

Blaise Ravelo

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146
papers

1,023
citations

17
h-index

25
g-index

165
ext. papers

1,285
ext. citations

2
avg, IF

5.49
L-index

#	Paper	IF	Citations
146	Active Microwave Circuit With Negative Group Delay. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 861-863	2.6	59
145	Similitude between the NGD function and filter gain behaviours. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 1016-1032	2	57
144	Theory of Coupled Line Coupler-Based Negative Group Delay Microwave Circuit. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 3604-3611	4.1	47
143	Application of negative group delay active circuits to the design of broadband and constant phase shifters. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 3078-3080	1.2	42
142	First-order low-pass negative group delay passive topology. <i>Electronics Letters</i> , 2016 , 52, 124-126	1.1	29
141	An Open Platform for Seamless Sensor Support in Healthcare for the Internet of Things. <i>Sensors</i> , 2016 , 16,	3.8	28
140	Theory and circuit modeling of baseband and modulated signal delay compensations with low- and band-pass NGD effects. <i>AEU - International Journal of Electronics and Communications</i> , 2016 , 70, 1122-1127	2.8	26
139	KronBranin Modeling of Y-Y-Tree Interconnects for the PCB Signal Integrity Analysis. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 411-419	2	25
138	Distributed NGD active circuit for RF-microwave communication. <i>AEU - International Journal of Electronics and Communications</i> , 2014 , 68, 282-290	2.8	24
137	TRANSIENT RESPONSE CHARACTERIZATION OF THE HIGH-SPEED INTERCONNECTION RLCG-MODEL FOR THE SIGNAL INTEGRITY ANALYSIS. <i>Progress in Electromagnetics Research</i> , 2011 , 112, 183-197	3.8	24
136	Investigation on Microwave Negative Group Delay Circuit. <i>Electromagnetics</i> , 2011 , 31, 537-549	0.8	24
135	Neutralization of LC- and RC-Disturbances with Left-Handed and NGD Effects. <i>Advanced Electromagnetics</i> , 2013 , 2, 73	1.2	21
134	The Design Method of the Active Negative Group Delay Circuits Based on a Microwave Amplifier and an RL-Series Network. <i>IEEE Access</i> , 2018 , 6, 33849-33858	3.5	20
133	Experimental Validations of a Simple PCB Interconnect Model for High-Rate Signal Integrity. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 397-404	2	20
132	Time-Domain Experimentation of NGD ActiveRC-Network Cell. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 562-566	3.5	20
131	Negative Group-Delay Phenomenon Analysis With Distributed Parallel Interconnect Line. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 573-580	2	18
130	Cancellation of Delays in the High-Rate Interconnects with UWB NGD Active Cells. <i>Applied Physics Research</i> , 2011 , 3,	1.3	18

129	Analysis of multi-gigabits signal integrity through clock H-tree. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 535-549	2	17
128	Innovative Theory on Multiband NGD Topology Based on Feedback-Loop Power Combiner. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 738-742	3.5	16
127	An FET-based microwave active circuit with dual-band negative group delay. <i>Journal of Microwaves, Optoelectronics and Electromagnetic Applications</i> , 2011 , 10, 355-366	0.7	16
126	Baseband NGD circuit with RF amplifier. <i>Electronics Letters</i> , 2011 , 47, 752-754	1.1	16
125	S-Parameter Model of Three Parallel Interconnect Lines Generating Negative Group-Delay Effect. <i>IEEE Access</i> , 2018 , 6, 57152-57159	3.5	16
124	On low-pass, high-pass, bandpass, and stop-band NGD RF passive circuits. <i>URSI Radio Science Bulletin</i> , 2017 , 2017, 10-27	0.1	15
123	BEHAVIORAL MODEL OF SYMMETRICAL MULTI-LEVEL T-TREE INTERCONNECTS. <i>Progress in Electromagnetics Research B</i> , 2012 , 41, 23-50	0.7	13
122	Methodology of elementary negative group delay active topologies identification. <i>IET Circuits, Devices and Systems</i> , 2013 , 7, 105-113	1.1	13
121	Time-Domain Magnetic Dipole Model of PCB Near-Field Emission. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016 , 58, 1561-1569	2	13
120	High-Pass Negative Group Delay RC-Network Impedance. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017 , 64, 1052-1056	3.5	12
119	Analytical Design of Dual-Band Negative Group Delay Circuit With Multi-Coupled Lines. <i>IEEE Access</i> , 2020 , 8, 72749-72756	3.5	12
118	Canonical transfer function of band-pass NGD circuit. <i>IET Circuits, Devices and Systems</i> , 2019 , 13, 125-130	1.1	12
117	Design of Multi-Scale Negative Group Delay Circuit for Sensors Signal Time-Delay Cancellation. <i>IEEE Sensors Journal</i> , 2019 , 19, 8951-8962	4	11
116	DESIGN OF FLEXIBLE PASSIVE ANTENNA ARRAY ON KAPTON SUBSTRATE. <i>Progress in Electromagnetics Research C</i> , 2016 , 63, 105-117	0.9	11
115	PCB Near-Field Transient Emission Time-Domain Model. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1320-1328	2	10
114	Synthesis of frequency-independent phase shifters using negative group delay active circuit. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2011 , 21, 17-24	1.5	10
113	Tee power divider and combiner based negative group delay topology. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21414	1.5	9
112	Study of high-frequency electromagnetic transients radiated by electric dipoles in near-field. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 692	1.6	9

111	O=O Shape Low-Loss Negative Group Delay Microstrip Circuit. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 1795-1799	3.5	9
110	Manganese Zinc Ferrites: a Short Review on Synthesis and Characterization. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 1569-1584	1.5	9
109	Negative Group Delay Theory of a Four-Port RC-Network Feedback Operational Amplifier. <i>IEEE Access</i> , 2019 , 7, 75708-75720	3.5	8
108	X-band negative group-delay lossy stub line. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 137-143	3.6	8
107	Fast estimation of RL-loaded microelectronic interconnections delay for the signal integrity prediction. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2012 , 25, 338-346	1	8
106	Fast S-Parameter TAN Model of n-Port Lumped Structures. <i>IEEE Access</i> , 2019 , 7, 72505-72517	3.5	7
105	Analysis of Interconnect Line Coupled With a Radial-Stub Terminated Negative Group Delay Circuit. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 1813-1821	2	7
104	Negative Group Delay Theory on Li Topology. <i>IEEE Access</i> , 2020 , 8, 47596-47606	3.5	7
103	Asymmetrical 1:2 Y-tree interconnects modelling with KronBranin formalism. <i>Electronics Letters</i> , 2016 , 52, 1215-1216	1.1	7
102	Modelling of asymmetrical interconnect T-tree laminated on flexible substrate. <i>EPJ Applied Physics</i> , 2015 , 72, 20103	1.1	7
101	FULLY TIME-DOMAIN SCANNING OF EM NEAR-FIELD RADIATED BY RF CIRCUITS. <i>Progress in Electromagnetics Research B</i> , 2014 , 57, 21-46	0.7	7
100	Demonstration of negative signal delay with short-duration transient pulse. <i>EPJ Applied Physics</i> , 2011 , 55, 10103	1.1	7
99	Application of negative group delay active circuits to reduce the 50% propagation Delay of RC-line model 2008 ,		7
98	Broadband balun using active negative group delay circuit 2007 ,		7
97	Synthesis of RF Circuits with Negative Time Delay by Using LNA. <i>Advanced Electromagnetics</i> , 2013 , 2, 44	1.2	7
96	Anticipating Actuator Arbitrary Action With a Low-Pass Negative Group Delay Function. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 694-702	8.9	7
95	Theory on asymmetrical coupled-parallel-line transmission and reflection zeros. <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 1534-1551	2	6
94	OIO-Shape PCB Trace Negative Group-Delay Analysis. <i>IEEE Access</i> , 2020 , 8, 97707-97717	3.5	6

93	Direct Time-Domain TAN Model of 3D Multilayer Hybrid PCB: Experimental Validation. <i>IEEE Access</i> , 2018 , 6, 60645-60654	3.5	6
92	Recent advances on synthesis, characterization and high frequency applications of Ni-Zn ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 530, 167925	2.8	6
91	Theory on negative time-delay looped system. <i>IET Circuits, Devices and Systems</i> , 2018 , 12, 175-181	1.1	5
90	Multiphysics Model of Microstrip Structure Under High Voltage Pulse Excitation. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2018 , 3, 88-96	1.5	5
89	Synthesis of n-way active topology for wide-band RF/microwave applications. <i>International Journal of Electronics</i> , 2012 , 99, 597-608	1.2	5
88	Original Theory of NGD Low Pass-High Pass Composite Function for Designing Inductorless BP NGD Lumped Circuit. <i>IEEE Access</i> , 2020 , 8, 192951-192964	3.5	5
87	Resonance Effect Reduction With Bandpass Negative Group Delay Fully Passive Function. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 2364-2368	3.5	5
86	An overview on low energy wake-up radio technology: Active and passive circuits associated with MAC and routing protocols. <i>Journal of Network and Computer Applications</i> , 2021 , 190, 103140	7.9	5
85	Multiphysics Tensorial Network Analysis Applied to PCB Interconnect Fatigue Under Thermal Cycle Aggression. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 1-8	2	4
84	Low-Pass NGD Voice Signal Sensoring With Passive Circuit. <i>IEEE Sensors Journal</i> , 2020 , 20, 6762-6775	4	4
83	Equalization of digital/mixed-signal disturbances with an negative group delay circuit 2012 ,		4
82	APPLICATION OF A HYBRID MODEL FOR THE SUSCEPTIBILITY OF COMPLEX FORM METALLIC WIRES PERTURBED BY EM NEAR-FIELD RADIATED BY ELECTRONIC STRUCTURES. <i>Progress in Electromagnetics Research B</i> , 2012 , 37, 143-169	0.7	4
81	NGD Analysis of Turtle-Shape Microstrip Circuit. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 2477-2481	3.5	3
80	S-Parameter Model of IB-Shape Interconnect Lines Including Crosstalk Perturbation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2567-2575	2	3
79	Experimental investigation of Zener diode reliability under pulsed Electrical Overstress (EOS). <i>Microelectronics Reliability</i> , 2013 , 53, 1288-1292	1.2	3
78	Modelling of symmetrical distributed clock RC H-tree 2012 ,		3
77	Reconstruction Technique of Distorted Sensor Signals With Low-Pass NGD Function. <i>IEEE Access</i> , 2020 , 1-1	3.5	3
76	Design and synthesis of flexible switching 1 Ω antenna array on Kapton substrate. <i>EPJ Applied Physics</i> , 2016 , 74, 30102	1.1	3

75	All-Pass Negative Group Delay Function With Transmission Line Feedback Topology. <i>IEEE Access</i> , 2019 , 7, 155711-155723	3.5	3
74	Kron-Branin modeling of symmetric star tree interconnect. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 391-405	2	3
73	Diakoptics Modelling Applied to Flying Bird-Shape NGD Microstrip Circuit. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 637-641	3.5	3
72	Electromagnetic Cavity Resonance Equalization With Bandpass Negative Group Delay. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 1248-1257	2	3
71	High-pass NGD characterization of resistive-inductive network based low-frequency circuit. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2021 , ahead-of-print,	0.7	3
70	Non-unicity of the electric near-field planar emission model with dipole array. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 584-592	1.6	2
69	Analytical modeling of H-shape distributed topology with bandpass negative group delay behavior. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020 , 30, e22295	1.5	2
68	Modified Kron's TAN modeling of 3D multilayer PCB 2017 ,		2
67	Unity direct chain with feedback series impedance based innovative negative group delay circuit. <i>AEU - International Journal of Electronics and Communications</i> , 2018 , 91, 11-17	2.8	2
66	Multiphysics Analysis of Pin-Socket Electrical Dynamic Contact Susceptibility Under Vibration Stress. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019 , 61, 344-351	2	2
65	Design, Modeling and Synthesis of Negative Group Delay IL-Shape Topology. <i>IEEE Access</i> , 2019 , 7, 153909-153909	3.5	3
64	Fast estimation of high-speed signal integrity for coupled PCB interconnects 2013 ,		2
63	Multilayer power delivery network modeling with modified Kron's method (MKM) 2017 ,		2
62	Radiated EMC immunity investigation of common recognition identification platform for medical applications. <i>EPJ Applied Physics</i> , 2015 , 69, 11002	1.1	2
61	Microwave/digital signal correction with integrable NGD circuits 2012 ,		2
60	Calculation of time-domain near-field Ex, y, z(t) from Hx, y(t) with PWS and FFT transforms 2012 ,		2
59	NGD circuit using a microwave amplifier for the signal integrity improvement 2012 ,		2
58	Original Application of Stop-Band Negative Group Delay Microwave Passive Circuit for Two-Step Stair Phase Shifter Designing. <i>IEEE Access</i> , 2022 , 10, 1493-1508	3.5	2

57	Thermal modelling of multilayer walls for building retrofitting applications. <i>Journal of Building Engineering</i> , 2020 , 29, 101126	5.2	2
56	. <i>IEEE Access</i> , 2020 , 8, 130172-130182	3.5	2
55	S-Matrix and Bandpass Negative Group Delay Innovative Theory of Tri-Geometrical Shape Microstrip Structure. <i>IEEE Access</i> , 2020 , 8, 160363-160373	3.5	2
54	Radiated EMC Kron's Model of 3-D Multilayer PCB Aggressed by Broadband Disturbance. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 406-414	2	2
53	Design of π -Shape Stub-Based Negative Group Delay Circuit. <i>IEEE Design and Test</i> , 2021 , 38, 78-88	1.4	2
52	Low-Pass NGD Numerical Function and STM32 MCU Emulation Test. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
51	Multiphysics TAN Modeling of Uniaxial Vibration Loaded PinSocket Electrical Contact. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2018 , 3, 50-57	1.5	2
50	Experimental Time-Domain Study for Bandpass Negative Group Delay Analysis With Lill-Shape Microstrip Circuit. <i>IEEE Access</i> , 2021 , 9, 24155-24167	3.5	2
49	Multiphysics Analysis of Hemispherical Bulk Conductor Hertzian Contact Under Uniaxial Mechanical Load. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2019 , 4, 171-179	1.5	1
48	Braid Shielding Effectiveness Kron's Model via Coupled Cables Configuration. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 1389-1393	3.5	1
47	Analysis of multilayer interconnects distributed energy-per-bit and power integrity with Kron-Branin formalism 2017 ,		1
46	Characterisation and modelling of near-field radiated emissions in the time-domain 2012 ,		1
45	Magneto-Dielectric Substrate Effect on Bandpass li-Circuit Negative Group Delay(NGD) Performance 2020 ,		1
44	Reduction Technique of Differential Propagation Delay with Negative Group Delay Function 2020 ,		1
43	Zonal Thermal Room Original Model With Kron's Method. <i>IEEE Access</i> , 2020 , 8, 174893-174909	3.5	1
42	Analysis of microstrip coupled line based data signal and energy hybrid receiver. <i>Journal of Electromagnetic Waves and Applications</i> , 2020 , 34, 2433-2454	1.3	1
41	Dielectric Resonator Negative Group Delay Circuit. <i>Radio Science</i> , 2021 , 56, e2020RS007254	1.4	1
40	Study and experimentation of a 6-dB attenuation low-pass NGD circuit. <i>Analog Integrated Circuits and Signal Processing</i> , 1	1.2	1

39	NGD Synthesizer with Feedback Hybrid Coupler 2019 ,		1
38	SNR Kron-Branin Model of Shielded Coaxial Cable under Burst Striking 2019 ,		1
37	Cauer Ladder Inspired Kron-Branin Modeling of Thermal 1-D Diffusion. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 27-31	3.5	1
36	Bandpass NGD TAN of Symmetric H-Tree With Resistorless Lumped-Network. <i>IEEE Access</i> , 2021 , 9, 41383-41396	3.5	1
35	Bandpass NGD Time-Domain Experimental Test of Double-li Microstrip Circuit. <i>IEEE Design and Test</i> , 2021 , 1-1	1.4	1
34	Design and Test of Crab-Shape Negative Group Delay Circuit. <i>IEEE Design and Test</i> , 2021 , 1-1	1.4	1
33	Kron-Branin modelling of ultra-short pulsed signal microelectrode. <i>EPJ Applied Physics</i> , 2018 , 81, 21001	1.1	1
32	Design Engineering of Tri-Band Ulu-Shape NGD Circuit. <i>Radio Science</i> , 2021 , 56, e2021RS007269	1.4	1
31	Design and Synthesis of Inductorless Passive Cell Operating as Stop-Band Negative Group Delay Function. <i>IEEE Access</i> , 2021 , 9, 100141-100153	3.5	1
30	Bandpass Negative Group Delay Theory of Fully Capacitive Network. <i>IEEE Access</i> , 2021 , 9, 62430-62445	3.5	1
29	Theory and Original Design of Resistive-Inductive Network High-Pass Negative Group Delay Integrated Circuit in 130-nm CMOS Technology. <i>IEEE Access</i> , 2022 , 10, 27147-27161	3.5	1
28	Pre-Detection Sensing with Multi-Stage Low-Pass Type Negative Group Delay Circuit. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
27	Optimizing Atom Probe Analysis with Synchronous Laser Pulsing and Voltage Pulsing. <i>Microscopy and Microanalysis</i> , 2017 , 23, 221-226	0.5	0
26	Flat Hyperbolic Centro-affine Tchebychev Hypersurfaces of (\mathbb{R}^4) . <i>Results in Mathematics</i> , 2021 , 76, 1	0.9	0
25	Bandpass NGD analysis of symmetric lumped Y-tree via tensorial analysis of networks formalism. <i>Journal of Electromagnetic Waves and Applications</i> , 2021 , 35, 2125-2140	1.3	0
24	NGD investigation on medusa-shape interconnect structure. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22846	1.5	0
23	Design and Test of Innovative Three Couplers-Based Bandpass Negative Group Delay Active Circuit. <i>IEEE Design and Test</i> , 2021 , 1-1	1.4	0
22	Novel Tee-Shaped Topology Theory of Low- and High-Pass NGD Double-Type Function. <i>IEEE Access</i> , 2022 , 10, 28445-28460	3.5	0

21	S-matrix-based bandpass negative group delay innovative model of inverted parallel arm distributed topology. <i>Journal of Electromagnetic Waves and Applications</i> ,1-15	1.3	0
20	Electromagnetic Characterization of Nanomaterials: Preliminary Study of 60GHz Millimetre Wave Li-NGD Circuit in Microstrip Technology 2022 , 267-295		0
19	Electrical predictive model of Zener diode under pulsed EOS. <i>Electronics Letters</i> , 2015 , 51, 327-328	1.1	
18	Radial stub based negative group delay circuit theory. <i>IET Microwaves, Antennas and Propagation</i> , 2020 , 14, 515-521	1.6	
17	Statistical Performances of Resistive Active Power Splitter. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 120, 012015	0.4	
16	Robustness study of bandpass NGD behavior of ring-stub microstrip circuit under temperature variation. <i>International Journal of Microwave and Wireless Technologies</i> ,1-9	0.8	
15	Modelling of the Signal Delay Induced by PCB Interconnect SISO Structure 2020 , 59-78		
14	Analytical Modeling Methodology of Single-Input Multiple-Output (SIMO) Symmetric Tree Interconnects by Using Lumped Element L-Cell 2020 , 79-106		
13	Symmetric Tree Interconnects Modeling with Elementary Distributed RC-Line 2020 , 107-116		
12	Z/Y/T/S-Matrices Modelling of Symmetric SIMO Structure Based on Elementary Distributed RLC-Cell 2020 , 117-135		
11	Discrete Periodical Model of Microstrip Line with Cascaded Elementary L-Cells 2020 , 35-57		
10	Cartographical Analyses of Reflection and Transmission Coefficients of Shunt Coupled Lines 2020 , 167-189		
9	Z/Y/T/S-Matrices Analysis of Non-symmetric SIMO Tree Based on Elementary Distributed Element 2020 , 137-166		
8	On the investigation of contactless bandpass NGD control with microstrip patch-based circuit. <i>Journal of Electromagnetic Waves and Applications</i> , 2020 , 34, 1849-1857	1.3	
7	Negative group delay experimentation with tee connector and cable structures. <i>EPJ Applied Physics</i> , 2020 , 91, 10903	1.1	
6	Ring oscillators yield analysis: Improving Monte Carlo models with optimized clustering methods. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2227-2237	2	
5	Bandpass NGD function design for 5G microwave signal delay synchronization application. <i>Comptes Rendus Physique</i> , 2021 , 22, 1-19	1.4	
4	Innovative Study of Resistor Shunt-Based Bridged-T Topology With Bandpass Negative Group Delay Behavior. <i>Radio Science</i> , 2021 , 56, e2021RS007280	1.4	

- 3 TAN modelling of HH-shape microstrip interconnect tree. *Journal of Electromagnetic Waves and Applications*, **2021**, 35, 139-149 1.3
- 2 Innovative Transient Study of Tri-Bandpass Negative Group Delay Applied to Microstrip Barcode-Circuit. *IEEE Access*, **2021**, 9, 115030-115041 3.5
- 1 Bandpass NGD investigation of O-shape fully distributed structure with S-matrix modelling. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2021**, 40, 640-659 0.7