

## LIST OF PUBLICATIONS

CHRISTIAN AXLER

### PREPRINTS

- [1] C. Axler, Some Results on a Conjecture of Hardy and Littlewood, preprint. Available at <https://arxiv.org/abs/1909.12625>.

### PUBLICATIONS

- [1] C. Axler, Effective estimates for some functions defined over primes, *Integers* **24** (2024), #A34, 34 pp.
- [2] C. Axler, On the Primorial Counting Function, *Amer. Math. Monthly* **131** (2024), no. 5, 433–439.
- [3] C. Axler and Jean-Louis Nicolas, Large values of  $n/\varphi(n)$  and  $\sigma(n)/n$ , *Acta Arith.* **209** (2023), 357–383.
- [4] C. Axler, New estimates for some integrals of functions defined over primes, *Funct. Approx. Comment. Math.* **68** (2023), no. 2, 207–229.
- [5] C. Axler, On Robin’s inequality, *Ramanujan J.* **61** (2023), no. 3, 909–919.
- [6] C. Axler, On Ramanujan’s prime counting inequality, *Math. Inequal. Appl.* **25** (2022), no. 4, 1147–1154. On Ramanujan’s prime counting inequality
- [7] C. Axler and M. Hassani, Carleman’s inequality over prime numbers, *Integers* **21** (2021), #A53, 12 pp.
- [8] C. Axler, On Ramanujan primes, *Funct. Approx. Comment. Math.* **63** (2020), no. 1, 67–93.
- [9] C. Axler, Improving the Estimates for a Sequence Involving Prime Numbers, *Notes on Number Theory and Discrete Mathematics* **25** (2019), no. 1, 8–13.
- [10] C. Axler, On the sum of the first  $n$  prime numbers, *J. Théor. Nombres Bordeaux* **31** (2019), no. 2, 293–311.
- [11] C. Axler, On a family of functions defined over sums of primes, *J. Integer Seq.* **22** (2019), no. 5, Art. 19.5.7, 12 pp.
- [12] C. Axler, New estimates for the  $n$ th prime number, *J. Integer Seq.* **22** (2019), no. 4, Art. 19.4.2, 30 pp.
- [13] C. Axler, Estimates for  $\pi(x)$  for large values of  $x$  and Ramanujan’s prime counting inequality, *Integers* **18** (2018), #A61, 14 pp.
- [14] C. Axler, New estimates for some functions defined over primes, *Integers* **18** (2018), #A52, 21 pp.
- [15] C. Axler, On the arithmetic and geometric means of the first  $n$  prime numbers, *Mediterr. J. Math.* **15** (2018), no. 3, Art. 93, 21 pp.
- [16] C. Axler, A new upper bound for the sum of divisors function, *Bull. Aust. Math. Soc.* **96** (2017), no. 3, 374–379.
- [17] C. Axler and T. Leßmann, On the first  $k$ -Ramanujan prime, *Amer. Math. Monthly* **124** (2017), no. 7, 642–646.
- [18] C. Axler, New bounds for the prime counting function, *Integers* **16** (2016), #A22, 15 pp.
- [19] C. Axler, On generalized Ramanujan primes, *Ramanujan J.* **39** (2016), no. 1, 1–30.
- [20] C. Axler, On a sequence involving prime numbers, *J. Integer Seq.* **18** (2015), no. 7, Article 15.7.6, 13 pp.
- [21] C. Axler, Über die Primzahl-Zählfunktion, die  $n$ -te Primzahl und verallgemeinerte Ramanujan-Primzahlen, PhD Thesis, Heinrich Heine University, Düsseldorf (Germany), 2013. Available at [docserv.uni-duesseldorf.de/servlets](https://docserv.uni-duesseldorf.de/servlets).

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