

# Umut Engin Ayten

## List of Publications by Year in descending order

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43  
papers

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citations

840728

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h-index

713444

21  
g-index

43  
all docs

43  
docs citations

43  
times ranked

259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Memristor emulator circuits using single CBTA. AEU - International Journal of Electronics and Communications, 2017, 82, 109-118.	2.9	76
2	Floating Immittance Function Simulator and Its Applications. Circuits, Systems, and Signal Processing, 2009, 28, 55-63.	2.0	47
3	Electronically tunable floating inductance simulator. AEU - International Journal of Electronics and Communications, 2009, 63, 423-427.	2.9	43
4	A Novel Dual-Band Ultrathin FSS With Closely Settled Frequency Response. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1381-1384.	4.0	38
5	A new universal mutator circuit for memcapacitor and meminductor elements. AEU - International Journal of Electronics and Communications, 2020, 119, 153180.	2.9	38
6	Component reduced current-mode full-wave rectifier circuits using single active component. IET Circuits, Devices and Systems, 2016, 10, 1-11.	1.4	34
7	Current mode leapfrog ladder filters using a new active block. AEU - International Journal of Electronics and Communications, 2010, 64, 503-511.	2.9	32
8	Current and voltage transfer function filters using a single active device. IET Circuits, Devices and Systems, 2010, 4, 78.	1.4	23
9	Application possibilities of VDCC in general floating element simulator circuit. , 2015, , .		20
10	Realization of New Mutually Coupled Circuit Using CC-CBTAs. Circuits, Systems, and Signal Processing, 2012, 31, 435-446.	2.0	15
11	Novel floating FDNR, inductor and capacitor simulator using CBTA. , 2011, , .		14
12	A voltage-mode PID controller using a single CFOA and only grounded capacitors. Microelectronics Journal, 2018, 81, 84-93.	2.0	13
13	Electronically tunable sinusoidal oscillator circuit with current and voltage outputs. International Journal of Electronics, 2012, 99, 1133-1144.	1.4	12
14	Dual-Output Operational Transconductance Amplifier-Based Electronically Controllable Memristance Simulator Circuit. Circuits, Systems, and Signal Processing, 2019, 38, 26-40.	2.0	11
15	Design of dominantly proportional PID controller using a single commercially available active component. , 2013, , .		10
16	Current and transimpedance mode instrumentation amplifier using a single new active component named CDTRA. AEU - International Journal of Electronics and Communications, 2018, 91, 24-36.	2.9	10
17	Resistorless Current-Mode First-Order All-Pass Filter with Electronic Tuning Employing Low-Voltage CBTA and Grounded Capacitor. Journal of Circuits, Systems and Computers, 2018, 27, 1850031.	1.5	10
18	<sc>Ensemble-based</sc> surrogate modeling of microwave antennas using <sc>XGBoost algorithm</sc>. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, e2950.	1.9	10

#	ARTICLE	IF	CITATIONS
19	A new compact CMOS realization of sinusoidal oscillator using a single modified CBTA. , 2011, , .		8
20	Optimized analog filter approximation via evolutionary algorithms. , 2012, , .		8
21	Voltage difference transresistance amplifier and its application: floating FDNR simulator circuit. International Journal of Electronics, 2018, 105, 1716-1727.	1.4	8
22	Modified Gorski-Popiel Technique and Synthetic Floating Transformer Circuit Using Minimum Components. Journal of Circuits, Systems and Computers, 2017, 26, 1750013.	1.5	7
23	Myelin detection in fluorescence microscopy images using machine learning. Journal of Neuroscience Methods, 2020, 346, 108946.	2.5	7
24	Electronically tunable VDCC-based floating capacitance multiplier. , 2015, , .		6
25	DeepMQ: A Deep Learning Approach Based Myelin Quantification in Microscopic Fluorescence Images. , 2018, , .		5
26	SCMA System Design With Index Modulation via Codebook Assignment. IEEE Transactions on Vehicular Technology, 2021, 70, 1699-1708.	6.3	5
27	Electronically tunable universal biquad using a single active component. , 2015, , .		4
28	Current-mode full-wave rectifier circuits using current differencing buffered amplifier. , 2015, , .		4
29	New tunable resistorless CM first-order filter based on single CBTA and grounded capacitor. , 2016, , .		4
30	Inductance simulator based on dual controlled CMOS voltage differencing current conveyor. , 2016, , .		4
31	Current-mode SITO filter using a single active component. , 2009, , .		3
32	Voltage-mode multiphase sinusoidal oscillators using CBTAs. , 2012, , .		3
33	Reply to comment on "Electronically tunable floating inductance simulator". AEU - International Journal of Electronics and Communications, 2012, 66, 86-88.	2.9	3
34	Evolutionary algorithms based analog filter approximation and implementation. , 2014, , .		2
35	Distance independent weight estimation of eggs from images using artificial neural networks. , 2017, , .		2
36	A novel lead and lag compensator circuit employing a single current feedback operational amplifier. Microelectronics Journal, 2020, 105, 104913.	2.0	2

#	ARTICLE	IF	CITATIONS
37	Design of Wide Bandwidth, High-CMRR Voltage and Transadmittance-Mode Instrumentation Amplifier Using a Single CBTA. Journal of Circuits, Systems and Computers, 2020, 29, 2050060.	1.5	2
38	Optimization of high pass filter approximation with evolutionary algorithms. , 2013, , .		1
39	In silico simulation of the interaction among autoregulatory mechanisms regulating cerebral blood flow rate in the healthy and systolic heart failure conditions during exercise. Medical and Biological Engineering and Computing, 2022, 60, 1863-1879.	2.8	1
40	Evolutionary algorithms based analog filter approximation. , 2014, , .		0
41	Modular Electrical Control System for Small Scale Underwater Vehicles. , 2018, , .		0
42	Smart Sensor for Home Appliances. , 2018, , .		0
43	The effect of codebook design on the BER performance of MTC systems employing SCMA. , 2018, , .		0