

# Mehmet Sezer

## List of Publications by Year in descending order

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121  
papers

2,777  
citations

159585

30  
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223800

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123  
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123  
docs citations

123  
times ranked

681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charlier Series Solutions of Systems of First Order Delay Differential Equations with Proportional and Constant Arguments. , 2022, 2, 1-11.		0
2	A Novel Study Based on Lerch Polynomials for Approximate Solutions of Pure Neumann Problem. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	1.6	3
3	A fast numerical method for fractional partial integro-differential equations with spatial-time delays. Applied Numerical Mathematics, 2021, 161, 525-539.	2.1	10
4	A directly convergent numerical method based on orthoexponential polynomials for solving integro-differential-delay equations with variable coefficients and infinite boundary on half-line. Journal of Computational and Applied Mathematics, 2021, 386, 113250.	2.0	8
5	Pellâ€“Lucas series approach for a class of Fredholm-type delay integro-differential equations with variable delays. Mathematical Sciences, 2021, 15, 55-64.	1.7	7
6	A Novel Numerical Approach for Simulating the Nonlinear MHD Jefferyâ€“Hamel Flow Problem. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	14
7	EULER AND TAYLOR POLYNOMIALS METHOD FOR SOLVING VOLTERRA TYPE INTEGRO DIFFERENTIAL EQUATIONS WITH NONLINEAR TERMS. Journal of Science and Arts, 2021, 21, 395-406.	0.3	0
8	Legendre Matrix Method for Legendre Curve in Sasakian 3-Manifold. Foundations of Computing and Decision Sciences, 2021, 46, 205-219.	1.2	0
9	ON SOLUTIONS OF LINEAR FUNCTIONAL INTEGRAL AND INTEGRO-DIFFERENTIAL EQUATIONS VIA LAGRANGE POLYNOMIALS. Journal of Science and Arts, 2021, 21, 707-720.	0.3	2
10	A matched Hermite-Taylor matrix method to solve the combined partial integro-differential equations having nonlinearity and delay terms. Computational and Applied Mathematics, 2020, 39, 1.	2.2	5
11	Lerch matrix collocation method for 2D and 3D Volterra type integral and second order partial integro differential equations together with an alternative error analysis and convergence criterion based on residual functions. Turkish Journal of Mathematics, 2020, 44, 2073-2098.	0.7	5
12	Solution of nonlinear ordinary differential equations with quadratic and cubic terms by Morgan-Voyce matrix-collocation method. Turkish Journal of Mathematics, 2020, 44, 906-918.	0.7	5
13	An accurate and novel numerical simulation with convergence analysis for nonlinear partial differential equations of Burgersâ€“Fisher type arising in applied sciences. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, .	1.0	0
14	A Modified Laguerre Matrix Approach for Burgersâ€“Fisher Type Nonlinear Equations. Advances in Dynamics, Patterns, Cognition, 2020, , 107-123.	0.3	5
15	Modified operational matrix method for second-order nonlinear ordinary differential equations with quadratic and cubic terms. International Journal of Optimization and Control: Theories and Applications, 2020, 10, 218-225.	1.7	6
16	A MUNTZ-LEGENDRE APPROACH TO OBTAIN SOLUTIONS OF SINGULAR PERTURBED PROBLEMS. Journal of Science and Arts, 2020, 20, 537-544.	0.3	1
17	An advanced method with convergence analysis for solving space-time fractional partial differential equations with multi delays. European Physical Journal Plus, 2019, 134, 1.	2.6	9
18	An integrated numerical method with error analysis for solving fractional differential equations of quintic nonlinear type arising in applied sciences. Mathematical Methods in the Applied Sciences, 2019, 42, 6114-6130.	2.3	6

#	ARTICLE	IF	CITATIONS
19	An inventive numerical method for solving the most general form of integro-differential equations with functional delays and characteristic behavior of orthoexponential residual function. <i>Computational and Applied Mathematics</i> , 2019, 38, 1.	2.2	6
20	A novel graph-operational matrix method for solving multidelay fractional differential equations with variable coefficients and a numerical comparative survey of fractional derivative types. <i>Turkish Journal of Mathematics</i> , 2019, 43, 373-392.	0.7	8
21	On the numerical solution of fractional differential equations with cubic nonlinearity via matching polynomial of complete graph. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.	1.3	6
22	A computational method for solving differential equations with quadratic nonlinearity by using Bernoulli polynomials. <i>Thermal Science</i> , 2019, 23, 275-283.	1.1	2
23	Numerical solutions of a class of nonlinear ordinary differential equations in Hermite series. <i>Thermal Science</i> , 2019, 23, 339-351.	1.1	3
24	Modified Laguerre collocation method for solving 1â€dimensional parabolic convectionâ€diffusion problems. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8481-8487.	2.3	9
25	A Numerical Approach Technique for Solving Generalized Delay Integro-Differential Equations with Functional Bounds by Means of Dickson Polynomials. <i>International Journal of Computational Methods</i> , 2018, 15, 1850039.	1.3	11
26	A numerical technique for solving functional integro-differential equations having variable bounds. <i>Computational and Applied Mathematics</i> , 2018, 37, 5609-5623.	1.3	4
27	A numerical approach for a nonhomogeneous differential equation with variable delays. <i>Mathematical Sciences</i> , 2018, 12, 145-155.	1.7	2
28	Hermite polynomial approach to determine spherical curves in Euclidean 3-space. <i>New Trends in Mathematical Sciences</i> , 2018, 3, 189-199.	0.2	3
29	A numerical method for solving some model problems arising in science and convergence analysis based on residual function. <i>Applied Numerical Mathematics</i> , 2017, 121, 134-148.	2.1	26
30	A numerical approach for solving Volterra type functional integral equations with variable bounds and mixed delays. <i>Journal of Computational and Applied Mathematics</i> , 2017, 311, 354-363.	2.0	23
31	Improved Jacobi matrix method for the numerical solution of Fredholm integro-differential-difference equations. <i>Mathematical Sciences</i> , 2016, 10, 83-93.	1.7	7
32	A numerical approach with error estimation to solve general integro-differentialâ€difference equations using Dickson polynomials. <i>Applied Mathematics and Computation</i> , 2016, 276, 324-339.	2.2	30
33	A numerical method for solving systems of higher order linear functional differential equations. <i>Open Physics</i> , 2016, 14, 15-25.	1.7	4
34	Hybrid Eulerâ€Taylor matrix method for solving of generalized linear Fredholm integro-differential difference equations. <i>Applied Mathematics and Computation</i> , 2016, 273, 33-41.	2.2	24
35	An exponential approach for the system of nonlinear delay integro-differential equations describing biological species living together. <i>Neural Computing and Applications</i> , 2016, 27, 769-779.	5.6	13
36	Lucas Polynomial Approach for System of High-Order Linear Differential Equations and Residual Error Estimation. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-14.	1.1	13

#	ARTICLE	IF	CITATIONS
37	Shifted Legendre approximation with the residual correction to solve pantograph-delay type differential equations. <i>Applied Mathematical Modelling</i> , 2015, 39, 6529-6542.	4.2	23
38	Error analysis of the Chebyshev collocation method for linear second-order partial differential equations. <i>International Journal of Computer Mathematics</i> , 2015, 92, 2121-2138.	1.8	12
39	A numerical approach for solving generalized Abel-type nonlinear differential equations. <i>Applied Mathematics and Computation</i> , 2015, 262, 169-177.	2.2	12
40	Chelyshkov collocation method for a class of mixed functional integro-differential equations. <i>Applied Mathematics and Computation</i> , 2015, 259, 943-954.	2.2	38
41	Orthoexponential polynomial solutions of delay pantograph differential equations with residual error estimation. <i>Applied Mathematics and Computation</i> , 2015, 271, 11-21.	2.2	23
42	Laguerre Collocation Method for Solving Fredholm Integro-Differential Equations with Functional Arguments. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-12.	0.9	25
43	Laguerre polynomial approach for solving Laneâ€Emden type functional differential equations. <i>Applied Mathematics and Computation</i> , 2014, 242, 255-264.	2.2	33
44	Bernstein series solution of linear second-order partial differential equations with mixed conditions. <i>Mathematical Methods in the Applied Sciences</i> , 2014, 37, 609-619.	2.3	15
45	Laguerre matrix method with the residual error estimation for solutions of a class of delay differential equations. <i>Mathematical Methods in the Applied Sciences</i> , 2014, 37, 453-463.	2.3	16
46	Solution of the delayed single degree of freedom system equation by exponential matrix method. <i>Applied Mathematics and Computation</i> , 2014, 242, 444-453.	2.2	3
47	An exponential matrix method for solving systems of linear differential equations. <i>Mathematical Methods in the Applied Sciences</i> , 2013, 36, 336-348.	2.3	11
48	Numeric solutions for the pantograph type delay differential equation using First Boubaker polynomials. <i>Applied Mathematics and Computation</i> , 2013, 219, 9484-9492.	2.2	19
49	An exponential approximation for solutions of generalized pantograph-delay differential equations. <i>Applied Mathematical Modelling</i> , 2013, 37, 9160-9173.	4.2	38
50	A Bernoulli polynomial approach with residual correction for solving mixed linear Fredholm integro-differential-difference equations. <i>Journal of Difference Equations and Applications</i> , 2013, 19, 1619-1631.	1.1	27
51	An improved Bessel collocation method with a residual error function to solve a class of Laneâ€Emden differential equations. <i>Mathematical and Computer Modelling</i> , 2013, 57, 1298-1311.	2.0	31
52	Numerical solutions of integro-differential equations and application of a population model with an improved Legendre method. <i>Applied Mathematical Modelling</i> , 2013, 37, 2086-2101.	4.2	46
53	Fibonacci Collocation Method for Solving High-Order Linear Fredholm Integro-Differential-Difference Equations. <i>International Journal of Mathematics and Mathematical Sciences</i> , 2013, 2013, 1-9.	0.7	17
54	Exponential Collocation Method for Solutions of Singularly Perturbed Delay Differential Equations. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-9.	0.7	6

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55	A New Approach to Numerical Solution of Nonlinear Klein-Gordon Equation. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7.	1.1	29
56	A Collocation Method for Solving Fractional Riccati Differential Equation. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-8.	0.9	3
57	Numerical Solution of Duffing Equation by Using an Improved Taylor Matrix Method. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-6.	0.9	16
58	Fibonacci Collocation Method for Solving Linear Differential - Difference Equations. <i>Mathematical and Computational Applications</i> , 2013, 18, 448-458.	1.3	4
59	Taylor Collocation Method for Solving a Class of the First Order Nonlinear Differential Equations. <i>Mathematical and Computational Applications</i> , 2013, 18, 383-391.	1.3	5
60	Müntz-Legendre Polynomial Solutions of Linear Delay Fredholm Integro-Differential Equations and Residual Correction. <i>Mathematical and Computational Applications</i> , 2013, 18, 476-485.	1.3	3
61	Bernstein series solutions of pantograph equations using polynomial interpolation. <i>Journal of Difference Equations and Applications</i> , 2012, 18, 357-374.	1.1	41
62	A new Chebyshev polynomial approximation for solving delay differential equations. <i>Journal of Difference Equations and Applications</i> , 2012, 18, 1043-1065.	1.1	7
63	A numerical method to solve a class of linear integro-differential equations with weakly singular kernel. <i>Mathematical Methods in the Applied Sciences</i> , 2012, 35, 621-632.	2.3	8
64	A collocation approach for solving linear complex differential equations in rectangular domains. <i>Mathematical Methods in the Applied Sciences</i> , 2012, 35, 1126-1139.	2.3	10
65	A Taylor polynomial approach for solving the most general linear Fredholm integro-differential-difference equations. <i>Mathematical Methods in the Applied Sciences</i> , 2012, 35, 839-844.	2.3	5
66	A Bessel collocation method for numerical solution of generalized pantograph equations. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 1105-1123.	3.6	52
67	A collocation approach to solving the model of pollution for a system of lakes. <i>Mathematical and Computer Modelling</i> , 2012, 55, 330-341.	2.0	30
68	A Bessel polynomial approach for solving general linear Fredholm integro-differential-difference equations. <i>International Journal of Computer Mathematics</i> , 2011, 88, 3093-3111.	1.8	19
69	Taylor polynomial solution of hyperbolic type partial differential equations with constant coefficients. <i>International Journal of Computer Mathematics</i> , 2011, 88, 533-544.	1.8	50
70	Numerical Approach of High-Order Linear Delay Difference Equations with Variable Coefficients in Terms of Laguerre Polynomials. <i>Mathematical and Computational Applications</i> , 2011, 16, 267-278.	1.3	8
71	A collocation approach for the numerical solution of certain linear retarded and advanced integrodifferential equations with linear functional arguments. <i>Numerical Methods for Partial Differential Equations</i> , 2011, 27, 447-459.	3.6	4
72	Rational Chebyshev collocation method for solving higher-order linear ordinary differential equations. <i>Numerical Methods for Partial Differential Equations</i> , 2011, 27, 1130-1142.	3.6	15

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73	Solution of high-order linear Fredholm integro-differential equations with piecewise intervals. Numerical Methods for Partial Differential Equations, 2011, 27, 1327-1339.	3.6	15
74	A Taylor collocation method for solving high-order linear pantograph equations with linear functional argument. Numerical Methods for Partial Differential Equations, 2011, 27, 1628-1638.	3.6	12
75	A Hermite collocation method for the approximate solutions of high-order linear Fredholm integro-differential equations. Numerical Methods for Partial Differential Equations, 2011, 27, 1707-1721.	3.6	16
76	Numerical solutions of systems of linear Fredholm integro-differential equations with Bessel polynomial bases. Computers and Mathematics With Applications, 2011, 61, 3079-3096.	2.7	54
77	Bessel polynomial solutions of high-order linear Volterra integro-differential equations. Computers and Mathematics With Applications, 2011, 62, 1940-1956.	2.7	42
78	On the solution of the Abel equation of the second kind by the shifted Chebyshev polynomials. Applied Mathematics and Computation, 2011, 217, 4827-4833.	2.2	27
79	Bernstein series solution of a class of linear integro-differential equations with weakly singular kernel. Applied Mathematics and Computation, 2011, 217, 7009-7020.	2.2	29
80	A collocation method using Hermite polynomials for approximate solution of pantograph equations. Journal of the Franklin Institute, 2011, 348, 1128-1139.	3.4	73
81	A collocation method to solve higher order linear complex differential equations in rectangular domains. Numerical Methods for Partial Differential Equations, 2010, 26, 596-611.	3.6	5
82	Solving high-order linear differential equations by a Legendre matrix method based on hybrid Legendre and Taylor polynomials. Numerical Methods for Partial Differential Equations, 2010, 26, 647-661.	3.6	3
83	A new Taylor collocation method for nonlinear Fredholm-Volterra integro-differential equations. Numerical Methods for Partial Differential Equations, 2010, 26, 1006-1020.	3.6	9
84	Numerical solution of a class of complex differential equations by the Taylor collocation method in elliptic domains. Numerical Methods for Partial Differential Equations, 2010, 26, 1191-1205.	3.6	7
85	A new collocation method for solution of mixed linear integro-differential-difference equations. Applied Mathematics and Computation, 2010, 216, 2183-2198.	2.2	49
86	Approximate Solution of Higher Order Linear Differential Equations by Means of a New Rational Chebyshev Collocation Method. Mathematical and Computational Applications, 2010, 15, 45-56.	1.3	10
87	Legendre polynomial solutions of high-order linear Fredholm integro-differential equations. Applied Mathematics and Computation, 2009, 210, 334-349.	2.2	86
88	Polynomial solution of high-order linear Fredholm integro-differential equations with constant coefficients. Journal of the Franklin Institute, 2008, 345, 839-850.	3.4	61
89	Approximate solution of multi-pantograph equation with variable coefficients. Journal of Computational and Applied Mathematics, 2008, 214, 406-416.	2.0	89
90	A Taylor polynomial approach for solving generalized pantograph equations with nonhomogenous term. International Journal of Computer Mathematics, 2008, 85, 1055-1063.	1.8	47

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91	A Taylor polynomial approach for solving high-order linear Fredholm integro-differential equations in the most general form. International Journal of Computer Mathematics, 2007, 84, 527-539.	1.8	17
92	A Taylor method for numerical solution of generalized pantograph equations with linear functional argument. Journal of Computational and Applied Mathematics, 2007, 200, 217-225.	2.0	75
93	Taylor collocation method for solution of systems of high-order linear Fredholmâ€™Volterra integro-differential equations. International Journal of Computer Mathematics, 2006, 83, 429-448.	1.8	31
94	A Taylor polynomial approach for solving differential-difference equations. Journal of Computational and Applied Mathematics, 2006, 186, 349-364.	2.0	54
95	Approximate solution of general high-order linear nonhomogeneous difference equations by means of Taylor collocation method. Applied Mathematics and Computation, 2006, 173, 683-693.	2.2	8
96	Taylor polynomial solutions of general linear differentialâ€™difference equations with variable coefficients. Applied Mathematics and Computation, 2006, 174, 1526-1538.	2.2	28
97	A Taylor collocation method for the approximate solution of general linear Fredholmâ€™Volterra integro-difference equations with mixed argument. Applied Mathematics and Computation, 2006, 175, 675-690.	2.2	18
98	On the solution of the Riccati equation by the Taylor matrix method. Applied Mathematics and Computation, 2006, 176, 414-421.	2.2	42
99	Approximate solution of complex differential equations for a rectangular domain with Taylor collocation method. Applied Mathematics and Computation, 2006, 177, 844-851.	2.2	9
100	Solution of Dirichlet problem for a triangle region in terms of elliptic functions. Applied Mathematics and Computation, 2006, 182, 73-81.	2.2	5
101	A Taylor collocation method for the numerical solution of complex differential equations with mixed conditions in elliptic domains. Applied Mathematics and Computation, 2006, 182, 498-508.	2.2	8
102	A matrix method for solving high-order linear difference equations with mixed argument using hybrid legendre and taylor polynomials. Journal of the Franklin Institute, 2006, 343, 647-659.	3.4	6
103	The approximate solution of high-order linear difference equations with variable coefficients in terms of Taylor polynomials. Applied Mathematics and Computation, 2005, 168, 76-88.	2.2	40
104	A new polynomial approach for solving difference and Fredholm integro-difference equations with mixed argument. Applied Mathematics and Computation, 2005, 171, 332-344.	2.2	36
105	Chebyshev polynomial solutions of systems of higher-order linear Fredholmâ€™Volterra integro-differential equations. Journal of the Franklin Institute, 2005, 342, 688-701.	3.4	64
106	Polynomial solution of the most general linear Fredholm integrodifferentialâ€™difference equations by means of Taylor matrix method. Complex Variables and Elliptic Equations, 2005, 50, 367-382.	0.2	25
107	Taylor polynomial solutions of systems of linear differential equations with variable coefficients. International Journal of Computer Mathematics, 2005, 82, 755-764.	1.8	35
108	A method for the approximate solution of the high-order linear difference equations in terms of Taylor polynomials. International Journal of Computer Mathematics, 2005, 82, 629-642.	1.8	22

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109	Solution of Dirichlet problem for a rectangular region in terms of elliptic functions. International Journal of Computer Mathematics, 2004, 81, 1417-1426.	1.8	3
110	Chebyshev polynomial solutions of systems of high-order linear differential equations with variable coefficients. Applied Mathematics and Computation, 2003, 144, 237-247.	2.2	73
111	A Taylor Collocation Method for the Solution of Linear Integro-Differential Equations. International Journal of Computer Mathematics, 2002, 79, 987-1000.	1.8	85
112	The approximate solution of high-order linear Volterraâ€“Fredholm integro-differential equations in terms of Taylor polynomials. Applied Mathematics and Computation, 2000, 112, 291-308.	2.2	142
113	Polynomial solutions of certain differential equations. International Journal of Computer Mathematics, 2000, 76, 93-104.	1.8	6
114	A chebyshev collocation method for the solution of linear integro-differential equations. International Journal of Computer Mathematics, 1999, 72, 491-507.	1.8	45
115	A method for the approximate solution of the secondâ€“order linear differential equations in terms of Taylor polynomials. International Journal of Mathematical Education in Science and Technology, 1996, 27, 821-834.	1.4	88
116	Chebyshev series solutions of Fredholm integral equations. International Journal of Mathematical Education in Science and Technology, 1996, 27, 649-657.	1.4	17
117	Chebyshev polynomial solutions of linear differential equations. International Journal of Mathematical Education in Science and Technology, 1996, 27, 607-618.	1.4	76
118	Taylor polynomial solutions of Volterra integral equations. International Journal of Mathematical Education in Science and Technology, 1994, 25, 625-633.	1.4	97
119	A compatible Hermiteâ€“Taylor matrix-collocation technique with convergence test for second-order partial integro-differential equations containing two independent variables with functional bounds. Mathematical Sciences, 0, , 1.	1.7	2
120	Morgan-Voyce Polynomial Approach for Ordinary Integro-Differential Equations Including Variable Bounds. , 0, , .	1.0	0
121	A new characteristic numerical approach with evolutionary residual error analysis to nonlinear boundary value problems occurring in heat and mass transfer via combinatoric Mittag-Leffler polynomial. Numerical Heat Transfer; Part A: Applications, 0, , 1-15.	2.1	1