

## LIST OF PUBLICATIONS

*Jean-Marie De Koninck*

### Papers published in refereed journals

- [1] On a class of arithmetical functions, *Duke Math. J.*, **39** (1972), 807–818.
- [2] Sums of quotients of additive functions, *Proc. Amer. Math. Soc.*, **44** (1974), 35–38.
- [3] Note on a function similar to  $n!$ , *Math. Mag.*, **47** (1974), 226.
- [4] Sums of reciprocals of additive functions, *Acta Arith.*, **25** (1974), 159–164. (with J. Galambos)
- [5] Remarque sur un article de T.M. Apostol, *Bull. Can. Math.*, **20** (1977), 77–88. (with A. Mercier)
- [6] Some remarks on additive functions, *J. Nat. Sc. Math.*, **17** (1977), 31–41.
- [7] Sums taken over  $n \leq x$  with prime factors  $\leq y$  of  $z^{\Omega(n)}$ , and their derivatives with respect to  $z$ , *J. Indian Math. Soc.*, **42** (1978), 353–365. (with D. Hensley)
- [8] An asymptotic formula for reciprocals of logarithms of certain multiplicative functions, *Bull. Can. Math.*, **21** (1978), 409–413. (with A. Ivić)
- [9] Sums of reciprocals of certain additive functions, *Manuscripta Math.*, **30** (1980), 329–341. (with A. Ivić)
- [10] Reciprocals of certain large additive functions, *Bull. Can. Math.*, **24** (1981), 225–231. (with P. Erdős and A. Ivić)
- [11] Somme de réciproques de grandes fonctions additives, *Publ. Inst. Math. Belgrade*, **49** (1984), 41–48. (with A. Ivić)
- [12] The distribution of the average prime divisor of an integer, *Archiv der Math.*, **43** (1984), 37–43. (with A. Ivić)

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- [15] The intermediate prime divisors of integers, *Proc. Amer. Math. Soc.*, **101** (1987), 213–216. (with J. Galambos)
- [16] Some randomly selected arithmetical sums, *Acta Math. Hung.*, **52** (1988), 37–43. (with J. Galambos)
- [17] Sums involving the largest prime divisor of an integer II, *Indian J. Pure and Applied Math.*, **19** (1988), 990–1004. (with R. Sitaramachandrarao)
- [18] Les fonctions arithmétiques et le plus grand facteur premier, *Acta Arith.*, **52** (1989), 25–48. (with Mercier)
- [19] The average prime divisor of an integer in short intervals, *Archiv der Math.*, **52** (1989), 440–448. (with A. Ivić)
- [20] Additive functions and the largest prime factor of integers, *J. Number Theory*, **33** (1989), 293–310. (with I. Kátai and A. Mercier)
- [21] Fonctions arithmétiques tronquées, *Acta Math. Hung.*, **56** (1990), 211–224. (with A. Mercier)
- [22] Continuity module of the distribution of additive functions related to the largest prime factors of integers, *Archiv der Math.*, **55** (1990), 450–461. (with I. Kátai and A. Mercier)
- [23] Random sums related to prime divisors of an integer, *Publi. Inst. Math. (Belgrade)*, **62** (1990), 7–24. (with A. Ivić)
- [24] On the average prime factor of an integer and some related problems, *Ricerche di Matematica*, **39** (1990), 131–140. (with A. Ivić)
- [25] Additive functions monotonic on the set of primes, *Acta Arith.*, **57** (1991), 41–68. (with I. Kátai and A. Mercier)
- [26] Additive functions monotonic on the set of primes II, *J. Can. Math.*, **43** (1991), 705–720. (with I. Kátai and A. Mercier)
- [27] On the normal growth of prime factors of integers, *J. Can. Math.*, **44** (1992), 1121–1154. (with I. Kátai and A. Mercier)
- [28] Sur les plus grands facteurs premiers d'un entier, *Monatshefte für Mathematik*, **116** (1993), 13–37.

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- [29] On the largest prime divisors of an integer, In: *Proceedings of the Conference on Extreme Value Theory and Applications*, Vol. 1, Gaithersburg Maryland, 1994, 447–462.
- [30] Arithmetic characterization of regularly varying functions, *Ricerche di Matematica*, **44** (1995), 41–64. (with A. Ivić)
- [31] On the distribution of subsets of primes in the prime factorization of integers, *Acta Arithmetica*, **72** (1995), 169–200. (with I. Kátai)
- [32] Moyennes sur certains ensembles de diviseurs d’un entier, *L’Enseignement mathématique*, **42** (1996), 97–123. (with J. Grah)
- [33] Arithmetic functions defined on sets of primes of positive density, *Mathematica Balkanica*, **10** (1996), 1–15. (with A. Ivić)
- [34] A new characteristic of the identity function, *J. of Number Theory*, **63** (1997), 325–338. (with I. Kátai and B.M. Phong)
- [35] On a sum of divisors problem, *Publ. Inst. Math. Belgrade*, **64(78)** (1998), 9–20. (with A. Ivić)
- [36] Arithmetic functions and weighted averages, *Colloquium Mathematicum*, **79** (1999), 249–272. (with J. Grah)
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- [39] On a very thin sequence of integers, *Annales Univ. Sci. Budapest., Sect. Comp.*, **20** (2001), 157–177. (with N. Doyon)
- [40] On the frequency of  $k$ -deficient numbers, *Publicationes Mathematicae Debrecen*, **61** (2002), 595–602. (with I. Kátai)
- [41] Sur la loi de répartition du  $k$ -ième facteur premier d’un entier, *Math. Proc. Cambridge Philo. Soc.*, **133** (2002), no. 2, 191–204. (with G. Tenenbaum)
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- [43] Ces mathématiques qui nous font grandir!, *Bull. Assoc. Math. Québec*, **42** (2002), 17–26.

- [44] On the number of Niven numbers up to  $x$ , *The Fibonacci Quarterly*, **41**, Nov. 2003, 431–440. (with N. Doyon)
- [45] On the counting function for the Niven numbers, *Acta Arithmetica*, **106** (2003), 265–275. (with N. Doyon and I. Kátai)
- [46] À propos de l'indice de composition des nombres, *Monatshefte für Mathematik*, **139** (2003), 151–167. (with N. Doyon)
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- [49] On a theorem of Daboussi related to the set of Gaussian integers, *Mathematica Pannonica*, **14** (2003), 267–272. (with N. Bassily and I. Kátai)
- [50] On the difference of values of the kernel function at consecutive integers, *International Journal of Mathematics and Mathematical Sciences*, **67** (2003), 4249–4262. (with F. Luca)
- [51] Computational problems and queries in number theory, *Annales Univ. Sci. Budapest., Sect. Comp.*, **23** (2004), 149–161.
- [52] Sur la proximité des nombres puissants, *Acta Arithmetica*, **114** (2004), 149–157. (with F. Luca)
- [53] On the multiplicative group generated by shifted binary quadratic forms, *Annales Univ. Sci. Budapest., Sect. Comp.*, **47** (2004), 17–28. (with I. Kátai)
- [54] On the distribution modulo 1 of the values of  $F(n) + \alpha\sigma(n)$ , *Publicationes Mathematicae Debrecen*, **66** (2005), 121–128. (with I. Kátai)
- [55] Powerful numbers in short intervals, *Bulletin of the Australian Math. Soc.*, **71**(1) (2005), 11–16. (with F. Luca and I.E. Shparlinski)
- [56] On the mean value of the index of composition of an integer, *Monatshefte für Mathematik*, **145**(2) (2005), 131–144. (with I. Kátai)
- [57] Integers representable as the sum of powers of their prime factors, *Functiones et Approximatio*, **23** (2005), 57–72. (with F. Luca)
- [58] On strings of consecutive economical numbers of arbitrary length, *Integers*, **5** (2005), #A5. (with F. Luca)

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- [59] On the average of  $d(n)\omega(n)$  and similar functions on short intervals, *Annales Univ. Sci. Budapest., Sect. Comp.*, **25** (2005), 131–142. (with I. Kátai)
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- [61] Integers divisible by the sum of their prime factors, *Mathematika*, **52(1-2)** (2005), 69–77 (2006). (with F. Luca)
- [62] On the local distribution of certain arithmetic functions, *Lietuvos Matematikos Rinkinys*, **46** (2006), 315–331. (with I. Kátai)
- [63] Positive integers  $n$  whose Euler function is a power of their kernel function, *Rocky Mountain Journal of Mathematics*, **36(1)** (2006), 81–96. (with F. Luca and A. Sankaranarayanan)
- [64] Counting the number of economical numbers, *Publicationes Mathematicae Debrecen*, **68** (2006), 97–113. (with F. Luca)
- [65] A consequence of a theorem of Filaseta, *Annales des Sciences mathématiques du Québec*, **30** (2006), 55–62. (with I. Kátai, and M.V. Subbarao)
- [66] Sums of reciprocals of additive functions running over short intervals, *Colloquium Mathematicum*, **107** (2007), 317–326. (with I. Kátai)
- [67] Partial sums of powers of prime factors, *Journal of Integer Sequences*, **10** (2007), Article 07.1.6. (with F. Luca)
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- [77] On the distribution of the number of digits needed to write the factorization of an integer, *Annales Univ. Sci. Budapest., Sect. Comp.*, **28** (2008), 197–212. (with N. Doyon and P. Letendre)
- [78] On the difference of arithmetic functions at consecutive arguments, *Anatomy of Integers*, CRM Proceedings and Lecture Notes, AMS, Vol 46 (June) (2008), 179–189. (with F. Luca)
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- [88] Exponential sums involving the largest prime factor function, *Acta Arithmetica*, **146** (2011), 233–245. (with I. Kátai)
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- [90] Powerful values of quadratic polynomials, *Journal of Integer Sequences*, **14(3)** (2011), Article 11.3.3, 11 pages. (with N. Doyon and F. Luca)
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- [92] On the asymptotic value of the irrational factor, *Annales des Sciences Mathématiques du Québec* **35(1)** (2011), 117–121. (with I. Kátai)
- [93] Construction of normal numbers by classified prime divisors of integers, *Functiones et Approximatio*, **45(2)** (2011), 231–253. (with I. Kátai)
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- [97] On the truncated kernel function, *Journal of Integers Sequences*, **15(3)** (2012), Article 12.3.2, 17 pages. (with I. Diouf and N. Doyon)
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- [99] Exponential sums and arithmetic functions at polynomial values, *Lithuanian Mathematical Journal*, **52(2)** (2012), 138–144. (with I. Kátai)
- [100] Some new methods for constructing normal numbers, *Annales des Sciences Mathématiques du Québec*, **36(2)** (2012), 349–359. (with I. Kátai)
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- [102] Construction of normal numbers by classified prime divisors of integers II, *Funct. Approx. Comment. Math.*, **49(1)** (2013), 7–27. (with I. Kátai)

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- [104] On the distribution of the values of additive functions over integers with a fixed number of distinct prime factors, *Albanian Journal of Mathematics*, **6(2)** (2012), 75–86. (with I. Kátai)
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- [118] Normal numbers generated using the smallest prime factor function, *Annales mathématiques du Québec*, **38(2)** (2014), 133–144. (with I. Kátai)
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- [120] On the powerful and squarefree parts of an integer, *Journal of Integer Sequences*, **17(6)** (2014), Article 14.8.6, 28 pages. (with M.E. Cloutier and N. Doyon)
- [121] The number of large prime factors of integers and normal numbers, *Publications mathématiques de Besançon, Année 2015*, 5–12. (with I. Kátai)
- [122] On the convolution of the Liouville function under the existence of Siegel zeros, *Lithuanian Mathematical Journal*, **55(3)** (2015), 331–342. (with L. Germán and I. Kátai)
- [123] On the proximity of additive and multiplicative functions, *Functiones et Approximatio*, **52(2)** (2015), 327–344. (with N. Doyon and P. Letendre)
- [124] On the  $n$ -th element of a set of positive integers, *Annales Univ. Sci. Budapest., Sect. Comp.*, **44** (2015), 153–164. (with V. Ouellet)
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- [128] About an unsolved problems involving normal numbers, *Annales Univ. Sci. Budapest., Sect. Comp.*, **44** (2015), 227–232. (with I. Kátai)

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- [130] On the uniform distribution of certain sequences involving the Euler totient function and the sum of divisors function, *Annales Univ. Sci. Budapest., Sect. Comp.*, **44** (2015), 79–91. (with I. Kátai)
- [131] Prime factorization and normal numbers, *Researches in Mathematics and Mechanics*, **20(2)** (2015), 69–80. (with I. Kátai)
- [132] Shifted values of the largest prime factor function and its average value in short intervals, *Colloquium Mathematicum* **143(1)** (2016), 39–62. (with I. Kátai)
- [133] On strong normality, *Uniform Distribution Theory*, **11(1)** (2016), 59–78. (with I. Kátai and B.M. Phong)
- [134] Iterates of the sum of the unitary divisors of an integer, *Annales Univ. Sci. Budapest., Sect. Comp.*, **45** (2016), 101–110. (with I. Kátai)
- [135] The index of composition of the iterates of the Euler function, *Acta Mathematica Academiae Paedagogicae Nyiregyhaziensis*, **32(2)** (2016), 303–311. (with I. Kátai)
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- [141] Normal numbers in generalized number systems in Euclidean spaces, *Annales Univ. Sci. Budapest., Sect. Comp.*, **46** (2017), 15–25. (with I. Kátai)
- [142] On the distribution of the number of prime factors of the  $k$ -fold iterate of various arithmetic functions, *Annales Univ. Sci. Budapest., Sect. Comp.*, **46** (2017), 27–38. (with I. Kátai)
- [143] On properties of strongly normal numbers and of non-Liouville numbers, *Annales mathématiques du Québec*, accepted for publication. (with I. Kátai)
- [144] Distinguishing between sharp and non-sharp normal numbers, *Mathematica Pannonica*, accepted for publication. (with I. Kátai)
- [145] On the proximity of multiplicative functions to the number of distinct prime factors function, *Mathematica Slovaca*, accepted for publication. (with N. Doyon and F. Laniel)

### Books

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- [3] *Introduction à la théorie des nombres*, Modulo, 2<sup>e</sup> édition, x + 254 pages, 1997. (with A. Mercier)
- [4] *1001 problèmes en théorie classique des nombres*, ELLIPSES, Paris, 400 pages, 2004. (with A. Mercier)
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