

# Jose Tenreiro Machado

## List of Publications by Year in Descending Order

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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.

765  
papers

15,352  
citations

55  
h-index

96  
g-index

916  
ext. papers

18,507  
ext. citations

3.1  
avg, IF

7.82  
L-index

#	Paper	IF	Citations
765	Trends, directions for further research, and some open problems of fractional calculus. <i>Nonlinear Dynamics</i> , <b>2022</b> , 107, 3245	5	4
764	State-of-Charge Estimation of Lithium-Ion Batteries Based on Fractional-Order Square-Root Unscented Kalman Filter. <i>Fractal and Fractional</i> , <b>2022</b> , 6, 52	3	1
763	Command-filtered compound FAT learning control of fractional-order nonlinear systems with input delay and external disturbances. <i>Nonlinear Dynamics</i> , <b>2022</b> , 108, 293	5	2
762	A computational view of electrophysiological properties under different atrial fibrosis conditions. <i>Applied Mathematical Modelling</i> , <b>2022</b> , 105, 534-550	4.5	
761	Numerical treatment of microscale heat transfer processes arising in thin films of metals. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 132, 105892	5.8	0
760	Fractional-order shifted Legendre collocation method for solving non-linear variable-order fractional Fredholm integro-differential equations. <i>Computational and Applied Mathematics</i> , <b>2022</b> , 41, 1	2.4	0
759	Analytical stability analysis of the fractional-order particle swarm optimization algorithm. <i>Chaos, Solitons and Fractals</i> , <b>2022</b> , 155, 111658	9.3	3
758	Analysis of dual Bernstein operators in the solution of the fractional convection-diffusion equation arising in underground water pollution. <i>Journal of Computational and Applied Mathematics</i> , <b>2022</b> , 399, 113729	2.4	0
757	How Many Fractional Derivatives Are There?. <i>Mathematics</i> , <b>2022</b> , 10, 737	2.3	7
756	Multidimensional scaling and visualization of patterns in global large-scale accidents. <i>Chaos, Solitons and Fractals</i> , <b>2022</b> , 157, 111951	9.3	1
755	Multidimensional Analysis of Near-Earth Asteroids. <i>SN Computer Science</i> , <b>2022</b> , 3, 1	2	0
754	Fractional generalization of entropy improves the characterization of rotors in simulated atrial fibrillation. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 425, 127077	2.7	0
753	Shannon Information Analysis of the Chromosome Code. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2022</b> , 1-12	0.7	
752	Shifted Fractional-Order Jacobi Collocation Method for Solving Variable-Order Fractional Integro-Differential Equation with Weakly Singular Kernel. <i>Fractal and Fractional</i> , <b>2022</b> , 6, 19	3	2
751	Adaptive state-of-charge estimation of lithium-ion batteries based on square-root unscented Kalman filter. <i>Energy</i> , <b>2022</b> , 123972	7.9	0
750	Revisiting the Formula for the Ramanujan Constant of a Series. <i>Mathematics</i> , <b>2022</b> , 10, 1539	2.3	0
749	The 21st Century Systems: An Updated Vision of Continuous-Time Fractional Models. <i>IEEE Circuits and Systems Magazine</i> , <b>2022</b> , 22, 36-56	3.2	1

748	An Efficient Operational Matrix Technique for Variable-Order Fractional Optimal Control Problems. <i>Nonlinear Physical Science</i> , <b>2022</b> , 131-146	0.1	
747	Solving Nonlinear Variable-Order Time Fractional Convection-Diffusion Equation with Generalized Polynomials. <i>Nonlinear Physical Science</i> , <b>2022</b> , 147-161	0.1	
746	Integral Inequalities for Generalized Harmonically Convex Functions in Fuzzy-Interval-Valued Settings. <i>Symmetry</i> , <b>2021</b> , 13, 2352	2.7	9
745	Fractional-Order Sensing and Control: Embedding the Nonlinear Dynamics of Robot Manipulators into the Multidimensional Scaling Method. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
744	Overview in Summabilities: Summation Methods for Divergent Series, Ramanujan Summation and Fractional Finite Sums. <i>Mathematics</i> , <b>2021</b> , 9, 2963	2.3	1
743	Delay-Dependent and Order-Dependent Guaranteed Cost Control for Uncertain Fractional-Order Delayed Linear Systems. <i>Mathematics</i> , <b>2021</b> , 9, 41	2.3	4
742	Discretization of Fractional Operators: Analysis by Means of Advanced Computational Techniques. <i>Mathematics</i> , <b>2021</b> , 9, 2429	2.3	
741	On the Calculation of the MoorePenrose and Drazin Inverses: Application to Fractional Calculus. <i>Mathematics</i> , <b>2021</b> , 9, 2501	2.3	2
740	Hypergeometric fractional derivatives formula of shifted Chebyshev polynomials: tau algorithm for a type of fractional delay differential equations. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , <b>2021</b> ,	1.8	13
739	A Chebyshev Wavelet Collocation Method for Some Types of Differential Problems. <i>Symmetry</i> , <b>2021</b> , 13, 536	2.7	12
738	Numerical solution of nonlinear fractional optimal control problems using generalized Bernoulli polynomials. <i>Optimal Control Applications and Methods</i> , <b>2021</b> , 42, 1045-1063	1.7	2
737	Relation Between New Rooted Trees and Derivatives of Differential Equations <b>2021</b> , 45, 1025-1036		
736	Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 100, 104193	7.2	15
735	Substantial, tempered, and shifted fractional derivatives: Three faces of a tetrahedron. <i>Mathematical Methods in the Applied Sciences</i> , <b>2021</b> , 44, 9191-9209	2.3	8
734	Dynamical Analysis of the Dow Jones Index Using Dimensionality Reduction and Visualization. <i>Entropy</i> , <b>2021</b> , 23,	2.8	2
733	LMI-based stability analysis of fractional order systems of neutral type with time varying delays under actuator saturation. <i>Computational and Applied Mathematics</i> , <b>2021</b> , 40, 1	2.4	1
732	Design of multi innovation fractional LMS algorithm for parameter estimation of input nonlinear control autoregressive systems. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 93, 412-425	4.5	19
731	Adomian Decomposition and Fractional Power Series Solution of a Class of Nonlinear Fractional Differential Equations. <i>Mathematics</i> , <b>2021</b> , 9, 1070	2.3	9

730	Entropy analysis of human death uncertainty. <i>Nonlinear Dynamics</i> , <b>2021</b> , 104, 1-15	5	0
729	An optimization technique for solving a class of nonlinear fractional optimal control problems: Application in cancer treatment. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 93, 868-884	4.5	9
728	Uniform Manifold Approximation and Projection Analysis of Soccer Players. <i>Entropy</i> , <b>2021</b> , 23,	2.8	2
727	In memory of the honorary founding editors behind the FCAA success story. <i>Fractional Calculus and Applied Analysis</i> , <b>2021</b> , 24, 641-666	2.7	
726	Assessing the Effect of Laboratory Activities on Core Curricular Units of an Engineering Master's Program: A Multivariate Analysis. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-13	1.1	1
725	Numerical study of the nonlinear anomalous reaction-subdiffusion process arising in the electroanalytical chemistry. <i>Journal of Computational Science</i> , <b>2021</b> , 53, 101394	3.4	16
724	Cluster analysis of the large natural satellites in the solar system. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 89, 1268-1278	4.5	2
723	Complex-order particle swarm optimization. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 92, 105448	3.7	16
722	Numerical solution of time-fractional fourth-order reaction-diffusion model arising in composite environments. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 89, 819-836	4.5	25
721	An integro quadratic spline-based scheme for solving nonlinear fractional stochastic differential equations with constant time delay. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 92, 105475	3.7	9
720	A new hybrid method for two dimensional nonlinear variable order fractional optimal control problems. <i>Asian Journal of Control</i> , <b>2021</b> , 23, 2004-2018	1.7	0
719	The recovery of global stock markets indices after impacts due to pandemics. <i>Research in International Business and Finance</i> , <b>2021</b> , 55, 101335	4.8	23
718	On multistep tumor growth models of fractional variable-order. <i>BioSystems</i> , <b>2021</b> , 199, 104294	1.9	11
717	Multidimensional scaling analysis of generalized mean discrete-time fractional order controllers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 95, 105657	3.7	5
716	Spontaneous activation under atrial fibrosis: A model using complex order derivatives. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 95, 105618	3.7	3
715	Modeling and visualizing competitiveness in soccer leagues. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 92, 136-148	4.5	1
714	Robust stability of uncertain fractional order systems of neutral type with distributed delays and control input saturation. <i>ISA Transactions</i> , <b>2021</b> , 111, 144-155	5.5	4
713	An efficient local meshless approach for solving nonlinear time-fractional fourth-order diffusion model. <i>Journal of King Saud University - Science</i> , <b>2021</b> , 33, 101243	3.6	15

712	Numerical evaluation of the fractional Klein-Kramers model arising in molecular dynamics. <i>Journal of Computational Physics</i> , <b>2021</b> , 428, 109983	4.1	19
711	Optimal control of variable-order fractional model for delay cancer treatments. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 89, 1557-1574	4.5	17
710	Robust stability analysis of uncertain fractional order neutral-type delay nonlinear systems with actuator saturation. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 90, 1035-1048	4.5	7
709	Design of fractional evolutionary processing for reactive power planning with FACTS devices. <i>Scientific Reports</i> , <b>2021</b> , 11, 593	4.9	15
708	On distinctive solitons type solutions for some important nonlinear Schrödinger equations. <i>Optical and Quantum Electronics</i> , <b>2021</b> , 53, 1	2.4	6
707	Observer-based control approach for fractional-order delay systems of neutral type with saturating actuator. <i>Mathematical Methods in the Applied Sciences</i> , <b>2021</b> , 44, 8554-8564	2.3	2
706	A Clustering Perspective of the Collatz Conjecture. <i>Mathematics</i> , <b>2021</b> , 9, 314	2.3	6
705	The bouncing ball and the Gr̃wald-Letnikov definition of fractional derivative. <i>Fractional Calculus and Applied Analysis</i> , <b>2021</b> , 24, 1003-1014	2.7	4
704	Optimal solution of the fractional order breast cancer competition model. <i>Scientific Reports</i> , <b>2021</b> , 11, 15622	4.9	1
703	Advances in the computational analysis of SARS-COV2 genome. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 1-31	5	1
702	Numerical approximation of the nonlinear time-fractional telegraph equation arising in neutron transport. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 99, 105755	3.7	28
701	Convergence boundaries of complex-order particle swarm optimization algorithm with weak stagnation: dynamical analysis. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 725-743	5	1
700	Fractional and fractal processes applied to cryptocurrencies price series. <i>Journal of Advanced Research</i> , <b>2021</b> , 32, 85-98	13	5
699	Double color image encryption based on fractional order discrete improved Henon map and Rubik's cube transform. <i>Signal Processing: Image Communication</i> , <b>2021</b> , 97, 116363	2.8	3
698	A local stabilized approach for approximating the modified time-fractional diffusion problem arising in heat and mass transfer. <i>Journal of Advanced Research</i> , <b>2021</b> , 32, 45-60	13	18
697	Numerical simulation of a degenerate parabolic problem occurring in the spatial diffusion of biological population. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 151, 111220	9.3	4
696	Particle swarm optimization algorithm using complex-order derivative concept: A comprehensive study. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 111, 107641	7.5	5
695	Multidimensional scaling and visualization of patterns in distribution of nontrivial zeros of the zeta-function. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 102, 105924	3.7	4

694	Dynamics and bifurcations of a discrete-time prey-predator model with Allee effect on the prey population. <i>Ecological Complexity</i> , <b>2021</b> , 48, 100962	2.6	3
693	Numerical approach for modeling fractional heat conduction in porous medium with the generalized Cattaneo model. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 100, 107-124	4.5	2
692	Fractional LMS and NLMS Algorithms for Line Echo Cancellation. <i>Arabian Journal for Science and Engineering</i> , <b>2021</b> , 46, 9385-9398	2.5	4
691	Utilizing Macro Fiber Composite to Control Rotating Blade Vibrations. <i>Symmetry</i> , <b>2020</b> , 12, 1984	2.7	4
690	A Review of Fractional Order Entropies. <i>Entropy</i> , <b>2020</b> , 22,	2.8	9
689	A Review of Sample and Hold Systems and Design of a New Fractional Algorithm. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7360	2.6	3
688	Fractal and Entropy Analysis of the Dow Jones Index Using Multidimensional Scaling. <i>Entropy</i> , <b>2020</b> , 22,	2.8	3
687	Fractional-order modelling of epoxy resin. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2020</b> , 378, 20190292	3	8
686	Rare and extreme events: the case of COVID-19 pandemic. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 1-20	5	33
685	Commensurate and Non-Commensurate Fractional-Order Discrete Models of an Electric Individual-Wheel Drive on an Autonomous Platform. <i>Entropy</i> , <b>2020</b> , 22,	2.8	2
684	Fuzzy logic embedding of fractional order sliding mode and state feedback controllers for synchronization of uncertain fractional chaotic systems. <i>Computational and Applied Mathematics</i> , <b>2020</b> , 39, 1	2.4	4
683	Ball Comparison between Three Sixth Order Methods for Banach Space Valued Operators. <i>Mathematics</i> , <b>2020</b> , 8, 667	2.3	1
682	An Evolutionary Perspective of Virus Propagation. <i>Mathematics</i> , <b>2020</b> , 8, 779	2.3	4
681	Chebyshev spectral methods for multi-order fractional neutral pantograph equations. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 3785-3797	5	29
680	Shifted fractional Jacobi collocation method for solving fractional functional differential equations of variable order. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 134, 109721	9.3	17
679	Fractional Dynamics in Soccer Leagues. <i>Symmetry</i> , <b>2020</b> , 12, 356	2.7	3
678	Existence of Bounded Solutions to a Modified Version of the Bagley-Torvik Equation. <i>Mathematics</i> , <b>2020</b> , 8, 289	2.3	
677	A novel color image encryption algorithm based on a fractional-order discrete chaotic neural network and DNA sequence operations. <i>Frontiers of Information Technology and Electronic Engineering</i> , <b>2020</b> , 21, 866-879	2.2	24

676	Abundant structures of waves in plasma transitional layer sheath. <i>Chinese Journal of Physics</i> , <b>2020</b> , 67, 147-154	3.5	3
675	Numerical evaluation of fractional Tricomi-type model arising from physical problems of gas dynamics. <i>Journal of Advanced Research</i> , <b>2020</b> , 25, 205-216	13	23
674	Computational analysis of the SARS-CoV-2 and other viruses based on the Kolmogorov's complexity and Shannon's information theories. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 1-20	5	10
673	Analysis and implementation of fractional-order chaotic system with standard components. <i>Journal of Advanced Research</i> , <b>2020</b> , 25, 97-109	13	8
672	New discrete-time fractional derivatives based on the bilinear transformation: Definitions and properties. <i>Journal of Advanced Research</i> , <b>2020</b> , 25, 1-10	13	11
671	Fractional Dynamics and Pseudo-Phase Space of Country Economic Processes. <i>Mathematics</i> , <b>2020</b> , 8, 81	2.3	5
670	Highly accurate technique for solving distributed-order time-fractional-sub-diffusion equations of fourth order. <i>Computational and Applied Mathematics</i> , <b>2020</b> , 39, 1	2.4	4
669	Generalized shifted Chebyshev polynomials: Solving a general class of nonlinear variable order fractional PDE. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2020</b> , 85, 105229	3.7	14
668	Lyapunov method for the stability analysis of uncertain fractional-order systems under input saturation. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 81, 663-672	4.5	21
667	Multidimensional scaling locus of memristor and fractional order elements. <i>Journal of Advanced Research</i> , <b>2020</b> , 25, 147-157	13	16
666	Re-Evaluating the Classical Falling Body Problem. <i>Mathematics</i> , <b>2020</b> , 8, 553	2.3	2
665	Generalized Bernoulli Polynomials: Solving Nonlinear 2D Fractional Optimal Control Problems. <i>Journal of Scientific Computing</i> , <b>2020</b> , 83, 1	2.3	5
664	A Linear B-Spline Approximation for a Class of Nonlinear Time and Space Fractional Partial Differential Equations. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2020</b> , 67-85	0.7	
663	Fractional fractals. <i>Fractional Calculus and Applied Analysis</i> , <b>2020</b> , 23, 1329-1348	2.7	0
662	Traveling wave solutions to nonlinear directional couplers by modified Kudryashov method. <i>Physica Scripta</i> , <b>2020</b> , 95, 075217	2.6	69
661	Application of the Euler and Runge-Kutta Generalized Methods for FDE and Symbolic Packages in the Analysis of Some Fractional Attractors. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , <b>2020</b> , 21, 159-170	1.8	15
660	Numerical approach for modeling fractal mobile/immobile transport model in porous and fractured media. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 111, 104443	5.8	27
659	A combined measure to differentiate EEG signals using fractal dimension and MFDFA-Hurst. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2020</b> , 84, 105170	3.7	12



658	Numerical solution of the fractional RayleighStokes model arising in a heated generalized second-grade fluid. <i>Engineering With Computers</i> , <b>2020</b> , 37, 1751	4.5	22
657	Multidimensional scaling and visualization of patterns in prime numbers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2020</b> , 83, 105128	3.7	14
656	Measuring the Brazilian ethanol and gasoline market efficiency using DFA-Hurst and fractal dimension. <i>Energy Economics</i> , <b>2020</b> , 85, 104614	8.3	11
655	Time-fractional dependence of the shear force in some beam type problems with negative Young modulus. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 80, 668-682	4.5	5
654	The (psi )-Hilfer fractional calculus of variable order and its applications. <i>Computational and Applied Mathematics</i> , <b>2020</b> , 39, 1	2.4	8
653	Dynamics and optimal control of multibody systems using fractional generalized divide-and-conquer algorithm. <i>Nonlinear Dynamics</i> , <b>2020</b> , 102, 1611-1626	5	0
652	Stability analysis of fractional order neutral-type systems considering time varying delays, nonlinear perturbations, and input saturation. <i>Mathematical Methods in the Applied Sciences</i> , <b>2020</b> , 43, 10332-10345	2.3	7
651	Generalized Newtonian fractional model for the vertical motion of a particle. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 88, 652-660	4.5	3
650	Improved Decentralized Fractional PD Control of Structure Vibrations. <i>Mathematics</i> , <b>2020</b> , 8, 326	2.3	16
649	Output-feedback-guaranteed cost control of fractional-order uncertain linear delayed systems. <i>Computational and Applied Mathematics</i> , <b>2020</b> , 39, 1	2.4	7
648	A discrete polynomials approach for optimal control of fractional Volterra integro-differential equations. <i>JVC/Journal of Vibration and Control</i> , <b>2020</b> , 107754632097115	2	3
647	On dual Bernstein polynomials and stochastic fractional integro-differential equations. <i>Mathematical Methods in the Applied Sciences</i> , <b>2020</b> , 43, 9928-9947	2.3	3
646	Analysis of a rectangular prism n-units RLC fractional-order circuit network. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 3091-3104	6.1	3
645	Numerical investigation of fractional nonlinear sine-Gordon and Klein-Gordon models arising in relativistic quantum mechanics. <i>Engineering Analysis With Boundary Elements</i> , <b>2020</b> , 120, 223-237	2.6	22
644	Solving nonlinear systems of fractional-order partial differential equations using an optimization technique based on generalized polynomials. <i>Computational and Applied Mathematics</i> , <b>2020</b> , 39, 1	2.4	3
643	Revisiting the 1D and 2D Laplace Transforms. <i>Mathematics</i> , <b>2020</b> , 8, 1330	2.3	9
642	Solitary Wave Solutions of the Generalized Rosenau-KdV-RLW Equation. <i>Mathematics</i> , <b>2020</b> , 8, 1601	2.3	9
641	Variable coefficient fractional-order PID controller and its application to a SEPIC device. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 900-908	2.5	8



640	Computer Analysis of Human Belligerency. <i>Mathematics</i> , <b>2020</b> , 8, 1201	2.3	1
639	Understanding COVID-19 nonlinear multi-scale dynamic spreading in Italy. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 1-37	5	14
638	Sufficient conditions for existence and uniqueness of fractional stochastic delay differential equations. <i>Stochastics</i> , <b>2020</b> , 92, 379-396	0.6	12
637	A computational approach for the non-smooth solution of non-linear weakly singular Volterra integral equation with proportional delay. <i>Numerical Algorithms</i> , <b>2020</b> , 83, 987-1006	2.1	9
636	Numerical approach for solving variable-order space-time fractional telegraph equation using transcendental Bernstein series. <i>Engineering With Computers</i> , <b>2020</b> , 36, 867-878	4.5	29
635	Numerical solution of variable-order fractional integro-partial differential equations via Sinc collocation method based on single and double exponential transformations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2020</b> , 82, 104985	3.7	44
634	On the properties of some operators under the perspective of fractional system theory. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2020</b> , 82, 105022	3.7	9
633	Electrochemical impedance spectroscopy characterization of beverages. <i>Food Chemistry</i> , <b>2020</b> , 302, 125345	3.5	10
632	Multi-dimensional spectral tau methods for distributed-order fractional diffusion equations. <i>Computers and Mathematics With Applications</i> , <b>2020</b> , 79, 476-488	2.7	23
631	Property of Self-Similarity Between Baseband and Modulated Signals. <i>Mobile Networks and Applications</i> , <b>2020</b> , 25, 1537-1547	2.9	19
630	An innovative fractional order LMS algorithm for power signal parameter estimation. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 83, 703-718	4.5	24
629	An efficient numerical technique for variable order time fractional nonlinear Klein-Gordon equation. <i>Applied Numerical Mathematics</i> , <b>2020</b> , 154, 260-272	2.5	8
628	A new fractal nonlinear Burgers' equation arising in the acoustic signals propagation. <i>Mathematical Methods in the Applied Sciences</i> , <b>2019</b> , 42, 7539-7544	2.3	68
627	Design of momentum fractional LMS for Hammerstein nonlinear system identification with application to electrically stimulated muscle model. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	21
626	Dynamic Shannon Performance in a Multiobjective Particle Swarm Optimization. <i>Entropy</i> , <b>2019</b> , 21, 827	2.8	2
625	Optimal control of nonlinear fed-batch process using direct transcription method. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 130, 106561	4	7
624	The failure of certain fractional calculus operators in two physical models. <i>Fractional Calculus and Applied Analysis</i> , <b>2019</b> , 22, 255-270	2.7	23
623	A computational perspective of the periodic table of elements. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 78, 104883	3.7	4

622	Computational scheme for solving nonlinear fractional stochastic differential equations with delay. <i>Stochastic Analysis and Applications</i> , <b>2019</b> , 37, 893-908	1.1	22
621	Delay-dependent stability analysis of the QUAD vector field fractional order quaternion-valued memristive uncertain neutral type leaky integrator echo state neural networks. <i>Neural Networks</i> , <b>2019</b> , 117, 307-327	9.1	27
620	The Lorentz transformations and one observation in the perspective of fractional calculus. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 78, 104855	3.7	2
619	Fractional Rényi entropy?. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	11
618	A piecewise spectral-collocation method for solving fractional Riccati differential equation in large domains. <i>Computational and Applied Mathematics</i> , <b>2019</b> , 38, 1	2.4	9
617	Delay independent robust stability analysis of delayed fractional quaternion-valued leaky integrator echo state neural networks with QUAD condition. <i>Applied Mathematics and Computation</i> , <b>2019</b> , 359, 278-293	2.7	22
616	Derivative Free Fourth Order Solvers of Equations with Applications in Applied Disciplines. <i>Symmetry</i> , <b>2019</b> , 11, 586	2.7	0
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275	Controllability and Minimum Energy Control Problem of Fractional Discrete-Time Systems <b>2010</b> , 503-509		40
274	Modeling Ultracapacitors as Fractional-Order Systems <b>2010</b> , 257-262		10
273	Synchronization of Gyro Systems via Fractional-Order Adaptive Controller <b>2010</b> , 495-502		6
272	Control of Chaos via Fractional-Order State Feedback Controller <b>2010</b> , 511-519		8
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265	Synchronization of Chaotic Nonlinear Gyros Using Fractional Order Controller <b>2010</b> , 479-485		4
264	Fractional Order Adaptive Control for Cogging Effect Compensation <b>2010</b> , 393-409		2
263	Stability Analysis of Fractional Order Universal Adaptive Stabilization <b>2010</b> , 357-368		4



262	Synchronization of Fractional-Order Chaotic System via Adaptive PID Controller <b>2010</b> , 445-452		3
261	Generalized Hankel Transform and Fractional Integrals on the Spaces of Generalized Functions <b>2010</b> , 203-212		
260	Air-Fuel Ratio Control of an Internal Combustion Engine Using CRONE Control Extended to LPV Systems <b>2010</b> , 71-86		1
259	Analytical Design Method for Fractional Order Controller Using Fractional Reference Model <b>2010</b> , 295-303		2
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239	Fractional Differential Equations on Algebroids and Fractional Algebroids <b>2010</b> , 193-201		1
238	Hybrid Single Walled Carbon Nanotube FETs for High Fidelity DNA Detection <b>2010</b> , 17-24		1
237	IPMC Actuators Non Integer Order Models <b>2010</b> , 263-272		3
236	Fractional Order Model of Beam Heating Process and Its Experimental Verification <b>2010</b> , 287-294		20
235	On Observability of Nonlinear Discrete-Time Fractional-Order Control Systems <b>2010</b> , 305-312		10
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231	Towards Integrated Nanoelectronic and Photonic Devices <b>2010</b> , 25-41		1
230	Analytical Impulse Response of Third Generation CRONE Control <b>2010</b> , 343-356		5
229	Resonance and Stability Conditions for Fractional Transfer Functions of the Second Kind <b>2010</b> , 429-444		2
228	A Fractional Order Adaptation Law for Integer Order Sliding Mode Control of a 2DOF Robot <b>2010</b> , 471-478		2
227	Nyquist Envelope of Fractional Order Transfer Functions with Parametric Uncertainty <b>2010</b> , 487-494		3

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222	Comparing Numerical Methods for Solving Nonlinear Fractional Order Differential Equations <b>2010</b> , 171-179	
221	Fractional-Order Backward-Difference Definition Formula Analysis <b>2010</b> , 181-191	
220	Synchronization Analysis of Two Networks <b>2010</b> , 243-253	1
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165	LMI Characterization of Fractional Systems Stability <b>2007</b> , 419-434		13
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155	Implementation of Fractional-order Operators on Field Programmable Gate Arrays <b>2007</b> , 333-346		20

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134	Active Wave Control for Flexible Structures Using Fractional Calculus <b>2007</b> , 435-448		1
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128	Identification of Fractional Models from Frequency Data <b>2007</b> , 229-242		11
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48	A comparison of formalisms for electronic commerce systems		2
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28	A unified framework for dynamics and Lyapunov stability of holonomically constrained rigid bodies	4
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26	Pseudoinverse trajectory control of redundant manipulators: a fractional calculus perspective	4
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24	A GA perspective of the energy requirements for manipulators maneuvering in a workspace with obstacles	1
23	Chaos dynamics in the trajectory control of redundant manipulators	4
22	Towards the development of intelligent transportation systems	137
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20	Dynamic performance of biped locomotion systems	4
19	Fractional-order hybrid control of robot manipulators	5
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