

СПИСЪК НА ПУБЛИКАЦИИТЕ
ПРЕДСТАВЕНИ ЗА УЧАСТИЕ В КОНКУРСА

ИВАН НИКОЛОВ ЛАНДЖЕВ

1. Results on the support of BIB designs, *Journal of Statistical Planning and Inference*, **22**, 1989, 295–306 (with A.S.Hedayat and V.Tonchev). [MR 90d:05037][Zbl 674.05006]

Импакт-фактор:**0.398**

2. The possible support sizes for BIB designs with $v=8$, $k=4$, *Journal of Combinatorial Theory Ser. A*, **51**, 1989, 258–267 (with A.S.Hedayat and J.Stufken). [MR 91g:05014]

Импакт-фактор:**0.552**

3. Automorphisms of 2-(22,8,4) designs, *Discrete Mathematics*, **77**, 1989, 177–189 (with V.Tonchev). [MR 91a:05011]

Импакт-фактор:**0.162**

4. A new design, Coding Theory and Design Theory, Part II, The IMA Volumes in Mathematics and Its Applications, Vol. 21, Springer 1990, 251–256 (with J.H. van Lint and V.Tonchev). [MR 91f:05018]

5. On block designs with repeated blocks, *Discrete Mathematics*, **106/107**, 1992, 317–328.

Импакт-фактор:**0.162**

6. A family of codes derived from finite affine spaces, *Atti del Seminario Matematico e Fisico dell'Universita di Modena*, **XLII**, 1994, 455–466.

7. On near-MDS codes, *Journal of Geometry*, **54**, 1995, 30–43 (with S. Dodunekov). (also: Tech. Report, LiTH-ISY-R-1563, Linköping University, 1994)

8. Nonexistence of $[51, 4, 37]_4$ codes, *Finite Fields and Their Applications*, **2**, 1996, 96–110 (with R. Hill and T. Maruta).

9. On Steiner Triple Systems and their codes, *Designs, Codes and Cryptography*, **8**(1996), 29–43 (with A. Baartmans and V. Tonchev).

10. Constructions of divisible designs, *Designs, Codes and Cryptography*, **8**, 1996, 309–318.
11. On the quaternary $[11,6,5]$ and $[12,6,6]$ codes, Applications of Finite Fields (ed. D. Gollmann), IMA Conference Series 59, Clarendon Press, Oxford, 1996, 75–84 (with S. Dodunekov). (also: Tech. Report. LiTH-ISY-R1613, Linköping University, 1994)
12. On the nonexistence of some quaternary codes, Applications of Finite Fields (ed. D. Gollmann), IMA Conference Series 59, Clarendon Press, Oxford, 1996, 85–98 (with R. Hill) (also: Technical Report, University of Salford, MCS 94-05, 1994)
13. On the MacWilliams identities, *Compt. Rend. Bulg. Acad. Sci.*, **50**(9-10), 1997, 17–18.
14. Optimal linear codes of dimension 4 over \mathbb{F}_5 , Lecture Notes in Comp. Science, **1255**, 1997, 212–220.
15. The nonexistence of some ternary optimal codes of dimension five, *Designs, Codes and Cryptography* **15**, 1998, 245–258.
16. All Reed-Muller codes are linearly representable over the ring of dual numbers over \mathbb{Z}_2 , *IEEE Trans. on Information Theory*, **45**, 1999, 700–701 (with Th. Honold).

Импакт-фактор:**1.354**

17. Linearly representable codes over finite chain rings, *Abhandlungen des Mathematischen Seminars der Universität Hamburg*, **69**, 1999, 187–203 (with Th. Honold).

Импакт-фактор:**0.241**

18. On the minimum length of quaternary linear codes of dimension five, *Discrete Mathematics*, **202**, 1999, 145–161 (with T. Maruta).

Импакт-фактор:**0.231**

19. Linear codes over finite chain rings, *Electronic Journal of Combinatorics*, **7**(1), 2000, R11 (with Th. Honold).
20. Near-MDS Codes over some small fields, *Discrete Mathematics*, **213**, 2000, 55–65 (with S. Dodunekov).

Импакт-фактор:**0.231**

21. Linear codes over finite fields and finite projective geometries, *Discrete Mathematics*, **213**, 2000, 211-214.

Импакт-фактор:**0.231**

22. On complete caps in the projective geometries over \mathbb{F}_3 , *Journal of Geometry*, **67**, 2000, 127-144 (with Ray Hill, Chris Jones, Leo Storme and János Barát)
23. MacWilliams identities for codes over finite Frobenius rings, In: *Finite Fields and Applications* (eds. D. Jungnickel, H. Niederreiter), Springer, 2000, 276–292.
24. И. Н. Ланджев, Т. Хонольд, Дуги в проективных ельслемовых плоскостях, *Дискретная Математика* 13(1)(2001), 90-109.

English translation: Arcs in projective Hjelmslev planes, *Discrete Mathematics and Applications* **11**, 2001, 53–70. (with Th. Honold)

25. On arcs in projective Hjelmslev planes, *Discrete Mathematics*, **231**, 2001, 265–278. (with Th. Honold)

Импакт-фактор:**0.231**

26. On $(q^2 + q + 2, q + 2)$ -arcs in the projective plane $PG(2, q)$, *Designs, Codes and Cryptography*, **24**, 2001, 205–224. (with S. Ball, R. Hill and N.H. Ward).

Импакт-фактор:**0.522**

27. The geometric approach to linear codes, in: *Finite Geometries* (eds. A. Blokhuis, J. Hirschfeld, D. Jungnickel, J. Thas), Ser. Developments in Mathematics, 2001, 247–257.
28. The classification of the largest caps in $AG(5, 3)$, *Journal of Combinatorial Theory* Ser. A, 99(2002), 95–110. (with Y. Edel, S. Ferret, L. Storme)

Импакт-фактор:**0.415**

29. On optimal codes over the field with five elements, *Designs Codes and Cryptography*, 29(2003), 165–175. (with T. Maruta, R. Hill and A. Rousseva).

Импакт-фактор:**0.522**

30. On the minimum size of some minihypers and related linear codes, *Designs, Codes and Cryptography* **34**(2005), 5–15. (with T. Maruta and A. Rousseva).
31. On maximal arcs in projective Hjelmslev planes over chain rings of even characteristic, *Finite Fields and Their Applications* **11**(2005), 292–304. (with Th. Honold)

Импакт-фактор:**0.522**

- 32. An extension theorem for arcs and linear codes, *Problems of Information Transmission* 42(4)(2006), 65–76. (with A. Rousseva)
- 33. On blocking sets in projective Hjelmslev planes, *Advances in Mathematics of Communication* 1(2007), 65–82.
- 34. A weighted version of a result of Hamada on minihypers and on linear codes meeting the Griesmer bound, *Designs, Codes and Cryptography* 45 (2007), 123–138. (with L. Storme)

Импакт-фактор:**0.68**

- 35. Linear codes over finite chain rings and projective Hjelmslev geometries, *Codes over Rings*, edited by Patrick Sole (CNRS, France) Series on Coding Theory and Cryptology - Vol. 6, World Scientific, 2009, 00.60-123. ISBN 978-981-283-768-4; ISBN 981-283-768-X. (with Th. Honold)
- 36. On plane $(x(q+1), x)$ -minhypers, *Designs, Codes and Cryptography* **54**, No 2 (2010), 135-147. (with L. Storme)

Импакт-фактор:**0.771**

- 37. New arcs of maximal size in the projective Hjelmslev planes of order 9, *Compt. Rend. Acad. Bulg. Sci.* 63, No 2 (2010), 171-180. (with Th. Honold and M. Kiermaier)

Импакт-фактор:**0.219**

- 38. On multiple caps, *Designs Codes and Cryptography* 56(2010), 163-175. (with Y. Edel)

Импакт-фактор:**0.771**

- 39. Blocking sets of Redei type in projective Hjelmslev planes, *Discrete Mathematics* 310(2010), 2061-2068. (with S. Boev)

Импакт-фактор:**0.548**

- 40. The dual construction for arcs in projective Hjelmslev spaces, *Advances in Mathematics of Communications*, 5(2011), 11-21. (with Th. Honold)

Импакт-фактор:**0.544**

41. Characterization of some optimal arcs, *Advances in Mathematics of Communications*, 5(2011), 317-332. (with Th. Honold) - in the top ten of the downloaded articles of AMC.

Импакт-фактор:0.544

42. Codes over rings and ring geometries, chapter 7 in: "Galois geometries and linear codes" (eds. L.Storme and Jan De Beule) NOVA Publishers, 2012, 161-186. (ISBN 978-1-61209-523-3)(with Th. Honold)
43. Linear codes and Galois geometries, chapter 8 in: "Galois geometries and linear codes" (eds. L. Storme and J. De Beule), NOVA Publishers, 2012, 187-214. (ISBN 978-1-61209-523-3)(with L. Storme)
44. Non-free extensions of the Simplex codes over a chain ring with four elements, *Designs, Codes and Cryptography* 66(2013), 27-38. (with Th. Honold)
<https://doi.org/10.1007/s10623-012-9649-7>

Импакт-фактор:0.771

45. Designs in projective Hjelmslev spaces, in: *Theory and Applications of Finite Fields* (eds. M. Lavrauw et al.) *Contemporary Mathematics* vol. 579, AMS, 2012, 111-122. (with M. Kiermaier)
46. A note on (xv_t, xv_{t-1}) -minihypers in $PG(t, q)$, *Journal of Combinatorial Theory Ser. A* 119(2012), 1123-1131. (with P. Vandendriesche) DOI: 10.1016/j.jcta.2012.02.009

Импакт-фактор:0.683

47. On the sharpness of Bruen's bound for intersection sets in Desarguesian affine spaces, *Designs, Codes and Cryptography* 72(2014), 551-558. (with A. Rousseva)

Импакт-фактор:0.730

48. On the point-by-subspace incidence matrices of projective Hjelmslev planes, *Compt. Rend. Acad. Bulg. des Sci.* 67(11)(2014), 1485-1489. (with P. Vandendriesche)

Импакт-фактор:0.198

49. On the rank of incidence matrices in projective Hjelmslev spaces, *Designs, Codes and Cryptography* 73(2014), 615-623. (with P. Vandendriesche)

Импакт-фактор:0.730

50. On the extendability of quasidivisible Griesmer arcs, *Designs, Codes and Cryptography* **79**(2016), 535–547. (with A. Rousseva and L. Storme)
Импакт-фактор:**1.009**
51. The nonexistence of $(104, 22; 3, 5)$ -arcs, *Advances in Mathematics of Communications* **10**(3)(2016), 601–611. (with A. Rousseva)
Импакт-фактор:**0.8**
52. A note on divisible arcs in projective spaces of prime order, *Compt. Rend. Acad. Bulg. des Sci.* **70**(2017), 13–20. (with A. Rousseva)
Импакт-фактор:**0.251**
53. Conditions for the existence of spreads in projective Hjelmslev spaces, *Designs, Codes and Cryptography* **87**(4)(2019), 785–794. (with N. Georgieva) IF:**1.224**
54. Divisible arcs, divisible codes and the extension problem for arcs and codes, *Problems of Information Transmission* **55**(3)(2019), 226–240. (with A. Rousseva)
IF:**0.557**
55. On Linear Codes of Almost Constant Weight and the Related Arcs, *Comptes rendus, de l'Academie Bulgare des Sciences* **72**(12)(2019), 1626–1633. (with A. Rousseva, L. Storme)
IF:**0.321**
56. Linear codes close to the Griesmer bound and the related geoemtric structures, *Designs, Codes and Cryptography* **87**(4)(2019), 841–854. (with A. Rousseva),
IF:**1.524**
57. The Geometric Approach to the Existence of Some Quaternary Griesmer Codes, *Designs, Codes and Cryptography* **88**(9)(2020), 1925–1940.
doi:10.1007/s10623-020-00777-0 (with A. Rousseva)
58. A General Construction for Blocking Sets in Finite Affine Geometries, *Results in Mathematics* **75** #142, 1–12,
doi:10.1007/s00025-02-01269-2, (with A. Rousseva) IF:**1.199**
59. A stability result and a spectrum result on constant dimension codes, *Linear Algebra and its Applications* **621**(2021), 193–213.
<https://doi.org/10.1016/j.laa.2021.03.019> (with L. H. Lucas, L. Storme and P. Vandendriessche) IF:**1.19**

60. On homogeneous arcs and linear codes over finite chain rings, *AAECC* **34**(3)(2023), 359–376.
<https://doi.org/10.1007/s00200-021-00501-y> (with Th. Honold) IF:**0.7**
61. Constructions of binary codes with two distances, *Discrete Mathematics* **346**(2023), 113337.
<https://doi.org/10.1016/j.disc.2023.113337> (with A. Rousseva and K. Vorobev)
 IF:**0.8**
62. Classification of $(3 \bmod 5)$ arcs in $\text{PG}(3,5)$, *Advances in Mathematics of Communications* **17**(1)(2023), 172-206.
[doi:10.3934/amc.2021066](https://doi.org/10.1016/j.amc.2021.1066) (with S. Kurz and A. Rousseva) IF: **0.9**
63. The geometry of $(t \bmod q)$ -arcs, *Designs, Codes and Cryptography*, 2024.
<https://doi.org/10.1007/s10623-023-01290-w> (with S. Kurz, F. Pavese and A. Rousseva) IF:**1.6**
64. Sperner’s theorem for non-free modules over finite chain rings, *Designs, Codes and Cryptography*, 2024.
<https://doi.org/10.1007/s10623-023-01352-z> (with E. Rogachev) IF:**1.6**