*. [International Journal of Mathematics](#), 11 (2000) 1, 15-28.
(IF 0.591)
48. V. Apostolov, **G. Ganchev**, S. Ivanov. *Compact Hermitian Surfaces of Constant Antiholomorphic Sectional Curvatures*. [Proc. Amer. Math. Soc.](#), 125 (1997) 12, 3705-3714.
(IF 0.273)
47. **G. Ganchev**, V. Mihova. *On the Riemannian geometry of a developable hypersurface in the Euclidean space*. [Compt. rend. l'Acad. bulg. Sci.](#), 50 (1997) 1, 17-20.
46. **G. Ganchev**, S. Ivanov. *Compact Hermitian Surfaces of Einstein Type with Respect to the Hermitian Connection*. [Monatshefte für Mathematik](#), 123 (1997) 53-59.
(IF 0.326)
45. **G. Ganchev**. *Hermitian and associated curvatures on Hermitian manifolds*. Proceedings of the International Workshop: [Almost Complex Structures](#), 1992, World Scientific Publishing, Singapore, (1994) 185-203.
44. **G. Ganchev**, V. Mihova, K. Gribachev. *Almost contact manifolds with B-metric*. [Mathematica Balkanica](#), 7 (1993) 3-4, 261-276.
43. **G. Ganchev**, S. Ivanov, V. Mihova. *Curvatures on Anti-Kaehler manifolds*. [Rivista di Mat. della Univ. di Parma](#), 2 (1993) 5, 249-256.
42. **G. Ganchev**, S. Ivanov. *Characteristic curvatures on complex Riemannian manifolds*. [Rivista di Mat. della Univ. di Parma](#), 1 (1992) 5, 155-162.
41. **G. Ganchev**, S. Ivanov. *Connections and curvatures on complex Riemannian manifolds*. [Internal Report, ICTP, Miramare-Trieste](#), 41 (1991) 1-46
40. **G. Ganchev**, S. Ivanov, V. Mihova. *Hermitian sectional curvatures on Hermitian manifolds*. [Internal Report, ICTP, Miramare-Trieste](#), 40 (1991) 1-33.
39. **G. Ganchev**, V. Alexiev. *Canonical conformal group and its invariants on an almost contact metric manifold*. [Compt. rend. l'Acad. bulg. Sci.](#), 42 (1989) 8, 15-18.

38. V. Alexiev, **G. Ganchev**. *On a class of almost contact metric manifolds conformally related to cosymplectic manifolds.* *Compt. rend. l'Acad. bulg. Sci.*, 41 (1988) 10, 21-24. (IF 0.126)
37. **G. Ganchev**, S. Ivanov. *Semi-symmetric W-metric connections and the W-conformal group.* *Ann. l'Univ. Sofia, Math.*, 81 (1987) 181-193.
36. **G. Ganchev**, V. Mihova. *Canonical connection and the canonical conformal group on an almost complex manifold with B-metric.* *Ann. l'Univ. Sofia, Math.*, 81 (1987) 195-206.
35. V. Alexiev, **G. Ganchev**. *Canonical connection on a conformal almost contact metric manifold.* *Ann. l'Univ. Sofia, Math.*, 81 (1987) 29-38.
34. **G. Ganchev**, K. Gribachev, V. Mihova. *B-connections and their conformal invariants on conformally Kaehler manifolds with B-metric.* *Publications de l'Inst. Math., N.S.*, 42 (1987) 107-121.
33. **G. Ganchev**, S. Ivanov. *The autoparallel plane axiom on a differentiable manifold with a linear connection.* *Compt. rend. l'Acad. Bulg. Sci.*, 40 (1987) 4, 31-34. (IF 0.130)
32. **G. Ganchev**, S. Ivanov. *The totally geodesic plane axiom on a differentiable manifold with a linear connection.* *Compt. rend. l'Acad. Bulg. Sci.*, 40 (1987) 1, 33-36. (IF 0.130)
31. A. Borisov, **G. Ganchev**, O. Kassabov. *Curvature properties and isotropic planes of Riemannian and almost Hermitian manifolds of indefinite metrics.* *Ann. l'Univ. Sofia, Math.*, 78 (1984) 121-131.
30. **G. Ganchev**, V. Mihova. *On the conformal curvature tensor in the Riemannian and the almost Hermitian geometry.* *Ann. l'Univ. Sofia, Math.*, 78 (1984) 158-171.
29. V. Alexiev, **G. Ganchev**. *Contact conformal transformations of contact metric structures.* *Compt. rend. l'Acad. bulg. Sci.*, 39 (1986) 9, 27-30. (IF 0.149)
28. **G. Ganchev**, V. Alexiev. *On some classes of almost contact metric manifolds.* *Math. and Educ. in Math.*, Proc. 15 Spring Conf. UBM, (1986) 186-191.
27. V. Alexiev, **G. Ganchev**. *On the classification of the almost contact metric manifolds.* *Math. and Educ. in Math.*, Proc. 15 Spring Conf. UBM, (1986) 155-161.
26. **G. Ganchev**, A. Borisov. *Note on the almost complex manifolds with Norden metric.* *Compt. rend. l'Acad. Bulg. Sci.*, 39 (1986) 5, 31-34. (IF 0.149)
25. **G. Ganchev**, K. Gribachev, V. Mihova. *Conformal invariants on conformal Kaehler manifolds with Norden Metric.* *Scientific Works of Plovdiv University, Mathematics*, **23** (1985) 1, 239-246. (in Bulgarian)
24. **G. Ganchev**, K. Gribachev, V. Mihova. *Holomorphic hypersurfaces of Kaehler manifolds with Norden metric.* *Scientific Works of Plovdiv University, Mathematics*, **23** (1985)1, 221-237. (in Bulgarian)
23. V. Alexiev, **G. Ganchev**. *Conformally invariant tensors on an almost contact metric*

- manifold*. [Scientific Works of Plovdiv University, Mathematics](#), **23** (1985)1, 221-237. (in Bulgarian)
22. **G. Ganchev**, A. Borisov. *Pinching problem and the plane axioms for Kaehlerian manifolds with B-metric*. [Math. and Educ. in Math., Proc. 14 Spring Conf. UBM](#), (1985) 227-233.
 21. A. Borisov, **G. Ganchev**. *Curvature properties of Kaehlerian manifolds with B-metric*. [Math. and Educ. in Math., Proc. 14 Spring Conf. UBM](#), (1985) 220-226.
 20. **G. Ganchev**, A. Borisov. *Isotropic sections and curvature properties of Hyperbolic Kaehlerian manifolds*. [Publications de l'Inst. Math., N. S.](#), **38** (1985) 183-192.
 19. **G. Ganchev**. *On Bochner curvature tensors in almost Hermitian manifolds*. [Pliska, Studia mathematica Bulgarica](#), **9** (1987), 33-42.
 18. **G. Ganchev**. *Almost Hermitian manifolds of the class AH_3 of conformal type*. [Math. and Educ. in Math., Proc. 12 Spring Conf. UBM](#), (1983) 80-84. (In Bulgarian)
 17. **G. Ganchev**, V. Mihova. *Conformal invariancy of the contact Bochner tensor of holomorphic type on almost contact metric manifolds*. [Scientific Works of Plovdiv University, Mathematics](#), **21** (1983)1, 240-254. (In Bulgarian)
 16. **G. Ganchev**, V. Alexiev. *Bochner curvature tensor of φ -antiholomorphic type on almost contact metric manifold*. [Scientific Works of Plovdiv University, Mathematics](#), **21** (1983) 1, 221-237. (In Bulgarian)
 15. **G. Ganchev**. *Two antiholomorphic operators, related to φ -invariant curvature tensors*. [Scientific Works of Plovdiv University, Mathematics](#), **20** (1982) 1, 175-189. (In Bulgarian)
 14. **G. Ganchev**, O. Kassabov. *Schur's theorem of antiholomorphic type for Quasi-Kaehlerian manifolds*. [Compt. rend. l'Acad. bulg. Sci.](#), **35** (1982) 3, 307-310. (IF 0.122)
 13. **G. Ganchev**, O. Kassabov. *Nearly Kaehler manifolds of constant antiholomorphic sectional curvature*. [Compt. rend. l'Acad. bulg. Sci.](#), **35** (1982) 2, 145-147. (IF 0.122)
 12. **G. Ganchev**. *Conformal type and Bochner tensors for almost Hermitian manifolds*. [Compt. rend. l'Acad. bulg. Sci.](#), **34** (1981) 8, 1065-1068. (IF 0.148)
 11. **G. Ganchev**. *Conformal type, Bochner tensor and generalized Bochner tensor for almost Hermitian manifolds with J-invariant curvature tensor*. [Compt. rend. l'Acad. bulg. Sci.](#), **34** (1981) 7, 945-948. (IF 0.148)
 10. **G. Ganchev**. *Almost Hermitian manifolds of constant type and vanishing generalized tensor of Bochner*. [Serdica](#) **7** (1981) 66-75.
 09. S. Stefanova, **G. Ganchev**. *Analogy between the first differential neighborhoods of two systems of n-dimensional linear subspaces in a bi-planar space of hyperbolic type*. [Scientific works of Plovdiv University, Mathematics](#), **18** (1980) 285-292. (In Bulgarian)

08. **G. Ganchev**, O. Kassabov. *Kaehler manifolds with linear relation between the curvatures of the antiholomorphic tangent spaces.* [Ann. Sofia Univ., Mathematics](#), **74** (1980) 11-19. (In Bulgarian)
07. O. Kassabov, **G. Ganchev**. *Almost hermitian manifolds with zero generalized Bochner tensor.* [Math. and Educ. in Math., Proc. 9 Spring Conf. UBM](#), (1980) 64-67. (In Bulgarian)
06. **G. Ganchev**. *Almost Hermitian manifolds with constant antiholomorphic sectional curvature.* [Math. and Educ. in Math., Proc. 9 Spring Conf. UBM](#), (1980) 25-29. (In Bulgarian)
05. **G. Ganchev**. *Almost Hermitian manifolds similar to the complex space forms.* [Compt. rend. l'Acad. bulg. Sci.](#), **3** (1979) 9, 1179-1182. (IF 0.120)
04. **G. Ganchev**. *An analogue of the theorem of Herglotz for QK_3 -manifolds.* [Math. and Educ. in Math., Proc. 8 Spring Conf. UBM](#), (1979), 149-153. (In Bulgarian)
03. **G. Ganchev**. *Characteristic of some classes of almost Hermitian manifolds.* [Serdica](#), **4** (1978) 19-23.
02. G. Stanilov, **G. Ganchev**. *A generalization of a theorem of S. Tachibana.* [Izv. VUZ, Mathematics](#), **174** (1976) 11, 66-70. (In Russian)
01. **G. Ganchev**. *On line complexes of linear autodual subspaces of the biplanar space of hyperboic type.* [Notices Inst Math BAS](#), **14** (1974) 277-285. (In Bulgarian)