## William McLean

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5809510/publications.pdf

Version: 2024-02-01

41 papers

1,534 citations

361296 20 h-index 36 g-index

42 all docs 42 docs citations

42 times ranked

518 citing authors

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A Discrete Gr $\tilde{A}$ ¶nwall Inequality with Applications to Numerical Schemes for Subdiffusion Problems. SIAM Journal on Numerical Analysis, 2019, 57, 218-237.                          | 1.1 | 200       |
| 2  | Superconvergence of a Discontinuous Galerkin Method for Fractional Diffusion and Wave Equations. SIAM Journal on Numerical Analysis, 2013, 51, 491-515.                                       | 1.1 | 152       |
| 3  | A second-order accurate numerical method for a fractional wave equation. Numerische Mathematik, 2006, 105, 481-510.   | 0.9 | 132       |
| 4  | REGULARITY OF SOLUTIONS TO A TIME-FRACTIONAL DIFFUSION EQUATION. ANZIAM Journal, 2010, 52, 123-138.   | 0.3 | 116       |
| 5  | Numerical solution via Laplace transforms of a fractional order evolution equation. Journal of Integral Equations and Applications, 2010, 22, .   | 0.2 | 86        |
| 6  | Convergence analysis of a discontinuous Galerkin method for a sub-diffusion equation. Numerical Algorithms, 2009, 52, 69-88.  | 1.1 | 83        |
| 7  | Piecewise-linear, discontinuous Galerkin method for a fractional diffusion equation. Numerical Algorithms, 2011, 56, 159-184.   | 1.1 | 73        |
| 8  | 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        |
| 9  | Time-stepping error bounds for fractional diffusion problems with non-smooth initial data. Journal of Computational Physics, 2015, 293, 201-217.  | 1.9 | 60        |
| 10 | 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        |
| 11 | Numerical Solution of the Time-Fractional FokkerPlanck Equation with General Forcing. SIAM Journal on Numerical Analysis, 2016, 54, 1763-1784.  | 1.1 | 52        |
| 12 | Discontinuous Galerkin method for an evolution equation with a memory term of positive type. Mathematics of Computation, 2009, 78, 1975-1995.   | 1.1 | 51        |
| 13 | 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        |
| 14 | Time discretization via Laplace transformation of an integro-differential equation of parabolic type. Numerische Mathematik, 2006, 102, 497-522.  | 0.9 | 45        |
| 15 | Local and Global Descriptions of Periodic Pseudodifferential Operators. Mathematische Nachrichten, 1991, 150, 151-161.  | 0.4 | 42        |
| 16 | Fast Summation by Interval Clustering for an Evolution Equation with Memory. SIAM Journal of Scientific Computing, 2012, 34, A3039-A3056.   | 1.3 | 31        |
| 17 | Well-Posedness of Time-Fractional Advection-Diffusion-Reaction Equations. Fractional Calculus and Applied Analysis, 2019, 22, 918-944.  | 1.2 | 31        |
| 18 | Regularity theory for time-fractional advection–diffusion–reaction equations. Computers and Mathematics With Applications, 2020, 79, 947-961.   | 1.4 | 26        |

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|----|---|-----|-----------|
| 19 | Spline collocation for strongly elliptic equations on the torus. Numerische Mathematik, 1992, 62, 511-538.  | 0.9 | 23        |
| 20 | 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        |
| 21 | 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        |
| 22 | Multilevel diagonal scaling preconditioners for boundary element equations on locally refined meshes. Numerische Mathematik, 2003, 93, 387-413.   | 0.9 | 16        |
| 23 | Exponential Sum Approximations for $\hat{t}^2$ , 2018, , 911-930.   |     | 14        |
| 24 | 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        |
| 25 | A Semidiscrete Finite Element Approximation of a Time-Fractional FokkerPlanck Equation with NonSmooth Initial Data. SIAM Journal of Scientific Computing, 2018, 40, A3831-A3852.                      | 1.3 | 11        |
| 26 | Transient photoluminescence from silicon wafers: Finite element analysis. Journal of Applied Physics, 2013, 114, 163105.  | 1.1 | 8         |
| 27 | COMPUTING THE HAUSDORFF DISTANCE BETWEEN TWO SETS OF PARAMETRIC CURVES. Communications of the Korean Mathematical Society, 2013, 28, 833-850.   | 0.2 | 8         |
| 28 | A New Boundary Element Method for the Biharmonic Equation with Dirichlet Boundary Conditions. Advances in Computational Mathematics, 2003, 19, 339-354.   | 0.8 | 6         |
| 29 | 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         |
| 30 | Fractional Euler Limits and their Applications. SIAM Journal on Applied Mathematics, 2017, 77, 447-469.   | 0.8 | 5         |
| 31 | Fully-Discrete Collocation Methods for an Integral Equation of the First Kind. Journal of Integral Equations and Applications, 1994, 6, .   | 0.2 | 5         |
| 32 | Numerical evaluation of Mittag-Leffler functions. Calcolo, 2021, 58, 1.   | 0.6 | 4         |
| 33 | IMPLEMENTATION OF HIGH-ORDER, DISCONTINUOUS GALERKIN TIME STEPPING FOR FRACTIONAL DIFFUSION PROBLEMS. ANZIAM Journal, 2020, 62, 121-147.  | 0.3 | 4         |
| 34 | Uniform stability for a spatially discrete, subdiffusive Fokker–Planck equation. Numerical Algorithms, 2022, 89, 1441-1463.   | 1.1 | 3         |
| 35 | $H\tilde{A}\P$ lder estimates for the cauchy integral on a Lipschitz contour. Journal of Integral Equations and Applications, 1988, 1, .  | 0.2 | 3         |
| 36 | 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         |

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|----|--|-----|-----------|
| 37 | Regularity of solutions to a time-fractional diffusion equation. ANZIAM Journal, 0, 52, 123.   | 0.0 | 1         |
| 38 | Numerical solution of a parabolic equation on the sphere using Laplace transforms and radial basis functions. ANZIAM Journal, 0, 51, 89.   | 0.0 | 1         |
| 39 | A mixed finite element method for the Poisson problem using a biorthogonal system with<br><scp>Raviart–Thomas</scp> elements. Numerical Methods for Partial Differential Equations, 2021, 37, 2429-2445. | 2.0 | O         |
| 40 | Implementation of high-order, discontinuous Galerkin time stepping for fractional diffusion problems. ANZIAM Journal, 0, 62, 121-147.  | 0.0 | 0         |
| 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         |