William McLean

List of Publications by Year
in descending order

41 papers	1,534 citations	361296 20 h-index	345118 36 g-index
42 all docs	42 docs citations	42 times ranked	518 citing authors

#	Article	IF	Citations
1	Uniform stability for a spatially discrete, subdiffusive Fokker–Planck equation. Numerical Algorithms, 2022, 89, 1441-1463.	1.1	3
2	A mixed finite element method for the Poisson problem using a biorthogonal system with <scp>Raviart–Thomas</scp> elements. Numerical Methods for Partial Differential Equations, 2021, 37, 2429-2445.	2.0	0
3	Numerical evaluation of Mittag-Leffler functions. Calcolo, 2021, 58, 1.	0.6	4
4	Regularity theory for time-fractional advection–diffusion–reaction equations. Computers and Mathematics With Applications, 2020, 79, 947-961.	1.4	26
5	IMPLEMENTATION OF HIGH-ORDER, DISCONTINUOUS GALERKIN TIME STEPPING FOR FRACTIONAL DIFFUSION PROBLEMS. ANZIAM Journal, 2020, 62, 121-147.	0.3	4
6	Well-Posedness of Time-Fractional Advection-Diffusion-Reaction Equations. Fractional Calculus and Applied Analysis, 2019, 22, 918-944.	1.2	31
7	A Discrete Grönwall Inequality with Applications to Numerical Schemes for Subdiffusion Problems. SIAM Journal on Numerical Analysis, 2019, 57, 218-237.	1.1	200
8	Existence, uniqueness and regularity of the solution of the time-fractional Fokker–Planck equation with general forcing. Communications on Pure and Applied Analysis, 2019, 18, 2765-2787.	0.4	21
9	A Semidiscrete Finite Element Approximation of a Time-Fractional Fokker--Planck Equation with NonSmooth Initial Data. SIAM Journal of Scientific Computing, 2018, 40, A3831-A3852.	1.3	11
10	Exponential Sum Approximations for $t^{-\beta}$. , 2018, , 911-930.		14
11	FINITE ELEMENT APPROXIMATION OF A TIME-FRACTIONAL DIFFUSION PROBLEM FOR A DOMAIN WITH A RE-ENTRANT CORNER. ANZIAM Journal, 2017, 59, 61-82.	0.3	6
12	Fractional Euler Limits and their Applications. SIAM Journal on Applied Mathematics, 2017, 77, 447-469.	0.8	5
13	Numerical Solution of the Time-Fractional Fokker--Planck Equation with General Forcing. SIAM Journal on Numerical Analysis, 2016, 54, 1763-1784.	1.1	52
14	Time-stepping error bounds for fractional diffusion problems with non-smooth initial data. Journal of Computational Physics, 2015, 293, 201-217.	1.9	60
15	Solving the heat equation on the unit sphere via Laplace transforms and radial basis functions. Advances in Computational Mathematics, 2014, 40, 353-375.	0.8	12
16	Superconvergence of a Discontinuous Galerkin Method for Fractional Diffusion and Wave Equations. SIAM Journal on Numerical Analysis, 2013, 51, 491-515.	1.1	152
17	Transient photoluminescence from silicon wafers: Finite element analysis. Journal of Applied Physics, 2013, 114, 163105.	1.1	8
18	COMPUTING THE HAUSDORFF DISTANCE BETWEEN TWO SETS OF PARAMETRIC CURVES. Communications of the Korean Mathematical Society, 2013, 28, 833-850.	0.2	8

#	Article	IF	Citations
19	Fast Summation by Interval Clustering for an Evolution Equation with Memory. SIAM Journal of Scientific Computing, 2012, 34, A3039-A3056.	1.3	31
20	Uniform convergence for a discontinuous Galerkin, time-stepping method applied to a fractional diffusion equation. IMA Journal of Numerical Analysis, 2012, 32, 906-925.	1.5	55
21	Piecewise-linear, discontinuous Galerkin method for a fractional diffusion equation. Numerical Algorithms, 2011, 56, 159-184.	1.1	73
22	ITERATIVE SOLUTION OF SHIFTED POSITIVE-DEFINITE LINEAR SYSTEMS ARISING IN A NUMERICAL METHOD FOR THE HEAT EQUATION BASED ON LAPLACE TRANSFORMATION AND QUADRATURE. ANZIAM Journal, 2011, 53, 134-155.	0.3	2
23	Numerical solution via Laplace transforms of a fractional order evolution equation. Journal of Integral Equations and Applications, 2010, 22, .	0.2	86
24	Maximum-norm error analysis of a numerical solution via Laplace transformation and quadrature of a fractional-order evolution equation. IMA Journal of Numerical Analysis, 2010, 30, 208-230.	1.5	50
25	REGULARITY OF SOLUTIONS TO A TIME-FRACTIONAL DIFFUSION EQUATION. ANZIAM Journal, 2010, 52, 123-138.	0.3	116
26	Convergence analysis of a discontinuous Galerkin method for a sub-diffusion equation. Numerical Algorithms, 2009, 52, 69-88.	1.1	83
27	Discontinuous Galerkin method for an evolution equation with a memory term of positive type. Mathematics of Computation, 2009, 78, 1975-1995.	1.1	51
28	Anisotropic Mesh Refinement: The Conditioning of Galerkin Boundary Element Matrices and Simple Preconditioners. SIAM Journal on Numerical Analysis, 2006, 44, 1487-1513.	1.1	23
29	Time discretization via Laplace transformation of an integro-differential equation of parabolic type. Numerische Mathematik, 2006, 102, 497-522.	0.9	45
30	A second-order accurate numerical method for a fractional wave equation. Numerische Mathematik, 2006, 105, 481-510.	0.9	132
31	A New Boundary Element Method for the Biharmonic Equation with Dirichlet Boundary Conditions. Advances in Computational Mathematics, 2003, 19, 339-354.	0.8	6
32	Multilevel diagonal scaling preconditioners for boundary element equations on locally refined meshes. Numerische Mathematik, 2003, 93, 387-413.	0.9	16
33	The Conditioning of Boundary Element Equations on Locally Refined Meshes and Preconditioning by Diagonal Scaling. SIAM Journal on Numerical Analysis, 1999, 36, 1901-1932.	1.1	72
34	Fully-Discrete Collocation Methods for an Integral Equation of the First Kind. Journal of Integral Equations and Applications, 1994, 6, .	0.2	5
35	Spline collocation for strongly elliptic equations on the torus. Numerische Mathematik, 1992, 62, 511-538.	0.9	23
36	Local and Global Descriptions of Periodic Pseudodifferential Operators. Mathematische Nachrichten, 1991, 150, 151-161.	0.4	42

#	Article	IF	Citations
37	HÃ¶lder estimates for the cauchy integral on a Lipschitz contour. Journal of Integral Equations and Applications, 1988, 1, .	0.2	3
38	Implementation of high-order, discontinuous Galerkin time stepping for fractional diffusion problems. ANZIAM Journal, 0, 62, 121-147.	0.0	0
39	Regularity of solutions to a time-fractional diffusion equation. ANZIAM Journal, 0, 52, 123.	0.0	1
40	Numerical solution of a parabolic equation on the sphere using Laplace transforms and radial basis functions. ANZIAM Journal, 0, 51, 89.	0.0	1
41	Finite element approximation of a time-fractional diffusion problem for a domain with a re-entrant corner. ANZIAM Journal, 0, 59, 61.	0.0	0