CURRICULUM VITAE AND PUBLICATIONS LIST



CURRICULUM VITAE

Name and Surname:	Mustafa BAYRAM
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Foreign Languages Known (Score and Year):	English, C2 Proficiency, 1989
Certificates Received:	EĞİTİM SERTİFİKASI
Area of Expertise:	Engineering and Technology Natural Sciences

Degree	Department/Program	University	Year
Doctorate	Computer Science		1993
Bachelor's Degree	Matematik	Atatürk University	1986

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

COMPUTER ALGEBRA APPROACH TO ENZYME KINETICS

Position Title	Workplace	Year
Professor Dr.	Biruni University	2019-Continues
Professor Dr.	İstanbul Gelişim University	2016-2018
Research Assistant		1988-1993
Research Assistant	Atatürk University	1986-1988

Supervised Doctoral Theses/Proficiency Studies in Arts:

1. Sembolik ve nümerik metotlarla enzim kinetiği problemlerinin incelenmesi (2000)

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Ahmed K. K., Ahmed H. M., Nofal T. A., Sulaiman T. A., Bayram M., "Exploration of fractional soliton structures in high-order nonlinear Schrödinger equation in an inhomogeneous optical fiber", *Modern Physics Letters B*, vol. 39, no. 34, 2025.

A2. Nazneen A., Ali N., Hussain S. M., Ahmad H., Nawaz R., Zada L., Irfan R., Guedri K., Almaliki A. H., Bayram M., "Fractional analysis of Benjamin-Bona-Mahony equation across natural transform iterative method: thermal engineering implementations", *Scientific Reports*, vol. 15, no. 1, 2025.

A3. Farman M., Talib A., Jamil K., Nisar K. S., Sambas A., Bayram M., Hafez M., "Monitoring and investigation to control the brain network disease under immunotherapy by using fractional operator", *Scientific Reports*, vol. 15, no. 1, 2025.

A4. Zada L., Nawaz R., Ahmad H., Makhdoum B. M., Suoliman N. A. A., Almaliki A. H., Bayram M., "Influence of slip velocity and heat generation on magneto-nanofluid flow via divergent and convergent plates using perturbation technique", *Scientific Reports*, vol. 15, no. 1, 2025.

A5. Farman M., Nisar K. S., Sambas A., Bayram M., Hafez M., "Stability and chaos analysis of neurological disorder of complex network with fractional order comparative study", *Scientific Reports*, vol. 15, no. 1, 2025.

A6. Nikhila Sri D., Kottapalli R., Pavani A., Ganteda C., Gouthami E., Abd-elmonem A., Haroun S. A., Hussain S. M., Bayram M., Almaliki A. H., "Comparison between response surface methodology and Taguchi method for dyeing process parameters optimization in fabric manufacturing by empirical planning", *Scientific Reports*, vol. 15, no. 1, 2025.

A7. Ahmad H., Guedri K., Ahmad S., Ali K., Atta G., Hussain S. M., Bayram M., Abd-elmonem A., "Numerical and machine learning based evaluation of ethylene glycol based hybrid nano-structured (TiO2-SWCNTs) fluid flow", *Scientific Reports*, vol. 15, no. 1, 2025.

A8. Madadi M., Inc M., Bayram M., "Nonlinear wave behaviors for a combined Kadomtsev–Petviashvili–Boiti–Leon–Manna–Pempinelli equation in fluid dynamics, plasma physics and nonlinear optics", *Wave Motion*, vol. 139, 2025.

A9. Heydari M., Baleanu D., Bayram M., "Piecewise logarithmic Chebyshev cardinal functions: Application for nonlinear integral equations with a logarithmic singular kernel", *Applied Numerical Mathematics*, vol. 217, pp. 355-371, 2025.

A10. Farman M., Talib A., Nisar K. S., Sambas A., Bayram M., Hafez M., "Investigation of ABPV predict dynamics infection in honeybee colony production: Soft patterns multiscale modeling with fractional approach", *Ain Shams Engineering Journal*, vol. 16, no. 10, 2025.

A11. Arshad M., Shehzad K., Bayram M., Farman M., Sambas A., "Stability, soliton dynamics, and bifurcation analysis of the (3+1)-dimensional Sakovich equation in fluid dynamics", *Modeling Earth Systems and Environment*, vol. 11, no. 5, 2025.

A12. Afiatdoust F., Heydari M., Bayram M., Baleanu D., "A four-block scheme for nonlinear third-kind Volterra integral equations", *Computational and Applied Mathematics*, vol. 44, no. 7, 2025.

A13. Batool F., Raza N., Anwar I., Bayram M., Bekir A., "Soliton dynamics related to the stochastic Gross–Pitaevskii equation in the presence of random fluctuations", *Pramana - Journal of Physics*, vol. 99, no. 3, 2025.

A14. Senfiazad P., Heydari M., Bayram M., Baleanu D., "A numerical method based on the shifted Jacobi polynomials for a class of tempered fractional quadratic integro-differential equations", *Results in Applied Mathematics*, vol. 27, 2025.

A15. Emmanuel S., Sathasivam S., Bayram M., Ogunniran M. O., Artes R. G., "A residual-based adaptive deep learning hybrid block algorithm for partial differential equations with singularities", *Ain Shams Engineering Journal*, vol. 16, no. 8, 2025.

A16. Shafeeque Ali A., Bayram M., Basim M., "Customized filamentation in nonlinear metamaterials", *Chinese Journal of Physics*, vol. 96, pp. 90-97, 2025.

A17. Zayed E. M. E., Hashemi M. S., Saad B. M. M., Murad M. A. S., Arnous A. H., Bayram M., "Analytical solutions of stochastic partial differential equations in nanobioscience: exploring multiplicative noise effects", *European Physical Journal Plus*, vol. 140, no. 7, 2025.

A18. Farman M., Nisar K. S., Jamil K., Akgül A., Sambas A., Bayram M., Habib M., Hassani M. K., "Chaos and proportional integral derivative (PID) control on cancer dynamics with fractal fractional operator", *Results in Engineering*, vol. 26, 2025.

A19. Asadullah M., Javid A., Bekir A., Raza N., Bayram M., "Dynamical analysis, chaos and multistability of the resonant third-order nonlinear Schrödinger equation through phase portraits", *Modern Physics Letters A*, vol. 40, 2025.

A20. Esen H., Seçer A., Ozisik M., Bayram M., "Concatenation model: having the parabolic law in the presence of chromatic and spatio-temporal dispersion and investigation of multiplicative white noise effect via Itô calculus", *European Physical Journal Plus*, vol. 140, no. 4, 2025.

A21. Ozisik M., Altun Durmus S., Seçer A., Bayram M., "Pure-Cubic Optical Soliton Solutions of the Nonlinear Schrödinger Equation Including Parabolic Law Nonlinearity in the Absence of the Group Velocity Dispersion", *International Journal of Theoretical Physics*, vol. 64, no. 4, 2025.

A22. Raza N., Rani B., Wong P. J. Y., Almalki Y., Bayram M., "Uncovering the soliton solutions and interaction aspects of combined CBS-nCBS model utilizing Bäcklund transform", *European Physical Journal Plus*, vol. 140, no. 3, 2025.

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A24. Onder I., Seçer A., Ozisik M., Bayram M., "Retrieval of the optical soliton solutions of the perturbed Schrödinger–Hirota equation with generalized anti-cubic law nonlinearity having the spatio-temporal dispersion", *Mathematical Methods in the Applied Sciences*, vol. 48, no. 2, pp. 2164-2178, 2025.

A25. Hussain S. M., Arshad M., Qureshi M. A., Guedri K., Prasad K. V., Karthik K., Varun Kumar R., Bayram M., "Entropy analysis of Casson ternary hybrid nanofluid using convective cross diffusion model via spinning sphere based artificial neural network", *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*, 2025.

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A27. Hashemi M., Bayram M., "Numerical treatment on fractional differential-algebraic equations by an optimization technique", *International Journal of Computer Mathematics*, 2025.

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A40. Badaoui A., Menni Y., Hanoon F. H., Bayram M., Ikumapayi O. M., "Rh2MnGa full Heusler alloy: Unravelled physical properties and strain-induced magnetic moment using DFT", *International Journal of Modern Physics C*, 2025.

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A47. Hussein H. H., Ahmed H. M., Rabie W. B., Ahmed K. K., Hashemi M. S., Bayram M., "Multiple soliton solutions and other travelling wave solutions to new structured (2+1)-dimensional integro-partial differential equation using efficient technique", *Physica Scripta*, vol. 99, no. 10, 2024.

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A55. Khalifa A. S., Rabie W. B., Badra N. M., Ahmed H. M., Mirzazadeh M., Hashemi M. S., Bayram M., "Discovering novel optical solitons of two CNLSEs with coherent and incoherent nonlinear coupling in birefringent optical fibers", *Optical and Quantum Electronics*, vol. 56, no. 8, 2024.

A56. Ozisik M., Seçer A., Bayram M., "Obtaining analytical solutions of (2+1)-dimensional nonlinear Zoomeron equation by using modified F-expansion and modified generalized Kudryashov methods", *Engineering Computations (Swansea, Wales)*, vol. 41, no. 5, pp. 1105-1120, 2024.

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A59. Onder I., Cinar M., Seçer A., Bayram M., "Analytical solutions of simplified modified Camassa-Holm equation with conformable and M-truncated derivatives: A comparative study", *Journal of Ocean Engineering and Science*, vol. 9, no. 3, pp. 240-250, 2024.

A60. Elsherbeny A. M., Elsonbaty N. M., Badra N. M., Ahmed H. M., Mirzazadeh M., Eslami M., Hashemi M., Bayram M., "Optical solitons of higher order mathematical model with refractive index using Kudryashov method", *Optical and Quantum Electronics*, vol. 56, no. 6, 2024.

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A63. Hussain S., Iqbal M. S., Bayram M., Ashraf R., Inc M., Rezapour S., Tarar M. A., "Optical soliton solutions in a distinctive class of nonlinear Schrödinger's equation with cubic, quintic, septic, and nonic nonlinearities", *Optical and Quantum Electronics*, vol. 56, no. 6, 2024.

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A68. Albayrak P., Ozisik M., Seçer A., Bayram M., Das S. E., "Optical solitons of stochastic perturbed Radhakrishnan–Kundu–Lakshmanan model with Kerr law of self-phase-modulation", *Modern Physics Letters B*, vol. 38, no. 15, 2024.

A69. Cinar M., Seçer A., Sajjad Hashemi M., Ozisik M., Bayram M., "A comprehensive analysis of Fokas–Lenells equation using Lie symmetry method", *Mathematical Methods in the Applied Sciences*, vol. 47, no. 7, pp. 5819-5830, 2024.

A70. Bayram M., "Optical soliton solutions of stochastic the third-order nonlinear Schrödinger equation with multiplicative white noise via Itô calculus", *Optical and Quantum Electronics*, vol. 56, no. 5, 2024.

A71. Durmus S. A., Ozdemir N., Seçer A., Ozisik M., Bayram M., "Bright soliton of the third-order nonlinear Schrödinger equation with power law of self-phase modulation in the absence of chromatic dispersion", *Optical and Quantum Electronics*, vol. 56, no. 5, 2024.

A72. Zayed E. M. E., Alurrfi K. A. E., Arnous A. H., Hashemi M. S., Bayram M., "Effects of high dispersion and generalized non-local laws on optical soliton perturbations in magneto-optic waveguides with sextic-power law refractive index", *Nonlinear Dynamics*, vol. 112, no. 10, pp. 8507-8525, 2024.

A73. Rabie W. B., Ahmed H. M., Hashemi M. S., Mirzazadeh M., Bayram M., "Generating optical solitons in the extended (3 + 1)-dimensional nonlinear Kudryashov's equation using the extended F-expansion method", *Optical and Quantum Electronics*, vol. 56, no. 5, 2024.

A74. Esen H., Seçer A., Hashemi M. S., Ozisik M., Bayram M., "Examining the (1 + 1)-dimensional Schrödinger–Hirota equation with Kerr effect under inter-modal dispersion using the invariance theory", *Optical and Quantum Electronics*, vol. 56, no. 5, 2024.

A75. Sulaiman T. A., Yusuf A., Abdeljabbar A., Bayram M., "New lump interaction complexitons to the (2+1)-dimensional Korteweg-de Vries equation with electrostatic wave potential in plasmas", *Journal of Ocean Engineering and Science*, vol. 9, no. 2, pp. 173-177, 2024.

A76. Esen H., Onder I., Seçer A., Ozisik M., Bayram M., "Soliton solutions of the improved perturbed nonlinear Schrödinger equation having parabolic law with non-local nonlinearity in the presence of chromatic and spatio-temporal dispersion terms", *Physica Scripta*, vol. 99, no. 4, 2024.

A77. Zayed E. M., Arnous A. H., Seçer A., Ozisik M., Bayram M., Shah N. A., Chung J. D., "High dispersion and cubic–quintic–septic–nonic nonlinearity effects on optical solitons in the complex Ginzburg–Landau equation of eighth-order with multiplicative white noise in the Itô sense", *Results in Physics*, vol. 58, 2024.

A78. Esen H., Onder I., Seçer A., Bayram M., "On soliton solutions for higher-order nonlinear Schrödinger equation with cubic-quintic-septic law", *International Journal of Geometric Methods in Modern Physics*, vol. 21, no. 2, 2024.

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A90. Zayed E. M. E., Al-nowehy A., Arnous A. H., Hashemi M. S., Murad M. A. S., Bayram M., "Investigating the generalized Kudryashov's equation in magneto-optic waveguide through the use of a couple integration techniques", *Journal of Optics (India)*, 2024.

A91. Benaissa M., Bouchaour M., Merad L., Maloufi N., Abdelkader H. S., Bayram M., Ghani R. H., Alhassan M. S., Menni Y., "Unveiling ductile, rare-earth-free structural materials: A DFT exploration of MnTi and MnZr", *Modern Physics Letters B*, vol. 39, no. 3, 2024.

A92. Bounoua N., Belhouari M., Menni Y., Alkhafaji M. A., Bayram M., Ikumapayi O. M., Chamkha A. J., "Three-Dimensional Finite Element Analysis of Cement-Cup Junction in Total Hip Prosthesis: Mechanical Stress Distribution, Crack Initiation and Rupture Dynamics", *Nano*, 2024.

A93. Rabie W. B., Ahmed H. M., Mirzazadeh M., Hashemi M. S., Bayram M., "Retrieval solitons and other wave solutions to kudryashov's equation with generalized anti-cubic nonlinearity and local fractional derivative using an efficient technique", *Journal of Optics (India)*, 2024.

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