

## Publications:

1. *Theorems and Problems in classical geometry* (Romanian, with B.Buricea) Ed.Lotus, Craiova, ISBN 973-96010-7-3 ,(150 pages)(1995)
2. *Spectral Norms on valued fields*, with Popescu,N., Popescu,A., **Mathematische Zeitschrift**, 238, 101-114(2001)
3. *Universal triple Massey products on elliptic curves and Hecke's indefinite theta series*, with A. Polishchuk, **Moscow Mathematical Journal**, 5, 443-461(2005)
4. *p-adic Modular Symbols attached to CM-forms*, Thesis, **Boston University**, May 2005
5. *A Modular Symbol with Values in Cusp Forms* , preprint, arXiv:math/0611704v1
6. *Fusion rings arising from normal Hopf subalgebras*, with S. Burciu, **Algebra and Representation Theory**, volume 14/2011, pag. 41-55
7. *Mod p congruences for cusp forms of weight four for  $\Gamma_0(pN)$* , with M. Barcau, **International Journal of Number Theory** Vol. 07, No. 02, pp. 341-350(2011)
8. *Modular forms and period polynomials*, with A. Popa, **Proc. London Math. Soc.** (2013) 107 (4): pag 713-743.
9. *On the Petersson scalar product of arbitrary modular forms*, with A. Popa, **Proc. Amer. Math. Soc.** 142 (2014), 753-760
10. *Pair correlation of angles between closed reciprocal geodesics on the modular surface*, with Florin P. Boca, Alexandru A. Popa and Alexandru Zaharescu, **Algebra and Number Theory**, vol.8, no.4, 2014
11. *An algebraic property of Hecke operators and two indefinite theta series*, with A. Popa, **Forum Math.**, vol. 27, No.2(2015), 915-928
12. *A study of elliptic gamma function and allies*, with Wadim Zudilin, **Research in the Mathematical Sciences** Vol. 5, (39), 2018, DOI: 10.1007/s40687-018-0158-9
13. *Sondow's conjecture, convergents to e, and p-adic analytic functions* with A. Zaharescu, **Mathematische Zeitschrift**, 2019, 292(1-2), pp. 499-511



14. *On The Ind-CPA Security Of Ring Homomorphic Encryption Schemes Over  $\mathbb{F}_2$* , with M. Barcau, **Proceedings Of The Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science**, (2020) Vol 21, Issue1, pp 3-10
15. *Magnetic (quasi-)modular forms*, with W. Zudilin, **Nagoya Mathematical Journal** 248 (2023), 849–864
16. *Computing primitive idempotents in finite commutative rings and applications* with M. Barcau, **Journal of Symbolic Computations**, Volume 123, July–August 2024, 102294, DOI: 10.1016/j.jsc.2023.102294
17. *Quadratic Weyl group multiple Dirichlet series of type  $D_4^{(1)}$*  with A. Diaconu, A. Popa, to appear in **American Journal of Mathematics** (Accepted 12.07.2023)

**Sent for publication:**

18. *Moduli of hyperelliptic curves and multiple Dirichlet series*, with A. Diaconu, arXiv:1808.09667
19. *Residues of quadratic Weyl group multiple Dirichlet series* with A. Diaconu, B. Ion and A. Popa, arxiv.org/abs/2307.06223
20. *Composing Bridges* with M. Barcau, and G. Turcaş, arXiv:2305.16435

**In preparation:**

21. *Multiple Dirichlet series for affine Weyl groups* with A. Diaconu, B. Ion and A. Popa
22. *A criterion for perfectoid fields* with M. Barcau

