

# Cotirla Luminita-Ioana

## List of scientific articles

1. List of the 10 papers considered by the candidate to be the most relevant for his own professional achievements

1. **Cotirla, L.I.** and Szasz, R. , The Monotony of the Lommel Functions, **Results in Mathematics, (ISI-Q1)**, Volume 78, Issue 4, 2023, DOI 10.1007/s00025-023-01888-5;
2. Orhan, H; Caglar, M and **Cotirla, L.I.**, Third Hankel Determinant for a Subfamily of Holomorphic Functions Related with Lemniscate of Bernoulli, **Mathematics, (ISI-Q1)**, Volume 11, Issue 5, 2023, DOI 10.3390/math11051147;
3. Yildiz, C. and **Cotirla, L.I.** , Examining the Hermite-Hadamard Inequalities for k-Fractional Operators Using the Green Function, **Fractal and Fractional, (ISI-Q1)**, Volume 7, Issue 2, 2023, DOI 10.3390/fractalfract7020161;
4. **Cotirla, L.I.** and Murugusundaramoorthy, G, Starlike Functions Based on Ruscheweyh q-Differential Operator defined in Janowski Domain, **Fractal and Fractional, (ISI-Q1)**, Volume 7, Issue 2, 2023, DOI 10.3390/fractalfract7020148;
5. Breaz, D ; **Cotirla, L.I.**, The study of coefficient estimates and Fekete-Szego inequalities for the new classes of m-fold symmetric bi-univalent functions defined using an operator, **Journal of Inequalities and Applications, (ISI-Q1)**, Volume 23, Issue 1, 2023, DOI 10.1186/s13660-023-02920-6;

6. Cotirla, L.I. and Szasz, R., On Sendov's Conjecture, **Filomat, (ISI-Q2)**, Volume 37, Issue 16, 2023, DOI 10.2298/FIL2316283C;
7. Cetinkaya, A and Cotirla, L.I., Briot-Bouquet Differential Subordinations for Analytic Functions Involving the Struve Function, **Fractal and Fractional, (ISI-Q1)**, Volume 6, Issue 10, 2022, DOI 10.3390/fractalfract6100540
8. Wanas, AK and Cotirla, L.I., New Applications of Gegenbauer Polynomials on a New Family of Bi-Bazilevic Functions Governed by the  $q$ -Srivastava-Attiya Operator, **Mathematics, (ISI-Q1)**, Volume 10, Issue 8, 2022, DOI 10.3390/math10081309;
9. Murugusundaramoorthy, G and Cotirla, L.I., Bi-univalent functions of complex order defined by Hohlov operator associated with Legendre polynomial, **Aims Mathematics, (ISI-Q1)**, Volume 7, Issue 5, 2022, DOI 10.3934/math.2022488;
10. Cotirla, L.I., New classes of analytic and bi-univalent functions, **Aims Mathematics, (ISI-Q1)**, Volume 6, Issue 10, 2021, DOI 10.3934/math.2021618.

2. **Doctoral Thesis:** Special Classes of Univalent Functions, Scientific Coordinator Prof. Univ. Dr. Grigore-Stefan Salagean, Public presentation 1 October 2010;

3. **Books:**

- Culegere de probleme de algebra liniara si geometrie analitica , UTPRESS, 2013;
- New classes of functions defined by operators, Lambert Academic Publishing, 2016;
- Co-Author in:
- Teste grila de Matematica pentru Admiterea la Universitatea Tehnica din Cluj-Napoca, UTPRESS 2012-2023;

4. **Another papers and scientific contributions:**

Articles/studies in extenso, published in journals from the main international scientific flow

Articles indexed in ISI journals and volumes of ISI Claritive indexed scientific events visible in the database

#### WEB OF SCIENCE(ISI)-44

1. **Cotirla, LI** and Szasz, R, The Monotony of the Lommel Functions, **Results Mathematics**, 78(4), 2023.
2. Breaz D., Alahmari A.A. **Cotirla L.I.**, Shah S.A., On Generalizations of the Close-To-Convex Functions Associated with  $q$ -Srivastava–Attiya Operator, **Mathematics(Q1)**, 11(9),2023;
3. Breaz, D ; Yildiz, C ; **Cotirla, LI** ; Rahman, G ; Yergoz, B , New Hadamard Type Inequalities for Modified  $h$ -Convex Functions, **Fractal and Fractional**, 7(3), 2023;
4. Orhan, H; Caglar, M and **Cotirla, LI**, Third Hankel Determinant for a Subfamily of Holomorphic Functions Related with Lemniscate of Bernoulli, **Mathematics**, 11(5), 2023;
5. Azzam, AF; Shah, SA; Catas, A; **Cotirla, LI** , On Fuzzy Spiral-like Functions Associated with the Family of Linear Operators, **Fractal and Fractional**, 7(2), 2023;
6. Breaz, D ; Orhan, H ; **Cotirla, LI** ; Arikan, H . A New Subclass of Bi-Univalent Functions Defined by a Certain Integral Operator, **Axioms**, 12(2), 2023.
7. **Cotirla, LI** and Juma, ARS, Properties of Differential Subordination and Superordination for Multivalent Functions Associated with the Convolution Operators, **Axioms**, 12(2), 2023.
8. **Cotirla, LI** and Murugusundaramoorthy, G, Starlike Functions Based on Ruscheweyh  $q$ -Differential Operator defined in Janowski Domain, **Fractal and Fractional**, 7(2), 2023

9. **Cotirla, LI** and Wanas, AK, Applications of Laguerre Polynomials for Bazilevic and theta-Pseudo-Starlike Bi-Univalent Functions Associated with Sakaguchi-Type Functions, **Symmetry Basel**, 15(2), 2023.
10. El-Deeb, SM and **Cotirla, LI**, Basic Properties for Certain Subclasses of Meromorphic p-Valent Functions with Connected q-Analogue of Linear Differential Operator, **Symmetry-Basel**, 12(2), 2023;
11. Wanas, AK ; Sakar, FM ; Oros, GI; **Cotirla, LI** , Toeplitz Determinants for a Certain Family of Analytic Functions Endowed with Borel Distribution, **Symmetry-Basel**, 15(2), 2023
12. Yildiz, C and **Cotirla, LI**, Examining the Hermite-Hadamard Inequalities for k-Fractional Operators Using the Green Function, **Fractal and Fractional**, 7(2), 2023.
13. Breaz, D and **Cotirla, LI**, The study of coefficient estimates and Fekete-Szego inequalities for the new classes of m-fold symmetric bi-univalent functions defined using an operator, **Journal of Inequalities and Applications**, 2023(1), 2023.
14. **Cotirla, LI** and Szasz, R, On Sendov's conjecture, **Filomat**, 37(16), 2023.
15. Breaz, D; Murugusundaramoorthy, G and **Cotirla, LI**, Geometric Properties for a New Class of Analytic Functions Defined by a Certain Operator, **Symmetry-Basel**, 14(12), 2022.
16. Deniz, E; Ozkan, Y and **Cotirla, LI**, Subclasses of Uniformly Convex Functions with Negative Coefficients Based on Deniz-ozkan Differential Operator, **Axioms**, 11(12), 2022.
17. Buyankara, M; Caglar, M and **Cotirla, LI**, New Subclasses of Bi-Univalent Functions with Respect to the Symmetric Points Defined by Bernoulli Polynomials, **Axioms**, 11(11), 2022.
18. **Cotirla, LI** and Wanas, AK, Coefficient-Related Studies and Fekete-Szego Type Inequalities for New Classes of Bi-Starlike and Bi-Convex Functions, **Symmetry-Basel**, 14(11), 2022.
19. Shah, SA ; **Cotirla, LI** ; Catas, A; Dubau, C; Cheregi, G, A Study of Spiral-Like Harmonic Functions Associated with Quantum Calculus, **Journal of Functions Spaces**, 2022, DOI 10.1155/2022/5495011
20. Cetinkaya, A and **Cotirla, LI**, Briot-Bouquet Differential Subordinations for Analytic Functions Involving the Struve Function, **Fractal and Fractional**, 6(10), 2022.

21. Orhan, H and **Cotirla, LI**, Fekete-Szego Inequalities for Some Certain Subclass of Analytic Functions Defined with Ruscheweyh Derivative Operator, **Axioms** 11(10), 2022.
22. Swamy, SR and **Cotirla, LI**, On  $-tau$ -Pseudo- $\nu$ -Convex  $\kappa$ -Fold Symmetric Bi-Univalent Function Family, **Symmetry-Basel**, 14(10), 2022.
23. Khan, A ; Haq, M; **Cotirla, LI** ; Oros, GI, Bernardi Integral Operator and Its Application to the Fourth Hankel Determinant, **Journal of Function Spaces**, 2022, DOI 10.1155/2022/4227493.
24. Breaz, D ; **Cotirla, LI**; Umadevi, E; Karthikeyan, KR , Properties of Meromorphic Spiral-Like Functions Associated with Symmetric Functions, **Journal of Function Spaces**, 2022, DOI 10.1155/2022/3444854.
25. Caglar, M; **Cotirla, LI** and Buyankara, M, Fekete-Szego Inequalities for a New Subclass of Bi-Univalent Functions Associated with Gegenbauer Polynomials, **Symmetry-Basel**, 14(8), 2022.
26. **Cotirla, LI**; Kupan, PA and Szasz, R, New Results about Radius of Convexity and Uniform Convexity of Bessel Functions, **Axioms**, 11(8), 2022.
27. **Cotirla, LI** and Karthikeyan, KR, Classes of Multivalent Spirallike Functions Associated with Symmetric Regions, **Symmetry-Basel**, 14(8), 2022.
28. Totoi, EA and **Cotirla, LI**, Preserving Classes of Meromorphic Functions through Integral Operators, **Symmetry-Basel**, 14(8), 2022.
29. **Cotirla, LI** and Wanas, AK, Symmetric Toeplitz Matrices for a New Family of Prestarlike Functions, **Symmetry-Basel**, 14(7), 2022.
30. Murugusundaramoorthy, G and **Cotirla, LI**, Holder Inequalities for a Generalized Subclass of Univalent Functions Involving Borel Distributions, **Mathematics**, 10(14), 2022.
31. Raza, M ; Malik, SN ; Xin, Q ; Din, MU ; **Cotirla, LI**, On Kudriasov Conditions for Univalence of Integral Operators Defined by Generalized Bessel Functions, **Mathematics**, 10(9), 2022.
32. Cetinkaya, A and **Cotirla, LI**, Quasi-Hadamard Product and Partial Sums for Sakaguchi-Type Function Classes Involving  $q$ -Difference Operator, **Symmetry-Basel**, 14(4), 2022.
33. Wanas, AK and **Cotirla, LI**, New Applications of Gegenbauer Polynomials on a New Family of Bi-Bazilevic Functions Governed by the  $q$ -Srivastava-Attiya Operator, **Mathematics**, 10(8), 2022.

34. Akgul, A and **Cotirla, LI**, Coefficient Estimates for a Family of Starlike Functions Endowed with Quasi Subordination on Conic Domain, **Symmetry-Basel**, 14(3), 2022.
35. Ahmad, B; Khan, MG and **Cotirla, LI**, Applications of Borel-Type Distributions Series to a Class of Janowski-Type Analytic Functions, **Symmetry**, 14(2), 2022.
36. Breaz, D; Catas, A and **Cotirla, LI**, On the Upper Bound of the Third Hankel Determinant for Certain Class of Analytic Functions Related with Exponential Function, **Analele Stiintifice ale Universitatii Ovidius, Constanta**, 30(1), 2022.
37. Wanas, AK and **Cotirla, LI**, Applications of (M, N)-Lucas Polynomials on a Certain Family of Bi-Univalent Functions, **Mathematics**, 10(4), 2022.
38. Breaz, D and **Cotirla, LI**, The Study of the New Classes of m-Fold Symmetric bi-Univalent Functions, **Mathematics**, 10(1), 2022.
39. Murugusundaramoorthy, G and **Cotirla, LI**, Bi-univalent functions of complex order defined by Hohlov operator associated with legendrae polynomial, **Aims-Mathematics**, 7(5), 2022.
40. Oros, GI and **Cotirla, LI**, Coefficient Estimates and the Fekete-Szego Problem for New Classes of m-Fold Symmetric Bi-Univalent Functions, **Mathematics**, 10(1), 2022.
41. Wanas, AK and **Cotirla, LI**, Initial Coefficient Estimates and Fekete-Szego Inequalities for New Families of Bi-Univalent Functions Governed by (p - q)-Wanas Operator, **Symmetry-Basel**, 13(11), 2021.
42. **Cotirla, LI**, New classes of analytic and bi-univalent functions, **Aims-Mathematics**, 6(10), 2021.
43. **Cotirla, LI** and Catas, A, Differential sandwich theorem for certain class of analytic functions associated with an integral operator, **Studia Universitatis Babes-Bolyai Mathematica**, 65(4), 2020.
44. **Cotirla, LI**, Differential subordinations and superordinations for analytic functions defined by an integral operator, **Carpathian Journal of Mathematics**, 25(1), 2009.

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<https://www.scopus.com/authid/detail.uri?authorId=36165163700>;

#### **Papers (ISI) recent accepted to publication-5:**

1. Frasin B.A., **Cotirla L.I.**, Partial Sums of the Normalized Le Roy-Type Mittag-Leffler Function, **Axioms(Q2)**, 12, 441, 2023;
2. Sheza M. El-Deeb, **Cotirla L.I.**, Coefficient Bounds for Symmetric Subclasses of q-Convolution-Related Analytical Functions, **Symmetry(Q2)**, 2023.
3. Wanas A.K., **Cotirla L.I.**, New Family of Bi-Univalent Functions with Respect to Symmetric Conjugate Points Associated with Borel Distribution, **Acta Universitatis Sapientiae**, 2023.
4. Kazımoğlu S., Deniz E., **Cotirla L.I.**, Certain subclasses of analytic and bi-univalent functions governed by the Gegenbauer polynomials linked with q-derivative, **Symmetry-Basel(Q2)**, 26 may 2023.
5. S. Kazımoğlu, E. Deniz, **L.I. Cotirla**, Geometric Properties of Generalized Integral Operators Related to the Miller-Ross Function, **Axioms**, 1 iunie, 2023.

#### **JOURNAL ARTICLES AND VOLUMES OF SCIENTIFIC EVENTS INDEXED IN OTHER INTERNATIONAL DATABASES-20**

1. **Cotirla, LI**, Harmonic multivalent functions defined by integral operator, "**Studia Universitatis Babeş-Bolyai**"– **Mathematica**, Cluj-Napoca, Nr. 1/2009, pag. 65-74;
2. **Cotirla, LI**, Harmonic univalent functions defined by an integral operator, "**Acta Universitatis Apulensis** ", Nr.17/2009, pag. 95-104;
3. **Cotirla, LI**, A differential sandwich theorem for analytic functions defined by the integral operator, "**Studia Universitatis Babeş-Bolyai** "- **Mathematica**, Cluj-Napoca, Nr.2/2009, pag. 13-22;
4. **Cotirla, LI**, Some properties of a new class of certain analytic functions of complex order, "**Studia Universitatis Babes - Bolyai** „– **Mathematica** – Cluj-Napoca , Nr. 3/2010, pag. 115-122;

5. Cotirla, LI, On a generalization class of bounded starlike functions of complex order, "Analele Universitatii de Vest" – Timisoara, Vol. XLVIII, Fasc.3/2010, pag.39-46;

6. Cotirla, LI, Generalized almost starlikeness associated with extension operators for biholomorphic mappings, "Mathematica" - Cluj-Napoca, nr. 53 (76), No. 2 (December 2011, pag.115-120);

7. Cotirla, LI, Harmonic multivalent functions defined by an integral operator, "Acta Universitatis Apulensis" , Nr. 21/2010, pag 55-63;

8. Cotirla, LI, Properties of analytic functions defined by an integral operator "Demonstratio Mathematica"(ISI) – Polonia, Nr. 4/2010, pag. 799-803;

9. Cotirla, LI, Loewner chains and generalized almost starlike mappings, "Mathematica" - Cluj-Napoca, 2012;

10. Juma A.R., Cotirla, LI, On harmonic univalent function defined by generalized Sălăgean derivatives, "Acta Universitatis Apulensis" , nr. 23/2010, pag. 179-188;

11. Juma, Cotirla, LI, On a subclass of analytic functions defined by Ruscheweyh operator, "Creative Mathematics and Informatics", nr.1/2012, pag.49-56.

12. Cotirla L.I., Salagean G.St., Sufficient conditions for starlikeness of some integral operators, "Automation, Computers, Applied Mathematics", Cluj-Napoca, Vol.21, nr. 1, 2012, pag.45-53 ;

13. Cotirla, LI, On harmonic uniformly starlike functions defined by an integral Operator, "International J. of Math. Sci. & Engg. Appls." (IJMSEA), Vol. 7 No. II (March, 2013), pp. 157-167;

14. Cotirla, LI, A New Class of Harmonic Univalent Functions Defined by an Integral Operator, **Global Journal of Science Frontier Research Mathematics and Decision Sciences**, Volume 12, Issue 10 Version 1.0 ,Year 2012 ;

15. Cotirla L.I, Properties of analytic functions defined by an integral operator, **Automat. Comput. Appl. Math.** 25 (1), 21-29, 2016;

16. Salagean, G.St., Cotirla L.I., NEW CLASSES OF HARMONIC UNIVALENT FUNCTIONS, **Acta Universitatis Apulensis**, 56/2018, pp. 101-110;

17. Cotirla L.I., Catas A., A new class of harmonic univalent functions defined by an operator, **Libertas Mathematica (new series)** ,39 (1), 51-62, 2019;



18. **Cotirla L.I., Catas A., A DIFFERENTIAL SANDWICH THEOREM FOR ANALYTIC FUNCTIONS DEFINED BY AN INTEGRAL OPERATOR, Acta Universitatis Apulensis, 62/2020, pp.19-28;**

19. **Pall-Szabo A.O., Cotirla L.I., On a class of functions associated with Salagean integral operator, Acta Universitatis Apulensis, 16/2020, pp.81-90;**

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27.05.2023

