

# CITATION REPORT

List of articles citing

## Analogue Realizations of Fractional-Order Controllers

DOI: 10.1023/a:1016556604320  
Nonlinear Dynamics, 2002, 29, 281-296.

**Source:** <https://exaly.com/paper-pdf/34818089/citation-report.pdf>

**Version:** 2024-04-24

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
426	Numerical Simulations of Fractional Systems: An Overview of Existing Methods and Improvements. <i>Nonlinear Dynamics</i> , <b>2004</b> , 38, 117-131	5	87
425	Chaos and hyperchaos in the fractional-order Rössler equations. <b>2004</b> , 341, 55-61		512
424	Chaos in the fractional order Chen system and its control. <b>2004</b> , 22, 549-554		393
423	Combining loop-shaping and Laguerre development for rational approximation of a noninteger order, integral, analog controller.		
422	CHAOTIC DYNAMICS AND SYNCHRONIZATION OF FRACTIONAL-ORDER CHUA'S CIRCUITS WITH A PIECEWISE-LINEAR NONLINEARITY. <b>2005</b> , 19, 3249-3259		25
421	A Note on the Fractional-Order Cellular Neural Networks. <b>2006</b> ,		26
420	ANALOG IMPLEMENTATION OF NON INTEGER ORDER INTEGRATOR VIA FIELD PROGRAMMABLE ANALOG ARRAY. <b>2006</b> , 39, 107-111		4
419	Synchronization of a class of fractional-order chaotic systems via a scalar transmitted signal. <b>2006</b> , 27, 519-525		64
418	Fractional order control strategies for power electronic buck converters. <b>2006</b> , 86, 2803-2819		207
417	On Fractional Adaptive Control. <i>Nonlinear Dynamics</i> , <b>2006</b> , 43, 365-378	5	187
416	On Fractional-Order QFT Controllers. <b>2007</b> , 129, 212-218		16
415	Stability analysis and oscillatory structures in time-fractional reaction-diffusion systems. <b>2007</b> , 75, 055201		41
414	Tip position control of a lightweight flexible manipulator using a fractional order controller. <b>2007</b> , 1, 1451-1460		81
413	Suboptimum H2 Pseudo-rational Approximations to Fractional-order Linear Time Invariant Systems. <b>2007</b> , 61-75		8
412	State-Space Self-Tuning Control for Stochastic Fractional-Order Chaotic Systems. <b>2007</b> , 54, 632-642		24
411	Chaos in a new system with fractional order. <b>2007</b> , 31, 1203-1212		49
410	Chaos in a fractional order modified Duffing system. <b>2007</b> , 34, 262-291		114

409	Chaos in a modified van der Pol system and in its fractional order systems. <b>2007</b> , 32, 1791-1822	39
408	Anticontrol of chaos of the fractional order modified van der Pol systems. <b>2007</b> , 187, 1161-1172	4
407	Approximation of transient temperatures in complex geometries using fractional derivatives. <b>2008</b> , 44, 771-777	13
406	Existence results for fractional order functional differential equations with infinite delay. <b>2008</b> , 338, 1340-1350	289
405	Tuning and auto-tuning of fractional order controllers for industry applications. <b>2008</b> , 16, 798-812	664
404	Parametric study of the fractional-order Chen-Lee system. <b>2008</b> , 37, 817-826	24
403	A note on the fractional-order Chua system. <b>2008</b> , 38, 140-147	163
402	Some results for fractional boundary value problem of differential inclusions. <b>2008</b> , 69, 3877-3896	71
401	Active and Passive Realization of Fractance Device of Order 1/2. <b>2008</b> , 2008, 1-5	117
400	Fractional controller design for a binary distillation column using the method of inequalities. <b>2008</b> ,	
399	. <b>2008</b> ,	
398	Existence results for boundary value problems with non-linear fractional differential equations. <b>2008</b> , 87, 851-863	135
397	Continued fractions approximation of the impulse response of fractional-order dynamic systems. <b>2008</b> , 2, 564-572	68
396	Fractional-order signal processing using a polymer-electrolyte transistor. <b>2008</b> ,	1
395	Field Programmable Analog Array Implementation of Noninteger Order PID Controller. <b>2008</b> , 3,	10
394	Microelectronic Implementations of Fractional-Order Integrodifferential Operators. <b>2008</b> , 3,	12
393	Spatiotemporal pattern formation in fractional reaction-diffusion systems with indices of different order. <b>2008</b> , 77, 066210	21
392	An interactive tool for fractional order PID controllers. <b>2009</b> ,	7

391	. 2009,	4
390	A Survey on Semilinear Differential Equations and Inclusions Involving Riemann-Liouville Fractional Derivative. 2009, 2009, 1-47	76
389	Fractional order controller robust to time delay variations for water distribution in an irrigation main canal pool. 2009, 69, 185-197	52
388	Chaos in the fractional-order Volterra system: modeling and simulation. <i>Nonlinear Dynamics</i> , 2009, 57, 157-170	5 82
387	Fractional-order integral and derivative controller for temperature profile tracking. 2009, 34, 833-850	23
386	Design of retarded fractional delay differential systems using the method of inequalities. 2009, 6, 22-28	7
385	Fractional functional differential inclusions with finite delay. 2009, 70, 2091-2105	129
384	Boundary value problems for differential equations with fractional order and nonlocal conditions. 2009, 71, 2391-2396	186
383	The method of upper and lower solutions and impulsive fractional differential inclusions. 2009, 3, 433-440	25
382	Darboux problem for perturbed partial differential equations of fractional order with finite delay. 2009, 3, 597-604	34
381	Fractional-order memristive systems. 2009,	15
380	HYPERCHAOS IN THE FRACTIONAL-ORDER RÖSSLER SYSTEM WITH LOWEST-ORDER. 2009, 19, 339-347	40
379	Fractional order control - A tutorial. 2009,	401
378	Fractional order model reference adaptive control for a hydraulic driven flight motion simulator. 2009,	
377	Development of a toolbox for frequency response analysis of fractional order control systems. 2009,	3
376	Synthesis and implementation of non-integer integrators using RLC devices. 2009, 96, 1207-1223	14
375	Fractional operators' synthesis and realization using electrical and Bond Graph approaches. 2009,	3
374	Existence of Periodic Solution for a Nonlinear Fractional Differential Equation. 2009, 2009, 1-18	95

373	Design of PI and PID Controllers for Fractional Order Time Delay Systems. <b>2010</b> , 43, 355-360		7
372	Load frequency control and automatic generation control using fractional-order controllers. <b>2010</b> , 91, 357-368		112
371	On a class of retarded integro-differential equations with nonlocal initial conditions. <b>2010</b> , 59, 3700-3709		7
370	A Survey on Existence Results for Boundary Value Problems of Nonlinear Fractional Differential Equations and Inclusions. <b>2010</b> , 109, 973-1033		523
369	An improved non-classical method for the solution of fractional differential equations. <b>2010</b> , 46, 721-734		25
368	Chaotic behavior of a class of discontinuous dynamical systems of fractional-order. <i>Nonlinear Dynamics</i> , <b>2010</b> , 60, 525-534	5	12
367	Field programmable analogue array implementation of fractional step filters. <i>IET Circuits, Devices and Systems</i> , <b>2010</b> , 4, 514	1.1	135
366	Fractional order phase shaper design with Bode's integral for iso-damped control system. <b>2010</b> , 49, 196-206		24
365	Existence results for fractional order semilinear functional differential equations with nondense domain. <b>2010</b> , 72, 925-932		34
364	Upper and lower solutions method for impulsive partial hyperbolic differential equations with fractional order. <b>2010</b> , 4, 406-413		38
363	A note on the fractional-order Volterra system. <b>2010</b> , 15, 384-393		28
362	New results on the synthesis of FO-PID controllers. <b>2010</b> , 15, 997-1007		52
361	Fractional-order attractors synthesis via parameter switchings. <b>2010</b> , 15, 3745-3753		11
360	Impulsive differential inclusions with fractional order. <b>2010</b> , 59, 1191-1226		72
359	Impulsive fractional differential equations with variable times. <b>2010</b> , 59, 1245-1252		20
358	. <b>2010</b> ,		7
357	Fractional Order Calculus: Basic Concepts and Engineering Applications. <i>Mathematical Problems in Engineering</i> , <b>2010</b> , 2010, 1-19	1.1	131
356	On Type of Periodicity and Ergodicity to a Class of Fractional Order Differential Equations. <b>2010</b> , 2010, 1-26		11

355	Stabilizing fractional-order PI and PD controllers: An integer-order implemented system approach. <b>2010</b> , 224, 893-903	9
354	. <b>2010</b> ,	19
353	Block pulse-based techniques for modelling and synthesis of non-integer systems. <b>2010</b> , 41, 487-499	3
352	Design of a Fractional Order Phase Shaper for Iso-Damped Control of a PHWR Under Step-Back Condition. <b>2010</b> , 57, 1602-1612	44
351	Fractional-order circuits and systems: An emerging interdisciplinary research area. <b>2010</b> , 10, 40-50	349
350	Integer order approximation of fractional order systems. <b>2010</b> ,	3
349	Optimizing Continued Fraction Expansion Based IIR Realization of Fractional Order Differ-Integrators with Genetic Algorithm. <b>2011</b> ,	11
348	Digital Fractional Order Savitzky-Golay Differentiator. <b>2011</b> , 58, 758-762	63
347	Neural Network Assisted Computationally Simple $PI^{\lambda}D^{\mu}$ Control of a Quadrotor UAV. <b>2011</b> , 7, 354-361	131
346	Analog realization of fractional order hybrid differentiators via Carlson's approach. <b>2011</b> ,	5
345	Dynamic Modeling of Li-Ion Batteries Using an Equivalent Electrical Circuit. <b>2011</b> , 158, A326	54
344	Implementation of first and third order fractional order differentiators and integrators using switched capacitors. <b>2011</b> ,	1
343	. <b>2011</b> ,	
342	Fractional-Order Systems. <b>2011</b> , 43-54	29
341	Fractional Calculus. <b>2011</b> , 7-42	12
340	Revisiting oustaloup's recursive filter for analog realization of fractional order differintegrators. <b>2011</b> ,	6
339	Conditions for a Class of Rational Approximants of Fractional Differentiators/Integrators to Enjoy the Interlacing Property. <b>2011</b> , 44, 13984-13989	11
338	Numerical extraction of Cole-Cole impedance parameters from step response. <b>2011</b> , 2, 548-561	15

337	Lateral directional fractional order (PI) $\mathbb{H}$ control of a small fixed-wing unmanned aerial vehicles: controller designs and flight tests. <b>2011</b> , 5, 2156-2167		63
336	A Physical experimental study of variable-order fractional integrator and differentiator. <b>2011</b> , 193, 93-104		50
335	Study of the inertial effect and the nonlinearities of the CRONE suspension based on the hydropneumatic technology. <i>Nonlinear Dynamics</i> , <b>2011</b> , 63, 1-17	5	3
334	Abstract fractional integro-differential equations involving nonlocal initial conditions in $\mathbb{H}$ -norm. <b>2011</b> , 2011,		1
333	RC models of a constant phase element. <b>2011</b> , 41, n/a-n/a		38
332	Modeling and numerical analysis of fractional-order Bloch equations. <b>2011</b> , 61, 341-356		51
331	Robust stability analysis for a class of fractional order systems with uncertain parameters. <b>2011</b> , 348, 1101-1113		71
330	On the selection of tuning methodology of FOPID controllers for the control of higher order processes. <b>2011</b> , 50, 376-88		168
329	Chaotic dynamics in BonhofferVan der Pol fractional reaction-diffusion system. <b>2011</b> , 91, 452-460		7
328	On the practical realization of higher-order filters with fractional stepping. <b>2011</b> , 91, 484-491		100
327	Studies on fractional order differentiators and integrators: A survey. <b>2011</b> , 91, 386-426		326
326	Exact Solution of Impulse Response to a Class of Fractional Oscillators and Its Stability. <i>Mathematical Problems in Engineering</i> , <b>2011</b> , 2011, 1-9	1.1	54
325	On a Differential Equation Involving Hilfer-Hadamard Fractional Derivative. <b>2012</b> , 2012, 1-17		31
324	The Use of Cubic Splines in the Numerical Solution of Fractional Differential Equations. <b>2012</b> , 2012, 1-16		15
323	Fractional order robust controller design for hight speed attack unmanned air vehicle. <b>2012</b> ,		0
322	Robust fractional order differentiator. <b>2012</b> ,		
321	Fractional order differentiation by integration with Jacobi polynomials. <b>2012</b> ,		7
320	Multi-machine fractional-order power system stabilizers. <b>2012</b> ,		2

319	Fractional-order QFT controllers for unstable plants based on automatic loop shaping. <b>2012,</b>		
318	Optimized quality factor of fractional order analog filters with band-pass and band-stop characteristics. <b>2012,</b>		4
317	Fractional order QFT controller for nonlinear systems. <b>2012,</b>		
316	Fractional-step Tow-Thomas biquad filters. <b>2012, 3, 357-374</b>		39
315	A Filippov's Theorem, Some Existence Results and the Compactness of Solution Sets of Impulsive Fractional Order Differential Inclusions. <b>2012, 9, 453-485</b>		11
314	Fractional-Order PID. <b>2012, 465-493</b>		2
313	High-quality factor asymmetric-slope band-pass filters: a fractional-order capacitor approach. <i>IET Circuits, Devices and Systems</i> , <b>2012, 6, 187</b>	1.1	74
312	Identification of Parameters of a Half-Order System. <b>2012, 60, 5561-5566</b>		43
311	Fractional controller design for suppressing smart beam vibrations. <b>2012, 84, 203-212</b>		15
310	SVC Voltage Regulator Based on Fractional Order PID. <b>2012,</b>		1
309	. <b>2012,</b>		3
308	Improved Cole-Cole parameter extraction from frequency response using least squares fitting. <b>2012,</b>		6
307	Chaos suppression in a fractional order financial system using intelligent regrouping PSO based fractional fuzzy control policy in the presence of fractional Gaussian noise. <i>Nonlinear Dynamics</i> , <b>2012, 70, 2445-2461</b>	5	34
306	Thiele's continued fractions in digital implementation of noninteger differintegrators. <b>2012, 6, 401-410</b>		15
305	Dynamical analysis of fractional order Udr prototype delayed system. <b>2012, 6, 513-519</b>		21
304	1-D and 2-D digital fractional-order Savitzky-Golay differentiator. <b>2012, 6, 503-511</b>		24
303	Approximate controllability of partial neutral functional differential systems of fractional order with state-dependent delay. <b>2012, 85, 1051-1062</b>		51
302	Fractional-order circuit elements with memory. <b>2012,</b>		12



301	A novel fractional order fuzzy PID controller and its optimal time domain tuning based on integral performance indices. <b>2012</b> , 25, 430-442		174
300	Projective synchronization of different fractional-order chaotic systems with non-identical orders. <b>2012</b> , 13, 1761-1771		66
299	On fractional order derivatives and Darboux problem for implicit differential equations. <i>Fractional Calculus and Applied Analysis</i> , <b>2012</b> , 15,	2.7	33
298	Rational approximation for fractional-order system by particle swarm optimization. <i>Nonlinear Dynamics</i> , <b>2012</b> , 67, 1387-1395	5	37
297	Finding attractors of continuous-time systems by parameter switching. <i>Nonlinear Dynamics</i> , <b>2012</b> , 67, 2317-2342	5	18
296	Quadratic spline solution for boundary value problem of fractional order. <b>2012</b> , 59, 373-391		17
295	Rational Approximation and Analog Realization of Fractional Order Transfer Function with Multiple Fractional Powered Terms. <b>2013</b> , 15, 723-735		16
294	Frequency boundary of fractional order systems with nonlinear uncertainties. <b>2013</b> , 350, 1908-1925		19
293	Effect of Initialization on a Class of Fractional Order Systems: Experimental Verification and Dependence on Nature of Past History and System Parameters. <b>2013</b> , 32, 1501-1522		11
292	Numerical treatment for solving the perturbed fractional PDEs using hybrid techniques. <b>2013</b> , 250, 565-573		22
291	Closed-Form Rational Approximations of Fractional, Analog and Digital Differentiators/Integrators. <b>2013</b> , 3, 322-329		25
290	Fractional-order complementary filters for small unmanned aerial system navigation. <b>2013</b> ,		1
289	Efficient analog implementations of fractional-order controllers. <b>2013</b> ,		11
288	Packaging of Single-Component Fractional Order Element. <b>2013</b> , 13, 73-80		56
287	Governor design for isolated steam power systems using fractional-order PID. <b>2013</b> ,		
286	Optimization of zero/pole interlacing for indirect discrete approximations of noninteger order operators. <b>2013</b> , 66, 746-754		9
285	A novel fractional-order hyperchaotic system stabilization via fractional sliding-mode control. <i>Nonlinear Dynamics</i> , <b>2013</b> , 74, 721-732	5	40
284	Posicast control of a class of fractional-order processes. <b>2013</b> , 11,		

283	A Survey of Fractional-Order Circuit Models for Biology and Biomedicine. <b>2013</b> , 3, 416-424	324
282	. <b>2013</b> , 21, 459-466	71
281	Use of squared magnitude function in approximation and hardware implementation of SISO fractional order system. <b>2013</b> , 350, 1753-1767	12
280	Characteristic ratio assignment in fractional order systems (case 0 <b>2013</b> , 35, 360-374	6
279	Fractional Order Modeling of Large Three-Dimensional RC Networks. <b>2013</b> , 60, 624-637	68
278	On the Cauchy Problems of Fractional Evolution Equations with Nonlocal Initial Conditions. <b>2013</b> , 63, 15-30	14
277	Fractional Step Analog Filter Design. <b>2013</b> , 243-267	3
276	Enhancement of Fuzzy PID Controller with Fractional Calculus. <b>2013</b> , 159-193	4
275	Applied Fractional Calculus for Computational Intelligence Researchers. <b>2013</b> , 9-61	
274	. <b>2013</b> , 58, 1579-1585	31
273	Fractional integro-differential calculus and its control-theoretical applications. II. Fractional dynamic systems: Modeling and hardware implementation. <b>2013</b> , 74, 725-749	19
272	IMPLEMENTATION OF THE FRACTIONAL-ORDER CHENΠEE SYSTEM BY ELECTRONIC CIRCUIT. <b>2013</b> , 23, 1350030	21
271	Existence and uniqueness results for boundary value problems of higher order fractional integro-differential equations involving Gronwall's inequality in Banach spaces. <b>2013</b> , 33, 758-772	24
270	Microscale electrostatic fractional capacitors using reduced graphene oxide percolated polymer composites. <b>2013</b> , 102, 232901	125
269	Continuous order identification of PHWR models under step-back for the design of hyper-damped power tracking controller with enhanced reactor safety. <b>2013</b> , 257, 109-127	18
268	Design of fractional PI controller with guaranteed time and frequency-domain performances. <b>2013</b> ,	3
267	On an Integro-differential Inclusion of Fractional Order. <b>2013</b> , 21, 225-236	0
266	Analogue Realization of Fractional-Order Dynamical Systems. <b>2013</b> , 15, 4199-4214	101

265	Fractional Resonance-Based RLC Filters. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-10	1.1	36
264	Existence Results for a Class of Fractional Differential Equations with Periodic Boundary Value Conditions and with Delay. <b>2013</b> , 2013, 1-8		5
263	Extremal Solutions and Relaxation Problems for Fractional Differential Inclusions. <b>2013</b> , 2013, 1-9		6
262	Fractionalization: A New Tool for Robust Adaptive Control of Noisy Plants. <b>2013</b> , 46, 379-384		2
261	Stabilization and Tracking Control of Inverted Pendulum Using Fractional Order PID Controllers. <b>2014</b> , 2014, 1-9		31
260	Circuit proposition for realization of approximated fractional order systems. <b>2014</b> ,		
259	Filter approximation and model reduction comparison for fractional order systems. <b>2014</b> ,		4
258	A new hybrid control method for controlling back-to-back converter in permanent magnet synchronous generator wind turbines. <b>2014</b> , 6, 033133		1
257	Current feedback operational amplifier (CFOA) based fractional order oscillators. <b>2014</b> ,		3
256	Design of robust fractional order PI for FOPDT systems via set inversion. <b>2014</b> ,		2
255	Viscoelasticity: An electrical point of view. <b>2014</b> ,		2
254	Design of model predictive control for linear fractional-order systems. <b>2014</b> ,		1
253	Periodic disturbance rejection with unknown frequency and unknown plant structure. <b>2014</b> , 351, 1074-1092		23
252	Periodic solutions of a fractional neutral equation with finite delay. <b>2014</b> , 14, 417-444		6
251	Fractional-Order Complementary Filters for Small Unmanned Aerial System Navigation. <b>2014</b> , 73, 429-453		9
250	Approximate Controllability of Impulsive Fractional Integro-Differential Systems with Nonlocal Conditions in Hilbert Space. <b>2014</b> , 35, 177-197		42
249	Extracting the parameters of the double-dispersion Cole bioimpedance model from magnitude response measurements. <b>2014</b> , 52, 749-58		60
248	A novel class of fractionally orthogonal quasi-polynomials and new fractional quadrature formulas. <b>2014</b> , 245, 206-219		4

247	Discrete approximation methods for linear fractional-order systems: A comparative study. <b>2014</b> ,		0
246	A fractional calculus approach to the dynamic optimization of biological reactive systems. Part II: Numerical solution of fractional optimal control problems. <b>2014</b> , 117, 239-247		18
245	Robust FOPI controller design for power control of PHWR under step-back condition. <b>2014</b> , 274, 20-29		18
244	Improving integral square error performance with implementable fractional-order PI controllers. <b>2014</b> , 35, 303-323		13
243	On new existence results for fractional integro-differential equations with impulsive and integral conditions. <b>2014</b> , 66, 2587-2594		28
242	Ideal, Simplified and Inverted Decoupling of Fractional Order TITO Processes. <b>2014</b> , 47, 2897-2902		10
241	Automatic Generation Control of Single Area Thermal Power System with Fractional Order PID (PID) Controllers. <b>2014</b> , 47, 552-557		10
240	CCII based half integrator using different approximation methods. <b>2015</b> ,		
239	Design and analysis of improved fractional order Butterworth filters. <b>2015</b> ,		
238	Design of a fractional order adaptive controller for velocity control of a permanent magnet synchronous motor. <b>2015</b> , 34, 1191-1212		7
237	Approximated Fractional Order Chebyshev Lowpass Filters. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-7	1.1	54
236	Adaptive Inverse Optimal Control of a Novel Fractional-Order Four-Wing Hyperchaotic System with Uncertain Parameter and Circuitry Implementation. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-15	1.1	1
235	Periodic disturbance rejection for fractional-order dynamical systems. <i>Fractional Calculus and Applied Analysis</i> , <b>2015</b> , 18, 603-620	2.7	10
234	Realization of fractional order integrator by rational function in the form of continued product. <b>2015</b> ,		2
233	DE-based tuning of PID controllers. <b>2015</b> , 59, 398-407		28
232	Design and analysis of improved fractional order Butterworth lowpass filters. <b>2015</b> ,		1
231	Fractance circuit design based on a method of constructing the rational approximation function in the form of factorization. <b>2015</b> ,		
230	Analysis of Model Predictive Control for Fractional-Order System. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 173-194	0.4	1

229	Analog realization of a low-voltage two-order selectable fractional-order differentiator in a 0.35 $\mu$ m CMOS technology. <b>2015,</b>	4
228	Design and realization of fractional order butterworth low pass filters. <b>2015,</b>	7
227	Optimal fractional order PID controller for automatic generation control of two-area power systems. <b>2015,</b> 25, 3329-3348	24
226	Symbolic representation for analog realization of a family of fractional order controller structures via continued fraction expansion. <b>2015,</b> 57, 390-402	6
225	Identification of Fractional-Order Transfer Functions Using a Step Excitation. <b>2015,</b> 62, 896-900	26
224	Performance analysis of model predictive control for linear fractional-order system with bounded disturbance. <b>2015,</b>	
223	Fractional Order Differentiation by Integration and Error Analysis in Noisy Environment. <b>2015,</b> 60, 2945-2960	40
222	. <b>2015,</b>	3
221	Realizability of Fractional-Order Impedances by Passive Electrical Networks Composed of a Fractional Capacitor and RLC Components. <b>2015,</b> 62, 2829-2835	45
220	Emulation of a constant phase element using operational transconductance amplifiers. <b>2015,</b> 85, 413-423	60
219	Fractional-order Proportional-integral-derivative-based Automatic Generation Control in Deregulated Power Systems. <b>2015,</b> 43, 1931-1945	31
218	The fractional-order state-space averaging modeling of the BuckBoost DC/DC converter in discontinuous conduction mode and the performance analysis. <i>Nonlinear Dynamics</i> , <b>2015,</b> 79, 689-703	5 44
217	Kriging Based Surrogate Modeling for Fractional Order Control of Microgrids. <b>2015,</b> 6, 36-44	117
216	Uniqueness and Ulam stabilities results for partial fractional differential equations with not instantaneous impulses. <b>2015,</b> 257, 190-198	42
215	On the Possibility of the Jerk Derivative in Electrical Circuits. <b>2016,</b> 2016, 1-8	4
214	Robust combined feedback/feedforward control for fractional FOPDT systems. <b>2016,</b> 37, 902-921	2
213	An open-source real-time UAS flight control prototyping and testing platform with fractional-order horizontal controller example. <b>2016,</b>	
212	Implementation of high frequency fractional order differentiator. <b>2016,</b>	1

211	Solvability of a boundary value problem with caputo derivative. <b>2016</b> , 19, 907-915	7
210	Fractional-Order Euler-Lagrange Equation for Fractional-Order Variational Method: A Necessary Condition for Fractional-Order Fixed Boundary Optimization Problems in Signal Processing and Image Processing. <b>2016</b> , 4, 10110-10135	15
209	Fractional-order inverting and non-inverting filters based on CFOA. <b>2016</b> ,	11
208	Simple approach for synthesis of fractional-order grounded immittances based on OTAs. <b>2016</b> ,	7
207	Fractional-order oscillator based on single CCII. <b>2016</b> ,	8
206	Implementation of constant phase elements using low-Q band-pass and band-reject filtering sections. <b>2016</b> ,	6
205	Control fraccionario: fundamentos y gu de uso. <b>2016</b> , 13, 265-280	6
204	Finite-time stability and synchronization for memristor-based fractional-order Cohen-Grossberg neural network. <b>2016</b> , 89, 1	33
203	Order-Frequency Characteristics of a Promising Circuit Element: Fractor. <b>2016</b> , 25, 1650156	1
202	Practical Realization of Tunable Fractional Order Parallel Resonator and Fractional Order Filters. <b>2016</b> , 63, 1142-1151	74
201	Electronically tunable fractional-order low-pass filter with current followers. <b>2016</b> ,	5
200	Fractional order equivalent series resistance modelling of electrolytic capacitor and fractional order failure prediction with application to predictive maintenance. <b>2016</b> , 9, 1608-1613	25
199	Chaos synchronization of fractional chaotic maps based on the stability condition. <b>2016</b> , 460, 374-383	129
198	Ultra-low voltage fractional-order circuits using current mirrors. <b>2016</b> , 44, 109-126	44
197	Design and efficient implementation of digital non-integer order controllers for electro-mechanical systems. <b>2016</b> , 22, 2196-2210	8
196	On the Uncertainty on the Phase of a Stable Linear System in the Periodic Disturbance Cancellation Problem. <b>2016</b> , 61, 2720-2726	8
195	On The Optimization of Fractional Order Low-Pass Filters. <b>2016</b> , 35, 2017-2039	73
194	The infinite-scroll attractor and energy transition in chaotic circuit. <i>Nonlinear Dynamics</i> , <b>2016</b> , 84, 2305-2315	46

193	An integer order approximation method based on stability boundary locus for fractional order derivative/integrator operators. <b>2016</b> , 62, 154-63	31
192	Practical Design and Evaluation of Fractional-Order Oscillator Using Differential Voltage Current Conveyors. <b>2016</b> , 35, 2003-2016	27
191	On Digital Realizations of Non-integer Order Filters. <b>2016</b> , 35, 2083-2107	34
190	Fast tensor product solvers for optimization problems with fractional differential equations as constraints. <b>2016</b> , 273, 604-623	22
189	An exponential spline technique for solving fractional boundary value problem. <b>2016</b> , 53, 545-558	9
188	Non standard finite difference method for solving variable order fractional optimal control problems. <b>2017</b> , 23, 948-958	29
187	Utilizing Electric Vehicles for LFC in Restructured Power Systems Using Fractional Order Controller. <b>2017</b> , 8, 2554-2564	123
186	Sensitivity Analysis of Networks with Fractional Elements. <b>2017</b> , 36, 4227-4241	5
185	Implementation of Fractional-Order Models and Controllers. <b>2017</b> , 77-105	1
184	On the nonexistence of global solutions for a class of fractional integro-differential problems. <b>2017</b> , 2017,	2
183	Generalized characteristic ratios assignment for commensurate fractional order systems with one zero. <b>2017</b> , 69, 10-19	8
182	Biological inspired optimization algorithms for cole-impedance parameters identification. <b>2017</b> , 78, 79-89	67
181	A systematic procedure for deriving RC networks of fractional-order elements emulators using MATLAB. <b>2017</b> , 78, 7-14	53
180	Implementation of fractional order filters discretized by modified Fractional Order Darwinian Particle Swarm Optimization. <b>2017</b> , 107, 153-164	22
179	Capacitorless digitally programmable fractional-order filters. <b>2017</b> , 78, 228-237	19
178	Introduction to Fractional-Order Elements and Devices. <b>2017</b> , 1-20	2
177	Devices. <b>2017</b> , 21-53	2
176	. <b>2017</b> ,	

175	Fully-differential tunable fractional-order filter with current followers and current amplifiers. <b>2017</b> ,		3
174	Stability results for partial fractional differential equations with noninstantaneous impulses. <b>2017</b> ,		3
173	Hidden chaotic attractors in fractional-order systems. <i>Nonlinear Dynamics</i> , <b>2017</b> , 89, 577-586	5	36
172	Digital Realization of Retuning Fractional-Order Controllers for an Existing Closed-Loop Control System. <b>2017</b> , 26, 1750165		3
171	New analog implementation technique for fractional-order controller: A DC motor control. <b>2017</b> , 78, 192-200		84
170	A uniform LMI formulation for tuning PID, multi-term fractional-order PID, and Tilt-Integral-Derivative (TID) for integer and fractional-order processes. <b>2017</b> , 68, 99-108		12
169	Design of new practical phase shaping circuit using optimal pole-zero interlacing algorithm for fractional order PID controller. <b>2017</b> , 91, 131-145		17
168	Non-existence for fractionally damped fractional differential problems. <b>2017</b> , 37, 119-130		6
167	Design and Hardware Realization of a Tunable Fractional-Order Series Resonator with High Quality Factor. <b>2017</b> , 36, 3457-3476		21
166	A 2D-fractional derivative mask for image feature edge detection. <b>2017</b> ,		6
165	Realization of New Robust Digital Fractional-order Compensators. <b>2017</b> , 50, 8580-8585		1
164	Tunable fractional-order capacitor using layered ferroelectric polymers. <b>2017</b> , 7, 095202		17
163	. <b>2017</b> ,		0
162	A Nyquist-like approach for stability analysis in fractional-order systems: Related issues and case Studies. <b>2017</b> ,		2
161	Ferroelectric Fractional-Order Capacitors. <b>2017</b> , 4, 2807-2813		26
160	Analysis of electrical circuits including fractional order elements. <b>2017</b> ,		11
159	Stability results for fractional differential equations with state-dependent delay and not instantaneous impulses. <b>2017</b> , 67, 875-894		4
158	New alternatives for analog implementation of fractional-order integrators, differentiators and PID controllers based on integer-order integrators. <i>Nonlinear Dynamics</i> , <b>2017</b> , 90, 241-256	5	46



157	Passive Realization of Fractional-Order Impedances by a Fractional Element and RLC Components: Conditions and Procedure. <b>2017</b> , 64, 585-595		34
156	Fractional-order electronically controlled generalized filters. <b>2017</b> , 45, 595-612		49
155	Finite-time stability of a class of nonlinear fractional-order system with the discrete time delay. <b>2017</b> , 48, 984-993		19
154	Operational Amplifier-Based Fractional Device of Order $s^{-0.5}$ . <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 151-159	0.4	1
153	On a New Class of Multistage Fractional-Order Phase-Lead Compensators. <b>2017</b> , 215-225		1
152	Biomedical and biological applications of fractional-order circuits. <b>2017</b> ,		2
151	Realization of fractional order pid controller using OPAMP circuit. <b>2017</b> ,		1
150	OTA-C realization of PI/brake and throttle controllers for autonomous vehicles. <b>2017</b> ,		
149	Compact MOS-RC voltage-mode fractional-order oscillator design. <b>2017</b> ,		5
148	Implementation of fractional-order PID controller in an industrial distributed control system. <b>2017</b> ,		8
147	. <b>2017</b> ,		0
146	Fractional order butterworth filter design using Artificial Bee colony algorithm. <b>2017</b> ,		3
145	Design of complex fractional-order immittances for simple PID regulation. <b>2017</b> ,		3
144	Complex-domain stability criteria for fractional-order linear dynamical systems. <b>2017</b> , 11, 2753-2760		8
143	A Novel Image Encryption Algorithm Based on a Fractional-Order Hyperchaotic System and DNA Computing. <b>2017</b> , 2017, 1-13		28
142	Synchronization of Two Fractional-Order Chaotic Systems via Nonsingular Terminal Fuzzy Sliding Mode Control. <b>2017</b> , 2017, 1-11		7
141	Fractional Order PID Control of Rotor Suspension by Active Magnetic Bearings. <b>2017</b> , 6, 4		20
140	Passivity assessment of fractional circuits basic model for smart device in W-domain. <b>2017</b> ,		

139	Electronically Tunable Fractional Order All Pass Filter. <b>2017</b> , 225, 012229	8
138	Electrical Circuit Modeling of Sensor Magneto-Impedances With a Square-Root Frequency Dependence. <b>2018</b> , 18, 623-628	3
137	Numerical Simulation Research of Fracmemristor Circuit Based on HP Memristor. <b>2018</b> , 27, 1850227	2
136	Positive-real property of passive fractional circuits in W-domain. <b>2018</b> , 46, 893-910	4
135	Application of Numerical Inverse Laplace Transform Methods for Simulation of Distributed Systems with Fractional-Order Elements. <b>2018</b> , 27, 1850172	10
134	A Fractional-Order Variational Framework for Retinex: Fractional-Order Partial Differential Equation-Based Formulation for Multi-Scale Nonlocal Contrast Enhancement with Texture Preserving. <b>2018</b> , 27, 1214-1229	42
133	Fractional-order complementary filters for small unmanned aerial system attitude estimation. <b>2018</b> , 27, 1850032	0
132	Fractional order [PI], [PD] and [PI][PD] controller design using Bode's integrals. <b>2018</b> , 6, 200-212	11
131	Synthesis and Analysis of Electronically Adjustable Fractional-Order Low-Pass Filter. <b>2018</b> , 27, 1850032	18
130	Single channel secure communication scheme based on synchronization of fractional-order chaotic Chua's systems. <b>2018</b> , 40, 3651-3664	16
129	CMOS-RC Colpitts Oscillator Design Using Floating Fractional-Order Inductance Simulator. <b>2018</b> , 27, 1850032	7
128	Dynamic Behaviors and the Equivalent Realization of a Novel Fractional-Order Memristor-Based Chaotic Circuit. <b>2018</b> , 2018, 1-13	6
127	Single active element implementation of fractional-order differentiators and integrators. <b>2018</b> , 97, 6-15	24
126	Fractional-Order Integrated Circuits in Control Applications and Biological Modeling. <b>2018</b> , 163-204	
125	Analog Filters With Arbitrarily Adjustable Frequency Response. <b>2018</b> , 383-419	
124	Tuning guidelines for fractional order PID controllers: Rules of thumb. <b>2018</b> , 56, 26-36	33
123	Optimal control and parameters design for the fractional-order vehicle suspension system. <b>2018</b> , 37, 456-467	9
122	An ultra-broadband single-component fractional-order capacitor using MoS <sub>2</sub> -ferroelectric polymer composite. <b>2018</b> , 113, 093505	36

121	Fractional-order low-pass filter with electronic tunability of its order and pole frequency. <b>2018</b> , 69, 3-13	8
120	Minimization of Spread of Time-Constants and Scaling Factors in Fractional-Order Differentiator and Integrator Realizations. <b>2018</b> , 37, 5647-5663	10
119	Analog realization of fractional variable-type and -order iterative operator. <b>2018</b> , 336, 138-147	3
118	Modeling and active vibration control of lattice grid beam with piezoelectric fiber composite using fractional order PDE algorithm. <b>2018</b> , 198, 126-134	15
117	Modified Artificial Physics Optimization for Multi-parameter Functions. <b>2018</b> , 42, 465-478	7
116	Fractional-order controllers optimized via heterogeneous comprehensive learning pigeon-inspired optimization for autonomous aerial refueling hose/drogue system. <b>2018</b> , 81, 1-13	19
115	On the rational representation of fractional order lead compensator using Padé approximation. <b>2018</b> ,	2
114	Non-Integer-Order Low-Pass Filter with Electronically Controllable Parameters. <b>2018</b> ,	1
113	Differentiator based fractional-order high-pass filter designs. <b>2018</b> ,	2
112	Boundedness and power-type decay of solutions for a class of generalized fractional Langevin equations. <b>2019</b> , 8, 79-94	2
111	Application of Fractional-Order Controller. <b>2019</b> , 195-203	
110	. <b>2019</b> ,	
109	Frequency Tunability of Fractance Device based on OTA-C. <b>2019</b> ,	1
108	. <b>2019</b> ,	0
107	Chaos suppression in fractional order systems using state-dependent noise. <b>2019</b> , 1, 1	0
106	References. <b>2019</b> , 269-284	
105	Digital and Analog Design of Fractional PD Controller for a Servo System. <b>2019</b> ,	2
104	Single Active Element Fractional-Order $\mathbf{PI}^{\lambda}$ Controller for Vehicle Throttle and Brake Control. <b>2019</b> ,	

103	CCII Based Realization of Fractional-Order PD Controller for a Position Servo. <b>2019</b> ,	4
102	Simple Design of Fractional-Order DC Motor Controller. <b>2019</b> ,	2
101	Properties of Continued Fractions Approximations of Fractional Analog and Digital Operators. <b>2019</b>	
100	Anomalous diffusion modeling using ultracapacitors in domino ladder circuit. <b>2019</b> , 84, 136-141	2
99	Using Fractional Derivatives for Parameter Identification and Control of Dielectric Elastomer Actuators. <b>2019</b> , 2469-2479	
98	Global asymptotic synchronization of impulsive fractional-order complex-valued memristor-based neural networks with time varying delays. <b>2019</b> , 78, 104869	22
97	Solid state MXene based electrostatic fractional capacitors. <b>2019</b> , 114, 232903	10
96	On the Fractional-Order 3D Memristor-LC Circuit Network Model. <b>2019</b> , 47, 537-550	1
95	Fractional order modeling and control for under-actuated inverted pendulum. <b>2019</b> , 74, 97-121	25
94	Electronically reconfigurable two-path fractional-order PI/D controller employing constant phase blocks based on bilinear segments using CMOS modified current differencing unit. <b>2019</b> , 86, 114-129	21
93	A Mechanical Model Based on Conformal Strain Energy and Its Application to Bending and Buckling of Nanobeam Structures. <b>2019</b> , 14,	2
92	Linear fractional order controllers; A survey in the frequency domain. <b>2019</b> , 47, 51-70	53
91	Single Active Element Realization of Fractional-Order $I^{\lambda}D^{\mu}$ DC Motor Controller. <b>2019</b> ,	0
90	Accurate Constant Phase Elements Dedicated for Audio Signal Processing. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4888	2.6 4
89	. <b>2019</b> ,	0
88	Measurement and control of emergent phenomena emulated by resistive-capacitive networks, using fractional-order internal model control and external adaptive control. <b>2019</b> , 90, 103003	1
87	Simple Chaotic Oscillator with Filtering Passive Two-Port Having Fractional-Order Segments. <b>2019</b> ,	
86	. <b>2019</b> ,	2

85 References. **2019**, 377-394

84 Modeling and Control of Wave Propagation in a Ring With Applications to Power Grids. **2019**, 64, 3676-3689 2

83 Fractional-Order Spatial Steganography and Blind Steganalysis for Printed Matter: Anti-Counterfeiting for Product External Packing in Internet-of-Things. **2019**, 6, 6368-6383 10

82 Practical Design of RC Approximants of Constant Phase Elements and Their Implementation in Fractional-Order PID Regulators Using CMOS Voltage Differencing Current Conveyors. **2019**, 38, 1520-1546 16

81 Analog Realization of Electronically Tunable Fractional-Order Differ-Integrators. **2019**, 44, 1933-1948 5

80 A numerical approximation method for fractional order systems with new distributions of zeros and poles. **2020**, 99, 20-27 0

79 Performance Analysis of Solid-State Fractional Capacitor-Based Analog ( $\text{PI}^\lambda \text{D}^\mu$ ) Controller. **2020**, 39, 1815-1830 6

78 Realization of the Fractional Variable-Order Model with Symmetric Property. **2020**, 43-54

77 Fractional-Order Dual-Slope Integral Fast Analog-to-Digital Converter with High Sensitivity. **2020**, 29, 2050083 3

76 Numerical study of electroosmotic slip flow of fractional Oldroyd-B fluids at high zeta potentials. **2020**, 41, 769-777 11

75 Supercapacitor Characterization Using Universal Adaptive Stabilization and Optimization. **2020**, 1, 166-183 6

74 Design of Fractional Order Controllers Using the PM Diagram. **2020**, 8, 2022 3

73 Study of HIV mathematical model under nonsingular kernel type derivative of fractional order. **2020**, 139, 110095 14

72 Hardware Implementation and Performance Study of Analog PID Controllers on DC Motor. **2020**, 4, 34 0

71 Realization of Tunable Fractional-order Device based on Ladder Network Approximation. **2020**, 1 1

70 Design of Cascaded and Shifted Fractional-Order Lead Compensators for Plants with Monotonically Increasing Lags. **2020**, 4, 37 3

69 A Novel Image Encryption Scheme Based on 2D Fractional Chaotic Map, DWT and 4D Hyper-chaos. *Electronics (Switzerland)*, **2020**, 9, 1280 2.6 21

68 Fractional-order global optimal backpropagation machine trained by an improved fractional-order steepest descent method. **2020**, 21, 809-833 5

67	New Chaotic Oscillator Derived from Class C Single Transistor-Based Amplifier. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-18	1.1	5
66	Fractional order model for yield through diagnosed/undiagnosed soil. <b>2020</b> , 15, 392		0
65	Optimal Fractional Order PI Controller for Frequency Ancillary Services in Restructured Power System. <b>2020</b> , 1		1
64	Fractional-Order Chaotic Memory with Wideband Constant Phase Elements. <b>2020</b> , 22,		8
63	A Survey of Fractional Order Calculus Applications of Multiple-Input, Multiple-Output (MIMO) Process Control. <b>2020</b> , 4, 22		5
62	FPAA-based implementation of fractional-order chaotic oscillators using first-order active filter blocks. <b>2020</b> , 25, 77-85		33
61	Fractional integrator circuit unit using Charef approximation method. <b>2020</b> , 8, 943-951		4
60	Caputo type Fractional Differential Equation with Katugampola fractional integral conditions. <b>2020</b> ,		0
59	Performance Analysis of Stepper Actuator with Leadscrew for Robotic Arm Motion Applications using Fractional Calculus. <b>2020</b> ,		
58	Fractional-Order Approximation and Synthesis of a PID Controller for a Buck Converter. <b>2020</b> , 13, 629		9
57	Reduced Active Components Count Electronically Adjustable Fractional-Order Controllers: Two Design Examples. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 63	2.6	6
56	Integer-and Fractional-Order Integral and Derivative Two-Port Summations: Practical Design Considerations. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 54	2.6	3
55	Load frequency regulation by de-loaded tidal turbine power plant units using fractional fuzzy based PID droop controller. <b>2020</b> , 92, 106338		5
54	Employment of the Padé approximation for implementing fractional-order lead/lag compensators. <b>2020</b> , 120, 153203		11
53	An Electronically Controllable Fractional Multivibrator. <b>2021</b> , 67, 313-321		2
52	Fractional-Order Retinex for Adaptive Contrast Enhancement of Under-Exposed Traffic Images. <b>2021</b> , 13, 149-159		4
51	MO-CCCII Based Current-Mode Fractional-Order Universal Filter. <b>2021</b> , 30, 2150132		1
50	Optimal design of zero-phase digital Riesz FIR fractional-order differentiator. <b>2021</b> , 25, 4261-4282		2

49	OTA-based tunable fractional-order devices for biomedical engineering. <b>2021</b> , 128, 153520		4
48	Design of Low-Voltage FO-[PD] Controller for Motion Systems. <b>2021</b> , 11, 26		1
47	Non-Integer Order Approximation of a PID-Type Controller for Boost Converters. <b>2021</b> , 14, 3153		0
46	Fractional-Order Approximation of PID Controller for Buck-Boost Converters. <b>2021</b> , 12,		4
45	Analysis of a Capacitor Modelled with Conformable Fractional Derivative Under DC and Sinusoidal Signals.		0
44	Fractional-order memristive neural synaptic weighting achieved by pulse-based fracmemristor bridge circuit. <b>2021</b> , 22, 862-876		1
43	Abundant Explicit Solutions to Fractional Order Nonlinear Evolution Equations. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-16	1.1	4
42	A novel method for analysing the fractal fractional integrator circuit. <b>2021</b> , 60, 3721-3729		19
41	Realizations of fractional-order PID loop-shaping controller for mechatronic applications. <b>2021</b> , 80, 5-12		5
40	Identification and parameter sensitivity analyses of time-delay with single-fractional-pole systems under actuator rate limit effect. <b>2022</b> , 163, 108111		1
39	Active Realization of Fractional-Order Integrators and Their Application in Multiscroll Chaotic Systems. <b>2021</b> , 2021, 1-16		4
38	Closed-Form Analytical Formulation for Riemann-Liouville-Based Fractional-Order Digital Differentiator Using Fractional Sample Delay Interpolation. <b>2021</b> , 40, 2535-2563		2
37	On the Electronic Realizations of Fractional-Order Phase-Lead-Lag Compensators with OpAmps and FPAA's. <b>2017</b> , 131-164		10
36	Mechanical Version of the CRONE Suspension. <b>2010</b> , 99-112		4
35	Non Integer Order Operators Implementation via Switched Capacitors Technology. <b>2010</b> , 87-96		3
34	On Type of Periodicity and Ergodicity to a Class of Fractional Order Differential Equations. <b>2010</b> , 2010, 179750		9
33	Discrete Chaos in Fractional Henon Map. <b>2014</b> , 05, 2243-2248		33
32	A Current Mode Design of Fractional Order Universal Filter. <b>2019</b> , 19, 71-78		1

31	An effective analog circuit design of approximate fractional-order derivative models of M-SBL fitting method. <b>2021</b> ,		4
30	Constant-Order Fractional Signal Processing. <b>2012</b> , 95-148		2
29	Study on a fractional-order controllers based on best rational approximation of fractional calculus operators. <b>2016</b> , 18, 3412-3424		
28	Introduction. <b>2017</b> , 1-12		1
27	Towards a Robust Fractional Order PID Stabilizer for Electric Power Systems. <b>2017</b> , 253-275		
26	Implementation of Current Mode Integrator for Fractional Orders $n/3$ . <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 509-517	0.4	
25	Nyquist-Like Stability Criteria for Fractional-Order Linear Dynamical Systems.		2
24	Symbolic Analysis of Networks Containing Fractional-Order Elements. <b>2021</b> ,		0
23	Dynamics of Some Discretized Fractional-Order Differential Equations. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2020</b> , 58-114	0.3	
22	An improved approximation method with adjustable zero and pole distributions for fractional order systems. <b>2020</b> ,		
21	Using Swarm Intelligence for Optimization of Parameters in Approximations of Fractional-Order Operators. 194-222		0
20	Design and Implement of Neural Network Based Fractional-Order Controller. <b>2007</b> , 471-479		1
19	Design and realisation of a fractional-order sinusoidal oscillator. <i>IET Circuits, Devices and Systems</i> , <b>2020</b> , 14, 1173-1184	1.1	0
18	An experimental analog circuit realization of Matsuda's approximate fractional-order integral operators for industrial electronics. <i>Engineering Research Express</i> ,	0.9	1
17	Correcting Errors in Color Image Encryption Algorithm Based on Fault Tolerance Technique. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2890	2.6	
16	Fractional-Order Ant Colony Algorithm: A Fractional Long Term Memory Based Cooperative Learning Approach. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 101014	9.8	2
15	Implementation of Fractional-order PID Controller Using Industrial DCS with Experimental Validation. <b>2020</b> ,		0
14	Fractional-Order Controller for Course-Keeping of Underactuated Surface Vessels Based on Frequency Domain Specification and Improved Particle Swarm Optimization Algorithm. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3139	2.6	26



13	FOPID-Based Load Frequency Control of Nonlinear Multi-Area Power Systems via Mayfly Optimization Algorithm. <b>2021</b> ,		
12	Two Capacitor Problem with a LTI Capacitor and a Capacitor Modelled Using Conformal Fractional Order Derivative. <b>2021</b> , 4, 8-13		0
11	Analysis of Heat and Mass Transfer of Fractionalized MHD Second-Grade Fluid over Nonlinearly Moving Porous Plate. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-31	1.1	0
10	Finite Time Stability of 2D Fractional Hyperbolic System with Time Delay. <i>Journal of Function Spaces</i> , <b>2022</b> , 2022, 1-8	0.8	0
9	Monte Carlo method for fractional-order differentiation extended to higher orders. <i>Fractional Calculus and Applied Analysis</i> ,	2.7	0
8	Approximation of Fractional-Order Controllers for Mechatronic Applications. <b>2022</b> , 131-147		
7	Construction and Evaluation of a Control Mechanism for Fuzzy Fractional-Order PID. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 6832	2.6	1
6	Improving homotopy analytical method with sine cosine algorithm and Simpson integrative method for solving fractional ordinary differential equations. <b>2022</b> ,		0
5	OTA Based Fractional-Order Oscillator With Controlled Phase Difference. <b>2022</b> ,		1
4	Design of Fractional-Order Chebyshev Low-Pass Filter for Optimized Magnitude Response Using Metaheuristic Evolutionary Algorithms.		1
3	Modelling and identification of Li-ion cells. <b>2022</b> , 1-1		0
2	Realization of Fractional order Multivibrator using different approximation techniques. <b>2022</b> ,		0
1	Minimum Active Component Count Design of a PID Controller and Its Application in a Cardiac Pacemaker System. <b>2023</b> , 13, 13		0