

# Papers by Runbo Li

- [1]. R. Li. On some problems of primes with the floor function. *arXiv:2308.16301v1*.
- [2]. R. Li. On the upper and lower bound orders of almost prime triples. *arXiv:2401.01348v1*.
- [3]. R. Li. A remark on the distribution of  $\sqrt{p}$  modulo one involving primes of special type. *Accepted by Hiroshima Mathematical Journal, arXiv:2401.01351v1*.
- [4]. R. Li. Remarks on additive representations of natural numbers. *arXiv:2309.03218v7*.
- [5]. R. Li. Hybrid estimation of exponential sums, exceptional characters and primes in short intervals. *arXiv:2401.11139v3*.
- [6]. R. Li. A remark on large even integer of the form  $p + P_3$ . *arXiv:2403.09691v1*.
- [7]. R. Li. On a conjecture involving twin practical numbers. *preprints202504.1211.v2*.
- [8]. R. Li. On Chen's theorem, Goldbach's conjecture and almost prime twins. *arXiv:2405.05727v3*.
- [9]. R. Li. On the primitive divisors of quadratic polynomials. *arXiv:2406.07575v1*.
- [10]. R. Li. Primes in almost all short intervals. *arXiv:2407.05651v6*.
- [11]. R. Li. On the largest prime factor of integers in short intervals. *Accepted by Cambridge Journal for Junior Scientists, <https://doi.org/10.4310/CJJS.260205233711>*.
- [12]. R. Li. On the Piatetski-Shapiro prime number theorem. *preprints202504.1190.v2*.
- [13]. R. Li. On the Piatetski-Shapiro prime number theorem II. *preprints202504.1165.v2*.
- [14]. R. Li. The number of primes in short intervals and numerical calculations for Harman's sieve. *arXiv:2308.04458v8*.
- [15]. R. Li. A note on variants of Buchstab's identity. *arXiv:2504.07974v1*.
- [16]. R. Li. On prime-producing sieves and distribution of  $\alpha p - \beta \bmod 1$ . *arXiv:2504.13195v3*.
- [17]. R. Li. Primes in arithmetic progressions to smooth moduli: A minorant version. *arXiv:2505.09629v3*.
- [18]. R. Li. On almost primes in Piatetski-Shapiro sequences. *arXiv:2505.09634v1*.
- [19]. R. Li. On the generalized Dirichlet divisor problem. *preprints202505.1432.v3*.
- [20]. R. Li. Largest square divisors of shifted primes. *arXiv:2505.23779v2*.
- [21]. R. Li. A remark on the distribution of  $\sqrt{p}$  modulo one involving primes of special type II. *European Journal of Mathematics*, 11:85, 2025. <https://doi.org/10.1007/s40879-025-00877-y>.
- [22]. R. Li. On the largest prime factor of quadratic polynomials. *arXiv:2406.07575v2*.
- [23]. R. Li. On Chen's theorem, Goldbach's conjecture and almost prime twins II. *Accepted by Mathematical Reports, arXiv:2405.05727v4*.
- [24]. R. Li. On the largest prime factor of integers in short intervals II. *10.33774/coe-2025-xnbjq-v2*.
- [25]. R. Li. On the exceptional set in the *abc* conjecture. *arXiv:2507.02885v1*.
- [26]. R. Li. On the weighted AM-GM inequality and refined inequalities between arithmetic functions. *preprints202511.0246.v1*.
- [27]. R. Li. An average Brun-Titchmarsh theorem and shifted primes with a large prime factor. *arXiv:2508.18285v3*.

- [28]. R. Li. On Chen's theorem, Goldbach's conjecture and almost prime twins III. *10.33774/coe-2025-5kl50*.
- [29]. R. Li. Primes in almost all short intervals II. *10.33774/coe-2025-jrnjl*.
- [30]. R. Li. Bombieri–Vinogradov Theorem in shorter intervals. *preprints202511.0089.v1*.
- [31]. R. Li. Sums of two squares of primes in short intervals. *10.33774/coe-2025-15m3h*.
- [32]. R. Li. On the largest prime factor of integers in short intervals III. *arXiv:2601.00910v1*.
- [33]. R. Li. Primes in arithmetic progressions to large moduli and refinements of Harman's sieve. *arXiv:2602.20917v1*.
- [34]. R. Li. Primes in almost all short intervals III. *preprint*.