

Stavroula Kapoulea

List of Publications by Year in descending order

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42
all docs

42
docs citations

42
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163
citing authors

#	ARTICLE	IF	CITATIONS
1	Power law filters: A new class of fractional-order filters without a fractional-order Laplacian operator. AEU - International Journal of Electronics and Communications, 2021, 129, 153537.	1.7	41
2	Single active element implementation of fractional-order differentiators and integrators. AEU - International Journal of Electronics and Communications, 2018, 97, 6-15.	1.7	33
3	One-terminal electronically controlled fractional-order capacitor and inductor emulator. AEU - International Journal of Electronics and Communications, 2019, 103, 32-45.	1.7	23
4	Double Exponent Fractional-Order Filters: Approximation Methods and Realization. Circuits, Systems, and Signal Processing, 2021, 40, 993-1004.	1.2	20
5	Generalized Fully Adjustable Structure for Emulating Fractional-Order Capacitors and Inductors of Orders less than Two. Circuits, Systems, and Signal Processing, 2020, 39, 1797-1814.	1.2	16
6	Minimization of Spread of Time-Constants and Scaling Factors in Fractional-Order Differentiator and Integrator Realizations. Circuits, Systems, and Signal Processing, 2018, 37, 5647-5663.	1.2	15
7	Employment of the Padé approximation for implementing fractional-order lead/lag compensators. AEU - International Journal of Electronics and Communications, 2020, 120, 153203.	1.7	14
8	Realizations of fractional-order PID loop-shaping controller for mechatronic applications. The Integration VLSI Journal, 2021, 80, 5-12.	1.3	13
9	Electronically tunable fractional-order highpass filter for phantom electroencephalographic system model implementation. AEU - International Journal of Electronics and Communications, 2019, 110, 152850.	1.7	12
10	Realization of Cole's Davidson Function-Based Impedance Models: Application on Plant Tissues. Fractal and Fractional, 2020, 4, 54.	1.6	12
11	Fractional-Order and Power-Law Shelving Filters: Analysis and Design Examples. IEEE Access, 2021, 9, 145977-145987.	2.6	11
12	FPAO-Based Realization of Filters with Fractional Laplace Operators of Different Orders. Fractal and Fractional, 2021, 5, 218.	1.6	10
13	Reduced Active Components Count Electronically Adjustable Fractional-Order Controllers: Two Design Examples. Electronics (Switzerland), 2020, 9, 63.	1.8	8
14	Simple implementations of fractional-order driving-point impedances: Application to biological tissue models. AEU - International Journal of Electronics and Communications, 2021, 137, 153784.	1.7	8
15	Electronically Controlled Power-Law Filters Realizations. Fractal and Fractional, 2022, 6, 111.	1.6	8
16	CCII Based Realization of Fractional-Order PD Controller for a Position Servo. , 2019, , .		7
17	Implementation of a Fractional-Order Electronically Reconfigurable Lung Impedance Emulator of the Human Respiratory Tree. Journal of Low Power Electronics and Applications, 2020, 10, 18.	1.3	7
18	Power-Law Compensator Design for Plants with Uncertainties: Experimental Verification. Electronics (Switzerland), 2021, 10, 1305.	1.8	7

#	ARTICLE	IF	CITATIONS
19	Passive approximations of double-exponent fractional-order impedance functions. International Journal of Circuit Theory and Applications, 2021, 49, 1274-1284.	1.3	6
20	Versatile Field-Programmable Analog Array Realizations of Power-Law Filters. Electronics (Switzerland), 2022, 11, 692.	1.8	6
21	Design of Low-Voltage FO-[PD] Controller for Motion Systems. Journal of Low Power Electronics and Applications, 2021, 11, 26.	1.3	5
22	Simple Design of Fractional-Order DC Motor Controller. , 2019, , .		4
23	Design of Fractional-Order Lead Compensator for a Car Suspension System Based on Curve-Fitting Approximation. Fractal and Fractional, 2021, 5, 46.	1.6	4
24	Novel Double-Dispersion Models Based on Power-Law Filters. Circuits, Systems, and Signal Processing, 2021, 40, 5799-5812.	1.2	4
25	A collection of interdisciplinary applications of fractional-order circuits. , 2022, , 35-69.		4
26	Implementing Fractional PID Control for MagLev with SoftFRAC. , 2020, , .		3
27	Reduced Active Element Power-Law Proportional-Integral Controller Designs. , 2021, , .		3
28	ECG signal acquisition for the Pan-Tompkins algorithm using current-mirror filters. , 2016, , .		2
29	Design of Fully-Differential Frequency Filter with Fractional-Order Elements. , 2018, , .		2
30	Design of Fractional-Order Differentiator-Lowpass Filters for Extracting the R peaks in ECG Signals. , 2019, , .		2
31	Digital and Analog Design of Fractional PD Controller for a Servo System. , 2019, , .		2
32	Simple Implementations of the Cole-Cole Models. , 2020, , .		2
33	MOS realizations of fractional-order elements. , 2022, , 1-33.		2
34	Generalizing the Warburg impedance to a Warburg impedance matrix. AEU - International Journal of Electronics and Communications, 2022, 150, 154202.	1.7	2
35	Single Active Element Fractional-Order \mathbf{PI}^{λ} Controller for Vehicle Throttle and Brake Control. , 2019, , .		1
36	Design of Fractional-Order Emulator of the Cardiac Tissue Electrode Interface. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	Implementation of the Fractional-Order Model of the Biceps Tissue During Fatigue Exercise. , 2020, , .		0
38	On the Realization of Power-Law Based Impedance Functions: Application to Edible Drinks. , 2021, , .		0
39	Reduced Spread Fractional-Order PID Controller Designs. , 2021, , .		0
40	Electronically Tunable Realization of the Three-Element Arterial Windkessel Model. , 2021, , .		0
41	A Fractional LQI Controller for a Magnetic Levitation System. , 2021, , .		0