# Professor József Sándor at $\sigma(59)$ years 

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I have known Prof. József Sándor since the middle of 1980s, from the pages of the Argentinian journal Bulletin of Number Theory and Related Topics, which does not exists any more but in some sense was inherited by this journal. It seems that each of us has carefully followed the publications of the other, seeing that we are both interested in closely related topics in number theory. Over the years, we have developed an active correspondence, but although we live in neighbouring countries, we have never met so far.

In 1989, we published our first joint paper, but it took us almost 20 years to publish our next two collaborative papers, in 2008. Since then we have been working on a joint book on arithmetic functions, which, I
 sincerely believe, will be accomplished in 2017. Back in 1995, when Tony Shannon, Aldo Peretti and me were discussing the colleagues whom we would invite for members of the Editorial Board of the Notes on Number Theory and Discrete Mathematics, Prof. Sándor's name was among the first ones being mentioned.

József Sándor was born on 19 November 1956 in Forteni (Farcád) near Odorheiu-Secuiesc (Székelyudvarhely), Romania. After attending elementary schools in Forteni, Taureni (Bikafalva) and Odorheiu-Secuiesc, he graduated in 1980 at Babes-Bolyai University of Cluj (Kolozsvár), Romania. After 3 years of teaching and research of mathematics at Sibiu (Nagyszeben, Hermannstadt), he returned to his home town of Odorheiu-Secuiesc, working in various middle schools and colleges. Beginning from 1997, and as of today, he is a member of the Department of Mathematics of Babes-Bolyai University of Cluj.

He started his research activity in 1978 as a student, publishing papers in Romania, Hungary and other countries from Europe, and later all over the world. His first publications were in the areas of number theory and mathematical analysis; then he published many papers also in other fields as geometry and geometric inequalities; special functions; theory of means; theory of inequalities; functional analysis and optimization theory; history of mathematics, etc. From the beginning, he solved many open problems related to prime numbers, Euler gamma function, Diophantine equations, arithmetic functions, approximation of functions, etc.

He found new proofs of certain results proved by others via difficult arguments, and his methods are indeed worth of a place in the "Book" imagined by P. Erdős. His first book, published by the Editorial House "Dacia" from Cluj, was "Geometric Inequalities" (in Hungarian) from 1988, known by many researchers in the field. In 1996 he published (in cooperation with Professors D. S. Mitrinovic and B. Crstici) his important monograph "Handbook of Number Theory", by Kluwer Academic Publishers, and in 2005 and 2006 "Handbook of Number Theory I, II", by Springer-Verlag. Other known books written by him, and connected with number theory are "Geometric Theorems, Diophantine Equations and Arithmetic Functions" (2002, USA), and "Selected Chapters of Geometry, Analysis and Number Theory: Classical Topics in New Perspectives" (2009, Germany).

Professor Sándor has published more than 1200 papers in journals all over the world. He is the Associate editor of 20 international journals, and one of the Editors-in-Chief of journal Notes in Number Theory and Discrete Mathematics. His name is known in Number theory related to "Sándor type functions", "Sándor arithmetic inequalities", or "Sándor-Tóth inequalities" and in the Theory of means by "Neuman-Sándor mean", "Sándor mean", "SándorYang mean"; while in the Theory of inequalities as "Sándor-Szabó type inequalities".

He is a member of American Mathematical Society, European Mathematical Society, János Bolyai Mathematical Society (Budapest), Romanian Mathematical Society (Bucuresti), Jangjeon Mathematical Society (Korea), Rado Ferenc Mathematical Society (Cluj). He is a reviewer of Mathematical Reviews (USA) and Zentralblatt für Mathematik (Germany).

As Professor Sándor claims, he had, and has, the great joy of having many coworkers (over 50) and friends (many...) in mathematical research, and thinks, this is one of gifts that life has offered to him.

## On behalf of the whole Editorial Board of the journal, for the next $\sigma(60)$ years, I wish Prof. Sándor health and creative energy!

## Selected papers of József Sándor in number theory and related fields

[1] Analytical methods in the theory of algebraic and transcendental numbers, Master Thesis, 1980, Babes-Bolyai University.
[2] A class of irrational numbers (Romanian), Gazeta Mat. A. (Bucuresti), 4(1983), no. 1-2, 54-56.
[3] Some classes of irrational numbers, Studia Univ. Babes-Bolyai, Math., 29(1984), 3-12.
[4] On the sequence of prime numbers (Hungarian), Mat. Tan. (Budapest), 5/1985, 152-154.
[5] On sequences, series and applications in prime number theory (Romanian), Gazeta Mat. A., 6(1985), no. 1-2, 38-48.
[6] On Jordan's arithmetic function, Math. Student (India), 52(1984), no. 1-4, 91-96.
[7] Variations on a theme by Hurwitz (with M. Deaconescu), Gazeta Mat. A., 8(1987), no. 4, 186191.
[8] On a stronger Bertrand's postulate, Bull. Number Theory Rel. Top., 11(1987), 162-166.
[9] On Dedekind's arithmetical function, Sem. Teor. Struct. no. 51 (Univ. of Timisoara, Romania), 1988, pp. 1-51.
[10] Remark on two papers by K. Atanassov, Bull. Number Theory Rel. Top., 13(1989), 56-59.
[11] Note on the functions sigma and phi, Bull. Number Theory Rel. Top., 12(1988), 78-80.
[12] Remarks on the functions $\sigma(n)$ and $\varphi(n)$, Seminar on Math. Analysis, Preprint no. 7, 1989, 7-12.
[13] An asymptotic formula concerning a generalized Euler function (with L. Tóth), Fib. Quart., 27(1989), 176-180.
[14] On some modifications of $\sigma$ and $\varphi$ functions (with K. Atanassov), C. R. Bulg. Acad. Sci., 42(1989), no. 1, 55-58.
[15] On the composition of some arithmetic functions, Studia Univ. Babes-Bolyai, Math., 34(1989), no. 1, 7-14.
[16] Some Diophantine equations for particular arithmetic functions (Romanian), Sem. Teor. Struct., no. 53, Univ. Timisoara, 1989, pp. 1-10.
[17] Remarks on Bernoulli polynomials and numbers, Studii Cerc. Math. (Math. Reports), 41(1989), 47-49.
[18] On the arithmetical function $d_{k}(n)$, L'Analyse Numer. Theor. Approx., 18(1989), 89-94.
[19] An application of the Jensen-Hadamard inequality, Nieuw Arch. Wiskunde, Serie 4, 8(1990), no. 1, 63-66.
[20] On the arithmetical functions $\varphi_{k}(n)$ and $\sigma_{k}(n)$, Math. Student, 54(1990), 49-54.
[21] On certain number-theoretical inequalities (with L. Tóth), Fib. Quart. 28(1990), no. 3, 255-258.
[22] On some arithmetical products (with L. Tóth), P. C. R. Math. Pures (Neuchatel), Serie I, 20, 1990, 5-8.
[23] On some irrational series (with N. J. Lord), Math. Mag., 65(1992), 53-55.
[24] On some Diophantine equations involving the factorial of a number, Seminar Arghiriade, no. 21, Univ. Timisoara, 1-4.
[25] Note on Jordan's arithmetical function, Seminar Arghiriade, no. 19, Univ. Tmisoara, 1-4.
[26] A note on semigroup-valued multiplicative functions, Astra Mat. (Sibiu), 1(1990), no. 2, 18-19.
[27] A note on G-multiplicative functions, Bull. Number Theory Rel. Top. 13(1989), 23-24.
[28] An irrational series, Astra Mat., 1(1990), no. 5, 24-25.
[29] On a summatory formula and its applications (with L. Tóth and A. Vernescu), Gazeta Mat. A., 12(1991), no. 3-4, 146-151.
[30] A note on the functions $\varphi_{k}(n)$ and $\sigma_{k}(n)$, Studia Univ. Babes-Bolyai, Math., 35(1990), no. 2, 3-6.
[31] The many facets of Euler's totient II: An assortment of miscellaneous topics (with R. Sivaramakrishnan), Nieuw Arch. Wiskunde 11(1993), 97-130.
[32] On an inequality of Klamkin with arithmetical applications, Intern. J. Math. E. Sci. Technol., 25(1994), 157-158.
[33] A number-theoretical problem in Geometry (with Gy. Berger) (Hungarian), Mat. Lapok, Cluj, 2/1994, 44-46.
[34] On a method of Galambos and Kátai concerning the frequency of deficient numbers, Publ. Math. Debrecen, 39(1991), 155-157.
[35] On certain inequalities for arithmetic functions, Notes Number Theor. Discr. Math. 1(1995), 27-32.
[36] On a new arithmetic functions, Notes Number Theor. Discr. Math., 1(1995), 60-65.
[37] On the arithmetical functions $d_{k}(n)$ and $d_{k}{ }^{*}(n)$, Portugaliae Math., 53(1996), no. 1, 107-115.
[38] On certain inequalities involving the Smarandache function, Smarandache Notions J., 7(1996), 3-6.
[39] A note on primitive Pythagorean triangles, Octogon Math. Mag., 5(1997), no. 2, 54-56.
[40] On a Diophantine equation involving Euler's totient function, Octogon Math. Mag., 6(1998), 154-157.
[41] On the irrationality of $\cos 2 \pi m / n$ (Romanian), Lucr. Semin. Did. Mat. 14(1998), 232-235.
[42] Über eine Zahlentheoretiche Funktion (with A. -V. Kramer), Math. Moravica, 3(1999), 53-62.
[43] On a conjecture of Smarandache on prime numbers, Smarandache Notions J., 11(1989), no. 1-23, 136.
[44] On certain generaslizations of the Smarandache function, Notes Number Theor. Discr. Math., 5(1999), no. 2, 41-51.
[45] On values of arithmetical functions at factorials I., Smarandache Notions J., 10(1999), 87-94.
[46] On a Diophantine equation, Octogon Math. Mag., 8(2000), no. 1, 221-223.
[47] On a limit for the sequence of primes, Octogon Math. Mag., 8(2000), no. 1, 180-181.
[48] On certain conjectures on prime numbers I., Octogon Math. Mag., 8(2000), no. 1, 183-189.
[49] On certain conjectures on prime numbers II., Octogon Math. Mag., 8(2000), no. 2, 448-453.
[50] On the difference of alternate compositions of arithmetic functions, Octogon Math. Mag., 8(2000), no. 2, 519-522.
[51] On the pseudo-Smarandache function, Smarandache Notions J., 12(2001), no. 1-2-3, 59-62.
[52] On a new Smarandache type function, Smarandache Notions J., 12(2001), 247-249.
[53] On two properties of Euler's totient, Octogon Math. Mag., 9, 1B(2000), 502-503.
[54] On a Diophantine equation involving arctangents, Octogon Math. Mag., 9, 1B (2001), 511-514.
[55] On certain exponential Diophantine equations, Octogon Math. Mag., 9, 1B (2001), 515-517.
[56] On an inhomogeneous Diophantine equation of degree 3, Octogon Math. Mag., 9, 1B (2001), 545-546.
[57] On certain new conjectures in prime number theory, Octogon Math. Mag., 9, 1B(2001), 537-538.
[58] On multiplicatively perfect numbers, J. Ineq. Pure Appl. Math., 2(2001), no. 1, article 3, 6pp. (electronic).
[59] On Heron triangles III, Notes Number Theor. Discr. Math., 7(2001), 36-47.
[60] On even perfect and superperfect numbers, Notes Number Theor. Discr. Math., 7(2001), no. 1, 4-5.
[61] On arithemtic functions and a trigonometric product (with L. Tóth), Notes Number Theor. Discr. Math., 7(2001), no. 1, 6-9.
[62] Abundant numbers, in M. Hazewinkel: Encyclopedia of Math. Suppl. III, Kluwer Acad. Publ., 2002, pp. 19-21.
[63] A generalized Pillai function, Octogon Math. Mag., 9(2001), no. 2, 746-748.
[64] A note on certain arithmetic functions, Octogon Math. Mag., 9(2001), no. 2, 793-797.
[65] On a note by Amarnath Murthy, Octogon Math. Mag., 9(2001), no. 2, 836-839.
[66] On the Diophantine equation $\frac{1}{x^{2}}+\frac{1}{y^{2}}=\frac{1}{z_{1} z_{2}}$, Octogon Math. Mag. 9(2001), no. 2, 912-913.
[67] On the Diophantine equation $4^{x}+18^{y}=22^{z}$ (with Z. Cao), Octogon Math. Mag., 9(2001), no. 2, 937-938.
[68] On an Open Question concerning Euler's totient, Octogon Math. Mag., 9(2001), no. 2, 933-934.
[69] János Bolyai's arithmetic problem (Hungarian) (with E. Kiss), Mat. Lapok, Cluj, 9/2001, 321-325.
[70] An additive analogue of the function S, Notes Number Theory Discr. Math., 7(2001), no. 3, 91-95.
[71] A note on the Chinese Remainder Theorem, Octogon Math. Mag., 9(2001), no. 2, 884-886.
[72] On certain conjectures by Russo, Smarandache Notions J., 13(2002), no. 1-3, 21-22.
[73] On certain limits related to prime numbers, Smarandache Notions J., 13(2002), no. 1-3, 11-18.
[74] On a dual of the pseudo-Smarandache function, Smarandache Notions J., 13(2002), no. 1-3, 48-54.
[75] Diophantine approximations with applications to Diophantine equations, 2002, Cluj, pp. 1-20 (Publ. Sapientia Foundation).
[76] On certain inequalities for the Smarandache function, Abstracts of Papers Presented to Amer. Math. Soc., 17(1996), 583.
[77] On the non-Lipschitz property of certain arithmetic functions, Octogon Math. Mag., 10(2002), no. 1, 352-353.
[78] On a Diophantine equation II, Octogon Math. Mag., 10(2002), no. 1, 371-373.
[79] On the Open Problem OQ. 756, or some Pell equations, Octogon Math. Mag., 10(2002), no. 1, 401-403.
[80] The Möbius function: generalizations and extensions (with A. Bege), Adv. Stud. Contemp. Math., 6(2003), no. 2, 77-128.
[81] János Bolyai's arithmetic problem and its extensions (with E. Kiss), Octogon Math. Mag., 10(2002), no. 2, 575-578.
[82] The area of a Pythagorean triangle, as a perfect power, Octogon Math. Mag., 10(2002), no. 2, 721-724.
[83] On certain inequalities for $\sigma_{k}(n)$, Octogon Math. Mag., 10(2002), no. 2, 746-749.
[84] On Diophantine equation $\frac{1}{x_{1}}+\ldots+\frac{1}{x_{n}}=\frac{a}{b}$, Octogon Math. Mag., 11(2003), no. 1, 272-274.
[85] On a divisibility problem, Octogon Math. Mag., 11(2003), no. 1, 244-245.
[86] The star function of an arithmetic function, Octogon Math. Mag., 11(2003), no. 2, 580-583.
[87] On an inequality of Moree, Octogon Math. Mag., 11(2003), no. 2, 534-536.
[88] On additive analogues of certain arithmetic functions, Notes Number Theory Discr. Math., 9(2003), no. 2, 29-32.
[89] On the irrationality of some alternating series: corrigendum (with J. Sondow), Studia Univ. Babes-Bolyai Math., 2004, no. 1, 105-106.
[90] On multiplicative e-perfect numbers, J. Ineq. Pure Appl. Math., 5(2004), no. 4, art. 114.
[91] Generalization of a theorem by Lucas, Octogon Math. Mag. 12(2004), no. 1, 59-61.
[92] On completely d-perfect numbers I, II, Octogon Math. Mag., 12(2004), 257-259; 12, 2A(2004), 749-750.
[93] On Ruzsa's lovely pairs, Octogon Math. Mag., 12(2004), no. 1, 287-289.
[94] On certain open problems considered by A. Murthy, Octogon Math. Mag., 12(2004), no. 1, 298-300.
[95] On an arithmetic functional equation, Octogon Math. Mag., 12(2004), no. 1, 296-298.
[96] A note on the divisor minimum function, Octogon Math. Mag. 12(2004), no. 1, 273-275.
[97] On a congruence by János Bolyai, connected with pseudoprimes (with E. Kiss), Math. pannonica, 15(2004), no. 2, 283-288.
[98] On a modification of the Smarandache function, Octogon Math. Mag., 12(2004), no. 2A, 521-523.
[99] On $(f, g)$-perfect numbers, Octogon Math. Mag., 12(2004), no. 2A, 539-542.
[100] Variations on a problem of Smarandache, Octogon Math. Mag., 12(2004), no. 2A, 720-723.
[101] A note on abundant and deficient numbers, Octogon Math. Mag., 12(2004), no. 2A, 734-736.
[102] On Harmonic triangles, Octogon Math. Mag., 12(2004), no. 2A, 743-744.
[103] An additive analogue of the Euler minimum function, Adv. Stud. Contemp. Math., 10(2005), no. 1, 53-62.
[104] Some inequalities for unitary arithmetic functions, Octogon Math. Mag., 13(2005), no. 1A, 188-190.
[105] On Meissner's arithmetic function, Octogon Math. Mag., 13(2005), no. 1A, 192-194.
[106] On multiplicatively lovely pairs, Octogon Math. Mag., 15(2005), no. 1A, 218-220.
[107] Some generalizations of the Bolyai-Jeans theorem (with E. Kiss), Octogon Math. Mag., 13(2005), no. 1A, 367-370.
[108] On an arithmetic problem by Traian Lalescu and Lehmer means, Octogon Math. Mag., 13(2005), no. 1A, 402-403.
[109] On certain open problems by A. Murthy, II, Octogon Math. Mag., 13(2005), no. 1B, 894-896.
[110] On Lucas partitions, Octogon Math. Mag., 13(2005), no. 1B, 918-919.
[111] On the composition of some arithmetic functions II, J. Ineq. Pure Appl. Math., 6(2005), no. 2, art 73 .
[112] A note on exponential divisors and related arithmetic functions, Scientia Magna, 1(2005), no. 1, 105-110.
[113] On certain Diophantine equations in the work of J. Bolyai (Hungarian) (with E. Kiss), Mat. Lapok, Cluj, 9(2005), 290-291.
[114] The unitary totient minimum and maximum functions, Studia Univ. Babes-Bolyai, Math., 50(2005), no. 2, 91-100.
[115] On completely $f$-perfect numbers, Scientia Magna 1(2005), no. 2, 116-119.
[116] The Smarandache minimum and maximum functions, Scientia Magna 1(2005), no. 2, 162-166.
[117] On bi-unitary harmonic numbers, RGMIA 9(2006), no. 1, article 1.
[118] A new prime-valued arithmetic function, Octogon Math. Mag., 14(2006), no. 1, 174-177.
[119] A double-inequality for Euler's totient, Octogon Math. Mag., 14(2006), no. 1, 195-196.
[120] On modified hyperperfect numbers, Octogon Math. Mag., 14(2006), no. 1, 109-113.
[121] On a conjecture of Miliakos, Octogon Math. Mag., 14(2006), no. 1, 45-451.
[122] On even and odd divisors of a number (with E. Egri), Octogon Math. Mag., 14(2006), no. 2, 529-534.
[123] On the equation $\varphi(m+n)=\varphi(m)+\varphi(n)$ (with L. Kovacs), Octogon Math. Mag., 14(2006), no. 2, 539-545.
[124] On the number and sum of squarefree integers $\leq x$, Octogon Math. Mag., 14(2006), no. 2, 567-579.
[125] On some inequalities of Dusart and Panaitopol on the function $\pi(x)$, Octogon Math. Mag., 14(2006), no. 2, 592-594.
[126] On sums or differences of perfect powers in the product of the first $r$ primes, Octogon Math. Mag., 14(2006), no. 2, 648-649.
[127] On (f, g)-perfect numbers II, Octogon Math. Mag., 14(2006), no. 2, 679-681.
[128] On a problem of I. Velescu on Eulers's totient, Octogon Math. Mag., 14(2006), no. 2, 685-686.
[129] The Diophantine equation $x_{1} \ldots x_{n}=y_{1} \ldots y_{m}$, Octogon Math. Mag., 14(2006), no. 2, 894-895.
[130] On the Diophantine equation $a!b!=c!$, Octogon Math. Mag., 14(1006), no. 2, 901-902.
[131] On the equation $\frac{4}{x!}=\frac{1}{y!}+\frac{1}{z!}+\frac{1}{t!}$ (with M. Bencze), Octogon Math. Mag., 14(2006), no. 2, 912913.
[132] On the equation $\frac{4}{\varphi(n)}=\frac{1}{x}+\frac{1}{y}+\frac{1}{z}$, Octogon Math. Mag., 14(2006), no. 2, 918-919.
[133] On non log-convexity and non log-concavity of the $\pi$-function, Octogon Math. Mag., 14(2006), no. 2, 930-931.
[134] On certain inequalities for the Smarandache function, Scientia Magna 2(2006), no. 2, 78-80.
[135] On exponentially harmonic numbers, Scientia Magna, 2(2006), no. 3, 44-47.
[136] The work of Gy. Vályi in number theory (Hungarian), Polygon (Szeged), 15(2006), no. 1, 17-25.
[137] On certain special functions of Number theory and Mathematical analysis, In: P. Cerone and S. S. Dragomir, Advances in Inequalities for special functions, pp. 161-179, Nova Science Publ., 2007.
[138] Arithmetic functions in Algebra, Geometry and Analysis (with E. Egri), Adv. Stud. Contemp. Math., 14(2007), no. 2, 161-213.
[139] On some arithmetic and real variable functions (with D. D. Somashekara and D. Mamta), Octogon Math. Mag., 15(2007), no. 1, 63-73.
[140] On almost and quasi $\varphi, \sigma, \psi$ and $\sigma^{*}$-lovely pairs. Octogon Math. Mag., 15(2007), no. 1, 226228.
[141] On certain limits for arithmetical functions, Octogon Math. Mag., 15(2007), no. 1, 280-282.
[142] On the arithmetical function $\varphi(\psi(\varphi(\psi(n))))$, Octogon Math. Mag., 15(2007), no. 1, 519-521.
[143] On certain inequalities and conjectures for the functions $\sigma$ and $\psi$, Octogon Math. Mag., 15(2007), no. 1, 527-528.
[144] On a problem of Nicol and Zhang (with F. Luca), J. Number Theory, 128(2008), no. 4, 10441059.
[145] On (m,n)-superperfect numbers (with K. T. Atanassov), Adv. Stud. Contemp. Math., 16(2008), no. 1, 23-30.
[146] A double inequality for the exponential function, with application in prime number theory, Octogon Math. Mag., 15(2007), no. 2, 797-798.
[147] On the series $\sum_{n \geq 1} 1 / n P(n)$, Octogon Math. Mag., 15(2007), no. 2, 835-836.
[148] On equation $\sigma(\varphi(n))=n-1$, Octogon Math. Mag., 15(2007), no. 2, 884-885.
[149] On the equation $\psi(n)=3 n-1$, Octogon Math. Mag., 15(2007), no. 2, 1256-1257.
[150] A note on certain Euler-Mascheroni type sequences, Scientia Magna, 4(2008), no. 1, 60-62.
[151] On some congruences for primality, Adv. Stud. Contemp. Math., 16(2008), no. 2, 235-244.
[152] On two conjectures of K. Kashihara on prime numbers, Scientia Magna, 4(2008), no. 2, 65-67.
[153] A note on the arithmetical functions $d(n)$ and $\sigma(n)$, Octogon Math. Mag., 16(2008), no. 1A, 270274.
[154] On almost $I-\varphi$ perfect numbers (with F. Luca), Octogon Math. Mag., 16(2008), no. 1A, 283-285.
[155] On the equation $\sigma_{k}(n) / d(n)=n^{k} / 2$, Octogon Math. Mag., 16(2008), no. 1A, 288-290.
[156] On certain cases of insolvability of the Diophantine equation $a x^{2}-b y^{2}=1$, Octogon Math. Mag., 16(2008), no. 1A, 291-293.
[157] On the inequality $\sigma(n)<\frac{\pi^{2}}{6} \psi(n)$, Octogon Math. Mag., 16(2008), no. 1A, 295-296.
[158] On Popoviciu type inequalities for the $\psi$ and $\sigma$ functions, Octogon Math. Mag., 16(2008), no. 1A, 320-322.
[159] On inequality $\sigma(n)>n+n^{1 / 2}+\ldots+n^{1 / k}$, Octogon Math. Mag., 16(2008), no. 1B, 792-793.
[160] On the number of divisors of $2^{n}+1$ and $2^{n}-1$, Octogon Math. Mag., 16(2008), no. 1B, 795-796.
[161] An inequality involving a Dirichlet series and a ratio of zeta functions, Octogon Math. Mag., 16(2008), no. 1B, 817-819.
[162] Extremal orders of compositions of certain arithmetic functions (with L. Tóth), Integrs: Electronic J. Comb. Numb. Th., 8(2008), \#A34, pp. 1-14.
[163] On a modification of perfect numbers (with K. Atanassov), Adv. Stud. Contemp. Math. 17(2008), no. 2, 249-255.
[164] On multiplicatively $\sigma$-perfect numbers (with L. Tóth), Octogon Math. Mag., 16(2008), no. 2, 906-908.
[165] On $S(n!+1)$, where $S$ is the Smarandache function (with F. Luca), Octogon Math. Mag., 16(2008), no. 2, 1024-1026.
[166] On inequality $\prod_{k=1}^{n} \sigma(\varphi(k))<n!$, Octogon Math. Mag., 16(2008), no. 2, 1031-1033.
[167] A note on the equation $S(d(n))=d(S(n))$ (with F. Luca), Octogon Math. Mag., 16(2008), no. 2, 1038-1039.
[168] On the difference $\varphi(n)-\varphi(\sigma(n))$, Octogon Math. Mag., 16(2008), no. 2, 1281-1282
[169] An elementary upper bound for $\sum_{k=1}^{n} \sigma(\varphi(k))$, Octogon Math. Mag., 16(2008), no. 2, 1289-1292.
[170] On the equation $\sigma(k n)=(k+1) n-k$ (with Ilka Sándor), Octogon Math. mag., 16(2008), no. 2, 1304-1306.
[171] On the equation $2 \sigma(k n)=(\sigma(n))^{k}+(\sigma(k))^{n}$, Octogon Math. Mag., 16(2008), no. 2, 1312-1313.
[172] On the equation $\frac{\sigma(x)}{d(x)}=\frac{\sigma(y)}{d(y)}$ (with L. Kovács), Octogon Math. Mag. 16(2008), no. 2, 1313-1315.
[173] On the sequence of composite odd integers, Octogon Math. Mag., 16(2008), no. 2, 1323-1325.
[174] On the Euler minimum and maximum functions, Notes Number Theor. Discr. Math., 15(2009), no. 3, 1-8.
[175] On the monotonicity of the sequence $\left(\sigma_{k} / \sigma_{k}^{*}\right)$, Notes Number Theor. Discr. Math. 15(2009), no. 3, 9-13.
[176] On the composition of a certain arithmetic function (with F. Luca), Functiones et Approximatio Comm. Math. 41(2009), no. 2, 185-209.
[177] The product of divisors minimum and naximum functiuons, Scientia Magna, 5(2009), no. 3, 13-18.
[178] A note on $f$-minimum functions, Scientia Magna, 5(2009), no. 3, 72-75.
[179] Euler and music. A forgotten arithmetic function by Euler, Octogon Math. Mag., 17(2009), no. 1, 265-271.
[180] A divisibility property of $\sigma_{k}(n)$, Octogon Math. Mag., 17(2009), no. 1, 275-276.
[181] A double inequality for $\sigma_{k}(n)$, Octogon Math. Mag., 17(2009), no. 1, 285-287.
[182] On certain inequalities for the sigma function, Octogon Math. Mag., 17(2009), no. 1, 294-296.
[183] On f-amicable pairs, Octogon Math. Mag., 17(2009), no. 2, 627-636.
[184] On certain conjectures in prime number theory, Octogon Math. Mag., 17(2009), no. 2, 727-732.
[185] An inequality for the number of divisors of $n$ (with L. Kovacs), Octogon Math. Mag., 17(2009), no. 2, 746-750.
[186] A better lower bound for $\sigma(n)$, Octogon Math. Mag., 17(2009), no. 2, 767-768.
[187] Inequalities involving $\sigma_{2}(n)$, Octogon Math. Mag., 17(2009), no. 2, 736-740.
[188] An improvement of the Bagchi-Gupta arithmetic inequality, Octogon Math. Mag., 17(2009), no. 2, 771-773.
[189] An application of the Catalan equation, Octogon Math. Mag., 17(2009), 965-966.
[190] Two arithmetic inequalities, Adv. Stud. Contemp. Math., 20(2010), 197-202.
[191] On an inequality of Klamkin, Proc. Jangjeon Math. Soc., 13(2010), no. 1, 49-54.
[192] On an arithmetic inequality by K. Atanassov (with L. Kovács), Proc. Jangjeon Math. Soc., 13(2010), no. 3, 313-319.
[193] Even perfect numbers: divisibility properties (Hungarian), Polygon (Szeged), 19(2010), no. 1, 57-61.
[194] On a binomial coefficient and a product of prime numbers (with H. Alzer), Appl. Anal. Discr. Math., 5(2011), no. 1, 87-92.
[195] On a limit involving the product of prime numbers (with A. Verroken), Notes Number Theory Discr. Math. 17(2011), no. 2, 1-3.
[196] On two inequalities for the composition of arithmetic functions, Scientia Magna 7(2011), no. 4, 107-111.
[197] A note on a Diophantine equation, Octogon Math. Mag., 19(2011), no. 1, 123-124.
[198] Inequalities for multiplicative arithmetic functions, Octogon Math. Mag., 19(2011), no. 2, 365-374.
[199] On certain bounds and limits for prime numbers, Notes Number Th. Discr. Math., 18(2012), no. 1, 1-5.
[200] On the number and sum of digits of an integer (Hungarian), Polygon (Szeged), 21(20130, no. 1-2, 83-88.
[201] On certain inequalities for Euler's totient function (with F. Luca), Did. Math. 25(2007), no. 2, 71-74.
[202] On a divisibility problem (with H. Alzer), Rend. Sem. Mat. Univ. Padova 130(2013), 215-220.
[203] A note on a Diophantine equation, Notes Number Th. Discr. Math., 19(2013), no. 4, 1-3.
[204] On some number-theoretical results by Farkas Bolyai and János Bolyai, Adv. Stud. Contemp. Math., 24(2014), no. 1, 137-148.
[205] On an arithmetic inequality, Anal. St. Univ. Ovidius Constanta 22 (2014), no. 1, 257-261.
[206] On certain inequalities for $\sigma, \varphi, \psi$ and related functions, Notes Number Th. Discr. Math., 20(2014), no. 2, 52-60.
[207] Remark on twin primes, Notes Number Theor. Discr. Math., 20(2014), no. 3, 29-30.
[208] A note concerning Euler's totient (with N. Minculete), General Math., 21(2013), no. 1-2, 13-21.
[209] A basic logarithmic inequality and the logarithmic mean, Notes Number Theor. Discr. Math. 21(2015), no. 2, 31-35.
[210] The arithmetics of cuboids (Hungarian), Mat. Lapok, Cluj, 19(2015), no. 8, 299-301.
[211] On certain upper bounds for the sum of divisors function (with L. Kovács), Acta Univ. Sapientiae Math., 7(2015), 265-277.
[212] A note on Dedekind's arithmetical function, Notes Number Theor. Discr. Math., 22(2016), no. 1, 5-7.
[213] Wilson's group-theoretical theorem (Hungarian), Matlap (Cluj), 13(2009), 330-331.
[214] On the sum of the first $n$ primes (Hungarian), Matlap (Cluj), 18(2014), no. 8, 294-296.

