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Gradul didactic: Lector.dr.
Instituția unde este titular: **Universitatea din Oradea**
Facultatea: **Informatică și Științe**
Departamentul: **Matematică**

LISTA DE LUCRĂRI

A. Teza de doctorat

Clase speciale de operatori Picard și aplicații, Univ. Babeș-Bolyai Cluj-Napoca, Facultatea de Matematică și Informatică, 2009.

B. Cărți si capitole în cărți publicate

a. Cărți științifice de specialitate în domeniul disciplinelor postului

1. **Loredana-Florentina Galea**, *Clase speciale de operatori Picard și aplicații*, Casa Cărții de Știință, Cluj-Napoca, ISBN 978-973-133-540-7, (2009), 170 pg. (acreditată CNCIS, cod 24)
2. **Loredana Galea**, capitolul *Application of the Picard Operators to Second Order ODE's* în cartea ***Trends in Evolution Equations Research***, Editor Gaston M. N' Guerekata, Nova Science Pub Inc; illustrated edition edition (1 May 2008); ISBN-978-1604562705;
3. **Loredana Galea**, capitolul *Application of the Picard Operators to Second Order ODE's* în cartea ***Research on Evolution Equation Compendium***, Editor Gaston M. N' Guerekata, Nova Science Publishers Inc (1 Dec 2009), ISBN-13: 978-1604567526.

b. Cărți cu caracter didactic de specialitate în domeniul disciplinelor postului

1. **Loredana-Florentina Galea**, Adriana Cătaș, *Ecuatii diferențiale și cu derivate parțiale prin exerciții și probleme*, Ed. Univ. din Oradea, 2005. (264 pag.), ISBN 973-613-770-8
2. Garofița Pavel, **Loredana-Florentina Galea**, Adriana Cătaș, *Elemente de calcul integral*, Ed. Univ. din Oradea, 2005.(288 pag.), ISBN 973-613-809-7
3. Garofița Pavel, Adriana Cătaș, **Loredana-Florentina Galea**, *Elemente de calcul diferențial*, Ed. Univ. din Oradea, 2005.(201 pag.), ISBN 973-613-771-6
4. Ioan Dzitac, Simona Dzitac, **Loredana Galea**, Horea Oros (eds.), *Abstracts of ICCCC Papers: ICCCC 2008*, Editura Universității Agora, ISSN 1844 – 4334, (2008), 88 pg.
5. **Loredana-Florentina Iambor**, *Didactica Matematicii*, Material elaborat în cadrul Proiectului cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013, cu titlul proiectului: "Calitate, inovare, comunicare în sistemul de formare continuă a didacticienilor din învățământul superior", Cod Contract: POSDRU/87/1.3/S/63709, (format electronic)

C. Lista celor maximum 10 lucrări considerate a fi cele mai relevante pentru realizările profesionale proprii:

1. **Loredana Florentina Galea**, *Good and special WPO properties for the Stancu operators*, **Fixed Point Theory**, Cluj Napoca, Vol.8, Nr.2, 2007, pp. 253-261
<https://www.math.ubbcluj.ro/~nodeacj/index.htm>
2. Alexandru-Mihai Bica, **Loredana-Florentina Galea**, *Smooth dependence by lag at initial value problems for delay integro-differential equations*, **Carpathian J. Math**, Vol.26, No.1, 2010, pp.41-51
<https://www.carpathian.cunbm.utcluj.ro/article/smooth-dependence-by-lag-at-initial-value-problems-for-delay-integro-differential-equation/>
3. Sorin Mureșan, **Loredana-Florentina Iambor**, Omar Bazighifan, *New Applications of Perov's Fixed Point Theorem*, **Mathematics** **2022**, 10(23), 4597,
<https://doi.org/10.3390/math10234597>
4. Munirah Aldiaiji, Belgees Qaraad, **Loredana Florentina Iambor**, Elmetwally M. Elabbasy, *New Oscillation Theorems for Second-Order Superlinear Neutral Differential Equations with Variable Damping Terms*, **Symmetry** **2023**, 15(9), 1630
<https://doi.org/10.3390/sym15091630>
5. Jinxing Liu, Muhammad Nadeem, **Loredana Florentina Iambor**, *Application of Yang homotopy perturbation transform approach for solving multi-dimensional diffusion problems with time-fractional derivatives*, **Scientific Reports** volume 13, Article number: 21855, **2023**
<https://doi.org/10.1038/s41598-023-49029-w>
6. Omar Bazighifan, Anwar Al-Batati, Nawa Alshammari, **Loredana Florentina Iambor**, *New Oscillation Conditions Test for Neutral Differential Equations*, **Contemporary Mathematics**, Volume 5, Issue 4|**2024**| 5027
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7. Mouataz Billah Mesmouli, Elvan Akın, **Loredana Florentina Iambor**, Osman Tunç, Taher S. Hassan, *On the Fixed Point Theorem for Large Contraction Mappings with Applications to Delay Fractional Differential Equations*, **Fractal Fract.** **2024**, 8(12), 703
<https://doi.org/10.3390/fractalfract8120703>
8. Muhammad Nadeem, **Loredana Florentina Iambor**, *Advanced Numerical Scheme for Solving Nonlinear Fractional Kuramoto–Sivashinsky Equations Using Caputo Operators*, **Fractal Fract.** **2025**, 9(7), 418
<https://doi.org/10.3390/fractalfract9070418>
9. Fahd Masood, Alanoud Almutairi, **Loredana Florentina Iambor**, Khalil S. Al-Ghafri, Omar Bazighifan, *Novel oscillation criteria for general third-order nonlinear neutral differential equations*, **AIMS Mathematics**, 10(12): 29607-29626, **2025**
[10.3934/math.20251301](https://doi.org/10.3934/math.20251301)
10. Mouataz Billah Mesmouli, **Loredana Florentina Iambor**, Taher S. Hassan, *Fixed-Point Results in Metric Spaces for Large Triangle–Perimeter Contractions*, **Mathematics** **2026**, 14(3), 457
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D. Lucrări indexate ISI/ ISI Proceedings/BDI

i. Articole publicate în reviste indexate ISI cu maximul factorilor SRI din ultimele 5 liste ISI Thomson disponibile mai mare sau egal cu 0.5

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2. Mouataz Billah Mesmouli, Doha A. Abulhamil, **Loredana Florentina Iambor**, Taher S. Hassan, *Fixed Point Results for Large Contraction Mappings in b -Metric Spaces with Applications to Fractional Differential Equations*, **Mathematics** **2026**, 14(11), 1991;
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3. Muhammad Nadeem, Mustafa Habib, Shazia Karim, Rifat Ansar, **Loredana Florentina Iambor**, Asma Abbas Hassan Elnour, and Wedad M. Alawad, *Optimal Control Analysis of a Fractional-Order Model for Online Gaming Addiction*, **Fractals**, Volume 34, Issue 2, id. 2540259, **2026**
<https://doi.org/10.1142/S0218348X25402595>
4. Muhammad Nadeem, Kalim U. Tariq, Rabia Khan, **Loredana Florentina Iambor**, Mohamed Hussien, Mansour F. Yassen, *Solitary Wave Structures for time Fractional Stochastic Poisson-Nernst-Planck Model in Electrobiochemical System*, **Fractals**, Volume 34, Issue 2, id. 2540261-24, **2026**
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9. Taher S. Hassan, Ali Rezaigui, **Loredana Florentina Iambor**, Ismoil Odinaev, *Filippov-type existence theorems for q -fractional differential inclusions with nonlinear q -integral conditions in Banach spaces*, **AIMS Mathematics**, **2026**, Volume 11, Issue 2: 4539-4556.
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10. Mouataz Billah Mesmouli, Houssein Eddine Khochemane, **Loredana Florentina Iambor**, Taher S. Hassan, *Dynamic Behavior and Exponential Stability of the Modified Moore–Gibson–Thompson Thermoelastic Model with Frictional Damping*, **Mathematics** **2026**, 14(1), 117.
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11. Mouataz Billah Mesmouli, **Iambor Loredana Florentina**, Youssef Raffoul, Taher S. Hassan, *Positive Solutions of Hybrid Nonlinear Integro-Fractional Differential Equations via Dhage's Fixed Point Theorem*, **Contemporary Mathematics**, Volume 6|2025| 7778
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13. Mouataz Billah Mesmouli, **Loredana Florentina Iambor**, Osman Tunç, Taher S. Hassan, *Existence Theory for a Class of Nonlinear Langevin Fractional (p,q) -Difference Equations in Banach Space*, **Mathematics** **2025**, 13(24), 3934;
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14. Fahd Masood, Alanoud Almutairi, **Loredana Florentina Iambor**, Khalil S. Al-Ghafri, Omar Bazighifan, *Novel oscillation criteria for general third-order nonlinear neutral differential equations*, **AIMS Mathematics**, 10(12): 29607-29626, 2025
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15. Fahd Masood, Mohammed N. Alshehri, **Iambor Loredana Florentina**, A. F. Aljohani, Omar Bazighifan, *Nonlinear oscillation analysis of delay differential equations with mixed neutral terms*, **AIMS Mathematics**, 10(10): 24580–24601, 2025
[10.3934/math.20251090](https://doi.org/10.3934/math.20251090)
16. Taher S. Hassan, **Iambor Loredana Florentina**, M. B. Mesmoulib, E. I. Hassan, Khaled Aldwoahg, Akbar Alib, *Enhanced Oscillation Criteria of Solutions for Half-Linear Dynamic Equations on Arbitrary Time Scales*, **Mathematics** **2025**, 13(17), 2743
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17. Muhammad Nadeem, **Loredana Florentina Iambor**, *Advanced Numerical Scheme for Solving Nonlinear Fractional Kuramoto–Sivashinsky Equations Using Caputo Operators*, **Fractal Fract.** **2025**, 9(7), 418
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18. Muhammad Nadeem, Bitao Cheng, **Loredana Florentina Iambor**, *Numerical Investigation of the Time-Fractional Black–Scholes Problem Using the Caputo Fractional Derivative in the Financial Industry*, **Fractal Fract.** **2025**, 9(8), 490;
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19. Muhammad Nadeem, Mustafa Habib, Aman Waris, **Loredana Florentina Iambor**, PA Azeem Hafiz, Sharifah E Alhazmi, *Fractional optimal control for the analytical treatment of malaria model*, **Fractals**, Vol. 33, No.08, 2540177 (2025)
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20. Muhammad Nadeem, **Loredana Florentina Iambor**, Ebraheem Alzahrani, Azeem Hafiz P. Ajmal, *Computational Study of Time-Fractional Kawahara and Modified Kawahara Equations with Caputo Derivatives Using Natural Homotopy Transform Method*, **Fractal Fract.** **2025**, 9(4), 247
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21. Muhammad Nadeem, Omar Abu Arqub, **Loredana Florentina Iambor**, Mohamed Hussien, Ebraheem Alzahrani, *The prospective analysis of three-dimensional time-fractional Helmholtz model using a new iterative method*, **Fractals**, Vol. 33, No. 04, 2540069, **2025**
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22. K. Ramamoorthya, S. K. Thamilvanana, **Loredana Florentina Iambor**, Khalil S. Al-Ghafric, Omar Bazighifan, *Oscillation of 3rd order non-canonical delay differential equations of limited neutral coefficient*, **J. Math. Computer Sci.**, 37(2025), 395-405
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23. Manickam Subbarayan Jayalakshmia, Sivaraj Kanniyammal Thamilvanana, **Loredana Florentina Iambor**, Omar Bazighifan, *New oscillation criteria of fourth-order neutral noncanonical differential equations*, **J. Math. Computer Sci.**, 37(2025), 319-329
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24. Omar Bazighifan, Nawa Alshammari, Faten Aldosari, **Loredana Florentina Iambor**, *Oscillation Solutions for Nonlinear Second-Order Neutral Differential Equations*, **Mathematics** **2025**, 13(2), 247
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25. Omar Bazighifan, Anwar Al-Batati, Khalil S Al-Ghafri, **Loredana Florentina Iambor**, *Even-Order Delay Differential Equations with p-Laplacian Like Operator: New Oscillation Criteria*, **Contemporary Mathematics**, Volume 5, Issue 4, 6252-6261, **2024**
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26. Mouataz Billah Mesmouli, Elvan Akın, **Loredana Florentina Iambor**, Osman Tunç, Taher S. Hassan, *On the Fixed-Point Theorem for Large Contraction Mappings with Applications to Delay Fractional Differential Equations*, **Fractal Fract.** **2024**, 8(12), 703
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27. Taher S. Hassan, Mnaouer Kachout, Bassant M. El-Matary, **Loredana Florentina Iambor**, Ismoil Odinaev, Akbar Ali, *Improved Hille-Type and Ohriska-Type Criteria for Half-Linear Third-Order Dynamic Equations*, **Mathematics** **2024**, 12(23), 3740
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28. Omar Bazighifan, Nawa Alshammari, Khalil S. Al-Ghafri, **Loredana Florentina Iambor**, *Advanced Differential Equations with Canonical Operators: New Criteria for the Oscillation*, **Fractal Fract.** **2024**, 8(11), 670;
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29. Omar Bazighifan, Anwar Al-Batati, Nawa Alshammari, **Loredana Florentina Iambor**, *New Oscillation Conditions Test for Neutral Differential Equations*, **Contemporary Mathematics**, Volume 5, Issue 4|2024| 5027
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30. Omar Bazighifan, Nawa Alshammari, Khalil S. Al-Ghafri, **Loredana Florentina Iambor**, *Differential Equations of Fourth-Order with p-Laplacian-Like Operator: Oscillation Theorems*, **Mathematics** **2024**, 12(22), 3558
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31. Taher S. Hassan, **Loredana Florentina Iambor**, Sorin Mureşan, Khalid Alenzi, Ismoil Odinaev, Khudhayr A. Rashedi, *Criteria of Oscillation for Second-Order Mixed Nonlinearities in Dynamic Equations*, **Symmetry** **2024**, 16(9), 1156;
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32. Jinxing Liu, Muhammad Nadeem, Ali Hasan Ali, Fawziah M. Alotaibi, **Loredana Florentina Iambor**, *Analytical investigation of two-dimensional fuzzy fractional heat problem using a modified approach*, **Alexandria Engineering Journal**, Vol.108, 158-168, 2024
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33. Muhammad Nadeem, **Loredana Florentina Iambor**, *Prospective Analysis of Time-Fractional Emden–Fowler Model Using Elzaki Transform Homotopy Perturbation Method*, **Fractal Fract.** **2024**, 8(6), 363;
<https://doi.org/10.3390/fractalfract8060363>
34. Muhammad Nadeem, **Loredana Florentina Iambor**, *Numerical Study of Time-Fractional Schrödinger Model in One-Dimensional Space Arising in Mathematical Physics*, **Fractal Fract.** **2024**, 8(5), 277;
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35. Taher S. Hassan, Clemente Cesarano, **Loredana Florentina Iambor**, Amir Abdel Menaem, Naveed Iqbal, Akbar Ali, *New Oscillation Criteria for Sturm–Liouville Dynamic Equations with Deviating Arguments*, **Mathematics** **2024**, 12(10), 1532;
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36. Mouataz Billah Mesmouli, **Loredana Florentina Iambor**, Amir Abdel Menaem, Taher S. Hassan, *Existence Results and Finite-Time Stability of a Fractional (p,q)-Integro-Difference System*, **Mathematics** **2024**, 12(9), 1399;
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37. Asma Al-Jaser, Clemente Cesarano, Belgees Qaraad, **Loredana Florentina Iambor**, *Second-Order Damped Differential Equations with Superlinear Neutral Term: New Criteria for Oscillation*, **Axioms** **2024**, 13(4), 234;
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38. Munirah Aldiaiji, Belgees Qaraad, **Loredana Florentina Iambor**, Safi S. Rabie, Elmetwally M. Elabbasy, *Oscillation of Third-Order Differential Equations with Advanced Arguments*, **Mathematics** **2023**, 12(1), 93;
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39. Jinxing Liu, Muhammad Nadeem, **Loredana Florentina Iambor**, *Application of Yang homotopy perturbation transform approach for solving multi-dimensional diffusion problems with time-fractional derivatives*, **Scientific Reports** volume 13, Article number: 21855 (2023),
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40. Jinxing Liu, Muhammad Nadeem, Asad Islam, Sorin Mureşan, **Loredana Florentina Iambor**, *A Modified Residual Power Series Method for the Approximate Solution of Two-Dimensional Fractional Helmholtz Equations*, **Symmetry** **2023**, 15(12), 2152;
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41. Taher S. Hassan, Martin Bohner, **Loredana Florentina Iambor**, Amir Abdel Menaem, Mouataz Billah Mesmouli, *New Criteria of Oscillation for Linear Sturm–Liouville Delay Noncanonical Dynamic Equations*, **Mathematics** **2023**, 11(23), 4850;
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42. Munirah Aldiaiji, Belgees Qaraad, **Loredana Florentina Iambor**, Elmetwally M. Elabbasy, *New Oscillation Theorems for Second-Order Superlinear Neutral Differential Equations with Variable Damping Terms*, **Symmetry** **2023**, 15(9), 1630;
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43. Muhammad Nadeem, Jamshad Ahmad, Fatima Nusrat, **Loredana Florentina Iambor**, *Fuzzy solutions of some variants of the fractional order Korteweg-de-Vries equations via an analytical method*, **Alexandria Engineering Journal**, Vol. 80, 1 October 2023, Pages 8-21;
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44. Muhammad Nadeem, **Loredana Florentina Iambor**, *Approximate Solution to Fractional Order Models Using a New Fractional Analytical Scheme*, **Fractal Fract.** **2023**, 7(7), 530;
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45. Asghar Ali, Sara Javed, Muhammad Nadeem, **Loredana Florentina Iambor**, Sorin Mureşan, *A Soliton Solution for the Kadomtsev–Petviashvili Model Using Two Novel Schemes*, **Symmetry** **2023**, 15(7), 1364
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46. Muhammad Nadeem, Asad Islam, Shazia Karim, Sorin Mureşan, **Loredana Florentina Iambor**, *Numerical Analysis of Time-Fractional Porous Media and Heat Transfer Equations Using a Semi-Analytical Approach*, **Symmetry** **2023**, 15(7), 1374;
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47. Jiahua Fang, Muhammad Nadeem, Asad Islam, **Loredana Florentina Iambor**, *Modified residual power series approach for the computational results of Newell-Whitehead-Segel model with fractal derivatives*, **Alexandria Engineering Journal**, Volume 77, 15 August 2023, 503-512;
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48. Asma Al-Jaser, Belgees Qaraad, Omar Bazighifan, **Loredana Florentina Iambor**, *Second-Order Neutral Differential Equations with Distributed Deviating Arguments: Oscillatory Behavior*, **Mathematics** **2023**, 11(12), 2605;
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49. Munirah Aldiaiji, Belgees Qaraad, **Loredana Florentina Iambor**, Elmetwally M. Elabbasy, *On the Asymptotic Behavior of Class of Third-Order Neutral Differential Equations with Symmetrical and Advanced Argument*, **Symmetry** **2023**, 15(6), 1165;
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50. Alina Alb Lupaş, Shujaat Ali Shah, **Loredana Florentina Iambor**, *Fuzzy differential subordination and superordination results for q -analogue of multiplier transformation*, **AIMS Mathematics**, **2023**, Volume 8, Issue 7: 15569-15584;
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51. Alanoud Almutairi, Ali Hasan Ali, Omar Bazighifan, **Loredana Florentina Iambor**, *Oscillatory Properties of Fourth-Order Advanced Differential Equations*, **Mathematics** **2023**, 11(6), 1391;
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52. Khalil S. Al-Ghafri, Awad T. Alabdala, Saleh S. Redhwan, Omar Bazighifan, Ali Hasan Ali, **Loredana Florentina Iambor**, *Symmetrical Solutions for Non-Local Fractional Integro-Differential Equations via Caputo–Katugampola Derivatives*, **Symmetry** **2023**, 15(3), 662
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53. Sathish Kumar Marappan, Alanoud Almutairi, **Loredana-Florentina Iambor**, Omar Bazighifan, *Oscillation of Emden-Fowler-Type Differential Equations with Noncanonical Operator and Mixed Neutral Terms*, **Symmetry** **2023**, 15(2), 553;
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54. Sorin Mureşan, **Loredana-Florentina Iambor**, Omar Bazighifan, *New Applications of Perov’s Fixed Point Theorem*, **Mathematics** **2022**, 10(23), 4597,
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55. Adriana Cătaş, Emilia Borşa, **Loredana-Florentina Iambor**, *Best dominants and subordinants for certain sandwich-type theorems*, **Symmetry** **2022**, 14(1), 62;
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56. Ralf Fabian, Mișu-Jan Manolescu, **Loredana-Florentina Galea**, Gabriela Bologa, *Bounded Rationality Through the Filter of the Lisbon Objectives*, **Int. J. of Computers, Communications & Control**, ISSN 1841-9836, E-ISSN 1841-9844, Vol. V (2010), No. 5, pp. 710-718
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57. Alexandru-Mihai Bica, **Loredana-Florentina Galea**, *Smooth dependence by lag at initial value problems for delay integro-differential equations*, **Carpathian J. Math**, Vol.26, No.1, 2010, pp.41-51
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59. **Loredana Florentina Galea**, *Good and special WPO properties for the Stancu operators*, **Fixed Point Theory**, Cluj Napoca, Vol.8, Nr.2, 2007, pp. 253-261
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ii. Articole publicate în reviste indexate ISI cu maximul factorilor SRI din ultimele 5 liste ISI Thomson disponibile mai mic ca 0.5

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iii. Articole ISI Proceedings indexate Web of Science – Core Collection

1. Călin Dubău, Adriana Cătaș, **Loredana Iambor**, Emilia Borșa, *Polynomial distribution of the local pressure drop in the case of wind turbine*, 18th edition International Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, Location: Oradea, Romania, April 4-5, 2019, Pages: 161-166, Printed in december 2019 by Editografica • Bologna (Italy), ISBN 978-88-87729-49-8, WOS 617030100027
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iv. Articole publicate în reviste indexate în Web of Science – Core Collection, fără factor de impact

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Data completării:
06.08.2026

Semnătura,
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