

CITATION REPORT

List of articles citing

Problems in designing with QCAs: Layout = Timing

DOI: 10.1002/1097-007x(200101/02)29:13.0.co;2-1
International Journal of Circuit Theory and
Applications, 2001, 29, 49-62.

Source: <https://exaly.com/paper-pdf/33052904/citation-report.pdf>

Version: 2024-04-23

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
174	The Optics of the Lenticular Color-Film Process. 1958 , 67, 8-13		
173	Integrable Electronic Gyrotors with High Efficiency. 1976 ,		
172	A 750 ks/s 8-Bit Low-Power Pipelined A/D Converter. 1988 ,		
171	A modular approach to redundant robot control.		1
170	Particle-triggered breakdown mechanism in the presence of DC and AC electrical gradient forces in atmospheric air. 1999 ,		5
169	Equivalent circuit representation of arrays composed of Coulomb-coupled nanoscale devices: modelling, simulation and realizability. <i>International Journal of Circuit Theory and Applications</i> , 2001 , 29, 3-35	2	25
168	Clocked molecular quantum-dot cellular automata. <i>IEEE Transactions on Electron Devices</i> , 2003 , 50, 1890-1896		195
167	Molecular quantum-dot cellular automata. 2003 , 125, 1056-63		307
166	Quantum-dot cellular automata: an architecture for molecular computing. 2003 ,		20
165	An architecture for molecular computing using quantum-dot cellular automata.		15
164	Contributors. 2003 , 40, 7-7		
163	Electronics Below 10 nm. 2003 , 27-68		72
162	Quantum-Dot Cellular Automata (QCA) circuit partitioning. 2004 ,		21
161	Carbon nanotubes for quantum-dot cellular automata clocking.		10
160	Thermal effect in quantum-dot cellular automata. 2005 , 27, 188-197		10
159	Quantum calculation of thermal effect in quantum-dot cellular automata. 2005 , 10, 73-78		4
158	Tile-based QCA design using majority-like logic primitives. 2005 , 1, 163-185		32

157	Tile-based design of a serial memory in QCA. 2005,	15
156	.	10
155	.	2
154	Fault tolerance calculations for clocked quantum-dot cellular automata devices. 2005, 98, 094904	13
153	.	24
152	A line-based parallel memory for QCA implementation. 2005, 4, 690-698	62
151	Fault tolerance properties in quantum-dot cellular automata devices. 2006, 39, 1489-1494	18
150	Defect Tolerance of QCA Tiles. 2006,	10
149	Bennett clocking of quantum-dot cellular automata and the limits to binary logic scaling. 2006, 17, 4240-51	143
148	Probabilistic Modeling of QCA Circuits Using Bayesian Networks. 2006, 5, 657-670	25
147	Clocking and Cell Placement for QCA. 2006,	11
146	Clocking and Cell Placement for QCA.	6
145	QCA memory with parallel read/serial write: design and analysis. 2006, 153, 199	15
144	. 2006,	9
143	HDLQ. 2006, 2, 243-261	43
142	A Method to Analyze the Fault Tolerance of Molecular Quantum-Dot Cellular Automata Systems. 2006,	2
141	Designing layout timing independent quantum-dot cellular automata (QCA) circuits by global asynchrony. 2007, 53, 551-567	17
140	Analysis of missing and additional cell defects in sequential quantum-dot cellular automata. 2007, 40, 503-515	27

139	Design of sequential circuits by quantum-dot cellular automata. 2007 , 38, 525-537	74
138	On the Tolerance to Manufacturing Defects in Molecular QCA Tiles for Processing-by-wire. 2007 , 23, 163-174	29
137	Scalability of Globally Asynchronous QCA (Quantum-Dot Cellular Automata) Adder Design. 2008 , 24, 313-320	9
136	. 2008 , 57, 606-618	60
135	. 2008 , 27, 34-44	149
134	A layout-aware physical design method for constructing feasible QCA circuits. 2008 ,	14
133	Reversible and Testable Circuits for Molecular QCA Design. 2008 , 157-202	14
132	Quantum-Dot Cellular Automata Serial Comparator. 2008 ,	8
131	Designing QCA Delay-Insensitive Serial Adder. 2008 ,	3
130	System Reliabilities When Using Triple Modular Redundancy in Quantum-Dot Cellular Automata. 2008 ,	7
129	A model for computing and energy dissipation of molecular QCA devices and circuits. 2008 , 3, 1-30	16
128	Memory Design for Testability and Fault Tolerance. 2009 ,	
127	The Ternary Quantum-dot Cellular Automata Memorizing Cell. 2009 ,	6
126	Design and simulation of modular $2n$ to 1 quantum-dot cellular automata (QCA) multiplexers. <i>International Journal of Circuit Theory and Applications</i> , 2009 , 38, n/a-n/a	2 15
125	Power dissipation in clocking wires for clocked molecular quantum-dot cellular automata. 2010 , 9, 49-55	50
124	Fault-tolerance and thermal characteristics of quantum-dot cellular automata devices. 2010 , 107, 114306	15
123	Montgomery modular multiplier design in quantum-dot cellular automata using cut-set retiming. 2010 ,	4
122	Restoring divider design for quantum-dot cellular automata. 2011 ,	8

121	Notice of Violation of IEEE Publication Principles: Carbon Nanotubes for Quantum-Dot Cellular Automata Clocking. 2011,		
120	Design of quantum-dot cellular automata circuits using cut-set retiming. 2011, 10, 1150-1160		21
119	Design rules for Quantum-dot Cellular Automata. 2011,		39
118	Unconventional Computation. <i>Lecture Notes in Computer Science, 2011,</i>	0.9	1
117	All-NDR crossbar logic. 2011,		1
116	New Methodology for the Design of Efficient Binary Addition Circuits in QCA. 2012, 11, 1192-1200		32
115	Two-layer synchronized ternary quantum-dot cellular automata wire crossings. 2012, 7, 221		8
114	Are QCA cryptographic circuits resistant to power analysis attack?. 2012, 11, 1239-1251		68
113	Layout design of manufacturable quantum-dot cellular automata. 2012, 43, 501-513		42
112	QCA Systolic Array Design. 2013, 62, 548-560		45
111	Fault modeling and mapping for quantum-dot cellular automata (QCA) designs. 2013,		1
110	. 2013,		
109	Design of router using Reversible Logic in Quantum Cellular Automata. 2014,		9
108	Structural distortions in molecular-based quantum cellular automata: a minimal model based study. 2014, 16, 17777-85		7
107	Area-Delay Efficient Binary Adders in QCA. 2014, 22, 1174-1179		43
106	Field-Coupled Nanocomputing. <i>Lecture Notes in Computer Science, 2014,</i>	0.9	12
105	Design of Efficient Binary Comparators in Quantum-Dot Cellular Automata. 2014, 13, 192-202		31
104	Design of Goldschmidt Dividers with Quantum-Dot Cellular Automata. 2014, 63, 2620-2625		12

103	A New Adaptive Genetic Algorithm and Its Application in the Layout problem. 2015 , 8, 1044		6
102	Design and Simulation of Turbo Encoder in Quantum-Dot Cellular Automata. 2015 , 14, 820-828		17
101	Towards the hierarchical design of multilayer QCA logic circuit. 2015 , 11, 233-244		17
100	Design and implementation of Arithmetic Logic Unit (ALU) using modified novel bit adder in QCA. 2015 ,		3
99	Innovative design methodologies in quantum-dot cellular automata. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 253-262	2	9
98	Cost reduction in bottom-up hierarchical-based VLSI floorplanning designs. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 286-306	2	2
97	Automated Design Architecture for 1-D Cellular Automata Using Quantum Cellular Automata. 2015 , 64, 2476-2489		10
96	Optimized design and performance analysis of novel comparator and full adder in nanoscale. 2016 , 3, 1237864		22
95	Content addressable memory cell in quantum-dot cellular automata. 2016 , 163, 140-150		42
94	An efficient design of full adder in quantum-dot cellular automata (QCA) technology. 2016 , 50, 35-43		69
93	Design of efficient QCA multiplexers. <i>International Journal of Circuit Theory and Applications</i> , 2016 , 44, 602-615	2	12
92	ToPoliNano: A CAD Tool for Nano Magnetic Logic. 2017 , 36, 1061-1074		28
91	An enhanced high-speed multi-digit BCD adder using quantum-dot cellular automata. 2017 , 38, 024002		5
90	Sequential circuit design using quantum-dot cellular automata. 2017 , 117, 442-449		1
89	A New Clocking Scheme for Quantum-dot Cellular Automata Based Designs with Single or Regular Cells. 2017 , 117, 466-473		2
88	Design of 4-bit serial-parallel multiplier in Quantum-Dot Cellular Automata. 2017 ,		1
87	. 2017 ,		0
86	The role of the tunneling matrix element and nuclear reorganization in the design of quantum-dot cellular automata molecules. 2018 , 123, 064302		3

85	A dynamically reconfigurable logic cell: from artificial neural networks to quantum-dot cellular automata. 2018 , 8, 89-103		18
84	QCA based design of Polar encoder circuit for nano communication network. 2018 , 18, 82-92		8
83	Signal Synchronization in Large Scale Quantum-dot Cellular Automata Circuits. 2018 ,		2
82	Shannon Logic Based Novel QCA Full Adder Design with Energy Dissipation Analysis. 2018 , 57, 3702-3715		10
81	Performance Prediction of Configurable softwares using Machine learning approach. 2018 ,		1
80	Welcome note. 2018 ,		
79	Toffoli Netlist and QCA implementations for existing four variable reversible gates: a comparative analysis. 2019 , 25, 1987-2009		1
78	Comparative Analysis of Full Adder Custom Design Circuit using Two Regular Structures in Quantum-Dot Cellular Automata (QCA). 2019 ,		1
77	Robust QCA full-adders using an efficient fault-tolerant five-input majority gate. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 1037-1056	2	20
76	Prototype of FPGA Dynamic Reconfiguration Based-on Context-Oriented Programming. 2019 ,		
75	GRK-Papyri: A Dataset of Greek Handwriting on Papyri for the Task of Writer Identification. 2019 ,		7
74	A Reliable Hand Tracking Method Using Kinect. 2019 ,		1
73	Haptic Guidance for Robot-Assisted Endovascular Procedures: Implementation and Evaluation on Surgical Simulator. 2019 ,		3
72	Designing Of Beach Rescue Drone Using GPS And Zigbee Technologies. 2019 ,		2
71	Sequential Task Scheduling for Mobile Edge Computing Using Genetic Algorithm. 2019 ,		5
70	Positioning of Reactive Voltage Compensator Based on Genetic Algorithm in Distribution Network. 2019 ,		0
69	High-Speed Image Processing Platform Based on UPP Technology. 2019 ,		
68	Breaking the Code on Broken Tablets: The Learning Challenge for Annotated Cuneiform Script in Normalized 2D and 3D Datasets. 2019 ,		2

67	Evaluation of Potential and Impedance Integrals in Case of Singular Bases Along Axially Symmetric Antennas. 2019,	
66	FLAME: Feature-Likelihood Based Mapping and Localization for Autonomous Vehicles. 2019,	
65	Efficient Decoding of Interleaved Low-Rank Parity-Check Codes. 2019,	3
64	DSNet:Multi-resolution Dense Encoder and Stack Decoder Network for Aerial Image Segmentation. 2019,	
63	Adaptive Iterative Learning Algorithm of Strict-feedback Systems with Initial State Error. 2019,	
62	Social Impact Bonds: Current Context and Implementation Model in the Healthcare Industry. 2019,	2
61	Title Page. 2019,	
60	Status and Analysis of 3GPP 5G NR Base Station EMC Specification. 2019,	1
59	IEEE Magnetics Society Information. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, C3-C3	2
58	IEEE Transactions on Antennas and Propagation. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, C2-C2	4-9
57	Effective Target Extraction of Automatic Target-Scoring System. 2019,	1
56	Semi-identical Solution to Nonlinear Euler-Bernoulli Beam Model. 2019,	
55	Rate loss in the Gaussian CEO problem. 2019,	2
54	Firefly Algorithm for Frequency Controller of Autonomous Hybrid Energy System. 2019,	3
53	Table of contents. 2019,	
52	Ship-induced Wave Numerical Simulation in Head-on Situation of Two Ships in Shallow Water. 2019,	
51	Acknowledgements. 2019,	
50	Self-Supervised Monocular Depth Hints. 2019,	52

49	Cross-Layer Design of Control and Feedback Signal Frames for LANs of Drones. 2019,		
48	. 2019,		1
47	Neural Network Based Heterogeneous Sensor Fusion for Robot Motion Planning. 2019,		3
46	Progress-based Container Scheduling for Short-lived Applications in a Kubernetes Cluster. 2019,		5
45	Synchronized Optimal Control of Intelligent Crane Car Based on Multilevel Fuzzy-PID Control. 2019,		1
44	Passive Intermodulation Suppression of PIFA by EGaln as Reconfigurable Normal Temperature Solder. 2019,		
43	Vol-Based Optimal Sensors Positioning and the Sub-Modularity Issue. 2019,		2
42	Regularizing Activation Distribution for Training Binarized Deep Networks. 2019,		29
41	Analysis of battery-based virtual inertia & primary frequency response on improving frequency dynamics in an island hydro-diesel-PV ac-grid. 2019,		0
40	Power System Fault Detection, Classification And Clearance By Artificial Neural Network Controller. 2019,		3
39	. 2019,		3
38	A Scalable QCA Clocking Mechanism for Efficient Full Utilization of Majority Gates. 2020,		
37	Synchronization in Quantum-Dot Cellular Automata Circuits and Systems. <i>IEEE Open Journal of Nanotechnology</i> , 2020 , 1, 145-156	2.1	2
36	ICCSSE 2020 Author Index. 2020,		
35	A Self-Decoupled Antenna Array Using Inductive and Capacitive Couplings Cancellation. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5289-5296	4.9	21
34	ColorMapGAN: Unsupervised Domain Adaptation for Semantic Segmentation Using Color Mapping Generative Adversarial Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 7178-7193	8.1	38
33	Fast transient-based detection of busbar faults employing improved morphological gradient. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1458-1466	2.5	2
32	Design and simulation of quantum-dot cellular automata serial decimal pipelined processor based on Turing machine model. <i>Microprocessors and Microsystems</i> , 2020 , 77, 103195	2.4	2

31	Hyperspectral Classification With Noisy Label Detection via Superpixel-to-Pixel Weighting Distance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 4116-4131	8.1	48
30	Performance analysis of downlink NOMA over α and β fading channels. <i>IET Communications</i> , 2020 , 14, 522-531	1.3	13
29	An Encoder-Decoder Convolution Network With Fine-Grained Spatial Information for Hyperspectral Images Classification. <i>IEEE Access</i> , 2020 , 8, 33600-33608	3.5	3
28	. <i>IEEE Access</i> , 2020 , 8, 39056-39077	3.5	24
27	Coding Programmable Metasurfaces Based on Deep Learning Techniques. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2020 , 10, 114-125	5.2	33
26	Configurable Logic Blocks and Memory Blocks for Beyond-CMOS FPGA-Based Embedded Systems. <i>IEEE Embedded Systems Letters</i> , 2020 , 12, 113-116	1	6
25	Analytical Performance Analysis of CdZnO/ZnO-Based Multiple Quantum Well Solar Cell. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 1047-1051	2.9	6
24	Multiobjective Hyperspectral Feature Selection Based on Discrete Sine Cosine Algorithm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 3601-3618	8.1	17
23	Two-Phase Multimodal Neural Network for App Categorization using APK Resources. 2020 ,		1
22	Effect of flake size of natural graphite precursor on graphene oxide supercapacitor for energy storage. 2020 ,		
21	Spars: A Full Flow Quantum-Dot Cellular Automata Circuit Design Tool. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 1233-1237	3.5	0
20	A Healthcare-Based Intelligent Monitoring Paradigm in Quantum Dot Cellular Automata (QCA) to Protect Against Novel Corona Outbreak. <i>EAI/Springer Innovations in Communication and Computing</i> , 2021 , 1-18	0.6	
19	Implementation of Quantum-Dot Cellular Automata Based Efficient N-Bit BCD Adders Using Verilog. <i>Journal of Physics: Conference Series</i> , 2021 , 1964, 062092	0.3	
18	Quantum-Dot Cellular Automata. 2003 , 397-431		11
17	Image Processing Algorithms Implementation Using Quantum Cellular Automata. <i>Emergence, Complexity and Computation</i> , 2014 , 65-84	0.1	2
16	The Key Elements of Logic Design in Ternary Quantum-Dot Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2011 , 177-188	0.9	5
15	NanoMagnet Logic: An Architectural Level Overview. <i>Lecture Notes in Computer Science</i> , 2014 , 223-256	0.9	5
14	NanoMagnet Logic: An Architectural Level Overview. <i>Lecture Notes in Computer Science</i> , 2014 , 223-256	0.9	16

13	Security Issues in QCA Circuit Design - Power Analysis Attacks. <i>Lecture Notes in Computer Science</i> , 2014 , 194-222	0.9	2
12	Design of Full Adder with Self-checking Capability Using Quantum Dot Cellular Automata. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 719-731	0.2	3
11	Defect and Temperature Effects on Complex Quantum-Dot Cellular Automata Devices. <i>Journal of Applied Mathematics and Physics</i> , 2013 , 01, 7-15	0.3	8
10	Nanoarchitectonics. <i>The Electrical Engineering Handbook</i> , 2007 , 10-1-10-24		
9	Security Issues in QCA Circuit Design - Power Analysis Attacks. <i>Lecture Notes in Computer Science</i> , 2014 , 194-222	0.9	1
8	Toward nanometric scale integration. 2019 ,		0
7	Clocking Schemes for QCA. <i>Studies in Computational Intelligence</i> , 2020 , 139-145	0.8	1
6	Module-based design method using clocking scheme for quantum-dot cellular automata. <i>International Journal of Circuit Theory and Applications</i> ,	2	
5	A Design Methodology of Line Feedback Shift Registers With Quantum Cellular Automata. <i>IEEE Open Journal of Nanotechnology</i> , 2021 , 2, 129-139	2.1	0
4	Design and implementation of a nano magnetic logic barrel shifter using beyond-CMOS technology. <i>Journal of Electrical Engineering</i> , 2022 , 73, 1-10	0.6	0
3	A Secure Communication Gateway with Parity Generator Implementation in QCA Platform. 2022 , 197-209		0
2	An automatic routing approach for NML circuits.		0
1	A novel QCA circuit-switched network with power dissipation analysis for nano communication applications. 2023 , 35, 100438		0