Martin Stynes

List of Publications by Year
in descending order

147 papers	5,171 citations	101543 36 h-index	106344 65 g-index
151 all docs	151 docs citations	151 times ranked	1284 citing authors

#	Article	IF	Citations
1	Numerical Methods for Singularly Perturbed Differential Equations. Springer Series in Computational Mathematics, 1996, , .	0.2	609
2	Error Analysis of a Finite Difference Method on Graded Meshes for a Time-Fractional Diffusion Equation. SIAM Journal on Numerical Analysis, 2017, 55, 1057-1079.	2.3	577
3	Numerical Treatment of Partial Differential Equations. , 2007, , .		191
4	Steady-state convection-diffusion problems. Acta Numerica, 2005, 14, 445-508.	10.7	141
5	The midpoint upwind scheme. Applied Numerical Mathematics, 1997, 23, 361-374.	2.1	123
6	Asymptotic Analysis and Shishkin-Type Decomposition for an Elliptic Convectionâ€"Diffusion Problem. Journal of Mathematical Analysis and Applications, 2001, 261, 604-632.	1.0	116
7	Too Much Regularity May Force Too Much Uniqueness. Fractional Calculus and Applied Analysis, 2016, 19, 1554-1562.	2.2	113
8	A Uniformly Convergent Galerkin Method on a Shishkin Mesh for a Convection-Diffusion Problem. Journal of Mathematical Analysis and Applications, 1997, 214, 36-54.	1.0	108
9	On the stability of residual-free bubbles for convection-diffusion problems and their approximation by a two-level finite element method. Computer Methods in Applied Mechanics and Engineering, 1998, 166, 35-49.	6.6	104
10	A Robust Adaptive Method for a Quasi-Linear One-Dimensional Convection-Diffusion Problem. SIAM Journal on Numerical Analysis, 2001, 39, 1446-1467.	2.3	104
11	The SDFEM for a Convection-Diffusion Problem with a Boundary Layer: Optimal Error Analysis and Enhancement of Accuracy. SIAM Journal on Numerical Analysis, 2003, 41, 1620-1642.	2.3	103
12	Error Analysis of a Second-Order Method on Fitted Meshes for a Time-Fractional Diffusion Problem. Journal of Scientific Computing, 2019, 79, 624-647.	2.3	96
13	Why Fractional Derivatives with Nonsingular Kernels Should Not Be Used. Fractional Calculus and Applied Analysis, 2020, 23, 610-634.	2.2	88
14	A Balanced Finite Element Method for Singularly Perturbed Reaction-Diffusion Problems. SIAM Journal on Numerical Analysis, 2012, 50, 2729-2743.	2.3	69
15	Corner singularities and boundary layers in a simple convectionâ€"diffusion problem. Journal of Differential Equations, 2005, 213, 81-120.	2.2	67
16	A hybrid difference scheme on a Shishkin mesh for linear convectionâ€"diffusion problems. Applied Numerical Mathematics, 1999, 31, 255-270.	2.1	62
17	Numerical methods on Shishkin meshes for linear convectionâ€"diffusion problems. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 3527-3542.	6.6	60
18	Blow-up of error estimates in time-fractional initial-boundary value problems. IMA Journal of Numerical Analysis, 2021, 41, 974-997.	2.9	60

#	Article	IF	Citations
19	Numerical methods for time-dependent convection-diffusion equations. Journal of Computational and Applied Mathematics, 1988, 21, 289-310.	2.0	58
20	Finite-element methods for singularly perturbed high-order elliptic two-point boundary value problems. I: reaction-diffusion-type problems. IMA Journal of Numerical Analysis, 1995, 15, 117-139.	2.9	56
21	A finite difference method for a two-point boundary value problem with a Caputo fractional derivative. IMA Journal of Numerical Analysis, 2015, 35, 698-721.	2.9	56
22	Richardson extrapolation for a convectionâ€"diffusion problem using a Shishkin mesh. Applied Numerical Mathematics, 2003, 45, 315-329.	2.1	49
23	Uniformly convergent difference schemes for singularly perturbed parabolic diffusion-convection problems without turning points. Numerische Mathematik, 1989, 55, 521-544.	1.9	48
24	A finite element method for a singularly perturbed boundary value problem. Numerische Mathematik, 1986, 50, 1-15.	1.9	47
25	A Uniformly Accurate Finite-Element Method for a Singularly Perturbed One-Dimensional Reaction-Diffusion Problem. Mathematics of Computation, 1986, 47, 555.	2.1	46
26	A finite difference analysis of a streamline diffusion method on a Shishkin mesh. Numerical Algorithms, 1998, 18, 337-360.	1.9	45
27	Sharpened bounds for corner singularities and boundary layers in a simple convectionâ€"diffusion problem. Applied Mathematics Letters, 2007, 20, 539-544.	2.7	44
28	On faster convergence of the bisection method for all triangles. Mathematics of Computation, 1980, 35, 1195-1195.	2.1	43
29	A globally uniformly convergent finite element method for a singularly perturbed elliptic problem in two dimensions. Mathematics of Computation, 1991, 57, 47-47.	2.1	43
30	A Globally Uniformly Convergent Finite Element Method for a Singularly Perturbed Elliptic Problem in Two Dimensions. Mathematics of Computation, 1991, 57, 47.	2.1	43
31	Grid equidistribution for reactionâ€"diffusion problems in one dimension. Numerical Algorithms, 2005, 40, 305-322.	1.9	43
32	Collocation Methods for General Caputo Two-Point Boundary Value Problems. Journal of Scientific Computing, 2018, 76, 390-425.	2.3	43
33	A two-scale sparse grid method for a singularly perturbed reaction-diffusion problem in two dimensions. IMA Journal of Numerical Analysis, 2009, 29, 986-1007.	2.9	42
34	An efficient collocation method for a Caputo two-point boundary value problem. BIT Numerical Mathematics, 2015, 55, 1105-1123.	2.0	41
35	Convergence in Positive Time for a Finite Difference Method Applied to a Fractional Convection-Diffusion Problem. Computational Methods in Applied Mathematics, 2018, 18, 33-42.	0.8	41
36	The sdfem on Shishkin meshes for linear convection-diffusion problems. Numerische Mathematik, 2001, 87, 457-484.	1.9	38

#	Article	IF	Citations
37	A Comparison of Uniformly Convergent Difference Schemes for Two-Dimensional Convectionâ€"Diffusion Problems. Journal of Computational Physics, 1993, 105, 24-32.	3.8	37
38	Using rectangular elements in the SDFEM for a convectionâ€“diffusion problem with a boundary layer. Applied Numerical Mathematics, 2008, 58, 1789-1802.	2.1	35
39	Numerical analysis of a singularly perturbed nonlinear reactionâ€“diffusion problem with multiple solutions. Applied Numerical Mathematics, 2004, 51, 273-288.	2.1	33
40	Fractional-order derivatives defined by continuous kernels are too restrictive. Applied Mathematics Letters, 2018, 85, 22-26.	2.7	33
41	Optimal $$L^infty (L^2)$$ L âˆž (L 2) error analysis of a direct discontinuous Galerkin method for a time-fractional reaction-diffusion problem. BIT Numerical Mathematics, 2018, 58, 661-690.	2.0	33
42	Numerical Solution of Systems of Singularly Perturbed Differential Equations. Computational Methods in Applied Mathematics, 2009, 9, 165-191.	0.8	32
43	Central difference approximation of convection in Caputo fractional derivative two-point boundary value problems. Journal of Computational and Applied Mathematics, 2015, 273, 103-115.	2.0	32
44	Analysis and numerical solution of a Riemann-Liouville fractional derivative two-point boundary value problem. Advances in Computational Mathematics, 2017, 43, 77-99.	1.6	32
45	Good (and Not So Good) Practices in Computational Methods for Fractional Calculus. Mathematics, 2020, 8, 324.	2.2	32
46	On faster convergence of the bisection method for certain triangles. Mathematics of Computation, 1979, 33, 717-721.	2.1	31
47	A finite difference method on layer-adapted meshes for an elliptic reaction-diffusion system in two dimensions. Mathematics of Computation, 2008, 77, 2085-2096.	2.1	31
48	Some Open Questions in the Numerical Analysis of Singularly Perturbed Differential Equations. Computational Methods in Applied Mathematics, 2015, 15, 531-550.	0.8	30
49	Optimal spatial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1279" altimg="si15.svg"><mml:msup><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></ analysis of a finite element method for a time-fractional diffusion equation. Journal of Computational and Applied Mathematics, 2020, 367, 112435.	2.0	30
50	Superconvergence of a Finite Element Method for the Multi-term Time-Fractional Diffusion Problem. Journal of Scientific Computing, 2020, 82, 1.	2.3	30
51	A parameter-robust numerical method for a system of reactionâ€“diffusion equations in two dimensions. Numerical Methods for Partial Differential Equations, 2008, 24, 312-334.	3.6	28
52	Numerical analysis of a strongly coupled system of two singularly perturbed convectionâ€“diffusion problems. Advances in Computational Mathematics, 2009, 30, 101-121.	1.6	27
53	A Fitted Scheme for a Caputo Initial-Boundary Value Problem. Journal of Scientific Computing, 2018, 76, 583-609.	2.3	27
54	An analysis of the GrÃ¼nwaldâ€“Letnikov scheme for initial-value problems with weakly singular solutions. Applied Numerical Mathematics, 2019, 139, 52-61.	2.1	27

#	Article	IF	Citations
55	An analysis of a singularly perturbed two-point boundary value problem using only finite element techniques. Mathematics of Computation, 1991, 56, 663-675.	2.1	26
56	The streamline-diffusion method for nonconforming Qrot1 elements on rectangular tensor-product meshes. IMA Journal of Numerical Analysis, 2001, 21, 123-142.	2.9	26
57	Error Analysis of a Finite Difference Method on Graded Meshes for a Multiterm Time-Fractional Initial-Boundary Value Problem. Computational Methods in Applied Mathematics, 2020, 20, 815-825.	0.8	26
58	An almost fourth order uniformly convergent difference scheme for a semilinear singularly perturbed reaction-diffusion problem. Numerische Mathematik, 1995, 70, 487-500.	1.9	25
59	Approximation of derivatives in a convectionâ€"diffusion two-point boundary value problem. Applied Numerical Mathematics, 2001, 39, 47-60.	2.1	25
60	Î±-robust error analysis of a mixed finite element method for a time-fractional biharmonic equation. Numerical Algorithms, 2021, 87, 1749-1766.	1.9	25
61	A Uniformly Accurate Finite Element Method for a Singular Perturbation Problem in Conservative Form. SIAM Journal on Numerical Analysis, 1986, 23, 369-375.	2.3	24
62	Optimal H1 spatial convergence of a fully discrete finite element method for the time-fractional Allen-Cahn equation. Advances in Computational Mathematics, 2020, 46, 1.	1.6	24
63	An algorithm for numerical calculation of topological degree. Applicable Analysis, 1979, 9, 63-77.	1.3	23
64	Finite element methods on piecewise equidistant meshes for interior turning point problems. Numerical Algorithms, 1994, 8, 111-129.	1.9	23
65	A simpler analysis of a hybrid numerical method for time-dependent convectionâ€"diffusion problems. Journal of Computational and Applied Mathematics, 2011, 235, 5240-5248.	2.0	23
66	An Analysis of a Superconvergence Result for a Singularly Perturbed Boundary Value Problem. Mathematics of Computation, 1986, 46, 81.	2.1	22
67	Collocation methods for general Riemann-Liouville two-point boundary value problems. Advances in Computational Mathematics, 2019, 45, 897-928.	1.6	22
68	Finite element methods for convection-diffusion problems using exponential splines on triangles. Computers and Mathematics With Applications, 1998, 35, 35-45.	2.7	21
69	Process optimization strategies to diminish variability in the quality of discrete packaged foods during thermal processing. Journal of Food Engineering, 2003, 60, 147-155.	5.2	21
70	Existence, uniqueness and regularity of the solution of the time-fractional Fokkerâ€"Planck equation with general forcing. Communications on Pure and Applied Analysis, 2019, 18, 2765-2787.	0.8	21
71	Stabilised approximation of interior-layer solutions of a singularly perturbed semilinear reactionâ€"diffusion problem. Numerische Mathematik, 2011, 119, 787-810.	1.9	20
72	Supercloseness of continuous interior penalty method for convectionâ€"diffusion problems with characteristic layers. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 549-566.	6.6	20

#	Article	IF	Citations
73	An <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e413" altimg="si13.svg"><mml:mi>Î±</mml:mi></mml:math>-robust finite element method for a multi-term time-fractional diffusion problem. Journal of Computational and Applied Mathematics, 2021, 389, 113334.	2.0	20
74	A simplification of Stenger's topological degree formula. Numerische Mathematik, 1979, 33, 147-155.	1.9	19
75	On the construction of sufficient refinements for computation of topological degree. Numerische Mathematik, 1981, 37, 453-462.	1.9	18
76	A uniformly convergent method for a singularly perturbed semilinear reaction--diffusion problem with multiple solutions. Mathematics of Computation, 1996, 65, 1085-1110.	2.1	18
77	A spectral collocation method for a weakly singular Volterra integral equation of the second kind. Advances in Computational Mathematics, 2016, 42, 1015-1030.	1.6	18
78	EFFICIENT GENERATION OF ORIENTED MESHES FOR SOLVING CONVECTION-DIFFUSION PROBLEMS. International Journal for Numerical Methods in Engineering, 1997, 40, 565-576.	2.8	17
79	Finite element analysis of exponentially fitted Lumped schemes for time-dependent convection-diffusion problems. Numerische Mathematik, 1993, 66, 347-371.	1.9	15
80	L 1 andL ? Uniform convergence of a difference scheme for a semilinear singular perturbation problem. Numerische Mathematik, 1987, 50, 519-531.	1.9	14
81	Necessary L2-uniform convergence conditions for difference schemes for two-dimensional convection-diffusion problems. Computers and Mathematics With Applications, 1995, 29, 45-53.	2.7	14
82	Supercloseness of edge stabilization on Shishkin rectangular meshes for convectionâ€"diffusion problems with exponential layers. IMA Journal of Numerical Analysis, 2018, 38, 2105-2122.	2.9	14
83	A Sharp $$alpha $$-Robust $$L^infty (H^1)$$ Error Bound for a Time-Fractional Allen-Cahn Problem Discretised by the Alikhanov $$L2-1_sigma $$ Scheme and a Standard FEM. Journal of Scientific Computing, 2022, 91, 1.	2.3	14
84	A balanced finite element method for a system of singularly perturbed reaction-diffusion two-point boundary value problems. Numerical Algorithms, 2015, 70, 691-707.	1.9	13
85	A direct discontinuous Galerkin method for a time-fractional diffusion equation with a Robin boundary condition. Applied Numerical Mathematics, 2019, 135, 15-29.	2.1	13
86	A discrete comparison principle for the time-fractional diffusion equation. Computers and Mathematics With Applications, 2020, 80, 917-922.	2.7	13
87	Galerkin and streamline diffusion finite element methods on a Shishkin mesh for a convection-diffusion problem with corner singularities. Mathematics of Computation, 2011, 81, 661-685.	2.1	11
88	The Green's function and a maximum principle for a Caputo two-point boundary value problem with a convection term. Journal of Mathematical Analysis and Applications, 2018, 461, 198-218.	1.0	11
89	Barrier Function Local and Global Analysis of an L1 Finite Element Method for a Multiterm Time-Fractional Initial-Boundary Value Problem. Journal of Scientific Computing, 2020, 84, 1.	2.3	11
90	An Adaptive Uniformly Convergent Numerical Method for a Semilinear Singular Perturbation Problem. SIAM Journal on Numerical Analysis, 1989, 26, 442-455.	2.3	10

#	Article	IF	Citations
91	Linear enhancements of the streamline diffusion method for convection-diffusion problems. Computers and Mathematics With Applications, 1996, 32, 29-42.	2.7	10
92	Optimal Approximability of Solutions of Singularly Perturbed Two-Point Boundary Value Problems. SIAM Journal on Numerical Analysis, 1997, 34, 1808-1816.	2.3	10
93	Layers and corner singularities in singularly perturbed elliptic problems. BIT Numerical Mathematics, 2008, 48, 309-314.	2.0	10
94	Boundary Layers in a Two-Point Boundary Value Problem with a Caputo Fractional Derivative. Computational Methods in Applied Mathematics, 2015, 15, 79-95.	0.8	10
95	A new analysis of a numerical method for the time-fractional Fokkerâ€"Planck equation with general forcing. IMA Journal of Numerical Analysis, 2020, 40, 1217-1240.	2.9	10
96	Block boundary value methods for linear weakly singular Volterra integro-differential equations. BIT Numerical Mathematics, 2021, 61, 691-720.	2.0	10
97	Two Finite Difference Schemes for Multi-Dimensional Fractional Wave Equations with Weakly Singular Solutions. Computational Methods in Applied Mathematics, 2021, 21, 913-928.	0.8	10
98	A singularly perturbed convectionâ€"diffusion problem in a half-plane. Applicable Analysis, 2006, 85, 1471-1485.	1.3	9
99	Numerical analysis of singularly perturbed nonlinear reaction-diffusion problems with multiple solutions. Computers and Mathematics With Applications, 2006, 51, 857-864.	2.7	9
100	The combination technique for a two-dimensional convection-diffusion problem with exponential layers. Applications of Mathematics, 2009, 54, 203-223.	0.9	9
101	Optimal uniform-convergence results for convectionâ€"diffusion problems in one dimension using preconditioning. Journal of Computational and Applied Mathematics, 2018, 338, 227-238.	2.0	9
102	Convergence analysis of a finite difference scheme for a two-point boundary value problem with a Riemannâ€"Liouvilleâ€"Caputo fractional derivative. BIT Numerical Mathematics, 2020, 60, 411-439.	2.0	9
103	Error analysis of a finite element method with GMMP temporal discretisation for a time-fractional diffusion equation. Computers and Mathematics With Applications, 2020, 79, 2784-2794.	2.7	9
104	A weighted and balanced FEM for singularly perturbed reaction-diffusion problems. Calcolo, 2021, 58, 1.	1.1	9
105	A nonconforming finite element method for a singularly perturbed boundary value problem. Computing (Vienna/New York), 1995, 54, 1-25.	4.8	8
106	A Posteriori Error Analysis for Variable-Coefficient Multiterm Time-Fractional Subdiffusion Equations. Journal of Scientific Computing, 2022, 92, .	2.3	8
107	n-Widths and Singularly Perturbed Boundary Value Problems. SIAM Journal on Numerical Analysis, 1999, 36, 1604-1620.	2.3	7
108	Analysis of the streamline-diffusion finite element method on a piecewise uniform mesh for a convection-diffusion problem with exponential layers. Journal of Numerical Mathematics, 2001, 9, .	3.5	7

#	Article	IF	Citations
109	Preprocessing schemes for fractional-derivative problems to improve their convergence rates. Applied Mathematics Letters, 2017, 74, 187-192.	2.7	7
110	Using Complete Monotonicity to Deduce Local Error Estimates for Discretisations of a Multi-Term Time-Fractional Diffusion Equation. Computational Methods in Applied Mathematics, 2022, 22, 15-29.	0.8	7
111	The image of mathematics held by Irish post-primary students. International Journal of Mathematical Education in Science and Technology, 2014, 45, 879-891.	1.4	6
112	Formal Consistency Versus Actual Convergence Rates of Difference Schemes for Fractional-Derivative Boundary Value Problems. Fractional Calculus and Applied Analysis, 2015, 18, 419-436.	2.2	6
113	Superconvergence of the direct discontinuous Galerkin method for a timeâ€fractional initialâ€boundary value problem. Numerical Methods for Partial Differential Equations, 2019, 35, 2076-2090.	3.6	6
114	Singularities. , 2019, , 287-306.		6
115	A Jejune Heuristic Mesh Theorem. Computational Methods in Applied Mathematics, 2003, 3, 488-492.	0.8	5
116	Balanced-norm error estimates for sparse grid finite element methods applied to singularly perturbed reactionâ€“diffusion problems. Journal of Numerical Mathematics, 2019, 27, 37-55.	3.5	5
117	Greenâ€™s functions, positive solutions, and a Lyapunov inequality for a caputo fractional-derivative boundary value problem. Fractional Calculus and Applied Analysis, 2019, 22, 750-766.	2.2	5
118	Convergence analysis of the Adini element on a Shishkin mesh for a singularly perturbed fourth-order problem in two dimensions. Advances in Computational Mathematics, 2019, 45, 1105-1128.	1.6	5
119	An Iterative Numerical Algorithm for a Strongly Coupled System of Singularly Perturbed Convection-Diffusion Problems. Lecture Notes in Computer Science, 2009, , 104-115.	1.3	5
120	An analysis of a superconvergence result for a singularly perturbed boundary value problem. Mathematics of Computation, 1986, 46, 81-92.	2.1	4
121	Convection-diffusion-reaction problems, SDFEM/SUPG and a priori meshes. International Journal of Computing Science and Mathematics, 2007, 1, 412.	0.3	4
122	Sharp anisotropic interpolation error estimates for rectangular Raviart-Thomas elements. Mathematics of Computation, 2014, 83, 2675-2689.	2.1	4
123	An $$alpha $$-Robust Semidiscrete Finite Element Method for a Fokkerâ€“Planck Initial-Boundary Value Problem with Variable-Order Fractional Time Derivative. Journal of Scientific Computing, 2021, 86, 1.	2.3	4
124	Research announcement an algorithm for numerical calculation of topical degree. Applicable Analysis, 1977, 6, 319-320.	1.3	3
125	n-Widths and Singularly Perturbed Boundary Value Problems II. SIAM Journal on Numerical Analysis, 2001, 39, 690-707.	2.3	3
126	Regularity and derivative bounds for a convectionâ€“diffusion problem with a Neumann outflow condition. Journal of Differential Equations, 2009, 247, 2495-2516.	2.2	3

#	Article	IF	Citations
127	Postprocessed Two-Scale Finite Element Discretizations, Part I. SIAM Journal on Numerical Analysis, 2011, 49, 1947-1971.	2.3	3
128	Spectral Galerkin methods for a weakly singular Volterra integral equation of the second kind. IMA Journal of Numerical Analysis, 0, , dnw034.	2.9	3
129	Convergence Outside the Initial Layer for a Numerical Method for the Time-Fractional Heat Equation. Lecture Notes in Computer Science, 2017, , 82-94.	1.3	3
130	An Î±-robust finite difference method for a time-fractional radially symmetric diffusion problem. Computers and Mathematics With Applications, 2021, 97, 386-393.	2.7	3
131	Block boundary value methods for solving linear neutral Volterra integro-differential equations with weakly singular kernels. Journal of Computational and Applied Mathematics, 2022, 401, 113747.	2.0	3
132	A Caputo Two-Point Boundary Value Problem: Existence, Uniqueness and Regularity of a Solution. Modelirovanie I Analiz Informacionnyh Sistem, 2016, 23, 370-376.	0.3	3
133	Finite element analysis of an exponentially fitted non-lumped scheme for advection-diffusion equations. Applied Numerical Mathematics, 1994, 15, 375-393.	2.1	2
134	A robust finite difference method for a singularly perturbed degenerate parabolic problem II. IMA Journal of Numerical Analysis, 2013, 33, 460-480.	2.9	2
135	Necessary conditions for convergence of difference schemes for fractional-derivative two-point boundary value problems. BIT Numerical Mathematics, 2016, 56, 1455-1477.	2.0	2
136	A direct discontinuous Galerkin finite element method for convection-dominated two-point boundary value problems. Numerical Algorithms, 2020, 83, 741-765.	1.9	2
137	Regularity and Derivative Bounds for a Convection-Dï¬€usion Problem with Neumann Boundary Conditions on Characteristic Boundaries. Zeitschrift Fur Analysis Und Ihre Anwendung, 2010, 29, 163-181.	0.6	2
138	Finite difference scheme for the accurate modelling of boundary layers in microchannels. , 2008, , .		1
139	A finite difference method for an initialâ€"boundary value problem with a Riemannâ€"Liouvilleâ€"Caputo spatial fractional derivative. Journal of Computational and Applied Mathematics, 2021, 381, 113020.	2.0	1
140	Balanced-Norm and Energy-Norm Error Analyses for a Backward Euler/FEM Solving a Singularly Perturbed Parabolic Reaction-Diffusion Problem. Journal of Scientific Computing, 2022, 92, .	2.3	1
141	An N-Dimensional bisection method for solving systems of n equations in N unknowns. Applicable Analysis, 1979, 9, 295-296.	1.3	0
142	A streamline diffusion finite element method on a shishkin mesh for a convection-diffusion problem. Milan Journal of Mathematics, 1994, 64, 129-140.	0.1	0
143	FINITE DIFFERENCE SCHEME FOR A SINGULARLY PERTURBED PARABOLIC EQUATIONS IN THE PRESENCE OF INITIAL AND BOUNDARY LAYERS. Mathematical Modelling and Analysis, 2008, 13, 483-492.	1.5	0
144	Singularly Perturbed Convection â€" Diffusion Problems in One Dimension: Bounds on Derivatives. Computational Methods in Applied Mathematics, 2009, 9, 281-291.	0.8	0

#	Article	IF	Citations
145	Post-primary studentsâ€™ images of mathematics: findings from a survey of Irish ordinary level mathematics students. International Journal of Mathematical Education in Science and Technology, 2016, 47, 1009-1027.	1.4	0
146	Fundamental Properties of the Solution of a Singularly Perturbed Degenerate Parabolic Problem. Lecture Notes in Computational Science and Engineering, 2011, , 235-243.	0.3	0
147	Boundary Layers in a Riemann-Liouville Fractional Derivative Two-Point Boundary Value Problem. Lecture Notes in Computational Science and Engineering, 2015, , 87-98.	0.3	0