

Fawang Liu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

262
papers

11,786
citations

56
h-index

98
g-index

280
ext. papers

13,081
ext. citations

2.7
avg, IF

6.89
L-index

#	Paper	IF	Citations
262	Numerical solution of the space fractional Fokker-Planck equation. <i>Journal of Computational and Applied Mathematics</i> , 2004 , 166, 209-219	2.4	512
261	Numerical methods for fractional partial differential equations with Riesz space fractional derivatives. <i>Applied Mathematical Modelling</i> , 2010 , 34, 200-218	4.5	387
260	Stability and convergence of the difference methods for the space-time fractional advection-diffusion equation. <i>Applied Mathematics and Computation</i> , 2007 , 191, 12-20	2.7	384
259	Numerical Methods for the Variable-Order Fractional Advection-Diffusion Equation with a Nonlinear Source Term. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 1760-1781	2.4	368
258	New Solution and Analytical Techniques of the Implicit Numerical Method for the Anomalous Subdiffusion Equation. <i>SIAM Journal on Numerical Analysis</i> , 2008 , 46, 1079-1095	2.4	293
257	A Fourier method for the fractional diffusion equation describing sub-diffusion. <i>Journal of Computational Physics</i> , 2007 , 227, 886-897	4.1	264
256	A Crank-Nicolson ADI Spectral Method for a Two-Dimensional Riesz Space Fractional Nonlinear Reaction-Diffusion Equation. <i>SIAM Journal on Numerical Analysis</i> , 2014 , 52, 2599-2622	2.4	240
255	NUMERICAL METHODS FOR SOLVING THE MULTI-TERM TIME-FRACTIONAL WAVE-DIFFUSION EQUATION. <i>Fractional Calculus and Applied Analysis</i> , 2013 , 16, 9-25	2.7	223
254	The Use of Finite Difference/Element Approaches for Solving the Time-Fractional Subdiffusion Equation. <i>SIAM Journal of Scientific Computing</i> , 2013 , 35, A2976-A3000	2.6	209
253	Stability and convergence of a new explicit finite-difference approximation for the variable-order nonlinear fractional diffusion equation. <i>Applied Mathematics and Computation</i> , 2009 , 212, 435-445	2.7	194
252	Time fractional advection-dispersion equation. <i>Journal of Applied Mathematics and Computing</i> , 2003 , 13, 233-245	1.8	175
251	Numerical Schemes with High Spatial Accuracy for a Variable-Order Anomalous Subdiffusion Equation. <i>SIAM Journal of Scientific Computing</i> , 2010 , 32, 1740-1760	2.6	169
250	Finite difference approximations for the fractional Fokker-Planck equation. <i>Applied Mathematical Modelling</i> , 2009 , 33, 256-273	4.5	169
249	Implicit difference approximation for the time fractional diffusion equation. <i>Journal of Applied Mathematics and Computing</i> , 2006 , 22, 87-99	1.8	164
248	Numerical method and analytical technique of the modified anomalous subdiffusion equation with a nonlinear source term. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 231, 160-176	2.4	159
247	Novel Numerical Methods for Solving the Time-Space Fractional Diffusion Equation in Two Dimensions. <i>SIAM Journal of Scientific Computing</i> , 2011 , 33, 1159-1180	2.6	156
246	A new fractional finite volume method for solving the fractional diffusion equation. <i>Applied Mathematical Modelling</i> , 2014 , 38, 3871-3878	4.5	150

245	Numerical methods and analysis for a class of fractional advection–dispersion models. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 2990-3007	2.7	146
244	Numerical Algorithms for Time-Fractional Subdiffusion Equation with Second-Order Accuracy. <i>SIAM Journal of Scientific Computing</i> , 2015 , 37, A55-A78	2.6	142
243	Analytical solution for the time-fractional telegraph equation by the method of separating variables. <i>Journal of Mathematical Analysis and Applications</i> , 2008 , 338, 1364-1377	1.1	141
242	Galerkin finite element approximation of symmetric space-fractional partial differential equations. <i>Applied Mathematics and Computation</i> , 2010 , 217, 2534-2545	2.7	137
241	Analytical solutions for the multi-term time–space Caputo–Riesz fractional advection–diffusion equations on a finite domain. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 389, 1117-1127	1.1	132
240	An implicit RBF meshless approach for time fractional diffusion equations. <i>Computational Mechanics</i> , 2011 , 48, 1-12	4	127
239	A Novel High Order Space-Time Spectral Method for the Time Fractional Fokker–Planck Equation. <i>SIAM Journal of Scientific Computing</i> , 2015 , 37, A701-A724	2.6	126
238	A novel numerical method for the time variable fractional order mobile–immobile advection–dispersion model. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 693-701	2.7	124
237	Finite difference methods and a fourier analysis for the fractional reaction–subdiffusion equation. <i>Applied Mathematics and Computation</i> , 2008 , 198, 754-769	2.7	123
236	Analytical solutions for the multi-term time-fractional diffusion-wave/diffusion equations in a finite domain. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 3377-3388	2.7	114
235	Spectral approximations to the fractional integral and derivative. <i>Fractional Calculus and Applied Analysis</i> , 2012 , 15,	2.7	113
234	Numerical techniques for the variable order time fractional diffusion equation. <i>Applied Mathematics and Computation</i> , 2012 , 218, 10861-10870	2.7	111
233	A semi-alternating direction method for a 2-D fractional FitzHugh–Nagumo monodomain model on an approximate irregular domain. <i>Journal of Computational Physics</i> , 2015 , 293, 252-263	4.1	101
232	Numerical approximations and solution techniques for the space-time Riesz–Caputo fractional advection–diffusion equation. <i>Numerical Algorithms</i> , 2011 , 56, 383-403	2.1	98
231	A high-order spectral method for the multi-term time-fractional diffusion equations. <i>Applied Mathematical Modelling</i> , 2016 , 40, 4970-4985	4.5	97
230	Approximation of the Lvy–Beller advection–dispersion process by random walk and finite difference method. <i>Journal of Computational Physics</i> , 2007 , 222, 57-70	4.1	97
229	Finite element approximation for a modified anomalous subdiffusion equation. <i>Applied Mathematical Modelling</i> , 2011 , 35, 4103-4116	4.5	92
228	The time fractional diffusion equation and the advection–dispersion equation. <i>ANZIAM Journal</i> , 2005 , 46, 317-330	0.5	91

227	The fundamental solution and numerical solution of the Riesz fractional advection–dispersion equation. <i>IMA Journal of Applied Mathematics</i> , 2008 , 73, 850-872	1	85
226	Compact difference scheme for distributed-order time-fractional diffusion-wave equation on bounded domains. <i>Journal of Computational Physics</i> , 2015 , 298, 652-660	4.1	84
225	Novel techniques in parameter estimation for fractional dynamical models arising from biological systems. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 822-833	2.7	83
224	The fundamental solution of the space-time fractional advection-dispersion equation. <i>Journal of Applied Mathematics and Computing</i> , 2005 , 18, 339-350	1.8	83
223	Stability and convergence of a finite volume method for the space fractional advection–dispersion equation. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 255, 684-697	2.4	81
222	Unsteady natural convection boundary layer heat transfer of fractional Maxwell viscoelastic fluid over a vertical plate. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 760-766	4.9	78
221	Time-dependent fractional advection–diffusion equations by an implicit MLS meshless method. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 88, 1346-1362	2.4	73
220	The analytical solution and numerical solution of the fractional diffusion-wave equation with damping. <i>Applied Mathematics and Computation</i> , 2012 , 219, 1737-1748	2.7	71
219	Numerical schemes and multivariate extrapolation of a two-dimensional anomalous sub-diffusion equation. <i>Numerical Algorithms</i> , 2010 , 54, 1-21	2.1	71
218	Numerical methods for solving a two-dimensional variable-order anomalous subdiffusion equation. <i>Mathematics of Computation</i> , 2012 , 81, 345-366	1.6	69
217	A RBF meshless approach for modeling a fractal mobile/immobile transport model. <i>Applied Mathematics and Computation</i> , 2014 , 226, 336-347	2.7	64
216	Stability and convergence of a new finite volume method for a two-sided space-fractional diffusion equation. <i>Applied Mathematics and Computation</i> , 2015 , 257, 52-65	2.7	63
215	Analysis of a discrete non-Markovian random walk approximation for the time fractional diffusion equation. <i>ANZIAM Journal</i> , 46 , 488		63
214	Convection heat and mass transfer of fractional MHD Maxwell fluid in a porous medium with Soret and Dufour effects. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 203-210	4.9	63
213	A novel finite volume method for the Riesz space distributed-order advection–diffusion equation. <i>Applied Mathematical Modelling</i> , 2017 , 46, 536-553	4.5	60
212	Error analysis of an explicit finite difference approximation for the space fractional diffusion equation with insulated ends. <i>ANZIAM Journal</i> , 46 , 871		60
211	Unstructured-mesh Galerkin finite element method for the two-dimensional multi-term time-space fractional Bloch–Torrey equations on irregular convex domains. <i>Computers and Mathematics With Applications</i> , 2019 , 78, 1637-1650	2.7	59
210	A novel unstructured mesh finite element method for solving the time-space fractional wave equation on a two-dimensional irregular convex domain. <i>Fractional Calculus and Applied Analysis</i> , 2017 , 20, 352-383	2.7	58

209	Finite volume and finite element methods for solving a one-dimensional space-fractional Boussinesq equation. <i>Applied Mathematical Modelling</i> , 2014 , 38, 3860-3870	4.5	57
208	Numerical analysis for the time distributed-order and Riesz space fractional diffusions on bounded domains. <i>IMA Journal of Applied Mathematics</i> , 2015 , 80, 825-838	1	56
207	Fractional high order methods for the nonlinear fractional ordinary differential equation. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2007 , 66, 856-869	1.3	56
206	A novel finite volume method for the Riesz space distributed-order diffusion equation. <i>Computers and Mathematics With Applications</i> , 2017 , 74, 772-783	2.7	55
205	Numerical solution of the time fractional Black-Scholes model governing European options. <i>Computers and Mathematics With Applications</i> , 2016 , 71, 1772-1783	2.7	55
204	A finite volume scheme with preconditioned Lanczos method for two-dimensional space-fractional reaction-diffusion equations. <i>Applied Mathematical Modelling</i> , 2014 , 38, 3755-3762	4.5	53
203	Finite element method for nonlinear Riesz space fractional diffusion equations on irregular domains. <i>Journal of Computational Physics</i> , 2017 , 330, 863-883	4.1	52
202	Numerical analysis of a new space-time variable fractional order advection-dispersion equation. <i>Applied Mathematics and Computation</i> , 2014 , 242, 541-550	2.7	50
201	Numerical simulation for solute transport in fractal porous media. <i>ANZIAM Journal</i> , 2014 , 45, 461		50
200	Unsteady MHD flow and heat transfer of fractional Maxwell viscoelastic nanofluid with Cattaneo heat flux and different particle shapes. <i>Chinese Journal of Physics</i> , 2018 , 56, 1199-1211	3.5	49
199	A numerical method for solving the two-dimensional distributed order space-fractional diffusion equation on an irregular convex domain. <i>Applied Mathematics Letters</i> , 2018 , 77, 114-121	3.5	49
198	Anomalous convection diffusion and wave coupling transport of cells on comb frame with fractional Cattaneo-Christov flux. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 38, 45-58	3.7	49
197	The numerical simulation of the tempered fractional Black-Scholes equation for European double barrier option. <i>Applied Mathematical Modelling</i> , 2016 , 40, 5819-5834	4.5	47
196	MHD flow and heat transfer of fractional Maxwell viscoelastic nanofluid over a moving plate. <i>Journal of Molecular Liquids</i> , 2016 , 222, 1121-1127	6	47
195	Finite element method for space-time fractional diffusion equation. <i>Numerical Algorithms</i> , 2016 , 72, 749-767		46
194	A fast semi-implicit difference method for a nonlinear two-sided space-fractional diffusion equation with variable diffusivity coefficients. <i>Applied Mathematics and Computation</i> , 2015 , 257, 591-601	2.7	46
193	Numerical methods with fourth-order spatial accuracy for variable-order nonlinear Stokes first problem for a heated generalized second grade fluid. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 971-986	2.7	46
192	Finite Difference Approximation for Two-Dimensional Time Fractional Diffusion Equation. <i>Journal of Algorithms and Computational Technology</i> , 2007 , 1, 1-16	0.7	46

191	Some second-order θ schemes combined with finite element method for nonlinear fractional cable equation. <i>Numerical Algorithms</i> , 2019 , 80, 533-555	2.1	46
190	Maximum principle and numerical method for the multi-term time-space Riesz-Caputo fractional differential equations. <i>Applied Mathematics and Computation</i> , 2014 , 227, 531-540	2.7	44
189	A meshless method based on Point Interpolation Method (PIM) for the space fractional diffusion equation. <i>Applied Mathematics and Computation</i> , 2015 , 256, 930-938	2.7	44
188	A fractional-order implicit difference approximation for the space-time fractional diffusion equation. <i>ANZIAM Journal</i> , 47 , 48		44
187	Stability and convergence of an implicit numerical method for the non-linear fractional reaction-subdiffusion process. <i>IMA Journal of Applied Mathematics</i> , 2009 , 74, 645-667	1	43
186	A Fourier method and an extrapolation technique for Stokes' first problem for a heated generalized second grade fluid with fractional derivative. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 223, 777-789	2.4	43
185	Unstructured mesh finite difference/finite element method for the 2D time-space Riesz fractional diffusion equation on irregular convex domains. <i>Applied Mathematical Modelling</i> , 2018 , 59, 441-463	4.5	42
184	Fast Finite Difference Approximation for Identifying Parameters in a Two-dimensional Space-fractional Nonlocal Model with Variable Diffusivity Coefficients. <i>SIAM Journal on Numerical Analysis</i> , 2016 , 54, 606-624	2.4	42
183	A characteristic difference method for the variable-order fractional advection-diffusion equation. <i>Journal of Applied Mathematics and Computing</i> , 2013 , 42, 371-386	1.8	42
182	A computationally effective alternating direction method for the space and time fractional Bloch-Torrey equation in 3-D. <i>Applied Mathematics and Computation</i> , 2012 , 219, 4082-4095	2.7	42
181	An implicit numerical method for the two-dimensional fractional percolation equation. <i>Applied Mathematics and Computation</i> , 2013 , 219, 4322-4331	2.7	42
180	Heat conduction with fractional Cattaneo-Christov upper-convective derivative flux model. <i>International Journal of Thermal Sciences</i> , 2017 , 112, 421-426	4.1	41
179	Time-fractional diffusion equation for signal smoothing. <i>Applied Mathematics and Computation</i> , 2018 , 326, 108-116	2.7	41
178	Novel Second-Order Accurate Implicit Numerical Methods for the Riesz Space Distributed-Order Advection-Dispersion Equations. <i>Advances in Mathematical Physics</i> , 2015 , 2015, 1-14	1.1	41
177	Novel numerical analysis of multi-term time fractional viscoelastic non-newtonian fluid models for simulating unsteady MHD Couette flow of a generalized Oldroyd-B fluid. <i>Fractional Calculus and Applied Analysis</i> , 2018 , 21, 1073-1103	2.7	41
176	ADI-Euler and extrapolation methods for the two-dimensional fractional advection-dispersion equation. <i>Journal of Applied Mathematics and Computing</i> , 2008 , 26, 295-311	1.8	40
175	Numerical analysis of the Rayleigh-Stokes problem for a heated generalized second grade fluid with fractional derivatives. <i>Applied Mathematics and Computation</i> , 2008 , 204, 340-351	2.7	40
174	Finite difference/finite element method for a novel 2D multi-term time-fractional mixed sub-diffusion and diffusion-wave equation on convex domains. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 70, 354-371	3.7	40

173	Galerkin finite element method and error analysis for the fractional cable equation. <i>Numerical Algorithms</i> , 2016 , 72, 447-466	2.1	39
172	Two New Implicit Numerical Methods for the Fractional Cable Equation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2011 , 6,	1.4	39
171	Similarity solutions for solute transport in fractal porous media using a time- and scale-dependent dispersivity. <i>Applied Mathematical Modelling</i> , 2005 , 29, 852-870	4.5	37
170	The space-time fractional diffusion equation with Caputo derivatives. <i>Journal of Applied Mathematics and Computing</i> , 2005 , 19, 179-190	1.8	37
169	Analytical solutions of multi-term time fractional differential equations and application to unsteady flows of generalized viscoelastic fluid. <i>Computers and Mathematics With Applications</i> , 2016 , 72, 2084-2097	2.7	36
168	Numerical simulation for the 3D seepage flow with fractional derivatives in porous media. <i>IMA Journal of Applied Mathematics</i> , 2008 , 74, 201-229	1	36
167	Numerical approximation of Lvy-Bellier diffusion equation and its probability interpretation. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 206, 1098-1115	2.4	36
166	Numerical methods and analysis for simulating the flow of a generalized Oldroyd-B fluid between two infinite parallel rigid plates. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 1309-1320	4.9	35
165	Superconvergence analysis of nonconforming finite element method for two-dimensional time fractional diffusion equations. <i>Applied Mathematics Letters</i> , 2016 , 59, 38-47	3.5	34
164	Numerical simulation of a new two-dimensional variable-order fractional percolation equation in non-homogeneous porous media. <i>Computers and Mathematics With Applications</i> , 2014 , 68, 2133-2141	2.7	34
163	A Crank-Nicolson ADI Galerkin-Legendre spectral method for the two-dimensional Riesz space distributed-order advection-diffusion equation. <i>Computers and Mathematics With Applications</i> , 2018 , 76, 2460-2476	2.7	34
162	Solving linear and non-linear space-time fractional reaction-diffusion equations by the Adomian decomposition method. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 74, 138-158	2.4	32
161	Kinetics of adsorption on activated carbon: application of heterogeneous vacancy solution theory. <i>Chemical Engineering Science</i> , 2002 , 57, 3909-3928	4.4	32
160	An improved heat conduction model with Riesz fractional Cattaneo-Christov flux. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 1191-1197	4.9	32
159	Multi-term time-fractional Bloch equations and application in magnetic resonance imaging. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 319, 308-319	2.4	31
158	A spatially second-order accurate implicit numerical method for the space and time fractional Bloch-Torrey equation. <i>Numerical Algorithms</i> , 2014 , 66, 911-932	2.1	31
157	Convergence and superconvergence of a fully-discrete scheme for multi-term time fractional diffusion equations. <i>Computers and Mathematics With Applications</i> , 2017 , 73, 1087-1099	2.7	30
156	High order unconditionally stable difference schemes for the Riesz space-fractional telegraph equation. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 278, 119-129	2.4	30

155	Numerical simulation of the fractional Bloch equations. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 255, 635-651	2.4	30
154	Numerical simulation for the variable-order Galilei invariant advection diffusion equation with a nonlinear source term. <i>Applied Mathematics and Computation</i> , 2011 , 217, 5729-5742	2.7	30
153	Boundary layer flow of fractional Maxwell fluid over a stretching sheet with variable thickness. <i>Applied Mathematics Letters</i> , 2018 , 79, 92-99	3.5	30
152	Unsteady boundary layer flow of viscoelastic MHD fluid with a double fractional Maxwell model. <i>Applied Mathematics Letters</i> , 2019 , 95, 143-149	3.5	29
151	Time two-mesh algorithm combined with finite element method for time fractional water wave model. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 1132-1145	4.9	29
150	The use of a Riesz fractional differential-based approach for texture enhancement in image processing. <i>ANZIAM Journal</i> , 54 , 590		29
149	Modeling heat transport in nanofluids with stagnation point flow using fractional calculus. <i>Applied Mathematical Modelling</i> , 2016 , 40, 8974-8984	4.5	28
148	A novel numerical approximation for the space fractional advection-dispersion equation. <i>IMA Journal of Applied Mathematics</i> , 2014 , 79, 431-444	1	28
147	Numerical approximation for a variable-order nonlinear reaction-subdiffusion equation. <i>Numerical Algorithms</i> , 2013 , 63, 265-290	2.1	28
146	A numerical method for the fractional Fitzhugh-Nagumo monodomain model. <i>ANZIAM Journal</i> , 54 , 608		28
145	A spatial-fractional thermal transport model for nanofluid in porous media. <i>Applied Mathematical Modelling</i> , 2018 , 53, 622-634	4.5	27
144	Numerical simulation for the three-dimension fractional sub-diffusion equation. <i>Applied Mathematical Modelling</i> , 2014 , 38, 3695-3705	4.5	27
143	A fast second-order accurate method for a two-sided space-fractional diffusion equation with variable coefficients. <i>Computers and Mathematics With Applications</i> , 2017 , 73, 1155-1171	2.7	26
142	The Unstructured Mesh Finite Element Method for the Two-Dimensional Multi-term Time-Space Fractional Diffusion-Wave Equation on an Irregular Convex Domain. <i>Journal of Scientific Computing</i> , 2018 , 77, 27-52	2.3	26
141	Stability and convergence of an implicit numerical method for the space and time fractional Bloch-Torrey equation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120150	3	26
140	Effect of Pore Blockage on Adsorption Isotherms and Dynamics: Anomalous Adsorption of Iodine on Activated Carbon. <i>Langmuir</i> , 2000 , 16, 4001-4008	4	26
139	Analytical solution and nonconforming finite element approximation for the 2D multi-term fractional subdiffusion equation. <i>Applied Mathematical Modelling</i> , 2016 , 40, 8810-8825	4.5	26
138	Unsteady Marangoni convection heat transfer of fractional Maxwell fluid with Cattaneo heat flux. <i>Applied Mathematical Modelling</i> , 2017 , 44, 497-507	4.5	25

137	An implicit numerical method of a new time distributed-order and two-sided space-fractional advection-dispersion equation. <i>Numerical Algorithms</i> , 2016 , 72, 393-407	2.1	25
136	The analytical solution and numerical solutions for a two-dimensional multi-term time fractional diffusion and diffusion-wave equation. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 345, 515-534	2.4	25
135	Tides as phase-modulated waves inducing periodic groundwater flow in coastal aquifers overlaying a sloping impervious base. <i>Environmental Modelling and Software</i> , 2003 , 18, 937-942	5.2	25
134	A 2D multi-term time and space fractional Bloch-Torrey model based on bilinear rectangular finite elements. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 56, 270-286	3.7	24
133	A computationally efficient solution technique for moving-boundary problems in finite media. <i>IMA Journal of Applied Mathematics</i> , 1997 , 59, 71-84	1	24
132	A Numerical and Experimental Investigation of the Microwave Heating of Polymer Materials Inside a Ridge Waveguide. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 1996 , 31, 71-82	1.4	24
131	A computationally effective predictor-corrector method for simulating fractional order dynamical control system. <i>ANZIAM Journal</i> , 47 , 168		24
130	Numerical solution of the time fractional reaction-diffusion equation with a moving boundary. <i>Journal of Computational Physics</i> , 2017 , 338, 493-510	4.1	23
129	Numerical simulation of a new two-dimensional variable-order fractional percolation equation in non-homogeneous porous media. <i>Computers and Mathematics With Applications</i> , 2014 , 67, 1673-1681	2.7	23
128	Numerical analysis for a variable-order nonlinear cable equation. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 236, 209-224	2.4	23
127	Implicit difference approximation for the two-dimensional space-time fractional diffusion equation. <i>Journal of Applied Mathematics and Computing</i> , 2007 , 25, 269-282	1.8	23
126	Characterization of anomalous relaxation using the time-fractional Bloch equation and multiple echo T [*] -weighted magnetic resonance imaging at 7 T. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1485-1494	4.4	22
125	Some novel techniques of parameter estimation for dynamical models in biological systems. <i>IMA Journal of Applied Mathematics</i> , 2013 , 78, 235-260	1	22
124	Computationally efficient solution techniques for adsorption problems involving steep gradients in bidisperse particles. <i>Computers and Chemical Engineering</i> , 1999 , 23, 933-943	4	22
123	Flow and heat transfer of double fractional Maxwell fluids over a stretching sheet with variable thickness. <i>Applied Mathematical Modelling</i> , 2020 , 80, 204-216	4.5	22
122	An alternating direction implicit spectral method for solving two dimensional multi-term time fractional mixed diffusion and diffusion-wave equations. <i>Applied Numerical Mathematics</i> , 2019 , 136, 139-151	2.5	22
121	Analytical and numerical solutions of the unsteady 2D flow of MHD fractional Maxwell fluid induced by variable pressure gradient. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 965-980	2.7	22
120	Unsteady Natural Convection Heat Transfer Past a Vertical Flat Plate Embedded in a Porous Medium Saturated With Fractional Oldroyd-B Fluid. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	21

119	A Variable Order Fractional Differential-Based Texture Enhancement Algorithm with Application in Medical Imaging. <i>PLoS ONE</i> , 2015 , 10, e0132952	3.7	21
118	An advanced numerical modeling for Riesz space fractional advection–dispersion equations by a meshfree approach. <i>Applied Mathematical Modelling</i> , 2016 , 40, 7816-7829	4.5	21
117	Unsteady flow of viscoelastic fluid with the fractional K-BKZ model between two parallel plates. <i>Applied Mathematical Modelling</i> , 2017 , 47, 114-127	4.5	20
116	Numerical simulation of the fractional-order control system. <i>Journal of Applied Mathematics and Computing</i> , 2007 , 23, 229-241	1.8	20
115	Numerical methods and analysis for a multi-term time–space variable-order fractional advection–diffusion equations and applications. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 352, 437-452	2.4	20
114	Reproducing kernel particle method for two-dimensional time-space fractional diffusion equations in irregular domains. <i>Engineering Analysis With Boundary Elements</i> , 2018 , 97, 131-143	2.6	20
113	Flow and heat transfer of generalized Maxwell fluid over a moving plate with distributed order time fractional constitutive models. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 116, 104679	5.8	19
112	Application of Petrov–Galerkin methods to transient boundary value problems in chemical engineering: adsorption with steep gradients in bidisperse solids. <i>Chemical Engineering Science</i> , 2001 , 56, 3727-3735	4.4	19
111	A numerical investigation of the time distributed-order diffusion model. <i>ANZIAM Journal</i> , 2008 , 55, 464		19
110	Flow and heat transfer of power-law fluid over a rotating disk with generalized diffusion. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 79, 81-88	5.8	18
109	A novel implicit finite difference method for the one-dimensional fractional percolation equation. <i>Numerical Algorithms</i> , 2011 , 56, 517-535	2.1	18
108	An unstructured mesh finite element method for solving the multi-term time fractional and Riesz space distributed-order wave equation on an irregular convex domain. <i>Applied Mathematical Modelling</i> , 2019 , 73, 615-636	4.5	17
107	Numerical simulation of anomalous infiltration in porous media. <i>Numerical Algorithms</i> , 2015 , 68, 443-454	2.1	17
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