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PUBLICATIONS

- 2023 *On plus-one generated conic-line arrangements with simple singularities (with P. Pokora)*, preprint, arXiv:2309.15228 [link](#)
- 2023 *A geometric perspective on plus-one generated arrangements of lines (with J. Vallès)*, preprint, arXiv:2309.10501 [link](#)
- 2022 *On torsion freeness for the decomposable Orlik-Solomon algebra*, preprint arXiv:2212.12275, [link](#)
- 2021 *On some freeness-type properties for line arrangements (with T. Abe and D. Ibadula)*, preprint arXiv:2101.02150, [link](#), accepted for publication (2022) in **Annali della Scuola Normale Superiore di Pisa, Classe di Scienze**, DOI: [10.2422/2036 – 2145.202105_038](#), Impact Factor: 1.041
- 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), [link](#), 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, Ş. Papadima and R. Popescu)*, **Algebraic & Geometric Topology**, 17, no. 2, 1163-1188, DOI: [10.2140/agt.2017.17.1163](#), Impact Factor: 0.76
- 2017 *Modular equalities for complex reflection arrangements*, (with Ş. Papadima and R. Popescu), **Documenta Mathematica**, Vol. 22, 135–150, [link](#) Impact Factor: 0.739
- 2017 *Flat connections and resonance varieties: from rank one to higher ranks*, (with Ş. Papadima, R. Popescu and A. Suciu), **Trans. Amer. Math. Soc.** 369, 1309–1343, DOI: <https://doi.org/10.1090/tran/6799>, Impact Factor: 1.353
- 2016 *Pencil type line arrangements of low degree: classification and monodromy*, (with A. Dimca and D. Ibadula), **Ann. Scuola Norm. Sup. Pisa**, (5) Vol. XV, 249–267, [link](#), Impact Factor: 1.041
- 2015 *On the second nilpotent quotient of higher homotopy groups for hypersolvable arrangements* (with D. Matei and Ş. 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, [link](#).
- 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
- 2009 *Characteristic varieties of nilpotent groups and applications*, (with Ş. Papadima), **Proceedings of the Sixth Congress of Romanian Mathematicians (Bucharest, 2007)**, vol.1, pp. 57–64, Romanian Academy, Bucharest.

- 2009 *On the monodromy action on Milnor fibers of graphic arrangements*,
(with Ş. 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).