Mustafa Bayram

List of Publications by Year
in descending order

121 papers	2,063 citations	218677 26 h-index	315739 38 g-index
126 all docs	126 docs citations	126 times ranked	1546 citing authors

#	Article	IF	Citations
1	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, 2024, 9, 173-177.	4.3	0
2	Generalized Gegenbauer–Humbert wavelets for solving fractional partial differential equations. Engineering With Computers, 2023, 39, 1363-1374.	6.1	1
3	Novel soliton solutions of Sasa–Satsuma model with local derivative via an analytical technique. Journal of Laser Applications, 2022, 34, .	1.7	8
4	On the analytical optical soliton solutions of perturbed Radhakrishnan–Kundu–Lakshmanan model with Kerr law nonlinearity. Optical and Quantum Electronics, 2022, 54, .	3.3	26
5	Derivation of optical solitons of dimensionless Fokas-Lenells equation with perturbation term using Sardar sub-equation method. Optical and Quantum Electronics, 2022, 54, .	3.3	43
6	Modeling the effect of horizontal and vertical transmissions of HIV infection with Caputo fractional derivative. Chaos, Solitons and Fractals, 2021, 145, 110794.	5.1	14
7	Soliton Solutions of $(2+1)$ Dimensional Heisenberg Ferromagnetic Spin Equation by the Extended Rational $sine-cosine$ and $sinh-cosh$ Method. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	18
8	The analytical solutions of Zoomeron equation via extended rational sin-cos and sinh-cosh methods. Physica Scripta, 2021, 96, 094002.	2.5	43
9	Thanatechnology and the Living Dead: New Concepts in Digital Transformation and Human-Computer Interaction. OMICS A Journal of Integrative Biology, 2021, 25, 401-407.	2.0	7
10	On solitary wave solutions for the perturbed Chen–Lee–Liu equation via an analytical approach. Optik, 2021, 245, 167641.	2.9	40
11	Optical Soliton Solutions to Chen Lee Liu model by the modified extended tanh expansion scheme. Optik, 2021, 245, 167643.	2.9	39
12	Optical solitons of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e311" altimg="si3.svg"><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Biswas–Milovic equation using modified extended<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e325" altimg="si4.svg"><mml:	2.9	39
13	Attitude of the Modulation Instability gain in Oppositely Directed Coupler with the effects of the Intrapulse Raman Scattering and Saturable Function. Results in Physics, 2021, 31, 104851.	4.1	8
14	Chebyshev Differential Quadrature for Numerical Solutions of Third- and Fourth-Order Singular Perturbation Problems. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2020, 90, 429-436.	1.2	1
15	Bulgur cooking process: Recovery of energy and wastewater. Journal of Food Engineering, 2020, 269, 109734.	5.2	9
16	Theory and application for the system of fractional Burger equations with Mittag leffler kernel. Applied Mathematics and Computation, 2020, 367, 124781.	2.2	32
17	Some new exact solutions for derivative nonlinear Schrödinger equation with the quintic non-Kerr nonlinearity. Modern Physics Letters B, 2020, 34, 2050079.	1.9	7
18	COVID-19 Digital Health Innovation Policy: A Portal to Alternative Futures in the Making. OMICS A Journal of Integrative Biology, 2020, 24, 460-469.	2.0	62

#	Article	IF	Citations
19	COVID-19 Health Technology Governance, Epistemic Competence, and the Future of Knowledge in an Uncertain World. OMICS A Journal of Integrative Biology, 2020, 24, 451-453.	2.0	6
20	Digging Deeper into Precision/Personalized Medicine: Cracking the Sugar Code, the Third Alphabet of Life, and Sociomateriality of the Cell. OMICS A Journal of Integrative Biology, 2020, 24, 62-80.	2.0	21
21	The effects of the War on the Syrian Agricultural Food Industry Potential. Turkish Journal of Agriculture: Food Science and Technology, 2020, 8, 1448-1462.	0.3	0
22	Interactive goal programming algorithm with Taylor series and interval type 2 fuzzy numbers. International Journal of Machine Learning and Cybernetics, 2019, 10, 1563-1579.	3.6	6
23	Invariant and simulation analysis to the time fractional Abrahams–Tsuneto reaction diffusion system. Physica Scripta, 2019, 94, 125005.	2.5	20
24	Optical solitons to the $(n + 1)$-dimensional nonlinear Schrödinger's equation with Kerr law and power law nonlinearities using two integration schemes. Modern Physics Letters B, 2019, 33, 1950224.	1.9	14
25	Theory and application for the time fractional Gardner equation with Mittag-Leffler kernel. Journal of Taibah University for Science, 2019, 13, 813-819.	2.5	32
26	On numerical solution of the time-fractional diffusion-wave equation with the fictitious time integration method. European Physical Journal Plus, 2019, 134, 1.	2.6	13
27	Exact optical solitons of Radhakrishnan–Kundu–Lakshmanan equation with Kerr law nonlinearity. Modern Physics Letters B, 2019, 33, 1950061.	1.9	23
28	The Gegenbauer Wavelets-Based Computational Methods for the Coupled System of Burgers' Equations with Time-Fractional Derivative. Mathematics, 2019, 7, 486.	2.2	22
29	Dark-Bright Optical Soliton and Conserved Vectors to the Biswas-Arshed Equation With Third-Order Dispersions in the Absence of Self-Phase Modulation. Frontiers in Physics, 2019, 7, .	2.1	29
30	On Numerical Solution Of The Time Fractional Advection-Diffusion Equation Involving Atangana-Baleanu-Caputo Derivative. Open Physics, 2019, 17, 816-822.	1.7	14
31	Symmetry reductions, explicit solutions, convergence analysis and conservation laws via multipliers approach to the Chen–Lee–Liu model in nonlinear optics. Modern Physics Letters B, 2019, 33, 1950035.	1.9	10
32	Polynomial based differential quadrature for numerical solutions of Kuramoto-Sivashinsky equation. Thermal Science, 2019, 23, 129-137.	1.1	3
33	Legendre wavelet operational matrix method for solving fractional differential equations in some special conditions. Thermal Science, 2019, 23, 203-214.	1.1	5
34	Oscillation properties of solutions of fractional difference equations. Thermal Science, 2019, 23, 185-192.	1.1	3
35	Horizon Scanning: How Will Metabolomics Applications Transform Food Science, Bioengineering, and Medical Innovation in the Current Era of Foodomics?. OMICS A Journal of Integrative Biology, 2018, 22, 177-183.	2.0	15
36	Interactive Fuzzy Goal Programming Based on Taylor Series to Solve Multiobjective Nonlinear Programming Problems With Interval Type-2 Fuzzy Numbers. IEEE Transactions on Fuzzy Systems, 2018, 26, 2434-2449.	9.8	17

#	Article	IF	Citations
37	Mathematical modeling of packed bed and microwave drying of enriched couscous. Journal of Food Measurement and Characterization, 2018, 12, 1723-1733.	3.2	7
38	A Hermite Polynomial Approach for Solving the SIR Model of Epidemics. Mathematics, 2018, 6, 305.	2.2	14
39	On Discrete Fractional Solutions of Non-Fuchsian Differential Equations. Mathematics, 2018, 6, 308.	2.2	1
40	Is Space the New Frontier for Omics? Mars-Omics, Planetary Science, and the Next-Generation Technology Futurists. OMICS A Journal of Integrative Biology, 2018, 22, 696-699.	2.0	6
41	Characterization of Volatile Compounds of Bulgur (Antep Type) Produced from Durum Wheat. Journal of Food Quality, 2018, 2018, 1-9.	2.6	13
42	To Genotype or Phenotype for Drug and Food Safety? Exiting the Technology Echo Chambers. OMICS A Journal of Integrative Biology, 2018, 22, 525-527.	2.0	0
43	Numerical methods for simulation of stochastic differential equations. Advances in Difference Equations, 2018, 2018, .	3.5	41
44	A solution method for integro-differential equations of conformable fractional derivative. Thermal Science, 2018, 22, 7-14.	1.1	10
45	Parameter estimation in a Black Scholes. Thermal Science, 2018, 22, 117-122.	1.1	4
46	Modification of mechanical polishing operation using preheating systems to improve the bulgur color. Journal of Cereal Science, 2017, 75, 108-115.	3.7	7
47	Development and characterization of couscous-like product using bulgur flour as by-product. Journal of Food Science and Technology, 2017, 54, 4452-4463.	2.8	8
48	Usage of undersize bulgur flour in production of short-cut pasta-like couscous. Journal of Cereal Science, 2017, 77, 102-109.	3.7	13
49	Oscillatory behavior of solutions of differential equations with fractional order. Applied Mathematics and Information Sciences, 2017, 11, 683-691.	0.5	1
50	Modeling of vibration for functionally graded beams. Open Mathematics, 2016, 14, 661-672.	1.0	10
51	Oscillation criteria for nonlinear fractional differential equation with damping term. Open Physics, 2016, 14, 119-128.	1.7	8
52	On the solutions of a higherâ€order difference equation in terms of generalized Fibonacci sequences. Mathematical Methods in the Applied Sciences, 2016, 39, 2974-2982.	2.3	25
53	Oscillation of fractional order functional differential equations with nonlinear damping. Open Physics, 2015, 13, .	1.7	4
54	Partial Fractional Equations and Their Applications. Mathematical Problems in Engineering, 2015, 2015, 1-1.	1.1	7

#	Article	IF	Citations
55	Improving the color of bulgur: new industrial applications of tempering and UV/sun-light treatments. Journal of Food Science and Technology, 2015, 52, 5579-5589.	2.8	11
56	The common solution for a generalized equilibrium problem, a variational inequality problem and a hierarchical fixed point problem. Journal of Inequalities and Applications, 2015, 2015, .	1.1	1
57	Approximate Solution of Time-Fractional Advection-Dispersion Equation via Fractional Variational Iteration Method. Scientific World Journal, The, 2014, 2014, 1-5.	2.1	6
58	Analytical approximate solution of time-fractional Fornberg–Whitham equation by the fractional variational iteration method. AEJ - Alexandria Engineering Journal, 2014, 53, 911-915.	6.4	4
59	Convexity of Certain q-Integral Operators of p-Valent Functions. Abstract and Applied Analysis, 2014, 2014, 1-7.	0.7	15
60	An approximate solution of fractional cable equation by homotopy analysis method. Boundary Value Problems, 2014, 2014, .	0.7	4
61	A Generalized q-Grüss Inequality Involving the Riemann-Liouville Fractional q-Integrals. Journal of Applied Mathematics, 2014, 2014, 1-6.	0.9	1
62	Numerical Solution of Fractional Benney Equation. Applied Mathematics and Information Sciences, 2014, 8, 1633-1637.	0.5	23
63	Stability, Synchronization Control and Numerical Solution of Fractional Shimizu–Morioka Dynamical System. Applied Mathematics and Information Sciences, 2014, 8, 1699-1705.	0.5	5
64	Effect of soaking and ultrasound treatments on texture of chickpea. Journal of Food Science and Technology, 2013, 50, 455-465.	2.8	46
65	Coefficient Estimates and Other Properties for a Class of Spirallike Functions Associated with a Differential Operator. Abstract and Applied Analysis, 2013, 2013, 1-7.	0.7	9
66	Recent Developments in Integral Transforms, Special Functions, and Their Extensions to Distributions Theory. Abstract and Applied Analysis, 2013, 2013, 1-2.	0.7	0
67	A Numerical Method for Partial Differential Algebraic Equations Based on Differential Transform Method. Abstract and Applied Analysis, 2013, 2013, 1-8.	0.7	1
68	Sinc-Galerkin method for approximate solutions of fractional order boundary value problems. Boundary Value Problems, 2013, 2013, .	0.7	22
69	Approximates Method for Solving an Elasticity Problem of Settled of the Elastic Ground with Variable Coefficients. Applied Mathematics and Information Sciences, 2013, 7, 1351-1357.	0.5	1
70	Efficient Variational Approaches for Deformable Registration of Images. Abstract and Applied Analysis, 2012, 2012, 1-8.	0.7	1
71	Some properties of the Mittag-Leffler functions and their relation with the Wright functions. Advances in Difference Equations, 2012, 2012, .	3.5	17
72	Comparison of unsplit inshell and shelled kernel of the pistachio nuts. Journal of Food Engineering, 2011, 107, 374-378.	5.2	5

#	Article	IF	Citations
73	Numerical comparison of methods for solving fractional differential–algebraic equations (FDAEs). Computers and Mathematics With Applications, 2011, 62, 3270-3278.	2.7	24
74	Fitting Fick's model to analyze water diffusion into chickpeas during soaking with ultrasound treatment. Journal of Food Engineering, 2011, 104, 134-142.	5.2	87
75	Approximate analytical solution for the fractional modified KdV by differential transform method. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1777-1782.	3.3	67
76	Global Asymptotic Stability for a Fourth-Order Rational Difference Equation. Discrete Dynamics in Nature and Society, 2009, 2009, 1-7.	0.9	0
77	Ternary milling of bulgur with four rollers. Journal of Food Engineering, 2008, 84, 394-399.	5.2	13
78	Prehistoric cereal foods from Greece and Bulgaria: investigation of starch microstructure in experimental and archaeological charred remains. Vegetation History and Archaeobotany, 2008, 17, 265-276.	2.1	60
79	Bulgur milling using a helical disc mill. Journal of Food Engineering, 2008, 87, 564-570.	5.2	19
80	WHEY POWDER AS A CARRIER IN SPRAY DRYING OF SUMAC CONCENTRATE. Journal of Food Process Engineering, 2008, 31, 105-119.	2.9	14
81	The use of bulgur as a meat replacement: bulgur-sucuk (a vegetarian dry-fermented sausage). Journal of the Science of Food and Agriculture, 2007, 87, 411-419.	3.5	12
82	Bulgur milling using roller, double disc and vertical disc mills. Journal of Food Engineering, 2007, 79, 181-187.	5.2	32
83	Determination of the cooking degree for bulgur production using amylose/iodine, centre cutting and light scattering methods. Food Control, 2006, 17, 331-335.	5.5	11
84	Colour and textural attributes of sucuk during ripening. Meat Science, 2006, 73, 344-350.	5.5	124
85	Numerical solution of differential–algebraic equations with index-2. Applied Mathematics and Computation, 2006, 174, 1279-1289.	2.2	17
86	On the numerical solution of differential-algebraic equations with index-3. Applied Mathematics and Computation, 2006, 175, 1320-1331.	2.2	8
87	Determination of applicability and effects of colour sorting system in bulgur production line. Journal of Food Engineering, 2006, 74, 232-239.	5.2	20
88	Determination of the sphericity of granular food materials. Journal of Food Engineering, 2005, 68, 385-390.	5.2	20
89	Spray drying of sumac flavour using sodium chloride, sucrose, glucose and starch as carriers. Journal of Food Engineering, 2005, 69, 253-260.	5.2	54
90	The numerical solution of physical problems modeled as a systems of differential-algebraic equations (DAEs). Journal of the Franklin Institute, 2005, 342, 1-6.	3.4	25

#	Article	IF	Citations
91	Derivation of conservation relationships for catalytic cycles using MAPLE. Applied Mathematics and Computation, 2005, 160, 189-195.	2.2	0
92	Automatic calculation of the fundamental group of an oriented surface of genus n with k boundary surfaces. Applied Mathematics and Computation, 2005, 162, 1-6.	2.2	27
93	On the numerical solution of stiff systems. Applied Mathematics and Computation, 2005, 170, 230-236.	2.2	25
94	Metabolic control analysis of trio enzymes system. Applied Mathematics and Computation, 2005, 170, 948-957.	2.2	3
95	Stone, disc and hammer milling of bulgur. Journal of Cereal Science, 2005, 41, 291-296.	3.7	28
96	Modelling of cooking of wheat to produce bulgur. Journal of Food Engineering, 2005, 71, 179-186.	5.2	27
97	WATER ABSORPTION, LEACHING and COLOR CHANGES DURING the SOAKING FOR PRODUCTION of SOY-BULGUR. Journal of Food Process Engineering, 2004, 27, 119-141.	2.9	5
98	The modified successive approximations method and padÃ© approximants for solving the differential equation with variant retarded argumend. Applied Mathematics and Computation, 2004, 151, 393-400.	2.2	5
99	Application of GrÃ¶bner basis techniques to enzyme kinetics. Applied Mathematics and Computation, 2004, 153, 97-109.	2.2	2
100	A numerical solution of the elasticity problem of settled of the wronkler ground with variable coefficients. Applied Mathematics and Computation, 2004, 150, 821-831.	2.2	0
101	Application of computer algebra matrix operation techniques to the control of metabolic networks. Applied Mathematics and Computation, 2004, 152, 289-297.	2.2	1
102	A computer program to calculate Alexander polynomial from Braids presentation of the given knot. Applied Mathematics and Computation, 2004, 153, 199-204.	2.2	3
103	Numerical solution of differentialâ€"algebraic equation systems and applications. Applied Mathematics and Computation, 2004, 154, 405-413.	2.2	17
104	The basic successive substitute approximations method and PadÃ© approximations to solve the elasticity problem of settled of the wronkler ground with variable coefficients. Applied Mathematics and Computation, 2004, 154, 495-505.	2.2	1
105	Changes in properties of soaking water during production of soy-bulgur. Journal of Food Engineering, 2004, 61, 221-230.	5.2	62
106	Influence of soaking on the dimensions and colour of soybean for bulgur production. Journal of Food Engineering, 2004, 61, 331-339.	5.2	44
107	Effect of cooking time and temperature on the dimensions and crease of the wheat kernel during bulgur production. Journal of Food Engineering, 2004, 64, 43-51.	5.2	32
108	Arbitrary order numerical method for solving differential-algebraic equation by PadÃ© series. Applied Mathematics and Computation, 2003, 137, 57-65.	2.2	27

#	Article	IF	Citations
109	The modified two sided approximations method and Padé approximants for solving the differential equation with variant retarded argument. Applied Mathematics and Computation, 2003, 144, 475-482.	2.2	4
110	The ordinary successive approximations method and Padé approximants for solving a differential equation with variant retarded argument. Applied Mathematics and Computation, 2003, 144, 173-180.	2.2	8
111	Automatic calculation of minimum crossing numbers of 3-braids. Applied Mathematics and Computation, 2003, 144, 507-516.	2.2	4
112	Application of computer algebra-techniques to metabolic control analysis. Computational Biology and Chemistry, 2003, 27, 141-146.	2.3	1
113	Automatic calculation of Alexander polynomials of (3,k)-Torus knots. Applied Mathematics and Computation, 2003, 136, 505-510.	2.2	5
114	On the numerical solution of differential-algebraic equations by Padé series. Applied Mathematics and Computation, 2003, 137, 151-160.	2.2	38
115	Numerical solutions of chemical differential-algebraic equations. Applied Mathematics and Computation, 2003, 139, 259-264.	2.2	15
116	Numerical method to solve chemical differential-algebraic equations. International Journal of Quantum Chemistry, 2002, 89, 447-451.	2.0	31
117	Simultaneous solution of polynomial equations. Applied Mathematics and Computation, 2002, 133, 533-538.	2.2	1
118	Automatic analysis of the control of metabolic networks. Computers in Biology and Medicine, 1996, 26, 401-408.	7.0	13
119	An Application of the Differential Transform Method to the Biochemical Reaction Systems. Applied Mechanics and Materials, 0, 319, 151-156.	0.2	0
120	Solitary wave solutions of chiral nonlinear Schrödinger equations. Modern Physics Letters B, 0, , 2150472.	1.9	12
121	Solving the fractional Jaulentâ€"Miodek system via a modified Laplace decomposition method. Waves in Random and Complex Media, 0, , 1-14.	2.7	10