Mehmet Pakdemirli

List of Publications by Year
in descending order

108	2,979	159358 30	182168 51
papers	citations	h-index	g-index

110	110	110	961
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	VIBRATIONS OF AN AXIALLY MOVING BEAM WITH TIME-DEPENDENT VELOCITY. Journal of Sound and Vibration, 1999, 227, 239-257.	2.1	223
2	Non-linear vibrations and stability of an axially moving beam with time-dependent velocity. International Journal of Non-Linear Mechanics, 2001, 36, 107-115.	1.4	203
3	STABILITY ANALYSIS OF AN AXIALLY ACCELERATING STRING. Journal of Sound and Vibration, 1997, 203, 815-832.	2.1	173
4	Transverse Vibration of an Axially Accelerating String. Journal of Sound and Vibration, 1994, 169, 179-196.	2.1	166
5	Infinite mode analysis and truncation to resonant modes of axially accelerated beam vibrations. Journal of Sound and Vibration, 2008, 311, 1052-1074.	2.1	98
6	New perturbationâ€“iteration solutions for Bratu-type equations. Computers and Mathematics With Applications, 2010, 59, 2802-2808.	1.4	88
7	VIBRATIONS OF AN AXIALLY ACCELERATING BEAM WITH SMALL FLEXURAL STIFFNESS. Journal of Sound and Vibration, 2000, 234, 521-535.	2.1	84
8	Approximate analytical solutions for the flow of a third-grade fluid in a pipe. International Journal of Non-Linear Mechanics, 2002, 37, 187-195.	1.4	81
9	Similarity Transformations for Partial Differential Equations. SIAM Review, 1998, 40, 96-101.	4.2	76
10	TRANSITION BEHAVIOUR FROM STRING TO BEAM FOR AN AXIALLY ACCELERATING MATERIAL. Journal of Sound and Vibration, 1998, 215, 571-576.	2.1	75
11	NON-LINEAR VIBRATIONS OF A BEAM-MASS SYSTEM UNDER DIFFERENT BOUNDARY CONDITIONS. Journal of Sound and Vibration, 1997, 199, 679-696.	2.1	62
12	Lie group analysis of creeping flow of a second grade fluid. International Journal of Non-Linear Mechanics, 2001, 36, 955-960.	1.4	62
13	Analytical and numerical solutions of electro-osmotically driven flow of a third grade fluid between micro-parallel plates. International Journal of Non-Linear Mechanics, 2008, 43, 985-992.	1.4	60
14	A comparison of two perturbation methods for vibrations of systems with quadratic and cubic nonlinearities. Mechanics Research Communications, 1994, 21, 203-208.	1.0	57
15	Exact solutions of boundary layer equations of a special non-Newtonian fluid over a stretching sheet. Mechanics Research Communications, 1999, 26, 171-175.	1.0	53
16	Comparison of Approximate Symmetry Methods for Differential Equations. Acta Applicandae Mathematicae, 2004, 80, 243-271.	0.5	52
17	The boundary layer equations of third-grade fluids. International Journal of Non-Linear Mechanics, 1992, 27, 785-793.	1.4	51
18	Non-linear vibrations of a simpleâ€“simple beam with a non-ideal support in between. Journal of Sound and Vibration, 2003, 268, 331-341.	2.1	50

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19	Entropy generation for pipe flow of a third grade fluid with Vogel model viscosity. International Journal of Non-Linear Mechanics, 2006, 41, 432-437.	1.4	46
20	Symmetry reductions of unsteady three-dimensional boundary layers of some non-Newtonian fluids. International Journal of Engineering Science, 1997, 35, 731-740.	2.7	44
21	Dynamic Stability Of A Constantly Accelerating Strip. Journal of Sound and Vibration, 1993, 168, 371-378.	2.1	41
22	Perturbation analysis of a modified second grade fluid over a porous plate. Nonlinear Analysis: Real World Applications, 2011, 12, 1774-1785.	0.9	37
23	A general solution procedure for the forced vibrations of a continuous system with cubic nonlinearities: Primary resonance case. Journal of Sound and Vibration, 2009, 325, 894-906.	2.1	36
24	Non-linear vibrations of suspension bridges with external excitation. International Journal of Non-Linear Mechanics, 2005, 40, 901-923.	1.4	34
25	Approximate Analytical Solutions for Flow of a Third-Grade Fluid Through a Parallel-Plate Channel Filled with a Porous Medium. Transport in Porous Media, 2010, 83, 375-395.	1.2	34
26	Similarity solutions of boundary layer equations for second order fluids. International Journal of Engineering Science, 1992, 30, 611-629.	2.7	33
27	Similarity analysis of boundary layer equations of a class of non-Newtonian fluids. International Journal of Non-Linear Mechanics, 1994, 29, 187-196.	1.4	33
28	Two-to-one internal resonances in a shallow curved beam resting on an elastic foundation. Acta Mechanica, 2006, 185, 245-260.	1.1	33
29	Vibrations of a beam-mass systems using artificial neural networks. Computers and Structures, 1998, 69, 339-347.	2.4	32
30	Entropy Analysis for Non-Newtonian Fluid Flow in Annular Pipe: Constant Viscosity Case. Entropy, 2004, 6, 304-315.	1.1	32
31	Generation of root finding algorithms via perturbation theory and some formulas. Applied Mathematics and Computation, 2007, 184, 783-788.	1.4	32
32	Conventional and multiple deck boundary layer approach to second and third grade fluids. International Journal of Engineering Science, 1994, 32, 141-154.	2.7	31
33	Boundary layer equations and stretching sheet solutions for the modified second grade fluid. International Journal of Engineering Science, 2007, 45, 829-841.	2.7	31
34	New perturbationâ€iteration solutions for nonlinear heat transfer equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 814-828.	1.6	31
35	Boundary layer flow of power-law fluids past arbitrary profiles. IMA Journal of Applied Mathematics, 1993, 50, 133-148.	0.8	29
36	A general solution procedure for the forced vibrations of a system with cubic nonlinearities: Three-to-one internal resonances with external excitation. Journal of Sound and Vibration, 2010, 329, 2603-2615.	2.1	29

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37	LIE GROUP THEORY AND ANALYTICAL SOLUTIONS FOR THE AXIALLY ACCELERATING STRING PROBLEM. Journal of Sound and Vibration, 2000, 230, 729-742.	2.1	28
38	A New Perturbation Approach to Optimal Polynomial Regression. Mathematical and Computational Applications, 2016, 21, 1.	0.7	27
39	Similarity analysis of a nonlinear fin equation. Applied Mathematics Letters, 2006, 19, 378-384.	1.5	26
40	Group classification of fin equation with variable thermal properties. International Journal of Engineering Science, 2004, 42, 1875-1889.	2.7	25
41	Group ? theoretic approach to axially accelerating beam problem. Acta Mechanica, 2002, 155, 111-123.	1.1	24
42	A new perturbation solution for systems with strong quadratic and cubic nonlinearities. Mathematical Methods in the Applied Sciences, 2010, 33, 704-712.	1.2	24
43	Approximate symmetries of creeping flow equations of a second grade fluid. International Journal of Non-Linear Mechanics, 2004, 39, 1603-1619.	1.4	20
44	Group classification of a non-Newtonian fluid model using classical approach and equivalence transformations. International Journal of Non-Linear Mechanics, 1999, 34, 341-346.	1.4	19
45	VIBRATIONS OF CONTINUOUS SYSTEMS WITH A GENERAL OPERATOR NOTATION SUITABLE FOR PERTURBATIVE CALCULATIONS. Journal of Sound and Vibration, 2001, 246, 841-851.	2.1	19
46	Boundary layer theory for second order fluids. International Journal of Engineering Science, 1992, 30, 523-532.	2.7	18
47	Three-to-one internal resonances in a general cubic non-linear continuous system. Journal of Sound and Vibration, 2003, 268, 543-553.	2.1	18
48	A New Perturbation-Iteration Approach for First Order Differential Equations. Mathematical and Computational Applications, 2011, 16, 890-899.	0.7	17
49	Symmetry groups of boundary layer equations of a class of non-Newtonian fluids. International Journal of Non-Linear Mechanics, 1996, 31, 267-276.	1.4	16
50	The Analysis Approach of Boundary Layer Equations of Power-Law Fluids of Second Grade. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 564-570.	0.7	15
51	Perturbation solution for a third-grade fluid flowing between parallel plates. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008, 222, 653-656.	1.1	14
52	Analytical solution for non-equilibrium energy transfer in gold: Influence of ballistic contribution of electrons on energy transfer. International Journal of Thermal Sciences, 2009, 48, 383-390.	2.6	14
53	Vibrations of a Slightly Curved Microbeam Resting on an Elastic Foundation with Nonideal Boundary Conditions. Mathematical Problems in Engineering, 2013, 2013, 1-16.	0.6	13
54	Entropy Generation Due to the Flow of a Non-Newtonian Fluid with Variable Viscosity in a Circular Pipe. Heat Transfer Engineering, 2005, 26, 80-86.	1.2	12

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55	New Perturbation Iteration Solutions for Fredholm and Volterra Integral Equations. Journal of Applied Mathematics, 2013, 2013, 1-5.	0.4	12
56	A general solution procedure for coupled systems with arbitrary internal resonances. Mechanics Research Communications, 2001, 28, 617-622.	1.0	11
57	Analytical solution for temperature field in electron and lattice sub-systems during heating of solid film. Physica B: Condensed Matter, 2006, 382, 213-219.	1.3	11
58	Symmetries of boundary layer equations of power-law fluids of second grade. Acta Mechanica Sinica/Lixue Xuebao, 2008, 24, 661-670.	1.5	11
59	Boundary Layer Equations and Lie Group Analysis of a Sisko Fluid. Journal of Applied Mathematics, 2012, 2012, 1-9.	0.4	11
60	Principal parametric resonances of a general continuous system with cubic nonlinearities. Applied Mathematics and Computation, 2012, 219, 2412-2423.	1.4	11
61	Perturbation-Iteration Method for First-Order Differential Equations and Systems. Abstract and Applied Analysis, 2013, 2013, 1-6.	0.3	11
62	Free and Forced Vibrations of the Strongly Nonlinear Cubic-Quintic Duffing Oscillators. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 59-69.	0.7	11
63	Symmetries and approximate solution of energy transfer equations in short pulse laser heating. International Journal of Thermal Sciences, 2007, 46, 908-913.	2.6	10
64	Lie group analysis of a non-Newtonian fluid flow over a porous surface. Scientia Iranica, 2012, 19, 1534-1540.	0.3	10
65	Analytical solution for temperature field in thin film initially heated by a short-pulse laser source. Heat and Mass Transfer, 2005, 41, 1077-1084.	1.2	9
66	Similarity analysis of compressible boundary layers for arbitrary profiles. Mechanics Research Communications, 1992, 19, 399-406.	1.0	7
67	Continuous Systems with Odd Nonlinearities: A General Solution Procedure. Mathematical and Computational Applications, 1997, 2, 85-90.	0.7	7
68	The drag work minimization path for a flying object with altitude-dependent drag parameters. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 1113-1116.	1.1	7
69	Group classification for path equation describing minimum drag work and symmetry reductions. Applied Mathematics and Mechanics (English Edition), 2010, 31, 911-916.	1.9	7
70	Similarity Solutions for Boundary Layer Equations of a Powel-Eyring Fluid. Mathematical and Computational Applications, 2013, 18, 62-70.	0.7	7
71	A Comparison of Different Versions of the Method of Multiple Scales for an Arbitrary Model of Odd Nonlinearities. Mathematical and Computational Applications, 1999, 4, 273-282.	0.7	6
72	Strength of Wheat and Barley Stems and Design of New Beam/Columns. Mathematical and Computational Applications, 2010, 15, 1-13.	0.7	6

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73	Non-Linear Vibrations of a Microbeam Resting on an Elastic Foundation. Arabian Journal for Science and Engineering, 2013, 38, 1191-1199.	1.1	6
74	Stability Analysis of Rotating Blade Vibration due to Torsional Excitation. JVC/Journal of Vibration and Control, 2007, 13, 1379-1391.	1.5	5
75	Boundary Layer Theory and Symmetry Analysis of a Williamson Fluid. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 363-368.	0.7	5
76	Review of the New Perturbation-Iteration Method. Mathematical and Computational Applications, 2013, 18, 139-151.	0.7	5
77	Application of perturbationâ€“iteration method to Lotkaâ€“Volterra equations. AEJ - Alexandria Engineering Journal, 2016, 55, 1661-1666.	3.4	5
78	Perturbationâ€“iteration method for strongly nonlinear vibrations. JVC/Journal of Vibration and Control, 2017, 23, 959-969.	1.5	5
79	Comparison of higher order versions of the method of multiple scales for an odd non-linearity problem. Journal of Sound and Vibration, 2003, 262, 989-998.	2.1	4
80	Estimating roots of polynomials using perturbation theory. Applied Mathematics and Computation, 2007, 188, 2025-2028.	1.4	4
81	Optimum Path of a Flying Object with Exponentially Decaying Density Medium. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 431-438.	0.7	4
82	Perturbation theorems for estimating magnitudes of roots of polynomials. Applied Mathematics and Computation, 2010, 216, 1645-1651.	1.4	4
83	Mathematical design of a highway exit curve. International Journal of Mathematical Education in Science and Technology, 2016, 47, 132-139.	0.8	4
84	Effect of Viscoelasticity on the Natural Frequencies of Axially Moving Continua. Advances in Mechanical Engineering, 2013, 5, 169598.	0.8	4
85	Application of the perturbation iteration method to boundary layer type problems. SpringerPlus, 2016, 5, 208.	1.2	3
86	Parallel Plate Flow of a Third-Grade Fluid and a Newtonian Fluid With Variable Viscosity. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 595-606.	0.7	3
87	Rain problem for a moving object. International Journal of Mathematical Education in Science and Technology, 1993, 24, 121-129.	0.8	2
88	Group-Theoretic Approach to Boundary Layer Equations of an Oldroy-B Fluid. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 785-790.	0.7	2
89	Precession of a Planet with the Multiple Scales Lindstedtâ€“Poincare Technique. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 829-834.	0.7	2
90	Analytical and Numerical Solutions of a Generalized Hyperbolic Non-Newtonian Fluid Flow. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 151-160.	0.7	1

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91	Symmetry Analysis of Boundary Layer Equations of an Upper Convected Maxwell Fluid with Magnetohydrodynamic Flow. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2011, 66, 321-328.	0.7	1
92	Cooling Intensification of a Continuously Moving Stretching Surface Using Different Types of Nanofluids. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.4	1
93	Effects of non-ideal boundary conditions on the vibrations of a slightly curved micro beam. , 2012, , .		1
94	Magnetohydrodynamic and Slip Effects on the Flow and Mass Transfer over a Microcantilever-Based Sensor. Journal of Applied Mathematics, 2012, 2012, 1-11.	0.4	1
95	Lie Group Analysis of Unsteady Flow and Heat Transfer over a Porous Surface for a Viscous Fluid. Journal of Applied Mathematics, 2012, 2012, 1-17.	0.4	1
96	A comprehensive perturbation theorem for estimating magnitudes of roots of polynomials. LMS Journal of Computation and Mathematics, 2013, 16, 1-8.	0.9	1
97	Does religion contradict science?. American Journal of Physics, 1993, 61, 201-202.	0.3	0
98	Optimum velocity for a person moving under rain. International Journal of Mathematical Education in Science and Technology, 2000, 31, 939-946.	0.8	0
99	A Geometrical Optimization Problem Associated with Fruits of Poppy Flower. Mathematical and Computational Applications, 2009, 14, 169-175.	0.7	0
100	An application of calculus: optimum parabolic path problem. Teaching Mathematics and Its Applications, 2009, 28, 123-130.	0.7	0
101	Non-Newtonian fluid effects on surface reactions in a microfluidic flow cell. , 2012, , .		0
102	Symmetries, Differential Equations, and Applications: Galois Bicentenary. Journal of Applied Mathematics, 2013, 2013, 1-1.	0.4	0
103	Solution of a quadratic nonlinear problem with multiple scales Lindstedt-Poincare method. AIP Conference Proceedings, 2015, , .	0.3	0
104	Determining the velocities and angles for a free kick problem. Canadian Journal of Physics, 2015, 93, 1434-1438.	0.4	0
105	Preface of the â€œMinisymposium on Applied Symmetries and Perturbation Methodsâ€. AIP Conference Proceedings, 2016, , .	0.3	0
106	Perturbation iteration method solutions of a nonlinear fin equation. AIP Conference Proceedings, 2016, , .	0.3	0
107	New approximate solutions for the strongly nonlinear cubic-quintic duffing oscillators. AIP Conference Proceedings, 2016, , .	0.3	0
108	Nonlinear mathematical models for paths maintaining constant normal accelerations. AIP Conference Proceedings, 2017, , .	0.3	0