

PUBLICATIONS

- 2024 *Deletion-addition of a smooth conic for free curves*, preprint, [arXiv:2408.11714](#)
- 2024 *On some freeness-type properties for line arrangements* (with T. Abe and D. Ibadula), **Ann. Sc. Norm. Super. Pisa Cl. Sci.** (5) Vol. XXV (2024), 427–447, DOI: [10.2422/2036–2145.202105_038](#), Impact Factor: 1.041
- 2024 *Addition-deletion results for plus-one generated curves* (with P. Pokora), **J. Algebr. Comb.** Vol. 60, 723 – 734 (2024) DOI: [https://doi.org/10.1007/s10801-024-01350-x](#), Impact Factor: 0.6
- 2024 *A geometric perspective on plus-one generated arrangements of lines* (with J. Vallès), **International Journal of Mathematics** Vol. 35, No. 10, 2450034 (2024), DOI: [10.1142/S0129167X24500344](#), Impact Factor: 0.6
- 2023 *On plus-one generated conic-line arrangements with simple singularities* (with P. Pokora), to appear in **Rendiconti Lincei – Matematica e Applicazioni**
- 2022 *On torsion freeness for the decomposable Orlik-Solomon algebra*, preprint, [arXiv:2212.12275](#)
- 2020 *Numerical invariants and moduli spaces for line arrangements* (with A. Dimca and D. Ibadula), **Osaka Journal of Mathematics**, Vol. 57, No.4, 847 – 870 (October 2020), [https://doi.org/10.18910/77234](#), Impact Factor: 0.414
- 2019 *Freeness for 13 lines arrangements is combinatorial* (with A. Dimca and D. Ibadula), **Discrete Mathematics**, Volume: 342, Issue: 8, Pages: 2445-2453 ISSN: 0012-365X, [https://doi.org/10.1016/j.disc.2019.05.016](#), Impact Factor: 0.85
- 2017 *On the geometry and topology of partial configuration spaces of Riemann surfaces* (with B. Berceanu, Ș. Papadima and R. Popescu), **Algebraic & Geometric Topology**, 17, no. 2, 1163-1188, DOI: [10.2140/agt.2017.17.1163](#), Impact Factor: 0.76
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- 2015 *On the second nilpotent quotient of higher homotopy groups for hypersolvable arrangements* (with D. Matei and Ș. Papadima), **International Mathematics Research Notices**, Volume 2015, Issue 24, Pp. 13194–13207, [https://doi.org/10.1093/imrn/rnv080](#), Impact Factor: 1.0
- 2014 *Some remarks on the realizability spaces of (3, 4)-nets*, (with D. Ibadula), Proceedings of the conference "Experimental and Theoretical Methods in Algebra, Geometry and Topology", Bridging Algebra, Geometry, and Topology, **Springer Proceedings in Mathematics & Statistics**, 159–166, DOI: [10.1007/978 – 3 – 319 – 091860_10](#).
- 2010 *Cohomology rings and formality properties of nilpotent groups*, **Journal of Pure and Applied Algebra** 214, pp. 1818–1826, [https://doi.org/10.1016/j.jpaa.2009.12.025](#), Impact Factor: 0.834

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- 2009 *On the monodromy action on Milnor fibers of graphic arrangements*, (with Ș. Papadima), **Topology and its Applications** 156, 761-774, <https://doi.org/10.1016/j.topol.2008.09.014>, Impact Factor: 0.583
- 2009 *A survey of combinatorial aspects in the topology of complex hyperplane arrangements*, **Contemporary Mathematics** 508, 113-128, DOI: [10.1090/conm/502/09859](https://doi.org/10.1090/conm/502/09859).