

2. Papers

2.1) Papers Published in the International Journals (The papers written in bold are in SCI, SCI-Exp, ESCI or Web of Science Journals) (Corresponding authors are underlined)

1994

- 01) Cangül, İ. N., Normal Subgroups of the Hecke Group $H(\sqrt{2})$, Commun. Fac. Sci. Univ. Ank. Series A1, 43 (1994), 129-135

1995

- 02) Cangül, İ. N., Normal Subgroups of the Hecke Groups and Regular Maps, Hacettepe Bull. of Nat. Sci. and Eng., 24 (1995), 15-23

1996

- 03) Cangül, İ. N., The Group Structure of Hecke Groups $H(\lambda_q)$, Tr. J. of Mathematics, 20 (1996), 203-207
04) Cangül, İ. N., About the Connection between Regular Maps and Triangle Groups, J. of The Faculty of Arts and Science of Sakarya University (1996), 33-35

1997

- 05) Cangül, İ. N., The Minimal Polynomials of $\cos(2\pi/n)$ over \mathbb{Q} , Problemy Matematyczne, 15 (1997), 57-62
06) Cangül, İ. N. & Bizim, O., Construction of some Finite Classes of Normal Subgroups of Hecke Groups, Problemy Matematyczne, 15 (1997), 47-55.
07) Cangül, İ. N., About some Normal Subgroups of Hecke Groups, Tr. J. of Mathematics, 21 (1997), 143-151

1998

- 08) Cangül, İ. N. & Singerman, D., Normal Subgroups of Hecke Groups and Regular Maps, *Math. Proc. Camb. Phil. Soc.*, 123 (1998), 59-74
- 09) Cangül, İ. N., Bizim, O., Normal subgroups of Hecke groups on sphere and torus, *Tr. J. Mathematics*, 22 (1998), 369-377

1999

- 10) Kaynak, G. & Ergül, R. & Cangül, İ. N., A New Approach to the Determination of Total Electron Density by Atomic Form Factor, *Sci. Int.* 11 (1) (1999), 1-2
- 11) Cangül, İ. N., Normal subgroups and elements of $H(\lambda_q)$, *Tr. J. Mathematics*, 23 (1999), 251-256
- 12) Cangül, İ. N. & Bizim, O., Cycloidal Normal Subgroups of Hecke Groups of Finite Index, *Tr. J. Mathematics*, 23 (1999), 345-354

2000

- 13) Yılmaz, N. & Cangül, İ. N., Normal Subgroups of Hecke Group $H(5)$, *Bull of Academia Sinica*, 28 (4) (2000), 277-283
- 14) Yılmaz, N. & Cangül, İ. N., Conjugacy classes of Elliptic elements in the Picard group, *Tr. J. Maths*, 24 (2000), 209-220
- 15) Yılmaz, N. & Cangül, İ. N., The Normaliser of the Modular Group in the Picard Group, *Bull of Academia Sinica*, 28 (2000), 125-129

2001

- 16) Cangül, İ. N., Determining Isomorphism class of a Fuchsian group from its signature, *Bull of Academia Sinica*, 29 (2001), 313-316
- 17) Yılmaz, N. & Cangül, İ. N., Power subgroups of Hecke groups $H(\sqrt{n})$, *Int. J. of Mathematics and Mathematical Sciences*, 25 (2001), 703-708

2002

- 18) Cangül, İ. N. & Bizim, O., Commutator subgroups of Hecke Groups, Bull of Academia Sinica, 30 (2002), 253-259
- 19) Cangül, İ. N. & Bizim, O., Congruence subgroups of some Hecke Groups, Bull of Academia Sinica, 30 (2002), 115-131
- 20) Yılmaz Ozgur, N. & Cangül, İ. N., On the group structure and parabolic points of the Hecke Group $H(\lambda)$, Proceedings of the Estonian Academy of Sciences, 51 (2002), 35-46

2003

- 21) Türker-Ulutaş, Y. & Cangül, İ. N., One Relator Quotients of the Hecke Group $H((1+\sqrt{5})/2)$, Bull of Academia Sinica, 31 (2003), 59-74

2004

- 22) Cangül, İ. N. & Bizim, O., Small indexed normal subgroups of Hecke Group $H((1+\sqrt{5})/2)$, The Southeast Asian Bulletin of Mathematics, 27 (2004), 791-794
- 23) Cangül, İ. N. & Yılmaz-Özgür, N., On the Principal Congruence Subgroups of the Hecke-Group $H(\sqrt{5})$, Beitrage zur Algebra und Geometrie: Contributions to Algebra and Geometry , 45 (2004), 75-85
- 24) Sahin, R., Bizim, O. & Cangül, İ. N., **Commutator Subgroups of the Extended Hecke Groups $H(\lambda)$** , Czechoslovak Mathematical Journal, 54 (129) (2004), 253-259
- 25) Türker-Ulutaş, Y. & Cangül, İ. N., One Relator Quotients of the Modular Group, Bull of Academia Sinica, 32 (2004), 291-296

2005

- 26) Cangül, İ. N., Demirci, M., Soydan, G., Yıldız-İkikardeş, N., Rational Points on Elliptic Curves $y^2 = x^3 + a^3$ in F_p , Proc. 16th Int. Conf. Jangjeon Math. Soc., 16 (2005), 26-33

2006

- 27) Ozdemir, H. B., Demirci, M., Cangul, I. N., A method for finding normal subgroups of Hecke groups, Proc. of the Jangjeon Math. Soc., 9 (2006), 51-55
- 28) Ozdemir, H. B., Demirci, M., Cangul, I. N., Determining the Signature of Normal Subgroups of Discrete Groups, International Journal of Contemporary Mathematical Sciences, <http://dx.doi.org/10.12988/ijcms.2006.060041>, (2006), 25-30
- 29) Ozdemir, H. B., Ulutas, Y. T., Cangul, I. N., Normal Subgroups of the Hecke Group $H(\sqrt{2})$ Corresponding to One Relator Quotients of Small Order, International Journal of Contemporary Mathematical Sciences, 1 (2006), 15-23
- 30) Dogan, S., Demirci, M., Bizim, O., Cangul, I. N., A Constructive Method for the Cycloidal Normal Free Subgroups of Finite Index of Hecke Groups $H(\sqrt{2})$ and $H(\sqrt{3})$, Bull of Academia Sinica, 3 (2006), 429-436
- 31) Demirci, M., Cangül, İ. N., A Class of Congruence Subgroups of Hecke Group $H(\lambda_5)$, Bull of Academia Sinica, 4 (2006), 549-556
- 32) Demirci, M., Soydan, G., Cangül, İ. N., Diophantine Equations and Congruence Subgroups of the Hecke Groups $H(\sqrt{2})$ and $H(\sqrt{3})$, Adv. Studies in Contemporary Maths., 12 (2006), 309-313
- 33) Tekcan, A., Bizim, O., Cangül, İ. N., The Number of Representations of Positive Integers by Positive Quadratic Forms, Proc. Jangjeon Math. Soc., 9-2 (2006), 125-136

2007

- 34) İnam, İ., Soydan, G., Demirci, M., Bizim, O., Cangül, İ. N., Corrigendum on “The Number of Points on Elliptic Curves $E: y^2 = x^3 + cx$ over \mathbb{F}_p mod 8, Communications of the Korean Math. Soc., 22-2 (2007), 207-208
- 35) Türker Ulutaş, Y., Cangül, İ. N., One Relator Quotient Groups of the Hecke Group $H(\sqrt{2})$ of Finite Index, J. of Appl. Funct. Differential Equations, (2007)
- 36) Demirci, M., Soydan, G., Cangül, İ. N., Rational Points on Elliptic Curves $y^2 = x^3+a^3$ in \mathbb{F}_p where $p \equiv 1 \pmod{6}$ is prime, Rocky Mountain J. of Mathematics, 37 (5) (2007), 1483-1491

- 37) Cangül, İ. N., Şahin, R., İkikardeş, S., Koruoğlu, Ö., Power Subgroups of some Hecke groups II, *Houston J. of Mathematics*, 33 (2007), 33-42
- 38) Cangül, İ. N., Kurt, V., Şimşek, Y., Pak, H. K., Rim, S.-H., An Invariant p-adic q-Integral Associated with q-Euler Numbers and Polynomials, *J. of Nonlinear Mathematical Physics*, 14-1 (2007), 8-14
- 39) İnam, İ., Bizim, O., Cangül, İ. N., Rational Points on Frey Elliptic Curves $y^2 = x^3 - n^2x$, *Adv. Studies in Contemporary Maths.*, 14-1 (2007), 69-76
- 40) Soydan, G., İkikardeş, N. Y., Demirci, M., Cangül, İ. N., On the Additive Structure of the Set of Quadratic Residues Modulo p, *Adv. Studies in Contemporary Maths.*, 14-2 (2007), 251-257
- 41) İkikardeş, S., Koruoğlu, Ö., Şahin, R., Cangül, İ. N., One Relator Quotients of the Hecke Group $H(\lambda_7)$, *Int. J. Math. Sci.*, (2007),
- 42) Özden, H., Şimşek, Y., Rim, S-H., Cangül, İ. N., A Note on p-adic q-Euler Measure, *Adv. Studies in Contemporary Maths.*, 14-2 (2007), 233-239
- 43) Özden, H., Şimşek, Y., Cangul, İ. N., Euler polynomials associated with p-adic q-Euler measure, *General Mathematics*, 15 (2-3) (2007), 24-37
- 44) Demirci, M., Soydan, G., İkikardeş, N. Y., Cangül, İ. N., Rational Points on Frey elliptic curves on finite fields, *Advances in Theoretical and Applied Mathematics*, 2 (2007), 129-136
- 45) Soydan, G., Demirci, M., İkikardeş, N. Y., Cangül, İ. N., Counting the Number of Pythagorean Triples in Finite Fields, *Advances in Theoretical and Applied Mathematics*, 2 (2007), 77-82.
- 46) İkikardeş, N. Y., Soydan, G., Demirci, M., Cangül, İ. N., Classification of the Bachet Elliptic Curves $y^2 = x^3 + a^3$ in F_p , where $p \equiv 1 \pmod{6}$ is Prime, *Int. J. of Mathematics Sciences*, 1 (4) (2007), 239-241.
- 47) Soydan, G., Demirci, M., İkikardeş, N. Y., Cangül, İ. N., Rational Points on Elliptic Curves $y^2 = x^3 + a^3$ in F_p , where $p \equiv 5 \pmod{6}$ is Prime, *Int. J. of Mathematics Sciences*, 1 (4) (2007), 247-250.
- 48) Demirci, M., İkikardeş, N. Y., Soydan, G., Cangül, İ. N., The Number of Rational Points on Elliptic Curves $y^2 = x^3 + a^3$ on Finite Fields, *Int. J. of Mathematics Sciences*, 1 (4) (2007), 255-257.

2008

- 49) İkikardeş, N. Y., Demirci, M., Soydan, G., Cangül, İ. N., The group structure of Frey elliptic curves over finite fields F_p , Journal of Algebra, Number Theory and Applications, 10 – 2 (2008), 255-262.
- 50) Şimşek, Y., Cangül, İ. N., Kurt, V., Kim, D., q-Genocchi Numbers and Polynomials Assoc. With q-Genocchi-type I-Functions, Advances in Difference Equations, (2008), Article ID 815750, doi:10.1155/2008/815750, 1-12
- 51) Ozden, H., Cangul, I. N., Simsek, Y., Multivariate Interpolation Functions of Higher order q-Euler Numbers and Their Applications, Abstract and Applied Analysis (2008), Article ID 390857, DOI: 10.1155/2008/390857, 1-16
- 52) Cangül, İ. N., Özden, H., Şimşek, Y., Generating Functions of the (h,q) Extension of Twisted Euler Polynomials and Numbers, Acta. Math. Hungar. 120 (3), (2008), 281-299.
- 53) Özden, H., Cangül, İ. N., Şimşek, Y., Remarks on sum of products of (h,q)-twisted Euler Polynomials and Numbers, Journal of Inequalities and Applications, (2008), Article ID: 816129, DOI: 10.1155/2008/816129
- 54) Cangul, I. N., Cevik, S., Koruoglu, O., The isomorphism between two fundamental groups by Cayley graphs, Adv. Studies in Contemporary Maths., 17 (1), (2008), 17-23.
- 55) İkikardeş, S., Koruoğlu, Ö., Şahin, R., Cangül, İ. N., One relator quotients of the extended Modular Group, Adv. Studies in Contemporary Maths., 17 (2) (2008), 203-210

2009

- 56) Soydan, G., Demirci, M., Cangül, İ. N., The Diophantine Equation $x^2 + 11^m = y^n$, Adv. Studies in Contemporary Maths., 19 (2009), No: 2, 183-188
- 57) Ozden, H., Cangul, I. N., Simsek, Y., Hurwitz type multiple Genocchi zeta function, Numerical Analysis and Applied Mathematics, Computational

Methods in Science and Engineering, AIP Conference Proceedings, 1148, (2009), 781-784

- 58) Cangül, İ. N., Özden, H., Şimşek, Y., A new approach to q-Genocchi numbers and their interpolation functions, **Nonlinear Analysis Series A: Theory, Methods & Applications**, 71 (2009), 793-799
- 59) Özden, H., Cangül, İ. N., Şimşek, Y., On the behavior of two variable twisted p-adic Euler q-l-Functions, **Nonlinear Analysis Series A: Theory, Methods & Applications** 71 (2009), 942-951
- 60) İnam, İ., Yurttaş, A., Bizim, O., Cangül, İ. N., Bernoulli-Frey Elliptic Curves, **Advances and Applications in Mathematical Sciences**, (2009)
- 61) Özden, H., Cangül, İ. N., Şimşek, Y., Remarks on q-Bernoulli numbers associated with Daehee numbers, **Adv. Studies in Contemporary Maths.**, 18/1 (2009), 41-48
- 62) Cevik, S., Cangul, I. N., Matroids in terms of Cayley Graphs and some related results, **General Mathematics**, 17/2, 87-97, (2009)
- 63) İkikardeş, N. Y., Demirci, M., Soydan, G., Cangül, İ. N., The Group Structure of Bachet Elliptic Curves over Finite Fields F_p , **Miskolc Mathematical Notes**, 10 (2009), No:2, 129-136
- 64) Yurttas, A., Demirci, M., Ozbay, H., Capkin, M., Cangul, I. N., Construction of cycloidal free subgroups of Hecke groups of finite index, **JP Journal of Algebra, Number Theory and Applications**, 14 (2) (2009), 191-201
- 65) Cangul, I. N., Kurt, V., Ozden, H., Simsek, Y., On the higher order w-q-Genocchi numbers, **Adv. Studies in Contemporary Maths.**, 19/1, (2009), 39-57
- 66) İkikardeş, S., Şahin, R., Cangül, I. N., Principal Congruence Subgroups of the Hecke Groups and Related Results, **Bulletin of the Brazilian Mathematical Society, New Series** 40 (4) (2009), 479-494
- 67) Acikgoz, M., Cangul, I. N., Kim, D. and Simsek, Y., Applications of Hecke operator to generalized Dedekind Eta function, **Numerical Analysis and Applied Mathematics, AIP Conference Proceedings**, 1168 (2009), 568-571
- 68) Cangul, I. N., Soydan, G., Simsek, Y., A p-adic look at the Diophantine equation $x^2+11^{2k} = y^n$, **Numerical Analysis and Applied Mathematics, AIP Conference Proceedings**, 1168 (2009), 275-277

2010

- 69) Cangul, I. N., Demirci, M., Soydan, G., Tzanakis, N., On the Diophantine Equation $x^2 + 5^a 11^b = y^n$, *Functiones et Approximatio Commentarii Mathematici*, Volume 43, Number 2 (2010), 209-225
- 70) Cangul, I. N., Demirci, M., Luca, F., Pinter, A., Soydan, G., On the Diophantine Equation $x^2 + 2^a \cdot 11^b = y^n$, *Fibonacci Quart.*, 48 (2010), 39-46
- 71) Koruoğlu, O., Sahin, R., İkikardes, S., Cangul, I. N., Normal subgroups of Hecke Groups $H(\lambda)$, *Algebras and Representation Theory*, 13 (2010), 219-230
- 72) Sahin, R., İkikardes, S., Koruoğlu, O., Cangul, I. N., The Connections Between Continued Fraction Representations of Units and the Hecke Groups, *Bulletin of the Malaysian Mathematical Sciences Society*, 33 (2) (2010), 205-210
- 73) Tekcan, A., Alkan, H., Ozkoc, A., Cetin, E. & Cangul, I. N., Rational Points on curves over finite fields, *Antartica J. of Mathematics*, 7 (2010), 431-437
- 74) Cangul, I. N., Simsek, Y., A note on interpolation functions of the Frobenious-Euler numbers, *Applications of Mathematics in Technical and Natural Sciences*, 1301 (2010), 59-67
- 75) Cangul, I. N., Demirci, M., Yurttas, A., Güzel Karpuz, E., Ates, F., Determination of Genus of Normal Subgroups of Discrete Groups, *Numerical Analysis and Applied Mathematics*, 1281 (2010), 1148-1151
- 76) Namli, D., Cangul, I. N., Cevik, A. S., Gungor, A. D., Tekcan, A., Primes in $Z[\exp(2\pi i/3)]$, *Numerical Analysis and Applied Mathematics*, 1281 (2010), 1129-1132
- 77) Cevik, A. S., Gungor, A. D., Güzel Karpuz, E., Ates, F., Cangul, I. N., A new example of deficiency one groups, *Numerical Analysis and Applied Mathematics*, 1281 (2010), 1111-1116
- 78) Gungor, A. D., Cevik, A. S., Güzel Karpuz, E., Ates, F., Cangul, I. N., Generalisation for Estrada index, *Numerical Analysis and Applied Mathematics*, 1281 (2010), 1106-1110
- 79) Güzel Karpuz, E., Ates, F., Cangul, I. N., Gungor, A. D., Cevik, A. S., On the Norms of Toeplitz and Hankel Matrices with Pell Numbers, *Numerical Analysis and Applied Mathematics*, 1281 (2010), 1117-1120

- 80) Ates, F., Güzel Karpuz, E., Gunor, A. D., Cevik, A. S., Cangul, I. N., On the Efficiency of Semi-Direct Products of Finite Cyclic Monoids by One-Relator Monoids, Numerical Analysis and Applied Mathematics, 1281 (2010), 1121-1124
- 81) Tekcan, A., Ozkoc, A, Cangul, I. N., Indefinite quadratic forms and their neighbours, Numerical Analysis and Applied Mathematics, 1281 (2010), 1102-1105
- 82) Cangul, I. N., Professor H. M. Srivastava: Man and Mathematician, European Journal of Pure and Applied Mathematics, 3 (6) (2010), 1165-1169, ISSN: 1307 5543

2011

- 83) Güzel Karpuz, E., Ateş, F., Çevik, A. S., Cangul, I. N., Maden, A. D., The Next Step of the Word Problem for Monoids, Applied Mathematics and Computation, 218 (3), (2011), 794-798
- 84) Ozkoç, A., Tekcan, A., Cangul, I. N., Solving Some Parametric Quadratic Diophantine Equation over Z and F_p, Applied Mathematics and Computation, 218 (3), (2011), 703-706
- 85) Acıkgoz, M., Araci, S., Cangul, I. N., A note on the modified q-Bernstein polynomials for functions of several variables and their reflections on q-Volkenborn integration, Applied Mathematics and Computation, 218 (3), (2011), 707-712
- 86) Ranjini, P. S., Lokesha, V., Cangul, I. N., On the Zagreb Indices of the Line Graphs of the Subdivision Graphs, Applied Mathematics and Computation, 218 (3), (2011), 699-702
- 87) Cangul, I. N., Professor H. M. Srivastava: Man and Mathematician, Applied Mathematics and Computation, 218 (3), (2011), 655-657
- 88) Cangul, I. N., Cho, N. E., Choi, J., Preface of Special Issue in Honour of Hari M. Srivastava on his 70th Birth Anniversary, Applied Mathematics and Computation, 218 (3), (2011), 653-654

- 89) Tekcan, A., Özkoc, A., Cetin, E., Alkan, H., Cangul, I. N., Quadratic Forms, Elliptic Curves and Integer Sequences, *Acta Universitatis Apulensis*, 25 (2011), 9-30
- 90) Togan, M., Ozgur, B., Cangul, I. N., Some Special Cases of the Minimal Polynomial of $2\cos(\pi/q)$ over \mathbb{Q} , *Numerical Analysis and Applied Mathematics, AIP Conf. Proc.* 1389 (2011), 375-377
- 91) Cetin, E., Ozbay, H., Togan, M., Cangul, I. N., Properties of n-th degree Bernstein polynomials, *Numerical Analysis and Applied Mathematics, AIP Conf. Proc.*, 1389 (2011), 392-395
- 92) Demirci, M., Yurttas, A., Cangul, I. N., Upper bounds for the level of normal subgroups of Hecke groups, *Numerical Analysis and Applied Mathematics, AIP Conf. Proc.*, 1389 (2011), 337-340
- 93) Yurttas, A., Demirci, M., Cangul, I. N., Classification of normal subgroups of Hecke group H_6 in terms of parabolic class number, *Numerical Analysis and Applied Mathematics, AIP Conf. Proc.*, 1389 (2011), 315-316
- 94) Ozgur, B., Demirci, M., Yurttas, A., Cangul, I. N., Some properties of the minimal polynomials of $2\cos(\pi/q)$ for odd q , *Numerical Analysis and Applied Mathematics, AIP Conf. Proc.*, 1389 (2011), 353-356
- 95) Demirci, M., Yildiz Ikikardes, N., Ozgur, B., Cangul, I. N., The minimal polynomial of $2\cos(\pi/2k)$ over the rationals, *Numerical Analysis and Applied Mathematics, AIP Conf. Proc.*, 1389 (2011), 325-328

2012

- 96) Bayad, A., Cangul, I. N., The Minimal Polynomial of $2\cos(\pi/q)$ and Dickson Polynomials, *Applied Mathematics and Computation*, 218 (2012), 7014-7022
- 97) Srivastava, H. M., Ozden, H., Cangul, I. N., Simsek, Y., A Unified Presentation of Certain Meromorphic Functions Related to the Families of the Partial Zeta Type Functions and the L-Functions, *Applied Mathematics and Computation*, 219 (2012), 3903-3913
- 98) Yurttas, A., Ozgur, B., Cangul, I. N., Calculation of the minimal polynomial of $2\cos(\pi/n)$ over \mathbb{Q} with Maple, *Numerical Analysis and Applied*

Mathematics, AIP Conf. Proc., 1479 (2012), 371-374, Kos, Greece, 19-25.09.2012

- 99) Ozgur, B., Yurttas, A., Cangul, I. N., Determining the minimal polynomial of $\cos(2\pi/n)$ over \mathbb{Q} with Maple, Numerical Analysis and Applied Mathematics, AIP Conf. Proc., 1479 (2012), 368-370, Kos, Greece, 19-25.09.2012
- 100) Cangul, I. N., Yurttas, A., Togan, M., Cevik, A. S., Some Formulae for the Zagreb Indices of Graphs, Numerical Analysis and Applied Mathematics, AIP Conf. Proc., 1479 (2012), 365-367, Kos, Greece, 19-25.09.2012

2013

- 101) Ozden, H.; Cangul, I.N.; Simsek, Y. Generalized q-Stirling Numbers and Their Interpolation Functions. *Axioms* 2013, 2, 10-19
- 102) Cangul, I. N., Cevik, A. S., Simsek, Y., Analysis Approach to Finite Monoids, Fixed Point Theory and Applications, 15, doi:10.1186/1687-1812-2013-15, 2013
- 103) Das, K. Ch., Yurttas, A., Togan, M., Cangul, I. N., Cevik, A. S., The Multiplicative Zagreb Indices of Graph Operations, Journal of Inequalities and Applications, 90, doi:10.1186/1029-242X-2013-90, 2013, 1-14
- 104) Cetin, E., Acikgoz, M., Cangul, I. N., Araci, S., A Note on the (h,q)-Zeta Type Function with Weight α , Journal of Inequalities and Applications, 100, DOI: 10.1186/1029-242X-2013-100, 2013
- 105) Das, K. Ch., Cangul, I. N., Maden, A. D., Cevik, A. S., On the Spectral Radius of Bipartite Graphs which are Nearly Complete, Journal of Inequalities and Applications, 121, doi:10.1186/1029-242X-2013-121, 2013
- 106) Cangul, I. N., Cevik, A. S., Simsek, Y., A new approach to connect Algebra with Analysis: Relationships and Applications between Presentations and Generating Functions, Boundary Value Problems, 51, doi:10.1186/1687-2770-2013-51, 2013
- 107) Demirci, M., Cangul, I. N., The Constant Term of the Minimal Polynomial of $\cos(2^*\pi/n)$ over \mathbb{Q} , Fixed Point Theory and Applications, 77, DOI: 10.1186/1687-1812-2013-77, 2013

- 108) **Güzel Karpuz, E., Ates, F., Cevik, A. S., Cangul, I. N.,** The Graph Based on Gröbner-Shirshov Bases of Groups, Fixed Point Theory and Applications, 71, doi:10.1186/1687-1812-2013-71, 2013
- 109) **Cevik, A. S., Das, K. Ch., Simsek, Y., Cangul, I. N.,** Some Array Polynomials over Special Monoid Presentations, Fixed Point Theory and Applications, 44, doi:10.1186/1687-1812-2013-44, 2013
- 110) **Güzel Karpuz, E., Das, K. Ch., Cangul, I. N., Cevik, A. S.,** A New Graph Based on the Semi-direct Product of Some Monoids, Journal of Inequalities and Applications, 118, doi:10.1186/1029-242X-2013-118, 2013
- 111) **Lokesha, V., Shetty, S. B., Cangul, I. N., Ranjini, P. S., Cevik, A. S.,** New Bounds for Randic and GA Indices, Journal of Inequalities and Applications, 2013:180,d DOI: 10.1186/1029-242X-2013-180
- 112) **Akgunes, N., Das, Kinkar Ch., Cangul, I. N., Cevik, A. S.,** Some Properties on the Lexicographic Product of Graphs Obtained by Monogenic Semigroups, Journal of Inequalities and Applications, (2013), 2013:238, DOI: 10.1186/1029-242X-2013-238
- 113) **Das, Kinkar Ch., Cevik, A. S., Cangul, I. N.,** The Number of Spanning Trees of a Graph, Journal of Inequalities and Applications, DOI: doi:10.1186/1029-242X-2013-395, (2013), 1-12
- 114) **Emin, A., Ates, F., Ikikardes, S., Cangul, I. N.,** A New Monoid Construction Under Crossed Products, Journal of Inequalities and Applications, 2013
- 115) **Cangul, I. N., Demirci, M., Inam, I., Luca. F., Soydan, G.,** On the Diophantine Equation $x^2+2^a \cdot 3^b \cdot 11^c = y^n$, Mathematica Slovaca, 63/3 (2013), 647-659, DOI:10.2478/s12175-013-0125-2
- 116) **Das, Kinkar Ch., Xu, K., Cangul, I. N., Cevik, A. S., Graovac, A.,** On the Harary Index of Graph Operations, Journal of Inequalities and Applications, SI: Recent Advances in General Inequalities, DOI: 10.1186/1029-242X-2013-339, 2013, 1-16
- 117) **Cangul, I. N., Professor H. M. Srivastava: Man and Mathematician, Boundary Value Problems,** 2013
- 118) **Cangul, I. N., Professor H. M. Srivastava: Man and Mathematician, Advances in Difference Equations,** 2013

- 119) Cangul, I. N., Cho, N. E., Djordjevic, D. S., Preface, **Journal of Inequalities and Applications**, 421, 2013, 1-3
- 120) Cangul, I. N., Choi, J., Sharma, S. K., Preface, **Fixed Point Theory and Applications**, 2013
- 121) Cangul, I. N., Choi, J., Cvijovic, D., Preface, **Boundary Value Problems**, 198, 2013, 1-3
- 122) Cangul, I. N., Cvijovic, D., Preface, **Advances in Difference Equations**, 2013
- 123) Cangul, I. N., Professor H. M. Srivastava: Man and Mathematician, **Fixed Point Theory and Applications**, 2013:226 doi:10.1186/1687-1812-2013-226 2013
- 124) Cangul, I. N., Professor H. M. Srivastava: Man and Mathematician, **Journal of Inequalities and Applications** 2013, 2013:413 doi:10.1186/1029-242X-2013-413
- 125) Karpuz, E. G., Cevik, A. S., Koppitz, J., Cangul, I. N., Some fixed-point results on (generalized) Bruck-Reilly *-extensions of monoids, **Fixed Point Theory and Applications**, 2013:226 doi:10.1186/1687-1812-2013-226 2013

2014

- 126) Araci, S., Acikgoz, M., Cangul, I. N., Some new identities on the h,q-Genocchi Numbers and Polynomials with Weight α , **Journal of Analysis & Number Theory**, 2, No. 2, 45-49 (2014)
- 127) Soydan, G., Cangul, I. N., Note on "On the Diophantine equation $nx^2+2^2m=y^n$ " [Y. Wang, T. Wang, J. Number Theory 131 (8) (2011), 1486-1491], **Journal of Number Theory** 140 (2014), 425-426 DOI: 10.1016/j.jnt.2013.12.009
- 128) Cevik, A. S., Das, Kinkar Ch., Cangul, I. N., Maden, A. D., Minimality over Free Monoid Presentations, **Hacettepe J. Maths**, 43 (6), 899-913, 2014
- 129) Cetin, E., Simsek, Y., Cangul, I. N., Some special finite sums related to the three-term polynomial relations and their applications, **ADE**, 283, 1-18 (2014), DOI: 10.1186/1687-1847-2014-283

2015

- 130) **Cangul, I. N., Cevik, A. S., Simsek, Y., Generalization of q-Apostol-type Eulerian numbers and polynomials, and their interpolation functions, Advanced Studies in Contemporary Mathematics 25 (2) (2015), 211-220**
- 131) Togan, M., Yurttas, A., Cangul, I. N., Some formulae and inequalities on several Zagreb indices of r-subdivision graphs, Enlightments of Pure and Applied Mathematics (EPAM), 1 (1), 2015, 29-45 (*F-2012/19 and F-2013/23*)
- 132) Lokesha, V., Shetty, S. B., Ranjini, P. S., Cangul, I. N., Computing ABC, GA, Randic and Zagreb Indices, Enlightments of Pure and Applied Mathematics (EPAM), 1 (1), 2015, 17-28
- 133) Ranjini, P. S., Lokesha, V., Cevik, A. S., Cangul, I. N., Sharp Bounds for SZ, PI and GA_2 Indices in Terms of the Number of Triangles, Ilirias Journal of Mathematics, 4:1 (2015), 41-49 (*F2013-23, F-2013-87, 2015-17 and 2015-23*)
- 134) **Hosamani, S. M., Malghan, S. H., Cangul, I. N., The First Geometric-Arithmetic Index of Graph Operations, Advances and Applications in Mathematical Sciences, 14 (6) (2015), 155-163**

2016

- 135) **Guzel Karpuz, E., Ates, F., Cangul, I. N., Cevik, A. S., A presentation and some finiteness conditions for a new version of the Schützenberger product of monoids, Turkish Journal of Mathematics, 40 (2016), 224-233 (*F-2015/17 and F-2015/23*)**
- 136) **Güzel Karpuz, E., Ates, F., Urlu, N., Cevik, A. S., Cangul, I. N., A Note on the Gröbner-Shirshov Bases over Ad-hoc Extensions of Groups, Filomat, 30:4 (2016), 1037-1043, DOI 10.2298/FIL1604037K (*F-2015/17, 2013/23, 2015/23 and 2013/87*)**
- 137) **Adiga, Chandrashekhar, Cangul, I. N., Ramaswamy, H. N., On the constant term of the minimal polynomial of $\cos(2\pi/n)$ over Q, Filomat 30:4 (2016), 1097-1102, DOI 10.2298/FIL1604097A (*F-2013-23, F-2013-87, F-2015-17 and F-2015-23*)**
- 138) **Bindusree, A. R., Cangul, I. N., Lokesha, V., Cevik, A. S., Zagreb Polynomials of three Graph Operators, Filomat 30 (7) (2016), 1979-1986, DOI 10.2298/FIL1607979B (*2013/23, 2014/24, 2015/17*)**

- 139) **Guzel Karpuz, E., Ates, F., Cangul, I. N., Cevik, A. S., Finite Derivation Type for Graph Products of Monoids**, Filomat, 30 (7) (2016), 1987-1995, DOI 10.2298/FIL1607987K (*F-2013/23, F-2014/24 and F-2015/17*)
- 140) **Togan, M., Yurttas, A., Cangul, I. N., All versions of Zagreb indices and coindices of subdivision graphs of certain graph types**, Advanced Studies in Contemporary Mathematics, 26 (1) (2016), 227-236 (*F-2012/19, F-2013/23, F-2015/17 and F-2015/23*)
- 141) **Das, Kinkar Ch., Akgunes, N., Togan, M., Yurttas, A., Cangul, I. N., Cevik, A. S., On the first Zagreb index and multiplicative Zagreb coindices of graphs**, Analele Stiintifice ale Universitatii Ovidius Constanta, 24 (1) (2016), 153-176 DOI: 10.1515/auom-2016-0008
- 142) **Ates, F., Cangul, I. N., Cetinalp, E. K., Cevik, A. S., Guzel Karpuz, E., On Commutator and Power Subgroups of Some Coxeter Groups**, Applied Mathematics and Information Sciences, 10 (2) (2016), 777-783 DOI: 10.18576/amis/100238
- 143) **Yurttas, A., Togan, M., Cangul, I. N., Zagreb indices and multiplicative Zagreb indices of subdivision graphs of double graphs**, Advanced Studies in Contemporary Mathematics, 26 (3) (2016), 407-416 (*F-2015/17, F-2015/23 and F-2016/9*)
- 144) **Hosamani, S. M., Lokesha, V., Cangul, I. N., Devendraiah, K. M., On Certain Topological Indices of the Derived Graphs of Subdivision Graphs**, Turkic World of Mathematical Sciences, Journal of Applied Engineering Mathematics, 6 (2) (2016), 324-332

2017

- 145) **Das, Kinkar Ch., Maden, A. D., Cangul, I. N., Cevik, A. S., On Average Eccentricity of Graphs**, Proceedings of the National Academy of Sciences, India Section A : Physical Sciences, 87 (1) (2017), 23-30 DOI: 10.1007/s40010-016-0315-8 (*F-2016/9, F-2015/23 and F-2015/17*)
- 146) **Lokesha, V., Deepika, T., Ranjini, P. S., Cangul, I. N., Operations of Nanostructures via SDD, ABC_4 and GA_5 Indices**, Applied Mathematics and Nonlinear Sciences, 2 (1) (2017), 173-180 DOI: 10.21042/AMNS.2017.1.00014

(http://journals.up4sciences.org/applied_mathematics_and_nonlinear_science_s/article/operations_of_nanostructures_via_sdd_abc_4_and_ga_5_indices.html)

- 147) Celik, F., Cangul, I. N., **Formulae and Recurrence Relations on Spectral Polynomials of Some graphs**, Advanced Studies in Contemporary Mathematics 27 (3) (2017), 325-332, DOI: 10.17777/ascm2017.27.3.325 (F-2015/17 and F-2015/23)
- 148) Reddy, P. S. K., Prakasha, K. N., Cangul, I. N., **Partition Laplacian Energy of a Graph**, Advanced Studies in Contemporary Mathematics 27 (4) (2017), 477-494 (F-2015/17)
- 149) Lokesha, V., Deepika, T., Cangul, I. N., **Symmetric Division Deg and Inverse Sum Indeg Indices of Polycyclic Aromatic Hydrocarbons (PAHs) and Polyhex Nanotubes**, Southeast Asian Bulletin of Mathematics 41 (2017), 707-715 (F-2013/23, F-2015/17 and F-2015/23)
- 150) Cangul, I. N., Yurttas, A., Togan, M., Cevik, A. S., **New Formulae for Zagreb Indices**, The Proceedings of AIP 1863, 300013 (2017); doi: 10.1063/1.4992462 (F-2015/17, F-2015/23)
- 151) Soydan, G., Demirci, M., Cangul, I. N., Togbe, A., **On the Conjecture of Jesmanowicz**, International Journal of Applied Mathematics and Statistics, 56 (6) (2017), 46-72, ISSN 0973-1377 (Print), ISSN 0973-7545 (Online) (F-2015/23, F-2016/9, F-2015/18)
- 152) Sanli, U., Cangul, I. N., **A New Method for Calculating the Chromatic Polynomial**, Applied Sciences (APPS), 19 (2017), 110-121 (F-2015/17)
- 153) Togan, M., Yurttas, A., Cangul, I. N., **Zagreb and multiplicative Zagreb indices of r-subdivision graphs of double graphs**, Scientia Magna, 12 (1) (2017), 115-119.
- 154) Prakasha, K. N., Reddy, P. S. K., Cangul, I. N., **Minimum Covering Randic Energy of a Graph**, Kyungpook Mathematical Journal, 57 (2017), 701-709 (F-2015/17, 2015/23 and 2016/9)
- 155) Prakasha, K. N., Reddy, P. S. K., Cangul, I. N., **Symmetric Division Deg Energy of a Graph**, Turkish Journal of Analysis and Number Theory, 5 (6), 202-209 (2017) DOI:10.12691/tjant-5-6-2
- 156) Lokesha, V., Deepika, T., Cangul, I. N., **Computing the M-polynomials for 2D-Lattice, Nanotube and Nanotorus by operating the semi-total line and**

2018

- 157) Gutman, I., Togan, M., Yurttas, A., Cevik, A. S., Cangul, I. N., Inverse problem for sigma index, **MATCH Commun. Math. Comput. Chem.**, 79 (2), (2018), 491-508
- 158) Delen, S., Cangul, I. N., A New Graph Invariant, **Turkish Journal of Analysis and Number Theory**, 6 (1), (2018), 30-33 DOI: 10.12691/tjant-6-1-4
- 159) Ozden, H., Cangul, I. N., Some Quotients of the Modular Group, **Palestinian Journal of Mathematics**, 7 (2) (2018), 521-526
- 160) Lokesha, V., Manjunath, M., Chaluvaraju, B., Devendraiah, K. M., Cangul, I. N., Cevik, A. S., Computation of adriatic indices of certain operators of regular and complete bipartite graphs, **Advanced Studies in Contemporary Mathematics**, 28 (2) (2018), 231-244
- 161) Ascioglu, M., Cangul, I. N., Narumi–Katayama index of the subdivision graphs, **Journal of Taibah University for Science**, 12 (4) (2018), 401-408, DOI:10.1080/16583655.2018.1474542,
<https://tandfonline.com/doi/pdf/10.1080/16583655.2018.1474542?needAccess=true>
- 162) Alwardi, A., Alqesmah, A., Rangarajan, R., Cangul, I. N., Entire Zagreb indices of graphs, **Discrete Mathematics, Algorithms and Applications**, 10(3) (2018), 1850037 (16 pages) DOI: 10.1142/S1793830918500374
- 163) Yurttas, A., Togan, M., Cangul, I. N., Relations between the first and second Zagreb indices of subdivision graphs, **Advanced Studies and Contemporary Mathematics**, 28 (3) (2018), 337-346
- 164) Yurttas, A., Togan, M., Cangul, I. N., Zagreb Indices of Graphs with Added Edges, **Proceedings of the Jangjeon Mathematical Society**, 21 (3) (2018), 385-392

- 165) Ascioglu, M., Cangul, I. N., Sigma Index and Forgotten Index of the Subdivision and r-Subdivision Graphs, Proceedings of the Jangjeon Mathematical Society, 21 (3) (2018), 375-383
- 166) Gutman, I., Ascioglu, M., Cangul, I. N., Multiplicative Geometric-Arithmetic Index, International Journal of Applied Graph Theory, 2 (2) (2018), 16-28
- 167) Yamac, C., Oz, M. S., Cangul, I. N., Edge Adjacency in Graphs, Proceedings of the Jangjeon Mathematical Society, 21 (3) (2018), 357-373
- 168) Celik, F., Cangul, I. N., Some Recurrence Relations for the Energy of Cycle and Path Graphs, Proceedings of the Jangjeon Mathematical Society, 21 (3) (2018), 347-355
- 169) Delen, S., Togan, M., Yurttas, A., Cangul, I. N., New Results on Edge and Vertex Deletion in Graphs, MICOPAM Proceedings Book (2018), 175-179
- 170) Yurttas, A., Togan, M., Delen, S., Cangul, I. N., Omega Invariant and Its Applications in Graph Theory, MICOPAM Proceedings Book, (2018)
- 171) Mishra, V. N., Delen, S., Cangul, I. N., Algebraic Structure of Graph Operations in Terms of Degree Sequences, International Journal of Analysis and Applications, 16 (6) (2018), 809-821, DOI: 10.28924/2291-8639-16-2018-809
- 172) Sridhara, G., Kanna, M. R. R., Jagadeesh, R., Cangul, I. N., Improved McClelland and Koolen-Moulton Bounds for the Energy of Graphs, Scientia Magna, 13 (1) (2018), 48-62
- 173) Sarkar, P., De, N., Cangul, I. N., Pal, A., Generalized Zagreb Index of Some Dendrimer Structures, Universal Journal of Mathematics and Applications, 1 (3) (2018), 160-165, DOI: <http://dx.doi.org/10.32323/ujma.425103>, ISSN 2619-9653

2019

- 174) Delen, S., Cangul, I. N., Extremal Problems on Components and Loops in Graphs, Acta Mathematica Sinica, English Series, 35 (2) (2019), 161-171, <https://doi.org/10.1007/s10114-018-8086-6>, WOS:000458139300011 (<https://link.springer.com/content/pdf/10.1007%2Fs10114-018-8086-6.pdf>)

- 175) Yurttas, A., Togan, M., Lokesha, V., Cangul, I. N., Gutman, I., Inverse problem for Zagreb indices, *Journal of Mathematical Chemistry*, 57 (2019) 609-615, <https://doi.org/10.1007/s10910-018-0970-x>
- 176) Mishra, V. N., Delen, S., Cangul, I. N., Degree Sequences of Join and Corona Products of Graphs, *EJMAA-Electronic Journal of Analysis and Applications*, 7 (1) (2019), 5-13
- 177) Togan, M., Yurttas, A., Cevik, A. S., Cangul, I. N., Effect of Edge Deletion and Addition on Zagreb Indices of Graphs. In: Taş, K., Baleanu, D., Machado, J. (eds), *Mathematical Methods in Engineering, Theoretical Aspects, Nonlinear Systems and Complexity*, 23 (2019), 191-201, Springer, Cham (F-2015/17)
- 178) Akgunes, N., Cevik, A. S., Cangul, I. N., A note on the upper bound of average distance via irregularity index. In: Taş, K., Baleanu, D., Machado, J. (eds), *Mathematical Methods in Engineering, Theoretical Aspects, Nonlinear Systems and Complexity*, 23 (2019), 267-272, Springer, Cham (F2015/17)
- 179) Sarkar, P., De, N., Cangul, I. N., Pal, A., The (a,b)-Zagreb index of some derived networks, *Journal of Taibah University for Science*, 13 (1) (2019), 79-86, DOI: [10.1080/16583655.2018.1535881](https://doi.org/10.1080/16583655.2018.1535881) (<https://tandfonline.com/doi/pdf/10.1080/16583655.2018.1535881?needAccess=true>)
- 180) Oz, M. S., Yamac, C., Cangul, I. N., Sum-edge characteristic polynomials of graphs, *Journal of Taibah University for Science*, 13 (1) (2019), 193-200 (<https://tandfonline.com/doi/pdf/10.1080/16583655.2018.1555989?needAccess=true>)
- 181) Hosamani, S. M., Lokesha, V., Devendraiah, K. M., Farahani, M. R., Cangul, I. N., On the Sanskruti index of certain line graphs of subdivision graphs, *Advances in Mathematical Sciences and Applications*, 28 (1) (2019), 115-121
- 182) Prakasha, K. N., Reddy, P. S. K., Cangul, I. N., Sum-connectivity energy of graphs, *Advances in Mathematical Sciences and Applications*, 28 (1) (2019), 85-98
- 183) Togan, M., Yurttas, A., Cevik, A. S., Cangul, I. N., Zagreb Indices and Multiplicative Zagreb Indices of Double Graphs of Subdivision Graphs,

Turkic World of Mathematical Society, Journal of Applied and Engineering Mathematics, 9 (2) (2019), 404-412 (F-2015/17)

- 184) Delen, S., Yurttas, A., Togan, M., Cangul, I. N., Omega Invariant of Graphs and Cyclicness, *Applied Sciences*, 21 (2019), 91-95
- 185) Celik, F., Cangul, I. N., **On the Spectra of Cycles and Paths**, *Turkic World of Mathematical Society Journal of Applied and Engineering Mathematics*, 9 (3) (2019), 571-580
- 186) Veena, M., Padmapriya, P., Cangul, I. N., Some topological indices of certain classes of cycloalkanes, *Proceedings of the Jangjeon Mathematical Society*, 22 (2) (2019), 233-247
- 187) Togan, M., Yurttas, A., Cangul, I. N., Inverse problem for the first entire Zagreb index, *Advanced Studies in Contemporary Mathematics*, 29 (2) (2019), 161-169
- 188) Basol, K., Tal, O. F., Cangul, I. N., Elliptic Trigonometry, *Proceedings of the Jangjeon Mathematical Society*, 22 (4) (2019), 631-648.
- 189) Oz, M. S., Cangul, I. N., Matching Number in Relation with Maximal-Minimal Nullity Conditions and Cyclomatic Number by Coefficient Relations, *Advanced Studies in Contemporary Mathematics*, 29 (4) (2019), 461-475.
- 190) Cangul, I. N., Yurttas Gunes, A., Togan, M., Delen, S., Connectedness of Graphs and Omega Invariant, *Proceedings Book of MICOPAM-2019*, (2019), 59-62, ISBN: 978-2-491766-00-9.
- 191) Rajan, M. A., Das, K. C., Lokesha, V., Cangul, I. N., On some properties of coprime labelled graphs, *Turkish Journal of Analysis and Number Theory*, 7 (3) (2019), 77-84, DOI: 10.12691/tjant-7-3-4.
- 192) Xu, J., Siddiqui, M. K., Farahani, M. R., Cangul, I. N., Computing Zagreb indices and Zagreb polynomials of Fullerene, Butterfly and Benes networks, Special Issue on Computations in Applied Mathematics and Graph Theory, *International Journal of Applied Mathematics*, 32 (6), (2019), 907-924, DOI: <http://dx.doi.org/10.12732/ijam.v32i6.1>.
- 193) Yurttas Gunes, A., Togan, M., Celik, F., Cangul, I. N., Cut Vertex and Cut Edge Problem for the Topological Indices of Graphs, *Journal of Taibah University for Science*, 13 (1) (2019), 1175-1183
<https://doi.org/10.1080/16583655.2019.1695520>

(<https://tandfonline.com/doi/pdf/10.1080/16583655.2019.1695520?needAccess=true>)

- 194) Ahmad, S., Siddiqui, H. M. A., Ali, M. A., Farahani, M. R., Imran, M., Cangul, I. N., On Wiener Index and Wiener Polarity Index of Some Polyomino Chains, *Journal of Discrete Mathematical Sciences & Cryptography*, 22 (7) (2019), 1151-1164, DOI: 10.1080/09720529.2019.1688965,
(<https://www.tandfonline.com/doi/pdf/10.1080/09720529.2019.1688965?needAccess=true>)

2020

- 195) Basavanagoud, B., Desai, V. R., Cangul, I. N., Four new tensor products of graphs and their Zagreb indices and coindices, *Electronic Journal of Mathematical Analysis and Applications*, 8(1) (2020), 209-219.
- 196) Yamac, C., Oz, M. S., Cangul, I. N., Edge-Zagreb Indices of Graphs, *Turkic World of Mathematical Society Journal of Applied and Engineering Mathematics*, 10 (1) (2020), 1-10
- 197) Ramane, H. S., Talwar, S. Y., Cangul, I. N., Status Sum Eigenvalues and Energy of Graphs, *Advanced Studies in Contemporary Mathematics*, 30 (1) (2020), 29-47, DOI: 10.17777/ascm2020.30.1.29
- 198) Oz, M. S., Cangul, I. N., Bounds for Matching Number of Fundamental Realizations According to Graph Invariant Omega, *Proceedings of the Jangjeon Mathematical Society*, 23 (1) (2020), 23-37, DOI: 10.17777/pjms2020.23.1.23
- 199) Alqesmah, A., Alwardi, A., Cangul, I. N., On the Entire ABC Index of graphs, *Proceedings of the Jangjeon Mathematical Society*, 23 (1) (2020), 39-51, DOI: 10.17777/pjms2020.23.1.39
- 200) Ozden, H., Ersoy Zihni, F., Ozen Erdogan, F., Cangul, I. N., Srivastava, G., Srivastava, H. M., Independence Number of Graphs and Line Graphs of Trees by Means of Omega Invariant, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, (2020), 114:91, DOI : 10.1007/s13398-020-00821-7

- 201) Chaluvaraju, B., Boregowda, H. S., Cangul, I. N., Some Inequalities for the First General Zagreb Index of Graphs and Line Graphs, Proceedings of the National Academy of Sciences, India Section A : Physical Sciences, (2020), 10 pages, DOI : 10.1007/s40010-020-00679-9
- 202) Kanna, M. R. R., Kumar, P. P., Nandappa, S. D., Cangul, I. N., Some Properties of q-Distance Energy, Advanced Studies in Contemporary Mathematics, 30 (2) (2020), 171-185
- 203) Lokesha, V., Jain, S., Cevik, A. S., Cangul, I. N., New results on the F-index of graphs based on corona-type products of graphs, Proceedings of the Jangjeon Mathematical Society, 23 (2) (2020), 141-147, DOI: 10.17777/pjms2020.23.2.141
- 204) Lokesha, V., Jain, S., Manjunath, M., Cevik, A. S., Cangul, I. N., Bounds for the Sum of Cubes of Vertex Degrees of Splice Graphs, Turkic World of Mathematical Society Journal of Applied and Engineering Mathematics, 10 (3) (2020), 741-750
- 205) Sardar, M. S., Xu, S.-A., Sajjad, W., Zafar, S., Cangul, I. N., Farahani, M. R., An Explicit Formula for the Harmonic Indices and Harmonic Polynomials of Carbon nanocones CN_Ck[n], Journal of Information and Optimization Sciences, 41 (4) (2020), 879-890, DOI: 10.1080/02522667.2020.1753304.
- 206) Demirci, M., Ozbek, A., Akbayrak, O., Cangul, I. N., Lucas Graphs, Journal of Applied Mathematics and Computation, (2020), DOI: 10.1007/s12190-020-01382-z.
- 207) Oz, M. S., Cangul, I. N., Algebraic Method for Characteristic Edge-Zagreb and Laplacian Polynomials of Graphs, Advanced Studies in Contemporary Mathematics, 30 (3) (2020), 289-296.
- 208) Ascioglu, M., Demirci, M., Cangul, I. N., Omega Invariant of Union, Join and Corona Product of Two Graphs, Advanced Studies in Contemporary Mathematics, 30 (3) (2020), 297-306.
- 209) Basavanagoud, B., Barangi, A. P., Cangul, I. N., Hub number of some wheel related graphs, Advanced Studies in Contemporary Mathematics, 30 (3) (2020), 325-334.
- 210) Yurttas Gunes, A., Demirci, M., Oz, M. S., Cangul, I. N., Matching Number and Characteristic Polynomial of a Graph, Journal of Taibah University for

Science, **14** **(1)** **(2020),** **993-999**

<https://doi.org/10.1080/16583655.2020.1796275> .

- 211) **Kanna, M. R. R., Kumar, R. P., Nandappa, S., Cangul, I. N.,** On q-distance energy of a graph, **Applied Mathematics and Nonlinear Sciences,** 5 (2) (2020), 85-98.
- 212) **Yurttas Gunes, A., Delen, S., Demirci, M., Cevik, A. S., Cangul, I. N.,** Fibonacci Graphs, **Symmetry,** 12, 1383, (2020), doi:10.3390/sym12091383
- 213) Togan, M., Yurttas Gunes, A., Delen, S., Cangul, I. N., Omega Invariant of the Line Graphs of Unicyclic Graphs, **Montes Taurus Journal of Pure and Applied Mathematics,** 2 (2) (2020), 45-48.
- 214) **Kuppan, R., Shobana, L., Cangul, I. N.,** Encrypting and decrypting algorithms using strong face graph of a tree, **International Journal of Computer Mathematics: Computer Systems Theory,** 5 (4) (2020), 225-233, <https://doi.org/10.1080/23799927.2020.1807606>
- 215) **Basavanagoud, B., Jakkannavar, P., Cangul, I. N.,** Integrity of Quasi-Total Graphs, **Proceedings of Jangjeon Mathematical Society,** 23 (4) (2020), 525-539, <http://dx.doi.org/10.17777/pjms2020.23.4.525>
- 216) **Rao, S., Amudha, B., Cangul, I. N.,** Hosoya Polynomial and Wiener Index of Concatenated Octachains, **Advanced Studies in Contemporary Mathematics,** 30 (4) (2020), 609-622, <http://dx.doi.org/10.17777/ascm2020.30.4.609>
- 217) **Shobana, L., Babujee, J. B., Cangul, I. N.,** A New Cryptographic Method by Means of Molecular Graphs, **Proceedings of the Jangjeon Mathematical Society,** 23 (4) (2020), 503-507, <http://dx.doi.org/10.17777/pjms2020.23.4.503>
- 218) **Chandrakala, S. B., Sooryanarayana, B., Manjula, K., Cangul, I. N.,** Wiener polynomials and Wiener indices of the transformation graphs, **Advanced Studies in Contemporary Mathematics,** 30 (4) (2020), 479-494, <http://dx.doi.org/10.17777/ascm2020.30.4.479>
- 219) **Jahanbani, A., Cangul, I. N.,** Minimum pendant dominating Estrada index of a graph, **Advanced Studies in Contemporary Mathematics,** 30 (4) (2020), 517-528, <http://dx.doi.org/10.17777/ascm2020.30.4.517>
- 220) **Delen, S., Cangul, I. N.,** Effect of edge and vertex addition on Albertson and Bell indices, **AIMS Mathematics,** 6 (1) (2020), 925–937, DOI:10.3934/math.2021055

- 221) Reddy, P. S. K., Prakasha, K. N., Cangul, I. N., Randic Type Hadi Index of Graphs, *Transactions of National Academy of Sciences of Azerbaijan. Series of Physical - Technical and Mathematical Sciences, Issue Mathematics* 40 (4), 175-181 (2020)
- 222) Togan, M., Yurttas, A., Sanli, U., Celik, F., Cangul, I. N., Inverse problem for Bell Index, *FILOMAT*, 34 (2), 615-621 (2020),
<https://doi.org/10.2298/FIL2002615T>
- 223) Sanli, U., Celik, F., Delen, S., Cangul, I. N., Connectedness Criteria for Graphs by Means of Omega Invariant, *FILOMAT*, 34 (2), 647-652 (2020),
<https://doi.org/10.2298/FIL2002647S>
- 224) Demirci, M., Cangul, I. N., Tribonacci Graphs, *The ITM Web of Conferences*, 34, 01002 (2020), Third ICAMNM 2020,
<https://doi.org/10.1051/itmconf/20203401002>
- 225) Yurttas Gunes, A., Togan, M., Demirci, M., Cangul, I. N., Certain Topological Indices of Some Derived Graphs, *Turkish Journal of Analysis and Number Theory*, 8 (4), 75-79 (2020)
- 226) Delen, S., Togan, M., Yurttas, A., Ana, U., Cangul, I. N., The Effect of Edge and Vertex Deletion on Omega Invariant, *Applicable Analysis and Discrete Mathematics*, 14 (3) (2020), 685-696,
<https://doi.org/10.2298/AADM190219046D>
- 227) Yurttas Gunes, A., Togan, M., Demirci, M., Cangul, I. N., Harmonic Index and Zagreb Indices of Vertex-Semitotal Graphs, *European Journal of Pure and Applied Mathematics*, 13 (5) (2020), 1260-1269,
<https://doi.org/10.29020/nybg.ejpm.v13i5.3725>
- 228) Aydin, B., Akgunes, N., Cangul, I. N., On the Wiener index of the dot product graph over monogenic semigroups, *European Journal of Pure and Applied Mathematics*, 13 (5) (2020), 1231-1240,
<https://doi.org/10.29020/nybg.ejpm.v13i5.3745>
- 229) Ramane, H. S., Talwar, S. Y., Cangul, I. N., Transmission and Reciprocal Transmission Based on Topological Co-Indices of Graphs, *European Journal of Pure and Applied Mathematics*, 13 (5) (2020), 1057-1071,
<https://doi.org/10.29020/nybg.ejpm.v13i5.3724>

3) Accepted Papers

- 230) **Buyukkose, S., Cangul, I. N., Some Notes on Randic Index, Boletim da Sociedade Paranaense de Matemática (2020)**
- 231) **Celik, F., Sanli, U., Cangul, I. N., The Spectral Polynomials of Two Joining Graphs: Splices and Links, Boletim da Sociedade Paranaense de Matemática**
- 232) **Celik, F., Demirci, M., Delen, S., Ana, U., Cangul, I.N., Characteristic Polynomials of Subdivision Graphs, Advanced Studies in Contemporary Mathematics, (2020)**
- 233) **Yurttas Gunes, A., Togan, M., Demirci, M., Cangul, I. N., Inverse problem for Albertson Irregularity Index, Turkic World of Mathematical Society Journal of Applied and Engineering Mathematics, (2021)**
- 234) **Alqesmah, A., Alwardi, A., Rangarajan, R., Yurttas, A., Cangul, I. N., Distance Eccentric connectivity index of graphs, Kyungpook Mathematical Journal, (2020)**
- 235) **Mahde, S. S., Mathad, V., Cangul, I. N., Accessibility Integrity of Graphs, Advanced Studies in Contemporary Mathematics, (2021)**
- 236) **Oz, M. S., Cangul, I. N., A new method for the sum-edge characteristic polynomials of graphs, Boletim da Sociedade Paranaense de Matemática (2021)**
- 237) **Prakasha, K. N., Reddy, P. S. K., Cangul, I. N., Inverse sum indeg Energy of a graph, Proceedings of Jangjeon Mathematical Society, (2021)**
- 238) **Rao, K. S., Prakasha, K. N., Saravanan, K., Cangul, I. N., Maximum degree energy, Advanced Studies in Contemporary Mathematics, (2021)**
- 239) **Kaliraj, K., Manjula, M., Vivin, J. V., Cangul, I. N., On Harmonious Coloring of Lexicographic Product of Graphs, Advanced Studies in Contemporary Mathematics**
- 240) **Rajendra, R., Reddy, P. S. K., Cangul, I. N., Stress Indices of Graphs, Advanced Studies in Contemporary Mathematics, (2021)**
- 241) **Majhi, B. K., Mahalank, P., Cangul, O., Cangul, I. N., Topological Indices of Pentagonal Chains**

- 242) Mahalank, P., Cangul, I. N., Harmonic index of graphs with added edges
- 243) Oz, M. S., Cangul, I. N., Recurrence Relations of Edge-Zagreb and Sum-Edge Characteristic Polynomials of Some Graphs, AISC Springer Proceedings of the International Conference on Advances in Mathematics and Computing (ICAMC-2020)
- 244) Demirci, M., Ana, U., Cangul, I. N., Properties of Characteristic Polynomials of Oriented Graphs, AISC Springer Proceedings of the International Conference on Advances in Mathematics and Computing (ICAMC-2020)
- 245) Sanli, U., Paikray, S. K., Cangul, I. N., New Results on Chromatic Polynomials, AISC Springer Proceedings of the International Conference on Advances in Mathematics and Computing (ICAMC-2020)

4) Recently Submitted Papers

- 246) Oz, M. S., Yamac, C., Cangul, I. N., Laplacian Characteristic Polynomials of Graphs
- 247) Gok, G. K., Buyukkose, S., Cangul, I. N., Some Notes on the Distance Weighted Adjacency Matrices
- 248) Chaluvaraju, B., Boregowda, H. S., Cangul, I. N., Generalized Harary Index of Certain Classes of Graphs
- 249) Pawar, S., Naji, A. M., Soner, N, Cangul, I. N., On Leap Eccentric Connectivity Index of Graphs,
- 250) Prakasha, K. N., Reddy, P. S. K., Cangul, . N., Atom Bond-Connectivity Index of Certain Graphs,
- 251) Mahalank, P., Demirci, M., Cangul, I. N., Third Zagreb Index of Graphs with Added Edges
- 252) Saleh, A., Cangul, I. N., On the entire Randic index of graphs,
- 253) Togan, M., Yurttas Gunes, A., Demirci, M., Cangul, I. N., Some Degree Based Topological Indices of Triphenylene Polyester
- 254) Narayananamoorthy Samayan, Annapoorani Veerappan, Ismail Naci Cangul, Samayan Kalaiselvan, Joseph Varghese Kureethara, Dumitru Baleanu, Daekook Kang, A novel assessment for increase of groundwater level in semi-

arid areas using ranking techniques to decision makers- hesitant fuzzy environment

- 255) Mahalank, P., Demirci, M., Cangul, I. N., First General Zagreb Index of Power Four of Graphs
- 256) Demirci, M., Yurttas Gunes, A., Togan, M., Cangul, I. N., Topological Indices of triphenylene based discotic liquid crystals
- 257) Nandini, G., Venkatachalam, M., Deepa, T., Cangul, I. N., On r-dynamic colorings of the friendship graph families
- 258) Majhi, B. K., Mahalank, P., Cangul, I. N., Some Topological Indices of Pentagonal Double Chains
- 259) Ulagammal, S., Vivin, J. V., Cangul, I. N., On Star Coloring of Degree Splitting of Cartesian Product Graphs
- 260) Terai, N., Soydan, G., Cangul, I. N., On the exponential Diophantine equation $(m^2+n^2)^x+(2mn)^y=(m+n)^z$
- 261) Oz, M. S.; Cangul, I. N., New Upper and Lower Bounds of Nullity of Graphs
- 262) Oz, M. S., Cangul, I. N., New Algorithms for Calculating Hosoya Index of Graphs
- 263) Demirci, M., Yurttas Gunes, A., Delen, S., Cangul, I. N., The Effect Of Omega Invariant On Some Topological Graph Indices
- 264) Kaspar, A. J., Sheena Christy, D. K., Thomas, D. G., Cangul, I. N., Star coloring of edge corona product of two graphs
- 265) Shanmukha, M. C., Usha, A., Basavarajappa, N. S., Shilpa, K. P., Cangul, I. N., Degree-Based Topological Indices of Porous Graphene
- 266) Togan, M., Yurttas Gunes, A., Demirci, M., Cangul, I. N., Degree Based Topological Indices of Polysiloxanes
- 267) Roopa, B., Shobana, L., Cangul, I. N., Face Magic Labeling of Double Duplication of Graphs
- 268) Das, K. C., Cevik, A. S., Cangul, I. N., On Sombor index
- 269) Amutha, S., Prabha, K. S., Anbazhagan, N., Gomathi, S. S., Cangul, I. N., On alpha-split domination in graphs
- 270) Amutha, S., Prabha, K. S., Anbazhagan, N., Jeganath, K., Cangul, I. N., Neighborhood outer connected domination in graphs
- 271) Mahalank, P., Cangul, I. N., Forgotten Index of Graphs with Deleted Edges

- 272) Demirci, M., Akbayrak, O., Ozbek, A., Cangul, I. N., Relations Between Parameters of the Normal Subgroups of Hecke Groups
- 273) Chandrakala, S. B., Sooryanarayana, B., Roshini, G. R., Cangul, I. N., Non-Neighbor Reduced Zagreb Indices, Their Multiplicative Versions and Applications
- 274) Demirci, M., Delen, S., Cevik, A. S., Cangul, I. N., On Average Degree of Graphs
- 275) Demirci, M., Delen, S., Cevik, A. S., Cangul, I. N., Omega Invariant of Line and Total Graphs

5) In Preparation

- 276) Ana, U., Cangul, I. N., Wiener index of subdivision graphs
- 277) Ana, U., Cangul, I. N., Incidence polynomials of the oriented graphs
- 278) Mahalank, P., Demirci, M., Cangul, I. N., First General Zagreb Index of Graphs with Added Edges
- 279) Demirci, M., Ozon Yildirim, S., Cangul, I. N., Some recurrence relations on tribonacci numbers
- 280) Mahalank, P., Cangul, I. N., Reduced Zagreb indices of graphs with added edges
- 281) Khalaf, S. I., Mathad, V., Mahde, S. S., Cangul, I. N., The Pivot Number of a Graph
- 282) Kureethara, J. V., Cangul, I. N., Nordhaus-Gaddum Type Inequalities on Irregularity Indices
- 283) Saleh, A., Shalini, S. G. B., Dhananjayamurthy, B. V., Cangul, I. N., On reduced neighborhood Zagreb indices
- 284) Saleh, A., Shalini, S. G. B., Dhananjayamurthy, B. V., Cangul, I. N., The reduced neighborhood Zagreb indices of some graph operations
- 285) Saleh, A., Shalini, S. G. B., Dhananjayamurthy, B. V., Cangul, I. N., The forgotten reduced neighborhood topological index

- 286) Akgunes, N., Cangul, I. N., Co-double graphs
- 287) Rao, S., Saravanan, K., Prakasha, K. N., Cangul, I. N., Maximum and Minimum Degree Energies of Splitting and Shadow Graphs
- 288) Lokesha, V., Manjunath, M., Deepika, T., Cevik, A. S., Cangul, I. N., Adriatic Indices of Some Derived Graphs of Triglyceride,
- 289) Asok, A., Kureethara, J. V., Cangul, I. N., Inverse Problem for the Forgotten and the Hyper Zagreb Indices of Trees
- 290) Dhanalakshmi, A., Rao, Konda S., Cangul, I. N., Graph Energy of n-Coronene
- 291) Ersoy Zihni, F., Ozen Erdogan, F., Ozden Ayna, H., Delen, S., Cangul, I. N., Effect of vertex and edge deletion on independence number,
- 292) Agustin, Ika Hesti, Utoyo, I., Dafik, D., Mohanapriya, N., Venkatachalam, M., Cangul, I. N., On Vertex Irregular Reflexive Labeling of Cycle and Friendship Graphs,
- 293) Demirci, M., Ana, U., Cangul, I. N., Characteristic Polynomials of Oriented Graphs
- 294) Nacaroglu, Y., Akgunes, N., Cangul, I. N., Some Graph Parameters of Power Set Graphs,
- 295) Mondal, S., De, N., Pal, A., Cangul, I. N., The Narumi-Katayama index of subdivision-vertex and subdivision-edge join of graphs
- 296) Alqesmah, A., Anwar, S., Alashwali, H., Cangul, I. N., Entire Wiener Index of Graphs
- 297) Hosamani, S. M., Shirakol, S. S., Kalyanshetti, M. V., Cangul, I. N., New Eccentricity Based Topological Indices of Total Transformation Graphs
- 298) Kureethara, J. V., Majhi, B. K., Mahalank, P., Cangul, I. N., Nordhaus-Gaddum Type Relations for Some Topological Indices
- 299) Shanmukha, M. C., Usha, A., Basavarajappa, N. S., Shilpa, K. J., Cangul, I. N., Topological indices of top ranked inhibitors of SARS COV-2
- 300) Reddy, P. S. K., Prakasha, K. N., Cangul, I. N., Randic Type Hadi Energy of a Graph
- 301) Prakasha, K. N., Reddy, P. S. K., Cangul, I. N., Atom Bond-Connectivity Energy of a Graph,
- 302) Prabha, K. S., Amutha, S., Anbazhagan, N., Cangul, I. N., Bounds on Co-independent Liar's Domination in Graphs

- 303) Rao, K. S., Prakasha, K. N., Sridevi, M. J., Saravanan, L. K., Cangul, I. N.,
On Maximum Degree Laplacian Energy
- 304) Majhi, B. K., Cangul, O., Cangul, I. N., Topological indices of multiple
pentagonal chains
- 305) Ramane, H. S., Talwar, S. Y., Cangul, I. N., Transmission and Reciprocal
Transmission Topological Indices and Co-Indices of Indu-Bala Graph,
- 306) Sarkar, P., De, N., Pal, A., Cangul, I. N., Generalized Zagreb indices for some
silicate networks
- 307) Rao, S., Saravanan, K., Cangul, I. N., Maximum Degree Estrada Index
- 308) Mahalank, P., Prakasha, K. N., Cangul, I. N., Sum Indeg Energy of Graphs,
- 309) Mahalank, P., Majhi, B. K., Cangul, I. N., Several Zagreb Indices of Square
Snake Graphs