

# Neville Ford

## List of Publications by Citations

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51  
papers

5,076  
citations

25  
h-index

55  
g-index

55  
ext. papers

5,717  
ext. citations

2.4  
avg, IF

5.73  
L-index

#	Paper	IF	Citations
51	A Predictor-Corrector Approach for the Numerical Solution of Fractional Differential Equations. <i>Nonlinear Dynamics</i> , <b>2002</b> , 29, 3-22	5	1417
50	Analysis of Fractional Differential Equations. <i>Journal of Mathematical Analysis and Applications</i> , <b>2002</b> , 265, 229-248	1.1	955
49	Detailed Error Analysis for a Fractional Adams Method. <i>Numerical Algorithms</i> , <b>2004</b> , 36, 31-52	2.1	561
48	Algorithms for the fractional calculus: A selection of numerical methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2005</b> , 194, 743-773	5.7	445
47	Multi-order fractional differential equations and their numerical solution. <i>Applied Mathematics and Computation</i> , <b>2004</b> , 154, 621-640	2.7	189
46	The numerical solution of fractional differential equations: Speed versus accuracy. <i>Numerical Algorithms</i> , <b>2001</b> , 26, 333-346	2.1	160
45	Numerical analysis for distributed-order differential equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2009</b> , 225, 96-104	2.4	132
44	The numerical solution of linear multi-term fractional differential equations: systems of equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2002</b> , 148, 401-418	2.4	129
43	A finite element method for time fractional partial differential equations. <i>Fractional Calculus and Applied Analysis</i> , <b>2011</b> , 14,	2.7	123
42	Pitfalls in fast numerical solvers for fractional differential equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2006</b> , 186, 482-503	2.4	96
41	Analysis and numerical methods for fractional differential equations with delay. <i>Journal of Computational and Applied Mathematics</i> , <b>2013</b> , 252, 159-168	2.4	87
40	Fractional boundary value problems: Analysis and numerical methods. <i>Fractional Calculus and Applied Analysis</i> , <b>2011</b> , 14,	2.7	61
39	Higher order numerical methods for solving fractional differential equations. <i>BIT Numerical Mathematics</i> , <b>2014</b> , 54, 555-584	1.7	59
38	Distributed order equations as boundary value problems. <i>Computers and Mathematics With Applications</i> , <b>2012</b> , 64, 2973-2981	2.7	47
37	A genetic-algorithm approach to simulating human immunodeficiency virus evolution reveals the strong impact of multiply infected cells and recombination. <i>Journal of General Virology</i> , <b>2005</b> , 86, 3109-3118	4.9	47
36	Collocation methods for fractional integro-differential equations with weakly singular kernels. <i>Numerical Algorithms</i> , <b>2014</b> , 65, 723-743	2.1	46
35	Nonpolynomial collocation approximation of solutions to fractional differential equations. <i>Fractional Calculus and Applied Analysis</i> , <b>2013</b> , 16, 874-891	2.7	44

34	Systems-based decomposition schemes for the approximate solution of multi-term fractional differential equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2009</b> , 229, 382-391	2.4	42
33	Determining control parameters for dendritic cell-cytotoxic T lymphocyte interaction. <i>European Journal of Immunology</i> , <b>2004</b> , 34, 2407-18	6.1	40
32	Stability properties of a scheme for the approximate solution of a delay-integro-differential equation. <i>Applied Numerical Mathematics</i> , <b>1992</b> , 9, 357-370	2.5	40
31	Numerical solution for diffusion equations with distributed order in time using a Chebyshev collocation method. <i>Applied Numerical Mathematics</i> , <b>2017</b> , 114, 108-123	2.5	32
30	Fractional Pennes-Bioheat Equation: Theoretical and Numerical Studies. <i>Fractional Calculus and Applied Analysis</i> , <b>2015</b> , 18, 1080-1106	2.7	28
29	A numerical method for the fractional Schrödinger type equation of spatial dimension two. <i>Fractional Calculus and Applied Analysis</i> , <b>2013</b> , 16,	2.7	25
28	Numerical analysis of a two-parameter fractional telegraph equation. <i>Journal of Computational and Applied Mathematics</i> , <b>2013</b> , 249, 95-106	2.4	25
27	Mixed-type functional differential equations: A numerical approach. <i>Journal of Computational and Applied Mathematics</i> , <b>2009</b> , 229, 471-479	2.4	25
26	Error estimates of a high order numerical method for solving linear fractional differential equations. <i>Applied Numerical Mathematics</i> , <b>2017</b> , 114, 201-220	2.5	21
25	A nonpolynomial collocation method for fractional terminal value problems. <i>Journal of Computational and Applied Mathematics</i> , <b>2015</b> , 275, 392-402	2.4	21
24	High Order Numerical Methods for Fractional Terminal Value Problems. <i>Computational Methods in Applied Mathematics</i> , <b>2014</b> , 14, 55-70	1.2	17
23	Numerical methods for a Volterra integral equation with non-smooth solutions. <i>Journal of Computational and Applied Mathematics</i> , <b>2006</b> , 189, 412-423	2.4	17
22	New approach to the numerical solution of forward-backward equations. <i>Frontiers of Mathematics in China</i> , <b>2009</b> , 4, 155-168	0.8	16
21	Analytical and numerical investigation of mixed-type functional differential equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2010</b> , 234, 2826-2837	2.4	14
20	Finite element solution of a linear mixed-type functional differential equation. <i>Numerical Algorithms</i> , <b>2010</b> , 55, 301-320	2.1	13
19	Some Applications of the Boundary-Locus Method and the Method of D-Partitions. <i>IMA Journal of Numerical Analysis</i> , <b>1991</b> , 11, 143-158	1.8	13
18	The numerical solution of forward-backward differential equations: Decomposition and related issues. <i>Journal of Computational and Applied Mathematics</i> , <b>2010</b> , 234, 2745-2756	2.4	10
17	How do numerical methods perform for delay differential equations undergoing a Hopf bifurcation?. <i>Journal of Computational and Applied Mathematics</i> , <b>2000</b> , 125, 277-285	2.4	9

16	Nonlinear Volterra Integro-Differential Equations Stability and Numerical Stability of $\square$ Methods. <i>Journal of Integral Equations and Applications</i> , <b>1998</b> , 10, 397	1.2	9
15	Boundedness and stability of solutions to difference equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2002</b> , 140, 275-289	2.4	8
14	Numerical analysis of a singular integral equation. <i>Applied Mathematics and Computation</i> , <b>2005</b> , 167, 372-382	2.7	8
13	On the Decay of the Elements of Inverse Triangular Toeplitz Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2014</b> , 35, 1288-1302	1.5	7
12	Mathematical modelling of plant species interactions in a harsh climate. <i>Journal of Computational and Applied Mathematics</i> , <b>2010</b> , 234, 2732-2744	2.4	7
11	BIFURCATIONS IN APPROXIMATE SOLUTIONS OF STOCHASTIC DELAY DIFFERENTIAL EQUATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2004</b> , 14, 2999-3021	2	7
10	Computational methods for a mathematical model of propagation of nerve impulses in myelinated axons. <i>Applied Numerical Mathematics</i> , <b>2014</b> , 85, 38-53	2.5	6
9	Analytical and numerical treatment of oscillatory mixed differential equations with differentiable delays and advances. <i>Journal of Computational and Applied Mathematics</i> , <b>2011</b> , 235, 5112-5130	2.4	3
8	Flexible parallelization of fast wavelet transforms. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , <b>2003</b> , 18, 155-169		3
7	BIFURCATIONS IN NUMERICAL METHODS FOR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2003</b> , 13, 3255-3271	2	3
6	Characterising small solutions in delay differential equations through numerical approximations. <i>Applied Mathematics and Computation</i> , <b>2002</b> , 131, 253-270	2.7	3
5	Numerical investigation of noise induced changes to the solution behaviour of the discrete FitzHugh-Nagumo equation. <i>Applied Mathematics and Computation</i> , <b>2017</b> , 293, 448-460	2.7	2
4	High-Order Methods for Systems of Fractional Ordinary Differential Equations and Their Application to Time-Fractional Diffusion Equations. <i>Mathematics in Computer Science</i> , <b>2021</b> , 15, 535	0.5	2
3	Numerical modelling of qualitative behaviour of solutions to convolution integral equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2007</b> , 205, 849-858	2.4	1
2	An algorithm to detect small solutions in linear delay differential equations. <i>Journal of Computational and Applied Mathematics</i> , <b>2006</b> , 193, 121-139	2.4	1
1	Noise-induced changes to the behaviour of semi-implicit Euler methods for stochastic delay differential equations undergoing bifurcation. <i>Journal of Computational and Applied Mathematics</i> , <b>2009</b> , 229, 462-470	2.4	