

CITATION REPORT

List of articles citing

Quantum cellular automata

DOI: 10.1088/0957-4484/4/1/004
Nanotechnology, 1993, 4, 49-57.

Source: <https://exaly.com/paper-pdf/24170081/citation-report.pdf>

Version: 2024-04-19

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
1433	The Optics of the Lenticular Color-Film Process. 1958 , 67, 8-13		
1432	Integrable Electronic Gyrotors with High Efficiency. 1976 ,		
1431	A 750 ks/s 8-Bit Low-Power Pipelined A/D Converter. 1988 ,		
1430	Bistable saturation in coupled quantum-dot cells. 1993 , 74, 3558-3566		129
1429	Lines of interacting quantum-dot cells: A binary wire. 1993 , 74, 6227-6233		222
1428	Bistable saturation due to single electron charging in rings of tunnel junctions. 1994 , 75, 4077-4080		50
1427	Supercomputing with spin-polarized single electrons in a quantum coupled architecture. <i>Nanotechnology</i> , 1994 , 5, 113-133	3.4	93
1426	Logical devices implemented using quantum cellular automata. 1994 , 75, 1818-1825		817
1425	.		72
1424	Nanostructures and Semiconductor Electronics. 1995 , 192, 287-299		9
1423	Electron-Electron interaction in three-dimensional model quantum box. 1995 , 78, 1798-1803		2
1422	Design of gate-confined quantum-dot structures in the few-electron regime. 1995 , 78, 1050-1057		27
1421	Coulomb effects between electrons in quantum box structures. 1995 , 71, 359-372		1
1420	Effect of Stray Charge on Quantum Cellular Automata. 1995 , 34, 4373-4375		18
1419	Realizable Universal Quantum Logic Gates. 1995 , 74, 4087-4090		413
1418	Is quantum mechanics useful?. 1995 , 353, 367-376		97
1417	Two-bit gates are universal for quantum computation. 1995 , 51, 1015-1022		666

1416	Dynamic behavior of quantum cellular automata. 1996 , 80, 4722-4736	261
1415	Minimal Energy Requirements in Communication. 1996 , 272, 1914-8	104
1414	Lossless cellular neural networks.	
1413	Logic design and quantum challenge.	2
1412	Ergodicity of quantum cellular automata. 1996 , 82, 963-998	19
1411	Need for critical assessment. 1996 , 43, 1637-1639	23
1410	Collective computational activity in self-assembled arrays of quantum dots: a novel neuromorphic architecture for nanoelectronics. 1996 , 43, 1688-1699	71
1409	III-V Nanoelectronics. 1996 , 32, 283-295	6
1408	The future of microelectronics: Evolution or revolution?. 1996 , 34, 125-134	3
1407	Three-Dimensional Carrier Confinement in Strain-Induced Self-Assembled Quantum Dots. 1996 , 21, 50-54	71
1406	A graph theoretic approach to quantum cellular design and analysis. 1996 , 79, 2097-2102	10
1405	Single electron-photon logic device using coupled quantum dots: Computation with the Fock ground state. 1996 , 79, 291-300	26
1404	Quantum fluctuations in a quantum dot array in the regime of ferroelectric phase transitions. 1996 , 8, 4071-4077	2
1403	Cellular-Automaton Circuits Using Single-Electron-Tunneling Junctions. 1997 , 36, 2621-2627	13
1402	External charge state detection of a double-dot system. 1997 , 71, 1730-1732	23
1401	Chemical vapor deposition growth and characterization of undoped and doped Ge and Ge _{1-x} C _x quantum dots on Si. 1997 , 71, 3564-3566	16
1400	Quantum-dot cellular nonlinear networks: computing with locally-connected quantum dot arrays.	6
1399	Quantum-Dot Devices and Quantum-Dot Cellular Automata. 1997 , 07, 2199-2218	45

1398 At the limit of device miniaturization. **1996**, 75-85

1397 The design of highly-parallel image processing systems using nanoelectronic devices. 5

1396 Heterogeneous nucleation of coherently strained islands during epitaxial growth of Ge on Si(110). **1997**, 70, 49-51 20

1395 On computing with locally-interconnected architectures in atomic/nanoelectronic systems. 1

1394 A device architecture for computing with quantum dots. **1997**, 85, 541-557 776

1393 Nanoelectronic architecture for Boolean logic. **1997**, 85, 574-588 44

1392 Realization of a Functional Cell for Quantum-Dot Cellular Automata. **1997**, 277, 928-930 489

1391 Overview of nanoelectronic devices. **1997**, 85, 521-540 225

1390 A modular approach to redundant robot control. 1

1389 After CMOS: in anticipation of innovative devices on Si. **1997**, 36, 3-10 4

1388 Beyond CMOS: quantum devices. **1997**, 39, 263-272 10

1387 Quantum-dot devices and Quantum-dot Cellular Automata. **1997**, 334, 1147-1175 33

1386 Assembly and analysis of quantum devices using SPM based methods. **1998**, 38, 943-950 3

1385 Simulation of a non-invasive charge detector for quantum cellular automata. **1998**, 336, 145-148 5

1384 A functional cell for quantum-dot cellular automata. **1998**, 42, 1355-1359 16

1383 Cell design and dynamics of quantum cellular automata. **1998**, 42, 1361-1366 3

1382 The use of nanoelectronic devices in highly parallel computing systems. **1998**, 6, 31-38 11

1381 Quantum wells and quantum dots for photonics and electronics: Fundamentals and applications.

1380 Quantum computing with quantum-dot cellular automata using coherence vector formalism.

1379 Three-Dimensional Mesoscale Self-Assembly. **1998**, 120, 8267-8268 83

1378 Energy needed to send a bit. **1998**, 454, 305-311 8

1377 Experimental demonstration of quantum-dot cellular automata. **1998**, 13, A130-A134 23

1376 QUANTUM-DOT CELLULAR AUTOMATA DEVICES AND ARCHITECTURES. **1998**, 09, 37-63 7

1375 Quantum Cellular Automaton Device Using the Image Charge Effect. **1998**, 37, 2433-2438 3

1374 Correlated electron transport in coupled metal double dots. **1998**, 73, 2787-2789 20

1373 Demonstration of a six-dot quantum cellular automata system. **1998**, 72, 2179-2181 80

1372 Engineering of the magnetic properties of strained quantum dots. **1998**, 73, 3944-3946 2

1371 Single-electron-parametron-based logic devices. **1998**, 84, 6114-6126 40

1370 Self-Assembly of Quantum-Dot Molecules: Heterogeneous Nucleation of SiGe Islands on Si(100). **1998**, 81, 1473-1476 60

1369 Towards nanoelectronics: possible CNN implementations using nanoelectronic devices. 5

1368 Possible Wireless Single-Electron Logic Biased by Electric Field. **1998**, 6, 39-41

1367 Particle-triggered breakdown mechanism in the presence of DC and AC electrical gradient forces in atmospheric air. **1999**, 5

1366 Bidirectional Signal Transmission Circuit Using Single Electron Tunneling Junctions. **1999**, 38, 2462-2465 3

1365 Electronic configurations in coupled many-electron quantum-dot systems. **1999**, 14, 949-957 4

1364 Structure and optical properties of semiconductor quantum nanostructures self-formed in inverted tetrahedral pyramids. **1999**, 11, 5901-5915 49

1363 Quantum-Dot Cellular Automata: Line and Majority Logic Gate. **1999**, 38, 7227-7229 60

1362	Merits and Demerits of Single Electron Effects in Ultrasmall Semiconductor Devices. 1999 , 38, 2473-2476	4
1361	Quantum Dots - Pages 133-145. 1999 , 133-145	
1360	Conductance suppression due to correlated electron transport in coupled double quantum dots. 1999 , 60, 16906-16912	12
1359	Positioning of self-assembled, single-crystal, germanium islands by silicon nanoimprinting. 1999 , 74, 1773-1775	53
1358	Experimental demonstration of a binary wire for quantum-dot cellular automata. 1999 , 74, 2875-2877	117
1357	Influence of imperfections on the dynamical response in model quantum cellular automata. 1999 , 85, 6571-6576	17
1356	Metastable states and information propagation in a one-dimensional array of locally coupled bistable cells. 1999 , 85, 1622-1625	11
1355	Quasiadiabatic switching for metal-island quantum-dot cellular automata. 1999 , 85, 2977-2984	175
1354	Self-aligning of self-assembled Ge islands on Si(001). <i>Nanotechnology</i> , 1999 , 10, 117-121	3-4 30
1353	Stress-Driven Formation of InGaAs Quantum Dots on GaAs with Sub-Micron Platinum Pattern. 1999 , 38, L1003-L1005	2
1352	Study of intersubband transition in quantum dots and quantum dot infrared photodetectors. 1999 , 5, 27-35	84
1351	Quantum-dot cellular automata. 1999 , 47, 261-263	14
1350	A characterization of important algorithms for quantum-dot cellular automata. 1999 , 113, 193-204	15
1349	Single-electron logic and memory devices. 1999 , 86, 511-547	36
1348	Quantum-dot cellular automata: computing with coupled quantum dots. 1999 , 86, 549-590	99
1347	Quantum-dot cellular automata: Review and recent experiments (invited). 1999 , 85, 4283-4285	101
1346	Quantum-dot cellular automata. 1999 , 17, 1394-1398	16
1345	Single-electron devices and their applications. 1999 , 87, 606-632	1022

1344	Observation of switching in a quantum-dot cellular automata cell. <i>Nanotechnology</i> , 1999 , 10, 166-173	3.4	23
1343	Why is time-varying control necessary for signal processing with locally-connected quantum-dot arrays?.		
1342	Stress-Driven Formation of Self-Assembled InGaAs Islands on Sub-Micron Metal-Patterned Substrate. 1999 , 571, 171		
1341	Mechanism of the Preferential Edge-Positioning of Self-Organized Ge Quantum Dots on Si Mesas. 1999 , 571, 31		1
1340	Highly Ordered Uniform Quantum Dots Induced by Ion Sputtering. 2000 , 618, 3		
1339	Control of the arrangement of self-organized Ge dots on patterned Si(001) substrates. 2000 , 369, 49-54		9
1338	Study of phonons in self-organized multiple Ge quantum dots. 2000 , 29, 554-556		4
1337	Modeling nanoelectronic CNN cells: CMOS, SETs and QCAs.		3
1336	Toward nanoelectronic systems integration.		1
1335	Regimented placement of self-assembled Ge dots on selectively grown Si mesas. 2000 , 76, 3591-3593		85
1334	MOLECULAR ELECTRONICS: Bypassing the Transistor Paradigm. 2000 , 288, 1597-1599		200
1333	Photoconductivity in CdSe quantum dot solids. 2000 , 62, 2669-2680		243
1332	.		2
1331	Signal processing with near-neighbor-coupled time-varying quantum-dot arrays. 2000 , 47, 1212-1223		34
1330	Architectures for molecular electronic computers. I. Logic structures and an adder designed from molecular electronic diodes. 2000 , 88, 386-426		297
1329	A Novel Application of Alkanethiol Self-Assembled Monolayers in Nanofabrication: Direct Molding and Replication of Patterned Conducting Masters. 2001 , 17, 2748-2752		30
1328	Quantum computing with quantum-dot cellular automata. 2001 , 63,		79
1327	Computational Electronics. 2001 , 1456-1470		2

1326 The Center for Nanoscopic Materials Design.

1325 Self-assembly of one-dimensional nanostructures at silicon surfaces. **2001**, 117, 149-157 68

1324 Eliminating non-logical states from linear quantum-dot-cellular automata. **2001**, 32, 81-84 7

1323 Single-electron charging effects in Si MOS devices. **2001**, 9, 69-75 2

1322 Quantum device circuits made of trapped ions. **2001**, 29, 119-136 3

1321 Equivalent circuit representation of arrays composed of Coulomb-coupled nanoscale devices: modelling, simulation and realizability. **2001**, 29, 3-35 25

1320 Site-specific organization of gold nanoparticles by biomolecular templating. **2001**, 2, 184-6 99

1319 Quantum-dot cellular automata. **2001**, 25, 165-189 21

1318 Manipulation of elementary charge in a silicon charge-coupled device. **2001**, 410, 560-2 59

1317 . 1

1316 Rules for a cellular automaton to model quantum-dot cellular automata. 4

1315 Clocking of molecular quantum-dot cellular automata. **2001**, 19, 1752 227

1314 Analog Computation Using Quantum-Dot Cell Network. **2001**, 40, 2792-2796 1

1313 A quantum-dot cellular automata shift register.

1312 Power gain in a quantum-dot cellular automata (QCA) shift register. 2

1311 The quantum-dot large-neighborhood cellular nonlinear network (QLN-CNN) in nanotechnology. 1

1310 Role of correlation in the operation of quantum-dot cellular automata. **2001**, 89, 7943-7953 32

1309 Field-coupled devices for nanoelectronic integrated circuits. 1

1308	Proposed experiment to assess operation of quantum cellular automaton cells. 2001 , 90, 6428-6433	11
1307	Spontaneously forming nanostructures: Quantum dot molecules and rings. 2001 , 90, 4748-4754	15
1306	Logic devices for partitioned quantum-dot cells.	
1305	Clocked quantum-dot cellular automata devices: experimental studies.	10
1304	Experimental demonstration of a latch in clocked quantum-dot cellular automata. 2001 , 78, 1625-1627	65
1303	Power gain in a quantum-dot cellular automata latch. 2002 , 81, 1332-1334	77
1302	Molecular patterning through high-resolution polymethylmethacrylate masks. 2002 , 80, 4220-4222	30
1301	Two-electron quantum dots as scalable qubits. 2002 , 66,	34
1300	A fine-grained reconfigurable logic array based on double gate transistors.	8
1299	Is nanoelectronics the future of microelectronics?. 2002 ,	2
1298	Application-specific architecture for quantum cellular automata.	3
1297	Is nanoelectronics the future of microelectronics?. 2002 ,	1
1296	Silicon single-electron devices. 2002 , 14, R995-R1033	92
1295	The role of field coupling in nano-scale cellular nonlinear networks.	0
1294	Computing with restricted minima systems.	
1293	Power gain and dissipation in quantum-dot cellular automata. 2002 , 91, 823-831	306
1292	Nanocomputing by field-coupled nanomagnets. 2002 , 1, 209-213	159
1291	Experimental demonstration of a QCA shift register and analysis of errors.	1

1290	. 2002 , 1, 170-175	8
1289	Signal processing with coupled ferromagnetic dots.	1
1288	Single-electron tunneling effects in a metallic double dot device. 2002 , 80, 667-669	13
1287	Silicon-based nanostructures. 2002 , 387-443	0
1286	Intellectual property rights in nanotechnology. 2002 , 420-421, 472-477	12
1285	Computational electronics. 2002 , 38, 181-236	17
1284	Simulation of Field Coupled Computing Architectures Based on Magnetic Dot Arrays. 2002 , 1, 87-91	49
1283	Recovering pure states in two-state quantum systems. 2003 , 34, 503-507	1
1282	Clocked molecular quantum-dot cellular automata. 2003 , 50, 1890-1896	195
1281	Operation of a quantum-dot cellular automata (QCA) shift register and analysis of errors. 2003 , 50, 1906-1913	95
1280	On the circuit paradigm in quantum networks. 2003 , 31, 3-10	3
1279	Decoherence in quantum systems and the network paradigm. 2003 , 31, 11-21	2
1278	A computing architecture composed of field-coupled single domain nanomagnets clocked by magnetic field. 2003 , 31, 67-82	54
1277	Realization of quantum-dot cellular automata using semiconductor quantum dots. 2003 , 34, 195-203	31
1276	Clocked quantum-dot cellular automata shift register. 2003 , 532-535, 1193-1198	56
1275	Molecular QCA cells. 2. Characterization of an unsymmetrical dinuclear mixed-valence complex bound to a Au surface by an organic linker. 2003 , 42, 5715-21	64
1274	Molecular quantum cellular automata cells. Electric field driven switching of a silicon surface bound array of vertically oriented two-dot molecular quantum cellular automata. 2003 , 125, 15250-9	180
1273	Low temperature development of PMMA for sub-10-nm electron beam lithography.	7

1272	Molecular quantum-dot cellular automata. 2003 , 125, 1056-63	307
1271	Molecular QCA cells. 1. Structure and functionalization of an unsymmetrical dinuclear mixed-valence complex for surface binding. 2003 , 42, 5707-14	71
1270	. 2003 , 2, 15-22	83
1269	Quantum-dot cellular automata by electric and magnetic field coupling.	2
1268	Ambipolar Coulomb blockade characteristics in a two-dimensional Si multidot device. 2003 , 2, 231-235	30
1267	Building blocks for the molecular expression of quantum cellular automata. Isolation and characterization of a covalently bonded square array of two ferrocenium and two ferrocene complexes. 2003 , 125, 7522-3	152
1266	Evidence for transfer of polarization in a quantum dot cellular automata cell consisting of semiconductor quantum dots. 2003 , 67,	33
1265	A polymorphic hardware platform.	1
1264	Novel single-electron logic circuits using charge-induced signal transmission (CIST) structures. 2003 , 2, 1-9	2
1263	Quasi-adiabatic clocking of quantum-dot cellular automata. 2003 , 94, 4116-4121	11
1262	Ratchet cellular automata. 2003 , 90, 247004	51
1261	Lateral control of self-assembled island nucleation by focused-ion-beam micropatterning. 2003 , 82, 1093-1095	70
1260	Electron pump by a combined single-electron/field-effect-transistor structure. 2003 , 82, 1221-1223	50
1259	Quantum-dot cellular automata: an architecture for molecular computing. 2003 ,	20
1258	Current suppression in a double-island single-electron transistor for detection of degenerate charge configurations of a floating double-dot. 2003 , 83, 4640-4642	6
1257	High-speed metallic quantum-dot cellular automata.	2
1256	The role of field coupling in nano-scale cellular nonlinear networks. 2003 , 13, 387-95	2
1255	Sub-20-nm Electron Devices. 2003 , 239-302	5

1254	An architecture for molecular computing using quantum-dot cellular automata.	15
1253	Investigation of antiferromagnetic ordering along chains of coupled nanomagnets.	5
1252	Quantum-dot cellular automata. 2003 ,	7
1251	Selective deposition of molecules through poly(methylmethacrylate) patterns defined by electron-beam lithography. 2003 , 21, 227	3
1250	Contributors. 2003 , 40, 7-7	
1249	Electronics Below 10 nm. 2003 , 27-68	72
1248	DNA self-assembled parallel computer architectures. <i>Nanotechnology</i> , 2004 , 15, 1688-1694	3-4 16
1247	From massively parallel image processors to fault-tolerant nanocomputers. 2004 ,	4
1246	Fabrication and characterization of Au island single-electron transistors with CrOx step edge junctions. 2004 , 22, 3128	5
1245	Split current quantum cellular automata: device and logic gates.	
1244	Stability of strained heteroepitaxial systems in (1+1) dimensions. 2004 , 70,	1
1243	Quantum-Dot Cellular Automata (QCA) circuit partitioning. 2004 ,	21
1242	Si multidot single-charge tunneling devices.	
1241	Tools and Techniques for Evaluating Reliability Trade-Offs for Nano-Architectures. 2004 , 157-211	2
1240	Sub-10 nm electron beam lithography using cold development of poly(methylmethacrylate). 2004 , 22, 1711	163
1239	Bio-inspired nano-sensor-enhanced CNN visual computer. 2004 , 1013, 92-109	12
1238	On dissipative two-state quantum cells and cellular networks. 2004 , 32, 79-90	3
1237	Ratchet superconducting vortex cellular automata. 2004 , 404, 266-272	5

1236	Towards a CA model for quantum computation with fully frustrated linear Josephson junction arrays. 2004 , 327, 409-415	3
1235	Carbon nanotubes for quantum-dot cellular automata clocking.	10
1234	Theoretical research of mixed-valence transition metal complex for molecular computing.	
1233	A comprehensive analytical capacitance model of a two dimensional nanodot array [cellular neural net application].	
1232	Quantum-dot cellular automata.	0
1231	Incorporating standard CMOS design Process methodologies into the QCA logic design process. 2004 , 3, 2-9	30
1230	Nano, Quantum and Molecular Computing. 2004 ,	23
1229	Circuit design based on majority gates for applications with quantum-dot cellular automata.	39
1228	In-situ observations of self-assembled island nucleation on patterned substrates. 2004 , 84, 2687-2702	10
1227	Hierarchical Self-Assembly of Epitaxial Semiconductor Nanostructures. 2004 , 4, 2447-2450	39
1226	Serial bit-stream analysis using quantum-dot cellular automata. 2004 , 3, 158-164	28
1225	High Level Exploration of Quantum-Dot Cellular Automata (QCA).	28
1224	A method of majority logic reduction for quantum cellular automata. 2004 , 3, 443-450	247
1223	Complex gate implementations for quantum dot cellular automata.	14
1222	Split current quantum-dot cellular automata-modeling and simulation. 2004 , 3, 249-255	6
1221	A majority reduction technique for adder structures in quantum-dot cellular. 2004 ,	4
1220	In situ reflection electron microscopy of Ge island nucleation on mesa structures. 2004 , 10, 105-11	5
1219	Magnetic QCA systems. 2005 , 36, 619-624	77

1218	Temperature dependence of the locked mode in a single-electron latch. 2005 , 36, 304-307	6
1217	Origin of Coulomb blockade oscillations in single-electron transistors fabricated with granulated Cr/Cr ₂ O ₃ resistive microstrips. 2005 , 36, 308-312	4
1216	Thermal effect in quantum-dot cellular automata. 2005 , 27, 188-197	10
1215	Properties of a mixed-valence (Fe(II)) ₂ (Fe(III)) ₂ square cell for utilization in the quantum cellular automata paradigm for molecular electronics. 2005 , 127, 17819-31	118
1214	Multi-functional edge driven nano-scale cellular automata based on semiconductor tunneling nano-structure with a self-assembled quantum dot layer. 2005 , 37, 55-76	8
1213	Simulation of Power Gain and Dissipation in Field-Coupled Nanomagnets. 2005 , 4, 105-110	56
1212	Quantum Devices of Reduced Dimensionality. 2005 , 17-22	1
1211	Redox-active monolayers on nano-scale silicon electrodes. <i>Nanotechnology</i> , 2005 , 16, 257-61	3-4 14
1210	Fault tolerant nanoelectronic processor architectures. 2005 ,	2
1209	Fanout in quantum dot cellular automata. 2005 ,	3
1208	Towards designing robust QCA architectures in the presence of sneak noise paths.	4
1207	Current fluctuation in single-hole transport through a two-dimensional Si multidot. 2005 , 86, 133106	25
1206	.	2
1205	Radio-frequency operation of a double-island single-electron transistor. 2005 , 97, 034501	6
1204	Pipelined Carry Lookahead Adder Design in Quantum-dot Cellular Automata.	3
1203	Conditions for self-assembly of quantum fortresses and analysis of their possible use as quantum cellular automata. 2005 , 97, 043513	4
1202	Impurity charging in semiconductor quantum-dot cellular automata. <i>Nanotechnology</i> , 2005 , 16, 2525-2529	7
1201	Power dissipation in clocked quantum-dot cellular automata circuits. 2005 ,	3

1200	Simulation of quantum cellular automaton circuits based on genetic simulated annealing algorithm.	1
1199	Teaching nanotechnology by introducing crossbar-based architecture and quantum-dot cellular automata.	2
1198	Implementation of a crossbar network using quantum-dot cellular automata. 2005 , 4, 435-440	41
1197	.	10
1196	Continuum computer architecture for nano-scale and ultra-high clock rate technologies.	1
1195	Dependence of field switched ordered arrays of dinuclear mixed-valence complexes on the distance between the redox centers and the size of the counterions. 2005 , 127, 15218-27	105
1194	High-resolution electron beam lithography and DNA nano-patterning for molecular QCA. 2005 , 4, 312-316	50
1193	Manipulation and detection of single electrons for future information processing. 2005 , 97, 031101	92
1192	Fault tolerant nanoelectronic processor architectures.	3
1191	Fault tolerance calculations for clocked quantum-dot cellular automata devices. 2005 , 98, 094904	13
1190	Fault tolerant quantum cellular array (QCA) design using Triple Modular Redundancy with shifted operands. 2005 ,	6
1189	QCA-based majority gate design under radius of effect-induced faults.	4
1188	Simple 4-bit processor based on quantum-dot cellular automata (QCA).	31
1187	Fault tolerance properties in quantum-dot cellular automata devices. 2006 , 39, 1489-1494	18
1186	Nanofabric topologies and reconfiguration algorithms to support dynamically adaptive fault tolerance.	
1185	Implementation of a Simulation Engine for Clocked Molecular QCA. 2006 ,	3
1184	Study of N-Detectability in QCA Designs. 2006 ,	1
1183	Array Processing Using Alternate Arithmetic - A 20 Year Legacy. 2006 ,	2

1182	Bennett clocking of quantum-dot cellular automata and the limits to binary logic scaling. <i>Nanotechnology</i> , 2006 , 17, 4240-51	3-4	143
1181	On emerging nanodevices and architectures. 2006 ,		
1180	Synthesis of symmetric functions using quantum cellular automata. 2006 ,		5
1179	Design Tools for an Emerging SoC Technology: Quantum-Dot Cellular Automata. 2006 , 94, 1225-1244		149
1178	Quantum-dot Field Programmable Gate Array: enhanced routing. 2006 ,		2
1177	Majority logic gate for magnetic quantum-dot cellular automata. 2006 , 311, 205-8		748
1176	. 2006 , 3, 199-207		98
1175	Observation of single dinuclear metal-complex molecules using scanning tunneling microscopy. 2006 , 110, 21846-9		19
1174	Semiconductors, Compound. 2006 ,		
1173	Linear and nonlinear intersubband optical absorption coefficients and refractive index changes in a quantum box with finite confining potential. 2006 , 33, 319-324		187
1172	Single-electron logic based on capacitively coupled double quantum dots. 2006 , 35, 188-193		
1171	Characterization of a single molecular QCA cell by Q-control enhanced amplitude modulation atomic force microscopy. 2006 , 106, 735-41		3
1170	Towards the bottom-up concept: Extended quantum-dot cellular automata. 2006 , 83, 1826-1829		19
1169	Crosstalk in QCA arithmetic circuits. 2006 , 6313, 50		
1168	Molecular electronics -from structure to circuit dynamics. 2006 ,		
1167	Mechanism of the nanoscale localization of Ge quantum dot nucleation on focused ion beam templated Si(001) surfaces. <i>Nanotechnology</i> , 2006 , 17, 4451-4455	3-4	50
1166	Patterned Nanomagnetic Films. 2006 , 261-293		
1165	Ratchet cellular automata for colloids in dynamic traps. 2006 , 74, 792-798		1

1164	The ternary quantum-dot cell and ternary logic. <i>Nanotechnology</i> , 2006 , 17, 1937-1942	3-4	34
1163	Importance of Nanosensors: Feynman's Vision and the Birth of Nanotechnology. 2006 , 952, 1		1
1162	Demonstration of a silicon-based quantum cellular automata cell. 2006 , 89, 013503		56
1161	Ion implanted Si:P double dot with gate tunable interdot coupling. 2006 , 100, 106104		16
1160	Evolvable Hardware Applied to Nanotechnology. 2006 ,		
1159	Novel commensurability effects in superconducting films with antidot arrays. 2006 , 96, 207001		100
1158	Implementations of Quantum-dot Cellular Automata. 2006 ,		8
1157	Contribution of communications to dependability in massively-defective general-purpose nanoarchitectures.		
1156	Modular Design of Conditional Sum Adders Using Quantum-dot Cellular Automata. 2006 ,		
1155	Fault Tolerant Approaches to Nanoelectronic Programmable Logic Arrays. 2007 ,		13
1154	Simulation of random cell displacements in QCA. 2007 , 3, 2		36
1153	Fanout gate in quantum-dot cellular automata. <i>Nanotechnology</i> , 2007 , 18, 375401	3-4	29
1152	Scaling of ion implanted Si:P single electron devices. <i>Nanotechnology</i> , 2007 , 18, 235401	3-4	1
1151	Fluxonic cellular automata. 2007 , 91, 212501		43
1150	Electrostatically defined serial triple quantum dot charged with few electrons. 2007 , 76,		150
1149	Molecular quantum-dot cellular automata: From molecular structure to circuit dynamics. 2007 , 102, 034311		60
1148	Demonstration of a quantum cellular automata cell in a GaAs/AlGaAs heterostructure. 2007 , 91, 032102		25
1147	Probabilistic Analysis of a Molecular Quantum-Dot Cellular Automata Adder. 2007 ,		22

1146	Interacting systems for self-correcting low power switching. 2007 , 90, 093503	76
1145	Tracking Control and Synchronization with Diverse Structure of the Quantum Cellular Neural Network. 2007 ,	1
1144	Ratchet Cellular Automata and Logic Devices. 2007 ,	
1143	Quantum-dots cellular automata comparator. 2007 ,	7
1142	Design and Simulation of Novel Architectures for Nanodevices. 2007 ,	1
1141	Importance of Nanosensors: Feynman's Vision and the Birth of Nanotechnology. 2007 , 32, 718-725	19
1140	Novel Exclusive-OR Gate and Full Adders Implementation Using Quantum Cellular Automata. 2007 , 121-123, 565-570	2
1139	The Robust QCA Adder Designs Using Composable QCA Building Blocks. 2007 , 26, 176-183	143
1138	Neural Network Simulation and Evolutionary Synthesis of QCA Circuits. 2007 , 56, 191-201	18
1137	. 2007 , 6, 374-383	189
1136	A study on defect tolerance of tiles implementing universal gate functions. 2007 ,	4
1135	Logic Level Fault Tolerance Approaches Targeting Nanoelectronics PLAs. 2007 ,	12
1134	Nanoscience. 2007 ,	22
1133	Self-Assembly for Semiconductor Industry. 2007 , 20, 421-431	24
1132	Nanometer-scale control of single quantum dot nucleation through focused ion-beam implantation. 2007 , 76,	34
1131	Clocking scheme for nanomagnet QCA. 2007 ,	14
1130	Dynamic redundancy allocation for reliable and high-performance nanocomputing. 2007 ,	1
1129	Serial Parallel Multiplier Design in Quantum-dot Cellular Automata. 2007 ,	20

1128	Artificial intelligence techniques applied to design of logic circuits based on ternary quantum-dot cellular automata. 2007 ,	0
1127	Solving the ternary QCA logic gate problem by means of adiabatic switching. 2007 ,	
1126	Charge-to-spin conversion of electron entanglement states and spin-interaction-free solid-state quantum computation. 2007 , 76,	8
1125	Feedback-Linearized Inverse Feedforward for Creep, Hysteresis, and Vibration Compensation in AFM Piezoactuators. 2007 , 15, 927-935	278
1124	Efficient Design of QCA Adder Structures. 2007 , 121-123, 553-556	4
1123	Activity in field-coupled nanomagnet arrays. 2007 , 35, 281-293	47
1122	On circuit models for quantum-classical networks. 2007 , 35, 471-484	7
1121	. 2007 , 56, 182-197	2
1120	Towards Nanoelectronics Processor Architectures. 2007 , 23, 235-254	4
1119	Reliability and Defect Tolerance in Metallic Quantum-dot Cellular Automata. 2007 , 23, 211-218	10
1118	Simulation of logic gate using d-dot. 2008 , 468, 769-772	4
1117	Electric field measurement for quantum-dot cellular automata clocking circuits. 2008 , 40, 1503-1506	
1116	Realization of a GaAs/AlGaAs-based quantum cellular automata cell. 2008 , 39, 674-677	5
1115	Spin Wave Magnetic NanoFabric: A New Approach to Spin-Based Logic Circuitry. 2008 , 44, 2141-2152	184
1114	Integrating a Nanologic Knowledge Module Into an Undergraduate Logic Design Course. 2008 , 51, 349-355	1
1113	Using granular film to suppress charge leakage in a single-electron latch. 2008 , 77,	1
1112	Reliability and Defect Tolerance in Metallic Quantum-Dot Cellular Automata. 2008 , 251-263	
1111	Quantum Mechanical Simulation of QCA with a Reduced Hamiltonian Model. 2008 ,	5

1110	The design of Quantum-dot CellularAutomata decimal adder. 2008,	8
1109	QCA based multiplexing of 16 arithmetic & logical subsystems-A paradigm for nano computing. 2008,	24
1108	Quantum-Dot Cellular Automata Serial Comparator. 2008,	8
1107	Nanotube and other interconnects for nanotechnology circuits. 2008,	1
1106	Compensation of Scanner Creep and Hysteresis for AFM Nanomanipulation. 2008, 5, 197-206	139
1105	Towards fault tolerant parallel prefix adders in nanoelectronic systems. 2008,	2
1104	Locality aware redundancy allocation in nanoelectronic systems. 2008,	
1103	Towards Multistate Nanocomputing: The Implementation of a Primitive Fuzzy Controller. 2008,	
1102	Testing of combinational majority and minority logic networks. 2008,	4
1101	Designing QCA Delay-Insensitive Serial Adder. 2008,	3
1100	The Lyapunov exponents and Poincaré maps of nonlinear chaotic characteristic in three-cell coupled quantum cellular neural networks. 2008,	
1099	System Reliabilities When Using Triple Modular Redundancy in Quantum-Dot Cellular Automata. 2008,	7
1098	A Low-Power Reconfigurable Logic Array Based on Double-Gate Transistors. 2008, 16, 115-123	7
1097	QCA implementation of a MUX-Based FPGA CLB. 2008,	20
1096	A Quantitative Approach for Analysis of Defect Tolerance in QCA. 2008,	1
1095	Electronic quantum-dot cellular automata. 2008,	1
1094	Quantum-Dot Cellular ROM: A nano-scale level approach to digital data storage. 2008,	2
1093	Towards fault tolerant parallel prefix adders in nanoelectronic systems. 2008,	2

1092	Solving the Ternary Quantum-Dot Cellular Automata Logic Gate Problem by Means of Adiabatic Switching. 2008 , 47, 5000-5006		17
1091	The characteristics of nonlinear chaotic dynamics in quantum cellular neural networks. 2008 , 17, 2837-2843		7
1090	A metric for characterizing the bistability of molecular quantum-dot cellular automata. <i>Nanotechnology</i> , 2008 , 19, 155703	3-4	36
1089	Bias spectroscopy and simultaneous single-electron transistor charge state detection of Si:P double dots. <i>Nanotechnology</i> , 2008 , 19, 265201	3-4	7
1088	Adiabatic pipelining: a key to ternary computing with quantum dots. <i>Nanotechnology</i> , 2008 , 19, 495401	3-4	15
1087	Space complexity optimization for nano electronic devices based on evolutionary computation. 2008 ,		
1086	Asynchronous circuits design using quantum-dot cellular automata for molecular computing. 2008 ,		
1085	. 2008 ,		2
1084	Dynamic generation of Bell states in a double-quantum-dot array including electron-phonon interaction. 2008 , 77,		2
1083	A Defect-Tolerant Memory Nanoarchitecture Exploiting Hybrid Redundancy. 2008 ,		
1082	Asynchronous circuits design using quantum-dot cellular automata for molecular computing. 2008 ,		
1081	Polarization transitions in one-dimensional arrays of interacting rings. 2008 , 78,		3
1080	Memory Design for Testability and Fault Tolerance. 2009 ,		
1079	LUT-based QCA implementation of a 4 \times S-Box. 2009 ,		
1078	The Ternary Quantum-dot Cellular Automata Memorizing Cell. 2009 ,		6
1077	A design methodology and device/circuit/architecture compatible simulation framework for low-power Magnetic Quantum Cellular Automata systems. 2009 ,		15
1076	Defect characterization in coupled majority-minority QCA gate. 2009 ,		5
1075	Microwave-driven transitions in two coupled semiconductor charge qubits. 2009 , 103, 016805		37

1074	Tunable many-body effects in triple quantum dots. 2009 , 80,	4
1073	Graphene nanoribbon array in a cellular automata architecture for propagation of binary information. 2009 , 94, 173111	4
1072	The three dimensionality of triple quantum dot stability diagrams. 2009 , 11, 113037	32
1071	Single-electron effects in non-overlapped multiple-gate silicon-on-insulator metal-oxide-semiconductor field-effect transistors. <i>Nanotechnology</i> , 2009 , 20, 065202	3-4 4
1070	Towards achieving reliable and high-performance nanocomputing via dynamic redundancy allocation. 2009 , 5, 1-21	1
1069	Selective binding, self-assembly and nanopatterning of the Creutz-Taube ion on surfaces. 2009 , 10, 533-58	4
1068	Organizing wires for reliability in magnetic QCA. 2009 , 5, 1-10	
1067	An Introduction to Nanocomputing. 1-30	
1066	Design and simulation of modular $2n$ to 1 quantum-dot cellular automata (QCA) multiplexers. 2009 , 38, n/a-n/a	15
1065	Architecture for an external input into a molecular QCA circuit. 2009 , 8, 35-42	13
1064	Modeling of circuits and architectures for molecular electronics. 2009 , 8, 410-426	2
1063	Modeling and Evaluating Errors Due to Random Clock Shifts in Quantum-Dot Cellular Automata Circuits. 2009 , 25, 55-66	5
1062	Third-harmonic generation in cubical quantum dots. 2009 , 46, 672-678	20
1061	Electron transport through silicon serial triple quantum dots. 2009 , 53, 779-785	11
1060	Nonlinear optical rectification in cubical quantum dots. 2009 , 404, 2332-2335	21
1059	Magnetic flux structures of composite superconducting structures with d- and s-waves superconductors (d-dots). 2009 , 469, 1067-1070	
1058	Controlled coupling and occupation of silicon atomic quantum dots at room temperature. 2009 , 102, 046805	160
1057	Single Electron Fault in QCA Inverter Gate. 2009 ,	2

1056	Simulation of a QCA-based CLB and a multi-CLB application. 2009,	12
1055	Emerging non-CMOS nanoelectronic devices - What are they?. 2009,	
1054	QCA Implementation of A5/1 Stream Cipher. 2009,	5
1053	A novel formulation of Hamming Code. 2009,	2
1052	Single Electron Fault in QCA Binary Wire. 2009,	
1051	Towards real-time testing of clocked Quantum Dot Cellular Automata. 2009,	1
1050	Signal transmission through molecular quantum-dot cellular automata: a theoretical study on Creutz-Taube complexes for molecular computing. 2009, 11, 1474-83	16
1049	Analyzing the Inherent Reliability of Moderately Sized Magnetic and Electrostatic QCA Circuits Via Probabilistic Transfer Matrices. 2009, 17, 507-516	18
1048	Defect characterization in magnetic field coupled arrays. 2009,	3
1047	A system to demonstrate the bistability in molecules for application in a molecular QCA cell. 2009,	6
1046	Magnetic Cellular Automata (MCA) arrays under spatially varying field. 2009,	3
1045	Effects of visible light On Al/AlOx single-electron transistors. 2009,	
1044	Logic-based QCA implementation of a 4 \times S-Box. 2009,	1
1043	QCA Implementation of Serpent Block Cipher. 2009,	8
1042	LUT-Based QCA Implementation of a 4 \times S-Box. 2009,	0
1041	SEU Effects on QCA Circuits. 2009,	3
1040	Adder and Multiplier Design in Quantum-Dot Cellular Automata. 2009, 58, 721-727	217
1039	Quantum dots. 299-412	

1038	Radio frequency operation of clocked quantum-dot cellular automata latch. 2009 , 95, 193109	3
1037	Superconductive combinational logic circuit using magnetically coupled SQUID array. 2010 , 470, 1546-1549	1
1036	Analysis of field-driven clocking for molecular quantum-dot cellular automata based circuits. 2010 , 9, 16-30	11
1035	Power dissipation in clocking wires for clocked molecular quantum-dot cellular automata. 2010 , 9, 49-55	50
1034	. 2010 , 98, 2169-2184	216
1033	Design and simulation of sequential circuits in quantum-dot cellular automata: Falling edge-triggered flip-flop and counter study. 2010 , 41, 56-63	49
1032	Order and disorder in the heteroepitaxy of semiconductor nanostructures. 2010 , 70, 243-264	23
1031	Magnetic cellular nonlinear network with spin wave bus for image processing. 2010 , 47, 464-483	22
1030	Theoretical studies on the optical absorption coefficients and refractive index changes in parabolic quantum dots in the presence of electric and magnetic fields. 2010 , 47, 325-334	68
1029	Challenges for Nanoscale MOSFETs and Emerging Nanoelectronics. 2010 , 11, 93-105	130
1028	Si single electron transistor fabricated by chemical mechanical polishing. 2010 , 28, C6L9-C6L13	6
1027	DESIGN AND SIMULATION OF MODULAR QUANTUM-DOT CELLULAR AUTOMATA MULTIPLEXERS FOR MEMORY ACCESSING. 2010 , 19, 349-365	7
1026	Fault-tolerance and thermal characteristics of quantum-dot cellular automata devices. 2010 , 107, 114306	15
1025	Platinum single-electron transistors with tunnel barriers made by atomic layer deposition. 2010 , 28, C6L6-C6L88	
1024	Simple DSP interface for impedance spectroscopy of piezo-sensors. 2010 ,	1
1023	. 2010 ,	4
1022	Driving magnetic cells for information storage and propagation. 2010 ,	1
1021	QCA and nanotechnology based cancer inhibition system. 2010 ,	2

1020	Metal Dependence of Signal Transmission through MolecularQuantum-Dot Cellular Automata (QCA): A Theoretical Studyon Fe, Ru, and Os Mixed-Valence Complexes. 2010 , 3, 4277-4290	14
1019	Introducing universal QCA logic gate for synthesizing symmetric functions with minimum wire-crossings. 2010 ,	12
1018	QCA design and implementation of SRAM based FPGA Configurable Logic Block. 2010 ,	7
1017	Experimental Demonstration of Fanout for Nanomagnetic Logic. 2010 , 9, 668-670	42
1016	CHARACTERIZATION, TEST AND LOGIC SYNTHESIS OF NOVEL CONSERVATIVE AND REVERSIBLE LOGIC GATES FOR QCA. 2010 , 09, 201-214	38
1015	Making classical ground-state spin computing fault-tolerant. 2010 , 82, 031106	4
1014	Charge localization in isolated mixed-valence complexes: an STM and theoretical study. 2010 , 132, 13519-24	80
1013	Montgomery modular multiplier design in quantum-dot cellular automata using cut-set retiming. 2010 ,	4
1012	Design of universal logic gate targeting minimum wire-crossings in QCA logic circuit. 2010 ,	4
1011	Novel approach to design a testable conservative logic gate for QCA implementation. 2010 ,	15
1010	Design of Testable Universal Logic Gate Targeting Minimum Wire-Crossings in QCA Logic Circuit. 2010 ,	9
1009	QCA Systolic Matrix Multiplier. 2010 ,	17
1008	Cellular Nanoscale Sensory Wave Computing. 2010 ,	4
1007	An information-theoretic analysis of quantum-dot cellular automata for defect tolerance. 2010 , 6, 1-19	22
1006	Logic-based QCA realization of a 4 \times S-Box. 2010 ,	2
1005	Space radiation effects in QCA binary wire. 2010 ,	
1004	Reduction in Cells of Quantum-Dot Cellular Automata in Perspective of NOT Gate. 2010 ,	1
1003	Nano-technology aware investigations on fault-masking techniques in the presence of high fault probabilities. 2010 ,	

1002	Nanopatterned graphene quantum dots as building blocks for quantum cellular automata. 2011 , 3, 4201-5	25
1001	. 2011 ,	2
1000	Self-doping of molecular quantum-dot cellular automata: mixed valence zwitterions. 2011 , 13, 14928-36	29
999	Restoring divider design for quantum-dot cellular automata. 2011 ,	8
998	Molecular QCA: A write-in system based on electric fields. 2011 ,	11
997	Space radiation effects in quantum inverter gate. 2011 ,	1
996	Magnetic QCA Majority Voter feasibility analysis. 2011 ,	11
995	Lattice-based Integrated-signal Nanocellular Automata (LINA) for the future of QCA-based nanoelectronics. 2011 ,	
994	Cosmic ray effects on future nano satellites. 2011 ,	
993	An NCL-HDL Snake-Clock-Based Magnetic QCA Architecture. 2011 , 10, 1141-1149	61
992	Cell number optimization for Quantum Cellular Automata based on genetic algorithm. 2011 ,	3
991	Characterisation, applicability and defect analysis for tiles nanostructure of quantum dot cellular automata. 2011 , 37, 210-225	36
990	Reliability Impact of N-Modular Redundancy in QCA. 2011 , 10, 1015-1022	15
989	Minimum energy for computation, theory vs. experiment. 2011 ,	10
988	Electron switch in the double-cage fluorinated fullerene anions, $e(-)@C_{20}F_{18}(XH)_2C_{20}F_{18}$ (X = N, B): new candidates for molecular quantum-dot cellular automata. 2011 , 13, 16134-7	18
987	A Novel Modular Decoder Implementation in Quantum-Dot Cellular Automata (QCA). 2011 ,	17
986	Design of quantum-dot cellular automata circuits using cut-set retiming. 2011 , 10, 1150-1160	21
985	Design rules for Quantum-dot Cellular Automata. 2011 ,	39

984	Matrix Multiplication Using Quantum-Dot Cellular Automata to Implement Conventional Microelectronics. 2011 , 10, 1036-1042	22
983	Landauer Clocking for Magnetic Cellular Automata (MCA) Arrays. 2011 , 19, 714-717	18
982	Design and Simulation of 2-D 2-Dot Quantum-Dot Cellular Automata Logic. 2011 , 10, 996-1003	19
981	Partially Reversible Pipelined QCA Circuits: Combining Low Power With High Throughput. 2011 , 10, 1383-1393	30
980	A combinational logic optimization for majority gate-based nanoelectronic circuits based on GA. 2011 ,	3
979	Asynchrony in Quantum-Dot Cellular Automata Nanocomputation: Elixir or Poison?. 2011 , 28, 72-83	28
978	Quantum-Chemical Design of Molecular Quantum-Dot Cellular Automata (QCA): A New Approach from Frontier Molecular Orbitals. 2011 ,	3
977	Information-Theoretic Modeling and Analysis of Stochastic Behaviors in Quantum-Dot Cellular Automata. 2011 ,	
976	Polaron effects on the refractive index changes in cylindrical quantum dots with parabolic potential. 2011 , 50, 601-608	2
975	Electronic and dynamics properties of a molecular wire of graphene nanoclusters. 2011 , 375, 4190-4197	13
974	Single electron fault modelling in quantum binary wire. 2011 , 6, 75-77	6
973	Nanomagnet logic: progress toward system-level integration. 2011 , 23, 493202	128
972	Design and implementation of Multistage Interconnection Networks using Quantum-dot Cellular Automata. 2011 , 42, 913-922	31
971	Quantum computing with NMR. 2011 , 59, 91-120	104
970	Single Electron Fault Modeling in Basic Quantum Devices. 2011 , 50, 094401	1
969	Experimental demonstration of hybrid CMOS-single electron transistor circuits. 2011 , 29, 041004	9
968	Unconventional Computation. 2011 ,	1
967	Asynchronous Solutions for Nanomagnetic Logic Circuits. 2011 , 7, 1-18	14

966	Design of First Adder/Subtractor Using Quantum-Dot Cellular Automata. 2011 , 403-408, 3392-3397	4
965	A STUDY ON DIVERSE NANOSTRUCTURE FOR IMPLEMENTING LOGIC GATE DESIGN FOR QCA. 2011 , 10, 263-269	23
964	Tunnel coupled dangling bond structures on hydrogen terminated silicon surfaces. 2011 , 134, 064712	37
963	Fabrication of hybrid metal island/silicon single electron transistor. 2011 , 29, 06FB02	3
962	A conventional design for CLB implementation of a FPGA in quantum-dot cellular automata (QCA). 2012 ,	12
961	Study of single layer and multilayer nano-magnetic logic architectures. 2012 , 111, 07A928	21
960	A Novel Quantum-Dot Cellular Automata XOR Design. 2012 , 622-623, 545-550	2
959	Design and Optimization of Full Comparator Based on Quantum-Dot Cellular Automata. 2012 , 34, 284-287	20
958	On-Chip Clocking of Nanomagnet Logic Lines and Gates. 2012 , 11, 273-286	40
957	Programmable Logic Implemented Using Quantum-Dot Cellular Automata. 2012 , 11, 739-745	13
956	New Methodology for the Design of Efficient Binary Addition Circuits in QCA. 2012 , 11, 1192-1200	32
955	A novel design and simulation of 16 bits RAM implementation in quantum-dot cellular automata (QCA). 2012 ,	2
954	A novel design and successful simulation of QCA-based multiplexer. 2012 ,	
953	. 2012 ,	5
952	Theory of Ferrocenyl Compounds. 2012 ,	
951	Universal reversible logic gate design for low power computation at nano-scale. 2012 ,	2
950	Quantifying the computational efficacy of nanocomputing channels. 2012 , 3, 139-150	11
949	Molecule interaction for QCA computation. 2012 ,	15

948	Reliability and Performance Evaluation of QCA Devices With Rotation Cell Defect. 2012 , 11, 1009-1018	18
947	Frequency reduction in Quantum dot cellular automata. 2012 ,	
946	Nanocommunication using QCA: A data path selector cum router for efficient channel utilization. 2012 ,	13
945	Composite aluminum silicon-single electron transistor with tunnel FET features. 2012 ,	1
944	Implementation of reversible logic design in nanoelectronics on basis of majority gates. 2012 ,	7
943	New Decomposition Theorems on Majority Logic for Low-Delay Adder Designs in Quantum Dot Cellular Automata. 2012 , 59, 678-682	33
942	FFT implementation using QCA. 2012 ,	15
941	Performance analysis and optimum criteria of a quantum dot engine with two discrete energy levels. 2012 , 376, 2209-2216	10
940	Magnetic dipolar coupling and collective effects for binary information codification in cost-effective logic devices. 2012 , 324, 3006-3012	21
939	A Novel Ternary-to-Binary Converter in Quantum-Dot Cellular Automata. 2012 ,	5
938	Two-layer synchronized ternary quantum-dot cellular automata wire crossings. 2012 , 7, 221	8
937	Quasi-classical modeling of molecular quantum-dot cellular automata multidriver gates. 2012 , 7, 274	12
936	Towards a molecular QCA wire: simulation of write-in and read-out systems. 2012 , 77, 101-107	39
935	Are QCA cryptographic circuits resistant to power analysis attack?. 2012 , 11, 1239-1251	68
934	Novel Design for Quantum Dots Cellular Automata to Obtain Fault-Tolerant Majority Gate. 2012 , 2012, 1-7	18
933	Self-Organization and Self-Assembly in Supramolecular Systems. 2012 , 199-223	
932	On Cellular Automata rules of molecular arrays. 2012 , 11, 311-321	6
931	Fluctuation-driven computing on number-conserving cellular automata. 2012 , 187, 266-276	8

930	Layout design of manufacturable quantum-dot cellular automata. 2012 , 43, 501-513	42
929	Intersubband optical refractive index changes in an asymmetric quantum dot underlying an external static magnetic field. 2012 , 51, 580-586	12
928	. 2013 , 21, 1410-1420	21
927	Linear and nonlinear optical properties of multi-layered spherical nano-systems with donor impurity in the center. 2013 , 12, 36-42	25
926	Novel design of combinational and sequential logical structures in quantum dot cellular automata. 2013 , 3, 1	6
925	New multi-ferrocenyl- and multi-ferricenyl- materials via coordination-driven self-assembly and via charge-driven electro-crystallization. 2013 , 52, 12012-22	9
924	Parallel prefix adder design using quantum-dot cellular automata. 2013 ,	1
923	Demonstration of Field-Coupled Input Scheme on Line of Nanomagnets. 2013 , 49, 4460-4463	3
922	QCA Systolic Array Design. 2013 , 62, 548-560	45
921	A Nanomagnet Logic Field-Coupled Electrical Input. 2013 , 12, 734-742	5
920	A Scalable Signal Distribution Network for Quantum-Dot Cellular Automata. 2013 , 12, 215-224	41
919	Multilayer design of QCA multiplexer. 2013 ,	4
918	Bis-Ferrocene Molecular QCA Wire: Ab Initio Simulations of Fabrication Driven Fault Tolerance. 2013 , 12, 498-507	54
917	Charge distribution in a molecular QCA wire based on bis-ferrocene molecules. 2013 ,	5
916	Morphological edge detector implemented in Quantum Cellular Automata. 2013 ,	2
915	Design of a 4-bit ripple adder using Quantum-dot Cellular Automata (QCA). 2013 ,	8
914	Modeling of Electrostatic QCA Wires. 2013 , 12, 553-560	21
913	Stray Charge in Quantum-dot Cellular Automata: A Validation of the Intercellular Hartree Approximation. 2013 , 12, 225-233	15

912	A novel universal (FNZ) gate in quantum dot cellular automata (QCA). 2013,	8
911	Biosequences analysis on NanoMagnet Logic. 2013,	15
910	Efficient design of Baugh-Wooley multiplier in Quantum-Dot Cellular Automata. 2013,	10
909	Counterion-free molecular quantum-dot cellular automata using mixed valence zwitterions [A double-dot derivative of the [closo-1-CB9H10] cluster. 2013, 582, 86-89	21
908	Space radiation effects on future quantum satellites. 2013, 26, 72-75	5
907	Refractive index changes of multi-layered spherical nanostructures with donor impurity. 2013, 420, 81-85	5
906	A Hardware Viewpoint on Biosequence Analysis. 2013, 9, 1-21	13
905	Multi-output majority gate-based design optimization by using evolutionary algorithm. 2013, 10, 25-30	7
904	Straightforward Access to Tetrametallic Complexes with a Square Array by Oxidative Dimerization of Organometallic Wires. 2013, 32, 5015-5025	34
903	Quantum Dot Cellular Automata Check Node Implementation for LDPC Decoders. 2013, 12, 368-377	42
902	Exploring the Possibility of Noncovalently Surface Bound Molecular Quantum-Dot Cellular Automata: Theoretical Simulations of Deposition of Double-Cage Fluorinated Fullerenes on Ag(100) Surface. 2013, 117, 1308-1314	20
901	Mixed-spin [2 D] Fe4 grid complex optimized for quantum cellular automata. 2013, 52, 13230-7	72
900	Defect-tolerant logic hardening for crossbar-based nanosystems. 2013,	2
899	Throughput-dissipation tradeoff in partially reversible nanocomputing: A case study. 2013,	8
898	Design of Sequential Circuits in Multilayer QCA Structure. 2013,	10
897	NanoRouter: A Quantum-dot Cellular Automata Design. 2013, 31, 825-834	37
896	Hybrid Redundancy for Defect Tolerance in Molecular Crossbar Memory. 2013, 9, 1-18	
895	HYPERCHAOTIC BEHAVIOR IN ARBITRARY-DIMENSIONAL FRACTIONAL-ORDER QUANTUM CELLULAR NEURAL NETWORK MODEL. 2013, 23, 1350044	2

894	Future Prospect of Nanoelectronic Devices. 2013 , 171-279	
893	Efficient QCA design of single-bit and multi-bit subtractors. 2013 ,	5
892	An improved eigensolver for quantum-dot cellular automata simulations. 2013 ,	
891	Heat Dissipation in Nanocomputing: Lower Bounds From Physical Information Theory. 2013 , 12, 1047-1060	15
890	Fast parallel-prefix Ling-carry adders in QCA nanotechnology. 2013 ,	
889	Evolutionary synthesis of robust QCA circuits. 2013 ,	2
888	Design of efficient full adder in quantum-dot cellular automata. 2013 , 2013, 250802	42
887	Reversible Logic-Based Fault-Tolerant Nanocircuits in QCA. 2013 , 2013, 1-9	7
886	Two Novel Quantum-Dot Cellular Automata Full Adders. 2013 , 2013, 1-6	10
885	Nanosensor Data Processor in Quantum-Dot Cellular Automata. 2014 , 2014, 1-14	14
884	. 2014 ,	25
883	Efficient design of fault tolerant tiles in QCA. 2014 ,	9
882	Realizing Reversible Computing in QCA Framework Resulting in Efficient Design of Testable ALU. 2014 , 11, 1-22	23
881	DESIGN OF A MULTI-LAYERED QCA CONFIGURABLE LOGIC BLOCK FOR FPGAs. 2014 , 23, 1450089	6
880	Bit corruption correlation and autocorrelation in a stochastic binary nano-bit system. 2014 , 65, 1001-1009	1
879	Novel fault tolerant QCA circuits. 2014 ,	3
878	RECENT TRENDS IN SPINTRONICS-BASED NANOMAGNETIC LOGIC. 2014 , 04, 1450004	3
877	InP Ring-Shaped Quantum Dot Molecules by Droplet Epitaxy. 2014 , 29-49	

876	A standard cell approach for MagnetoElastic NML circuits. 2014,	1
875	Decoder segment optimization of ROM design in quantum dot cellular automata. 2014,	4
874	Efficient QCA Exclusive-or and Multiplexer Circuits Based on a Nanoelectronic-Compatible Designing Approach. 2014, 2014, 463967	37
873	. 2014,	1
872	Nanoarray architectures multilevel simulation. 2014, 10, 1-20	1
871	Design of Fault Tolerant Universal Logic in QCA. 2014,	2
870	A regular network of symmetric functions in quantum-dot cellular automata. 2014,	1
869	A novel tri-state device implemented with a metal gated QCA. 2014,	
868	Efficient realization of digital logic circuit using QCA multiplexer. 2014,	13
867	Bit erasure analysis of binary adders in Quantum-dot Cellular Automata. 2014,	0
866	Single-electron dynamics of an atomic silicon quantum dot on the H-Si(100)-(2 \times 1) surface. 2014, 112, 256801	42
865	A fast architecture for finding maximum (or minimum) values in a set. 2014,	
864	Combinational circuit design using Nanomagnetic logic. 2014,	
863	ITRS Assessment and Benchmarking of Emerging Logic Devices. 2014, 405-416	2
862	A novel design of cascading serial bit-stream magnitude comparator using QCA. 2014,	6
861	Majority-based logic synthesis for nanometric technologies. 2014,	6
860	ToPoliNano: NanoMagnet Logic Circuits Design and Simulation. 2014, 274-306	3
859	A novel QCA implementation of MUX-based universal shift register. 2014, 13, 198-210	66

858	A novel ternary quantum-dot cell for solving majority voter gate problem. 2014 , 4, 255-262	7
857	Physical Models of Semiconductor Quantum Devices. 2014 ,	1
856	Emerging Trends in Computing and Communication. 2014 ,	1
855	Analysis of effect of temperature variation on computational faithfulness of a QCA XOR gate. 2014	3
854	Efficient design of parity preserving logic in quantum-dot cellular automata targeting enhanced scalability in testing. 2014 , 45, 239-248	38
853	New approaches for modeling and simulation of quantum-dot cellular automata. 2014 , 13, 537-546	5
852	Quantum Dot Molecules. 2014 ,	14
851	A conventional design and simulation for CLB implementation of an FPGA quantum-dot cellular automata. 2014 , 38, 1046-1062	27
850	A massively parallel cellular automaton for the simulation of recrystallization. 2014 , 22, 075016	14
849	Contiguous clock lines for pipelined nanomagnet logic. 2014 , 13, 763-768	1
848	Effective binary to BCD converter using QuantumDot Cellular Automata. 2014 ,	
847	. 2014 ,	14
846	QCA based sequential and combinational circuit design and importance of parasitic components. 2014 ,	1
845	Controlled formation of GeSi nanostructures on periodic Si (001) sub-micro pillars. 2014 , 6, 3925-9	7
844	A standard cell approach for MagnetoElastic NML circuits. 2014 ,	1
843	A quantitative approach to testing in Quantum dot Cellular Automata: NanoMagnet Logic case. 2014 ,	12
842	Design of a cellular automata cell with rule 30 on quantum-dot cellular automata. 2014 ,	0
841	Efficient Simulation of Correlated Dynamics in Quantum-Dot Cellular Automata (QCA). 2014 , 13, 294-307	16

840	Optimization Scheme to Minimize Reference Resistance Distribution of Spin-Transfer-Torque MRAM. 2014 , 22, 1179-1182	11
839	Optimal control of charge with local gates in quantum-dot lattices. 2014 , 87, 1	1
838	Modular Design of testable reversible ALU by QCA multiplexer with increase in programmability. 2014 , 45, 1522-1532	83
837	Calculating the steady-state polarizations of quantum cellular automata (QCA) circuits. 2014 , 13, 569-584	2
836	A symmetric quantum-dot cellular automata design for 5-input majority gate. 2014 , 13, 701-708	69
835	A novel quantum-dot cellular automata CLB of FPGA. 2014 , 13, 709-725	20
834	. 2014 ,	13
833	A novel design of 8-bit adder/subtractor by quantum-dot cellular automata. 2014 , 80, 1404-1414	70
832	Area-Delay Efficient Binary Adders in QCA. 2014 , 22, 1174-1179	43
831	The Development of Quantum-Dot Cellular Automata. 2014 , 3-20	8
830	Field-Coupled Nanocomputing. 2014 ,	12
829	Design and analysis of a simple D flip-flop based sequential logic circuits for QCA implementation. 2014 ,	6
828	Design of Efficient Binary Comparators in Quantum-Dot Cellular Automata. 2014 , 13, 192-202	31
827	Design of Goldschmidt Dividers with Quantum-Dot Cellular Automata. 2014 , 63, 2620-2625	12
826	Nanomagnet Logic: A Magnetic Implementation of Quantum-dot Cellular Automata. 2014 , 417-442	0
825	A novel idea of pseudo-code generator in quantum-dot cellular automata (QCA). 2014 , 5, A04	15
824	Domain Magnet Logic (DML): A new approach to magnetic circuits. 2014 ,	6
823	Hybrid single-digit BCD adder using Quantum-dot Cellular Automata. 2015 ,	0

822	Nanomagnet Logic. 2015 , 1-18	2
821	Design of 3-D quantum-dot cellular automata adders. 2015 , 12, 20150195-20150195	2
820	Efficient Design of a Coplanar Adder/Subtractor in Quantum-Dot Cellular Automata. 2015 ,	6
819	Effect of electron-phonon interaction on the formation of one-dimensional electronic states in coupled Cl vacancies. 2015 , 91,	10
818	Nanomagnetic logic: from magnetic ordering to magnetic computing. 301-334	5
817	Fault analysis of QCA combinational circuit at layout & logic level. 2015 ,	2
816	A Customizable Quantum-Dot Cellular Automata Building Block for the Synthesis of Classical and Reversible Circuits. 2015 , 2015, 705056	6
815	Mixed-valence molecular four-dot unit for quantum cellular automata: Vibronic self-trapping and cell-cell response. 2015 , 143, 134307	27
814	Self-modifying CA model using dual ensemble Kalman filter for simulating urban land-use changes. 2015 , 29, 1612-1631	6
813	TCAM/CAM-QCA: (Ternary) Content Addressable Memory using Quantum-dot Cellular Automata. 2015 , 46, 563-571	20
812	Introduction. 2015 , 1-10	1
811	Metallosupramolecular approach toward multifunctional magnetic devices for molecular spintronics. 2015 , 303, 110-138	56
810	New Controller Design in QCNN and the Synchronization with Chaotic System. 2015 , 719-720, 359-364	
809	Defect-tolerance analysis of fundamental quantum-dot cellular automata devices. 2015 , 2015, 128-133	4
808	Coplanar QCA serial adder and multiplier via clock-zone based crossover. 2015 ,	8
807	Implementation of 1 bit processor using quantum dot cellular automata. 2015 ,	1
806	A novel gate for realizing QCA based logic design. 2015 ,	
805	Key multi(ferrocenyl) complexes in the interplay between electronic coupling and electrostatic interaction. 2015 , 44, 5234-57	49

804	. 2015 , 23, 2233-2243	22
803	Coplanar Full Adder in Quantum-Dot Cellular Automata via Clock-Zone-Based Crossover. 2015 , 14, 497-504	133
802	Reliability bounds for two dimensional consecutive systems. 2015 , 6, 145-152	8
801	Interleaving in Systolic-Arrays: A Throughput Breakthrough. 2015 , 64, 1940-1953	5
800	Micromagnetic simulation of exploratory magnetic logic device with missing corner defect. 2015 , 394, 391-396	9
799	Computational Intelligence in Digital and Network Designs and Applications. 2015 ,	2
798	Consequences of Many-Cell Correlations in Clocked Quantum-Dot Cellular Automata. 2015 , 14, 638-647	9
797	A Signal Distribution Network for Sequential Quantum-Dot Cellular Automata Systems. 2015 , 14, 648-656	7
796	Robust Serial Nanocommunication With QCA. 2015 , 14, 464-472	37
795	Towards modular design of reliable quantum-dot cellular automata logic circuit using multiplexers. 2015 , 45, 42-54	44
794	Design and Simulation of Turbo Encoder in Quantum-Dot Cellular Automata. 2015 , 14, 820-828	17
793	Adder design using a 5-input majority gate in a novel multilayer gate design paradigm for quantum dot cellular automata circuits. 2015 , 36, 045001	6
792	Modeling an Improved Modified Type in Metallic Quantum-Dot Fixed Cell for Nano Structure Implementation. 2015 ,	
791	Design and evaluation of an ultra-area-efficient fault-tolerant QCA full adder. 2015 , 46, 531-542	85
790	Restoring and non-restoring array divider designs in Quantum-dot Cellular Automata. 2015 , 311, 86-101	56
789	Field-induced electron localization: Molecular quantum-dot cellular automata and the relevance of RobinDay classification. 2015 , 633, 52-57	9
788	Electric Field Control of Spin-Dependent Dissipative Electron Transfer Dynamics in Mixed-Valence Molecules. 2015 , 119, 7911-7921	9
787	Effective design of logic gates and circuit using quantum cellular automata (QCA). 2015 ,	5

786	Towards reversible QCA computers: Reversible gates and ALU. 2015,	8
785	Defect characterization and testing of QCA devices and circuits: A survey. 2015,	4
784	Process Variability and Electrostatic Analysis of Molecular QCA. 2015, 12, 1-23	7
783	A novel methodology for robustness analysis of QCA circuits. 2015,	
782	Towards the hierarchical design of multilayer QCA logic circuit. 2015, 11, 233-244	17
781	Quantum Dot Cellular Automata: A Promising Paradigm Beyond Moore. 2015, 295-323	
780	Designing quantum-dot cellular automata counters with energy consumption analysis. 2015, 39, 512-520	52
779	Accurate reliability analysis method for quantum-dot cellular automata circuits. 2015, 29, 1550203	1
778	A new approach of presenting reversible logic gate in nanoscale. 2015, 4, 153	15
777	Fault masking in Quantum-dot cellular automata using prohibitive logic circuit. 2015,	
776	Design and implementation of Arithmetic Logic Unit (ALU) using modified novel bit adder in QCA. 2015,	3
775	Logic-in-Memory architecture made real. 2015,	15
774	Design and Verification of New n-Bit Quantum-Dot Synchronous Counters Using Majority Function-Based JK Flip-Flops. 2015, 24, 1550153	17
773	Design of reversible logic circuits using quantum dot cellular automata-based system. 2015, 4,	3
772	Implementation of Convolutional Encoder in Quantum-Dot Cellular Automata. 2015, 645-646, 1078-1084	1
771	Localization-Delocalization in Bridged Mixed-Valence Metal Clusters: Vibronic PKS Model Revisited. 2015, 119, 9844-56	6
770	A Bit-Serial Pipelined Architecture for High-Performance DHT Computation in Quantum-Dot Cellular Automata. 2015, 23, 2352-2356	31
769	Innovative design methodologies in quantum-dot cellular automata. 2015, 43, 253-262	9

768	Automated Design Architecture for 1-D Cellular Automata Using Quantum Cellular Automata. 2015 , 64, 2476-2489	10
767	Optical properties of hydrogenic impurity in an inhomogeneous infinite spherical quantum dot. 2015 , 456, 72-77	13
766	Adder circuit design using quantum-dot cellular automata. 2016 , 2, 246	1
765	New Current-Mode Multipliers by CNTFET-Based n-Valued Binary Converters. 2016 , E99.C, 100-107	4
764	Efficient design of nano scale adder and subtractor circuits using quantum dot cellular automata. 2016 ,	6
763	Impact of stray charge on interconnect wire via probability model of double-dot system. 2016 , 37, 022002	
762	Spin Switching in Molecular Quantum Cellular Automata Based on Mixed-Valence Tetrameric Units. 2016 , 120, 16994-17005	20
761	Modular design of QCA carry flow adders and multiplier with reduced wire crossing and number of logic gates. 2016 , 44, 1351-1366	12
760	Area efficient BCD adder in Quantum dot Cellular Automata. 2016 ,	2
759	Elimination of static hazard in 2:1 multiplexer using quantum dot cellular automata. 2016 ,	2
758	Simplification of master power expression and effective power detection of QCA device (Wave nature tunneling of electron in QCA device). 2016 ,	5
757	Testable reversible latch in molecular quantum dot cellular automata framework. 2016 ,	2
756	Development of basic fault model and corresponding ATPG for single input missing cell deposition defects in Majority Voter of QCA. 2016 ,	3
755	Optimized design and performance analysis of novel comparator and full adder in nanoscale. 2016 , 3, 1237864	22
754	Implementation of 4 \times 4 vedic multiplier using carry save adder in quantum-dot cellular automata. 2016 ,	10
753	Reliability analysis of a noiseless Code Converter using Quantum Dot Cellular Automata. 2016 ,	1
752	Comparative analysis of code converter using Quantum Dot Cellular Automata (QCA). 2016 ,	1
751	Enzyme-Free Scalable DNA Digital Design Techniques: A Review. 2016 , 15, 928-938	7

750	A Novel Design to Obtain Fault Tolerant Majority Gate for Five Input Majority Gate by Quantum Cellular Automata. 2016,	1
749	Efficient multiplexer design and analysis using quantum dot cellular automata. 2016,	7
748	A robust design of coplanar full adder and 4-bit Ripple Carry adder using quantum-dot cellular automata. 2016,	4
747	Design of 1-bit and 4-bit adder using reversible logic in quantum-dot cellular automata. 2016,	2
746	Reconfigurable Systolic Array: From Architecture to Physical Design for NML. 2016, 24, 3208-3217	18
745	Effect of a Clock System on Bis-Ferrocene Molecular QCA. 2016, 15, 574-582	16
744	Introducing a novel model based on particle wave duality for energy dissipation analysis in MQCA circuits. 2016, 15, 683-696	3
743	Design of a practical fault-tolerant adder in QCA. 2016, 53, 90-104	49
742	Efficient design of reversible alu in quantum-dot cellular automata. 2016, 127, 6172-6182	35
741	A Formulation of Fast Carry Chains Suitable for Efficient Implementation with Majority Elements. 2016,	2
740	Magnonic Logic Devices. 2016, 189-219	1
739	Quantum-dot cellular automata serial decimal processing-in-wire: Run-time reconfigurable wiring approach. 2016, 55, 152-161	5
738	Study of Ferrocene Dicarboxylic Acid on Substrates of Varying Chemical Activity. 2016, 120, 21955-21961	11
737	An intelligent mathematical QCA power analysis technique in wave nature of electrons. 2016,	2
736	Performance estimation of conventional and reversible logic circuits using QCA implementation platform. 2016,	7
735	Characterization and analysis of single electron fault of QCA primitives. 2016,	2
734	Tuning of quantum entanglement in molecular quantum cellular automata based on mixed-valence tetrameric units. 2016, 45, 16661-16672	15
733	Quantum dot Cellular Automata a review on the new paradigm in computation. 2016,	4

732	Ternary Versus Binary Multiplication with Current-Mode CNTFET-Based K-Valued Converters. 2016,	3
731	Fan-out constraints in quantum dot cellular automata circuit design. 2016, 5, 43-52	2
730	A Methodology for Standard Cell Design for QCA. 2016,	20
729	Shannon's expansion theorem-based multiplexer synthesis using QCA. 2016, 5, 53-60	12
728	Design of QCA based Programmable Logic Array using decoder. 2016, 55, 92-107	14
727	Mixed-Valence Molecular Unit for Quantum Cellular Automata: Beyond the Born-Oppenheimer Paradigm through the Symmetry-Assisted Vibronic Approach. 2016, 12, 3545-60	17
726	Realization of Binary to Gray Converter using Quantum Dot Cellular Automata (QCA). 2016,	
725	Implementation of parallel adders using area efficient quantum dot cellular automata full adder. 2016,	4
724	Design and analysis of new fault-tolerant majority gate for quantum-dot cellular automata. 2016, 15, 1484-1497	23
723	Channel blockade in a two-path triple-quantum-dot system. 2016, 94,	11
722	Virtual Clocking for NanoMagnet Logic. 2016, 15, 962-970	16
721	Modeling, Design, and Analysis of MagnetoElastic NML Circuits. 2016, 15, 977-985	6
720	Generalizing the Theory to Multijunction Circuits. 2016, 241-252	
719	Design of low cost latches based on reversible quantum dot cellular automata. 2016,	3
718	Nano-scale design of reversible adder using quantum-dot cellular automata. 2016,	0
717	Design of low power 5-input majority voter in quantum-dot cellular automata with effective error resilience. 2016,	5
716	T-Gate: Concept of partial polarization in Quantum Dot Cellular Automata. 2016,	10
715	Modified Ternary Karnaugh Map and Logic Synthesis in Ternary Quantum Dot Cellular Automata. 2016, 62, 774-785	5

714	Content addressable memory cell in quantum-dot cellular automata. 2016 , 163, 140-150	42
713	An optimal design of full adder based on 5-input majority gate in coplanar quantum-dot cellular automata. 2016 , 127, 8576-8591	69
712	Towards the design of hybrid QCA tiles targeting high fault tolerance. 2016 , 15, 429-445	25
711	On the reliability of majority logic structure in quantum-dot cellular automata. 2016 , 47, 7-18	33
710	Towards Designing Reliable Universal QCA Logic in the Presence of Cell Deposition Defect. 2016 ,	
709	A novel robust exclusive-OR function implementation in QCA nanotechnology with energy dissipation analysis. 2016 , 15, 455-465	58
708	Spin-State Versatility in a Series of Fe ₄ [2 D] Grid Complexes: Effects of Counteranions, Lattice Solvent, and Intramolecular Cooperativity. 2016 , 55, 2363-73	55
707	Towards single layer quantum-dot cellular automata adders based on explicit interaction of cells. 2016 , 16, 8-15	88
706	An efficient design of full adder in quantum-dot cellular automata (QCA) technology. 2016 , 50, 35-43	69
705	A novel quantum dot cellular automata for 4-bit code converters. 2016 , 127, 4246-4249	19
704	A signal distribution grid for quantum-dot cellular automata. 2016 , 15, 446-454	6
703	USE: A Universal, Scalable, and Efficient Clocking Scheme for QCA. 2016 , 35, 513-517	89
702	Design of efficient QCA multiplexers. 2016 , 44, 602-615	12
701	Design of New QCA LFSR and NLFSR for Grain-128 Stream Cipher. 2016 , 25, 1650005	5
700	. 2016 , 24, 827-836	30
699	Design of Efficient BCD Adders in Quantum-Dot Cellular Automata. 2017 , 64, 575-579	17
698	ToPoliNano: A CAD Tool for Nano Magnetic Logic. 2017 , 36, 1061-1074	28
697	Novel 8-bit reversible full adder/subtractor using a QCA reversible gate. 2017 , 16, 459-472	19

696	A unique structure for the multiplexer in quantum-dot cellular automata to create a revolution in design of nanostructures. 2017 , 512, 91-99	58
695	An enhanced high-speed multi-digit BCD adder using quantum-dot cellular automata. 2017 , 38, 024002	5
694	Molecular magnetism, quo vadis? A historical perspective from a coordination chemist viewpoint?. 2017 , 339, 17-103	218
693	Reliability-aware design for programmable QCA logic with scalable clocking circuit. 2017 , 16, 473-485	9
692	Deltoid versus Rhomboid: Controlling the Shape of Bis-ferrocene Macrocycles by the Bulkiness of the Substituents. 2017 , 36, 858-866	13
691	Theoretical studies of mixed-valence organometallic species for potential utilization as quantum cellular automata. 2017 , 844, 35-42	8
690	Design of reliable universal QCA logic in the presence of cell deposition defect. 2017 , 104, 1285-1297	8
689	STEM: A Scheme for Two-Phase Evaluation of Majority Logic. 2017 , 16, 606-615	2
688	A novel low power Exclusive-OR via cell level-based design function in quantum cellular automata. 2017 , 16, 875-882	14
687	Radix-8 full adder in QCA with single clock-zone carry propagation delay. 2017 , 51, 176-184	2
686	Optimal synthesis of QCA logic circuit eliminating wire-crossings. 2017 , 11, 201-208	11
685	Wave pipelining for majority-based beyond-CMOS technologies. 2017 ,	10
684	On fault-tolerant design of Exclusive-OR gates in QCA. 2017 , 16, 896-906	9
683	Memory Designing Using Quantum-Dot Cellular Automata: Systematic Literature Review, Classification and Current Trends. 2017 , 26, 1730004	47
682	Jahn-Teller effect in molecular electronics: quantum cellular automata. 2017 , 833, 012002	2
681	On small signal equivalent circuit models for quantum dots. 2017 , 45, 935-950	1
680	A novel power-efficient high-speed clock management unit using quantum-dot cellular automata. 2017 , 19, 1	12
679	Robust and efficient quantum-dot cellular automata synchronous counters. 2017 , 61, 6-14	42

678	Design of MRAM-Based Magnetic Logic Circuits. 2017 , 16, 851-859	3
677	Design of Testable Adder in Quantum-dot Cellular Automata with Fault Secure Logic. 2017 , 60, 1-12	22
676	Electric field controllable magnetic coupling of localized spins mediated by itinerant electrons: a toy model. 2017 , 19, 26098-26106	8
675	Wigner-function formalism applied to semiconductor quantum devices: Need for nonlocal scattering models. 2017 , 96,	13
674	Operator-sum models of quantum decoherence in molecular quantum-dot cellular automata. 2017 , 122, 084304	6
673	Design of novel carry save adder using quantum dot-cellular automata. 2017 , 22, 54-68	18
672	3D design of a pNML random access memory. 2017 ,	6
671	Inverter Propagation and Fan-Out Constraints for Beyond-CMOS Majority-Based Technologies. 2017 ,	8
670	An iterative structure for synthesizing symmetric functions using quantum-dot cellular automata. 2017 , 53, 157-167	1
669	Expanding the Family of Pyrazole-Bridged Mixed-Spin and Mixed-Valence Tetranuclear [2 μ] Iron Grid Complexes. 2017 , 2017, 4333-4343	4
668	Performance evaluation of efficient combinational logic design using nanomaterial electronics. 2017 , 4, 1349539	9
667	Complementary dual-output universal gate in quantum dot cellular automata. 2017 ,	
666	Efficient Design of Exclusive-Or Gate using 5-Input Majority Gate in QCA. 2017 , 225, 012143	5
665	A novel design and analysis of comparator with XNOR gate for QCA. 2017 , 55, 131-135	15
664	Simplified model for automatic QCA circuitry verification. 2017 ,	1
663	Reversible binary subtractor design using quantum dot-cellular automata. 2017 , 18, 1416-1429	6
662	A novel multiplexer-based structure for random access memory cell in quantum-dot cellular automata. 2017 , 521, 162-167	29
661	A Three-Layer Full Adder/Subtractor Structure in Quantum-Dot Cellular Automata. 2017 , 56, 2848-2858	39

660	Three-dimensional quantum cellular neural network and its application to image processing. 2017,	
659	Binary to gray and gray to binary converter in quantum-dot cellular automata. 2017, 130, 981-989	49
658	Programmable Crossbar Quantum-Dot Cellular Automata Circuits. 2017, 36, 1367-1380	18
657	Design and Analysis of Quantum Dot Cellular Automata Technology Based Reversible Multifunction Block. 2017, 399-410	1
656	A testable parity conservative gate in quantum-dot cellular automata. 2017, 101, 625-632	27
655	Efficient and reliable fault analysis methodology for nanomagnetic circuits. 2017, 45, 660-680	17
654	Static hazard elimination for a logical circuit using quantum dot cellular automata. 2017, 23, 4169-4177	5
653	Fingerprint authentication using QCA technology. 2017,	4
652	Quantum dot cellular automata (QCA) design for the realization of basic logic gates. 2017,	4
651	Method for designing ternary adder cells based on CNFETs. 2017, 11, 465-470	23
650	Asynchronous ballistic reversible computing. 2017,	9
649	Neuromorphic Computation Using Quantum-Dot Cellular Automata. 2017,	2
648	Phonon-induced dissipation and decoherence in solid-state quantum devices: Markovian versus non-Markovian treatments. 2017, 90, 1	1
647	Layered T Parity Generators using Quantum-dot Cellular Automata. 2017,	2
646	Design of fault tolerant nano circuits in QCA using explicit cell interaction. 2017,	1
645	Multilayer design of turbo code random interleaver based on quantum-dot cellular automata. 2017,	
644	Single missing cell deposition defect analysis of sequential reversible circuit. 2017,	0
643	Notice of Violation of IEEE Publication Principles: An architecture of Quantum-dot cellular ROM. 2017,	

642	Cost effective realization of XOR logic in QCA. 2017 ,	5
641	. 2017 ,	2
640	Design of Practical Parity Generator and Parity Checker Circuits in QCA. 2017 ,	3
639	Implementation of Ex-OR gate using QCA with NNI logic. 2017 ,	0
638	Domain Wall Interconnections for NML. 2017 , 25, 3067-3076	
637	Towards the Approximation of Cell Wise Switching Time in Quantum-Dot Cellular Automata. 2017 ,	2
636	High-performance full adder architecture in quantum-dot cellular automata. 2017 , 2017, 394-402	25
635	. 2017 ,	3
634	Ultra-efficient design of robust RS flip-flop in nanoscale with energy dissipation study. 2017 , 4, 1391060	8
633	Robust Coplanar Bus with Unique Modular Design for Quantum-dot Cellular Automata. 2017 , 10, 1-9	
632	Implementation of Basic and Universal Gates In a single Circuit Based On Quantum-dot Cellular Automata Using Multi-Layer Crossbar Wire. 2017 , 225, 012172	1
631	The role of the tunneling matrix element and nuclear reorganization in the design of quantum-dot cellular automata molecules. 2018 , 123, 064302	3
630	QCAPUF: QCA-based physically unclonable function as a hardware security primitive. 2018 , 33, 045011	9
629	Balanced Magnetic Logic Gates in a Kagome Spin Ice. 2018 , 9,	18
628	. 2018 , 3, 262-273	12
627	QCA Gray Code Converter Circuits Using LTeX Methodology. 2018 , 57, 2068-2092	9
626	The Fundamental Primitives with Fault-Tolerance in Quantum-Dot Cellular Automata. 2018 , 34, 109-122	13
625	Quantum formalism for classical statistics. 2018 , 393, 1-70	4

624	A novel fault tolerant majority gate in quantum-dot cellular automata to create a revolution in design of fault tolerant nanostructures, with physical verification. 2018 , 192, 52-60	29
623	An Energy-Aware Model for the Logic Synthesis of Quantum-Dot Cellular Automata. 2018 , 37, 3031-3041	51
622	Modular Adder Designs Using Optimal Reversible and Fault Tolerant Gates in Field-Coupled QCA Nanocomputing. 2018 , 57, 1356-1375	18
621	Design of a fault-tolerant reversible control unit in molecular quantum-dot cellular automata. 2018 , 16, 1850010	0
620	Designing a 2-to-4 decoder on nanoscale based on quantum-dot cellular automata for energy dissipation improving. 2018 , 158, 477-489	29
619	An optimized design of full adder based on nanoscale quantum-dot cellular automata. 2018 , 158, 243-256	39
618	Designing Nanoscale Counter Using Reversible Gate Based on Quantum-Dot Cellular Automata. 2018 , 57, 1060-1081	22
617	Information transport in classical statistical systems. 2018 , 927, 35-96	3
616	Design and Analysis of Ultra-Low Power QCA Parity Generator Circuit. 2018 , 347-354	5
615	Toward Efficient Design of Reversible Logic Gates in Quantum-Dot Cellular Automata with Power Dissipation Analysis. 2018 , 57, 1167-1185	9
614	Molecular Quantum Dot Cellular Automata Based on Diboryl Monoradical Anions. 2018 , 122, 2454-2460	27
613	A novel true random number generator based on QCA nanocomputing. 2018 , 17, 14-20	22
612	An exact method for design exploration of quantum-dot cellular automata. 2018 ,	10
611	An Optimized Three-Level Design of Decoder Based on Nanoscale Quantum-Dot Cellular Automata. 2018 , 57, 2022-2033	13
610	Innovative model for ternary QCA gates. 2018 , 12, 189-195	17
609	Design of Low-Complexity and High-Speed Coplanar Four-Bit Ripple Carry Adder in QCA Technology. 2018 , 57, 1948-1960	22
608	An efficient design of Quantum-dot Cellular Automata based 5-input majority gate with power analysis. 2018 , 59, 103-117	16
607	Universal shift register implementation using quantum dot cellular automata. 2018 , 9, 291-310	9

606	A Parity-Preserving Reversible QCA Gate with Self-Checking Cascadable Resiliency. 2018 , 6, 450-459	24
605	Decimal Full Adders Specially Designed for Quantum-Dot Cellular Automata. 2018 , 65, 106-110	22
604	Designing efficient QCA even parity generator circuits with power dissipation analysis. 2018 , 57, 2475-2484	14
603	Efficient Design of Reversible Logic ALU Using Coplanar Quantum-Dot Cellular Automata. 2018 , 27, 1850021	9
602	Design of Generalized Pipeline Cellular Array in Quantum-Dot Cellular Automata. 2018 , 17, 29-32	5
601	An efficient design of Vedic multiplier using ripple carry adder in Quantum-dot Cellular Automata. 2018 , 65, 527-542	15
600	An optimal design of QCA based $2n:1/1:2n$ multiplexer/demultiplexer and its efficient digital logic realization. 2018 , 56, 64-75	33
599	Designing single layer counter in quantum-dot cellular automata with energy dissipation analysis. 2018 , 9, 2641-2648	14
598	A signal calculation grid for quantum-dot cellular automata. 2018 , 17, 470-478	4
597	A full adder structure without cross-wiring in quantum-dot cellular automata with energy dissipation analysis. 2018 , 74, 1994-2005	52
596	Design of image steganographic architecture using quantum-dot cellular automata for secure nanocommunication networks. 2018 , 15, 41-58	22
595	A Fault-Tolerant and Efficient XOR Structure for Modular Design of Complex QCA Circuits. 2018 , 27, 1850115	16
594	A novel configurable flip flop design using inherent capabilities of quantum-dot cellular automata. 2018 , 56, 101-112	9
593	. 2018 ,	6
592	Electric-Field Bit Write-In for Molecular Quantum-Dot Cellular Automata Circuits. 2018 ,	0
591	Quantum-dot Cellular Automata RAM design using Crossbar Architecture. 2018 ,	3
590	Ultra Low Power Reversible Dual Edge Triggered Flip Flop-Design and Implementation. 2018 ,	
589	Design of Efficient Quantum-Dot Cellular Automata (QCA) MAC Unit. 2018 ,	1

588	Size Optimization of MIGs with an Application to QCA and STMG Technologies. 2018,	6
587	. 2018,	
586	. 2018,	2
585	QCA based design of Polar encoder circuit for nano communication network. 2018, 18, 82-92	8
584	Multiple Missing Cell Defect Modeling for QCA Devices. 2018, 34, 623-641	2
583	Signal Synchronization in Large Scale Quantum-dot Cellular Automata Circuits. 2018,	2
582	Binary atomic silicon logic. 2018, 1, 636-643	41
581	Ultra-efficient convolution encoder design in quantum-dot cellular automata with power dissipation analysis. 2018, 57, 3881-3888	6
580	Cellular Automata based Optimal Illumination in LED Based Lighting Systems. 2018,	
579	A novel spike-train generator suitable for QCA implementation towards UWB-IR applications. 2018, 9, 436-452	4
578	Nanocomputers. 2018, 355-392	
577	Quantum Artificial Life in an IBM Quantum Computer. 2018, 8, 14793	35
576	Exploration of the Synchronization Constraint in Quantum-dot Cellular Automata. 2018,	1
575	A Theoretical Study on the Implementation of Quantum Dot Cellular Automata. 2018,	1
574	InPBi Quantum Dots for Super-Luminescence Diodes. 2018, 8,	1
573	Computational fidelity in reversible quantum-dot cellular automata channel routing under thermal randomness. 2018, 18, 17-26	9
572	A revolution in nanostructure designs by proposing a novel QCA full-adder based on optimized 3-input XOR. 2018, 550, 383-392	25
571	Fault-tolerant design and analysis of QCA-based circuits. 2018, 12, 638-644	13

570	Clock Topologies for Molecular Quantum-Dot Cellular Automata. 2018 , 8, 31	11
569	Shannon Logic Based Novel QCA Full Adder Design with Energy Dissipation Analysis. 2018 , 57, 3702-3715	10
568	Effectiveness of Molecules for Quantum Cellular Automata as Computing Devices. 2018 , 8, 24	14
567	Nanoarchitecture of Quantum-Dot Cellular Automata (QCA) Using Small Area for Digital Circuits. 2018 ,	4
566	Efficient design of coplanar ripple carry adder in QCA. 2018 , 12, 594-605	18
565	Design and Analysis of Compact QCA Based 4-Bit Serial-Parallel Multiplier. 2018 ,	4
564	Performance Prediction of Configurable softwares using Machine learning approach. 2018 ,	1
563	Welcome note. 2018 ,	
562	An approach towards optimisation of 3 to 8 decoder using 5 input majority gate with coplanar crossing in Quantum dot Cellular Automata. 2018 ,	1
561	Architectural exploration of perpendicular Nano Magnetic Logic based circuits. 2018 , 63, 275-282	9
560	Modular Design of Ultra-Efficient Reversible Full Adder-Subtractor in QCA with Power Dissipation Analysis. 2018 , 57, 2863-2880	23
559	A novel fault-tolerant multiplexer in quantum-dot cellular automata technology. 2018 , 74, 4696-4716	33
558	Analytic model of thermalization: Quantum emulation of classical cellular automata. 2018 , 97, 062144	6
557	Designing Efficient Configurable QCA Nano Circuit for Morphological Operations in Image Processing. 2018 , 1039, 012028	2
556	Design of Conservative Gate and their Novel Application in Median Filtering in Emerging QCA Nanocircuit. 2018 , 131-141	
555	Design of Cost-Efficient QCA Reversible Circuits via Clock-Zone-Based Crossover. 2018 , 57, 3127-3140	10
554	On the design methodology of Boolean functions with quantum-dot cellular automata for reducing delay and number of wire crossings. 2018 , 17, 1756-1770	3
553	Novel designs of full adder in quantum-dot cellular automata technology. 2018 , 74, 4798-4816	20

552	Designing ternary quantum-dot cellular automata logic circuits based upon an alternative model. 2018 , 71, 43-59	14
551	A Unique Reversible Gate in Quantum-dot Cellular Automata for Implementation of Four Flip-flops Without Garbage Outputs. 2018 , 57, 3340-3358	6
550	QCA circuit design of n -bit non-restoring binary array divider. 2018 , 2018, 348-353	1
549	Design and comparison of new fault-tolerant majority gate based on quantum-dot cellular automata. 2018 , 39, 085001	6
548	Toward Efficient Design of Flip-flops in Quantum-Dot Cellular Automata with Power Dissipation Analysis. 2018 , 57, 3419-3428	8
547	. 2018 ,	6
546	VIBPACK: A package to treat multidimensional electron-vibrational molecular problems with application to magnetic and optical properties. 2018 , 39, 1815-1827	7
545	Robust and efficient QCA cell-based nanostructures of elementary reversible logic gates. 2018 , 74, 6258-6274	9
544	A Comparative Analysis of CNF and XOR-AND Representations for QCA Majority Gate Estimation. 2018 , 402-415	
543	Molecular quantum cellular automata cell design trade-offs: latching vs. power dissipation. 2018 , 20, 17881-17888	12
542	Design and Implementation of QCA D-Flip-Flops and RAM Cell Using Majority Gates. 2019 , 28, 1950079	11
541	Efficient Design and Simulation of Novel Exclusive-OR Gate Based on Nanoelectronics Using Quantum-Dot Cellular Automata. 2019 , 599-614	5
540	Towards modular binary to gray converter design using LTeX module of quantum-dot cellular automata. 2019 , 25, 2011-2018	5
539	A systematic approach towards fault-tolerant design of QCA circuits. 2019 , 98, 501-515	1
538	An optimal design of conservative efficient reversible parity logic circuits using QCA. 2019 , 11, 785-794	5
537	A reversible approach to two's complement addition using a novel reversible TCG gate and its 4 dot 2 electron QCA architecture. 2019 , 25, 1965-1975	2
536	Sequential circuit design for networks of threshold functions in nanotechnology. 2019 , 25, 265-275	
535	Design of QCA-Based D Flip Flop and Memory Cell Using Rotated Majority Gate. 2019 , 233-247	10

534	A Realistic Configurable Level Triggered Flip-Flop in Quantum-Dot Cellular Automata. 2019 , 455-467	4
533	Nanoscale cryptographic architecture design using quantum-dot cellular automata. 2019 , 20, 1578-1586	6
532	4-Bit serial shift register with reset ability and 4-bit LFSR in QCA technology using minimum number of cells and delay. 2019 , 78, 449-462	13
531	Power analysis attack resistable hardware cryptographical circuit design using reversible logic gate in quantum cellular automata. 2019 , 1	5
530	Inversions Optimization in XOR-Majority Graphs with an Application to QCA. 2019 ,	3
529	Design of efficient quantum Dot cellular automata (QCA) multiply accumulate (MAC) unit with power dissipation analysis. 2019 , 13, 534-543	7
528	Optimization of the area efficiency and robustness of a QCA-based reversible full adder. 2019 , 18, 1478-1489	12
527	An Image Segmentation Encryption Algorithm Based on Hybrid Chaotic System. 2019 , 7, 103047-103058	14
526	An efficient design of CORDIC in Quantum-dot cellular automata technology. 2019 , 106, 2039-2056	7
525	Semiclassical versus quantum-mechanical vibronic approach in the analysis of the functional characteristics of molecular quantum cellular automata. 2019 , 21, 16751-16761	8
524	Test Pattern Generator for MV-Based QCA Combinational Circuit Targeting MMC Fault Models. 2019 , 1-11	1
523	An Efficient Design of DCT Approximation Based on Quantum Dot Cellular Automata (QCA) Technology. 2019 , 2019, 1-11	5
522	An energy-efficient RAM cell based on novel majority gate in QCA technology. 2019 , 1, 1	8
521	An Ultra-Low Power Parity Generator Circuit Based on QCA Technology. 2019 , 2019, 1-8	4
520	Double-Dimeric Versus Tetrameric Cells for Quantum Cellular Automata: a Semiempirical Approach to Evaluation of Cell Responses Combined with Quantum-Chemical Modeling of Molecular Structures. 2019 , 123, 22614-22623	11
519	Tuning of structural and electronic properties of functionalized germanene quantum dot. 2019 ,	
518	Test Pattern Generator for Majority Voter based QCA Combinational Circuits targeting MMC Defect. 2019 ,	1
517	Bistable Propagation of Monostable Molecules in Molecular Field-Coupled Nanocomputing. 2019 ,	4

516	Design and Simulation of 4-bit QCA BCD Full-adder. 2019 ,	2
515	High Speed Memory Cell with Data Integrity in QCA. 2019 ,	5
514	Synchronous Counter Design Using Novel Level Sensitive T-FF in QCA Technology. 2019 , 9, 27	9
513	Design of Ultra-Efficient Reversible Gate Based 1-bit Full Adder in QCA with Power Dissipation Analysis. 2019 , 58, 4042-4063	14
512	Quantum computing with classical bits. 2019 , 948, 114776	3
511	Multi-objective algebraic rewriting in XOR-majority graphs. 2019 , 69, 40-49	2
510	Robust QCA full-adders using an efficient fault-tolerant five-input majority gate. 2019 , 47, 1037-1056	20
509	Using the full quantum basis set to simulate quantum-dot cellular automata devices. 2019 , 18, 982-987	2
508	New symmetric and planar designs of reversible full-adders/subtractors in quantum-dot cellular automata. 2019 , 73, 1	9
507	Novel design of reversible priority encoder in quantum dot cellular automata based on Toffoli gate and Feynman gate. 2019 , 75, 6882-6903	11
506	Design and simulation of priority based dual port memory in quantum dot cellular automata. 2019 , 69, 118-137	2
505	Tuning magnetic monopole population and mobility in unidirectional array of nanomagnets as a function of lattice parameters. 2019 , 114, 142401	4
504	Design of Novel Coplanar Counter Circuit in Quantum Dot Cellular Automata Technology. 2019 , 58, 2677-2691	12
503	Directed acyclic graph-based design of digital logic circuits using QCA. 2019 , 18, 988-1006	1
502	A Simple Synthesis Process for Combinational QCA Circuits: QSynthesizer. 2019 ,	3
501	Non-equilibrium absorbing state phase transitions in discrete-time quantum cellular automaton dynamics on spin lattices. 2019 , 4, 02LT02	6
500	A Power-Efficient Single Layer Full Adder Design in Field-Coupled QCA Nanocomputing. 2019 , 58, 2303-2319	2
499	Introducing Galois field polynomial addition in quantum-dot cellular automata. 2019 , 9, 2127-2146	3

498	Quantum-Dot Cellular Automata Technology for High-Speed High-Data-Rate Networks. 2019 , 38, 5236-5252	3
497	Electric-Field Inputs for Molecular Quantum-Dot Cellular Automata Circuits. 2019 , 18, 453-460	7
496	A novel design of fault-tolerant RAM cell in quantum-dot cellular automata with physical verification. 2019 , 75, 5688-5716	11
495	Carry save adder and carry look ahead adder using inverter chain based coplanar QCA full adder for low energy dissipation. 2019 , 211, 37-43	19
494	Implementing Functionality in Molecular Self-Assembled Monolayers. 2019 , 19, 2750-2757	8
493	Molecular QCA embedding in microporous materials. 2019 , 21, 7879-7884	3
492	Novel Efficient Circuit Design for Multilayer QCA RCA. 2019 , 58, 1745-1757	27
491	Gate-diffusion input (GDI) method for designing energy-efficient circuits in analogue voltage-mode fuzzy and QCA systems. 2019 , 87, 81-100	8
490	Optimal design of RAM cell using novel 2:1 multiplexer in QCA technology. 2019 , 46, 147-158	11
489	Prototype of FPGA Dynamic Reconfiguration Based-on Context-Oriented Programming. 2019 ,	
488	GRK-Papyri: A Dataset of Greek Handwriting on Papyri for the Task of Writer Identification. 2019 ,	7
487	A Reliable Hand Tracking Method Using Kinect. 2019 ,	1
486	Haptic Guidance for Robot-Assisted Endovascular Procedures: Implementation and Evaluation on Surgical Simulator. 2019 ,	3
485	Designing Of Beach Rescue Drone Using GPS And Zigbee Technologies. 2019 ,	2
484	Sequential Task Scheduling for Mobile Edge Computing Using Genetic Algorithm. 2019 ,	5
483	Positioning of Reactive Voltage Compensator Based on Genetic Algorithm in Distribution Network. 2019 ,	0
482	High-Speed Image Processing Platform Based on UPP Technology. 2019 ,	
481	Breaking the Code on Broken Tablets: The Learning Challenge for Annotated Cuneiform Script in Normalized 2D and 3D Datasets. 2019 ,	2

- 480 Evaluation of Potential and Impedance Integrals in Case of Singular Bases Along Axially Symmetric Antennas. **2019,**
- 479 FLAME: Feature-Likelihood Based Mapping and Localization for Autonomous Vehicles. **2019,**
- 478 Efficient Decoding of Interleaved Low-Rank Parity-Check Codes. **2019,** 3
- 477 DSNet:Multi-resolution Dense Encoder and Stack Decoder Network for Aerial Image Segmentation. **2019,**
- 476 Adaptive Iterative Learning Algorithm of Strict-feedback Systems with Initial State Error. **2019,**
- 475 Social Impact Bonds: Current Context and Implementation Model in the Healthcare Industry. **2019,** 2
- 474 Title Page. **2019,**
- 473 Status and Analysis of 3GPP 5G NR Base Station EMC Specification. **2019,** 1
- 472 IEEE Magnetics Society Information. **2019,** 55, C3-C3
- 471 A novel hardware-efficient CPG model for a hexapod robot based on nonlinear dynamics of coupled asynchronous cellular automaton oscillators. **2019,** 4
- 470 IEEE Transactions on Antennas and Propagation. **2019,** 67, C2-C2
- 469 Effective Target Extraction of Automatic Target-Scoring System. **2019,** 1
- 468 Semi-identical Solution to Nonlinear Euler-Bernoulli Beam Model. **2019,**
- 467 Rate loss in the Gaussian CEO problem. **2019,** 2
- 466 Firefly Algorithm for Frequency Controller of Autonomous Hybrid Energy System. **2019,** 3
- 465 Optimized Multiplexer and Exor gate in 4-dot 2-electron QCA using Novel Input Technique. **2019,** 3
- 464 Table of contents. **2019,**
- 463 Ship-induced Wave Numerical Simulation in Head-on Situation of Two Ships in Shallow Water. **2019,**

462	Acknowledgements. 2019,	
461	Self-Supervised Monocular Depth Hints. 2019,	52
460	A New Robust Design of Dual-Rail Checker in QCA Technology, Capable of Testing of Digital Electronics Circuit. 2019,	
459	Cross-Layer Design of Control and Feedback Signal Frames for LANs of Drones. 2019,	
458	. 2019,	1
457	Neural Network Based Heterogeneous Sensor Fusion for Robot Motion Planning. 2019,	3
456	Progress-based Container Scheduling for Short-lived Applications in a Kubernetes Cluster. 2019,	5
455	Synchronized Optimal Control of Intelligent Crane Car Based on Multilevel Fuzzy-PID Control. 2019,	1
454	Passive Intermodulation Suppression of PIFA by EGAIn as Reconfigurable Normal Temperature Solder. 2019,	
453	Vol-Based Optimal Sensors Positioning and the Sub-Modularity Issue. 2019,	2
452	Regularizing Activation Distribution for Training Binarized Deep Networks. 2019,	29
451	Design and implementation of Operational Amplifier using Quantum Dot Cellular Automata. 2019,	
450	Analysis of battery-based virtual inertia & primary frequency response on improving frequency dynamics in an island hydro-diesel-PV ac-grid. 2019,	0
449	Power System Fault Detection, Classification And Clearance By Artificial Neural Network Controller. 2019,	3
448	. 2019,	3
447	Novel Reliable QCA Subtractor Designs using Clock zone based Crossover. 2019,	1
446	A Unique Cell-based Configuration of XOR Gates in Quantum-dot Cellular Automata Nanotechnology. 2019,	2
445	Analysis and modeling of sequential circuits in QCA nano computing: RAM and SISO register study. 2019, 1, 73-83	3

444	Automatic object model generation for nanoelectronics using C++ meta programming. 2019 , 55, 1286-1288	
443	High Speed Controllable Inverter for Adder-Subtractor in QCA. 2019 ,	1
442	Reliability-Aware Design and Performance Analysis of QCA-Based Exclusive-OR Gate. 2019 , 815-821	2
441	Design of a novel reversible structure for full adder/subtractor in quantum-dot cellular automata. 2019 , 556, 163-169	25
440	Reversible Code Converters Based on Application Specific Four Variable Reversible Gates. 2019 , 465-477	1
439	A Novel and Efficient Design for Squaring Units by Quantum-Dot Cellular Automata. 2019 , 23-31	1
438	Robust Coplanar Full Adder Based on Novel Inverter in Quantum Cellular Automata. 2019 , 58, 639-655	10
437	A novel design of multiplexer based on nano-scale quantum-dot cellular automata. 2019 , 31, e5070	12
436	New designs of fault-tolerant adders in quantum-dot cellular automata. 2019 , 19, 10-25	22
435	Mapping Monotone Boolean Functions into Majority. 2019 , 68, 791-797	2
434	Design of Multiplexer-Based D Flip-Flop with Set and Reset Ability in Quantum Dot Cellular Automata Nanotechnology. 2019 , 58, 687-699	10
433	New modified-majority voter-based efficient QCA digital logic design. 2019 , 106, 333-348	8
432	A Novel Full Adder/Subtractor in Quantum-Dot Cellular Automata. 2019 , 58, 221-246	9
431	A Novel Adder Circuit Design in Quantum-Dot Cellular Automata Technology. 2019 , 58, 184-200	20
430	Synthesis Methods of Baugh-Wooley Multiplier and Non-restoring Divider to Enhance Primitive Results of QCA Circuits. 2019 , 237-245	1
429	A novel efficient full adder-subtractor in QCA nanotechnology. 2019 , 9, 51-54	16
428	An Explicit Cell-Based Nesting Robust Architecture and Analysis of Full Adder. 2019 , 547-555	
427	Robust Multiplexer Design and Analysis Using Quantum Dot Cellular Automata. 2019 , 58, 719-733	9

426	Design and Analysis of a Novel Low-Power Exclusive-OR Gate Based on Quantum-Dot Cellular Automata. 2019 , 28, 1950141	8
425	Logic Synthesis for Established and Emerging Computing. 2019 , 107, 165-184	13
424	An Efficient Inverter Logic in Quantum-Dot Cellular Automata for Emerging Nanocircuits. 2020 , 45, 2663-2674	5
423	Design and simulation of nano-arbiters using quantum-dot cellular automata. 2020 , 72, 102926	2
422	Low-complexity QCA universal shift register design using multiplexer and D flip-flop based on electronic correlations. 2020 , 76, 6438-6452	20
421	Design of Reversible Binary-to-Gray Code Converter in Quantum-Dot Cellular Automata. 2020 , 251-261	3
420	SSTRNG: self starved feedback SRAM based true random number generator using quantum cellular automata. 2020 , 26, 2203-2215	8
419	Computational Advancement in Communication Circuits and Systems. 2020 ,	0
418	Physical Proof and Simulation of Ternary Logic Gate in Ternary Quantum Dot Cellular Automata. 2020 , 375-385	2
417	MVTRNG: Majority Voter-Based Crossed Loop Quantum True Random Number Generator in QCA Nanotechnology. 2020 , 241-253	3
416	Design and Testing of Reversible Logic. 2020 ,	0
415	A novel ultra-dense and low-power structure for fault-tolerant three-input majority gate in QCA technology. 2020 , 32, e5548	7
414	Nanocomputing channel fidelity of QCA code converter circuits under thermal randomness. 2020 , 19, 419-434	1
413	Electronic Properties of Poly-Yne Carbon Chains and Derivatives with Transition Metal End-Groups. 2020 , 2020, 667-681	14
412	A novel majority based imprecise 4:2 compressor with respect to the current and future VLSI industry. 2020 , 73, 102962	9
411	A novel controllable inverter and adder/subtractor in quantum-dot cellular automata using cell interaction based XOR gate. 2020 , 222, 111197	24
410	Optimal Energy Efficiency and Throughput on Partially Reversible Pipelined QCA Circuits. 2020 , 37, 40-50	1
409	Area-Delay-Energy aware SRAM memory cell and MIN parallel read/write memory array design for quantum dot cellular automata. 2020 , 72, 102944	7

408	Cellular automata-based byte error correction in QCA. 2020 , 23, 100278	3
407	SCERPA: A Self-Consistent Algorithm for the Evaluation of the Information Propagation in Molecular Field-Coupled Nanocomputing. 2020 , 39, 2749-2760	4
406	Reversible Palm Vein Authenticator Design With Quantum Dot Cellular Automata for Information Security in Nanocommunication Network. 2020 , 8, 174821-174832	4
405	Zwitterionic Mixed-Valence Species for the Design of Neutral Clocked Molecular Quantum-Dot Cellular Automata. 2020 , 59, 15772-15779	5
404	Two Novel Current-Mode CNFET-Based Full Adders Using ULPD as Voltage Regulator. 2020 , 2150101	0
403	A novel fast and small XOR-base full-adder in quantum-dot cellular automata. 2020 , 10, 4037-4048	1
402	Novel implementation of 3D multiplexers in nano magnetic logic technology. 2020 , 37, 173-179	0
401	Cost Efficient Subtractor Designs in QCA. 2020 ,	
400	Exploration of the double exchange in quantum cellular automata: proposal for a new class of cells. 2020 , 56, 10682-10685	5
399	Design of 4-Bit 4-Tap FIR Filter Based on Quantum-Dot Cellular Automata (QCA) Technology with a Realistic Clocking Scheme. 2020 ,	
398	Design of efficient multilayer RAM cell in QCA framework. 2020 , 47, 31-41	9
397	Design Automation for Field-Coupled Nanotechnologies. 2020 ,	0
396	Triangular Quantum-Dot Cellular Automata Wire for Standard Ternary Logic. 2020 , 59, 3821-3839	0
395	Design of quantum dot cellular automata based fault tolerant convolution encoders for secure nanocomputing. 2020 , 18, 2050032	3
394	A Scalable QCA Clocking Mechanism for Efficient Full Utilization of Majority Gates. 2020 ,	
393	Design of 3:2 Compressor Using Quantum Dot Cellular Automata. 2020 ,	2
392	Design and Implementation of Approximate DCT Architecture in Quantum-Dot Cellular Automata. 2020 , 28, 2530-2539	6
391	Bibliography. 2020 , 373-388	

390	Can the Double Exchange Cause Antiferromagnetic Spin Alignment?. 2020 , 6, 36	2
389	Quantum-dot Cellular Automata: An Efficient and Adroit Alternate to CMOS Technology. 2020 ,	0
388	Synchronization in Quantum-Dot Cellular Automata Circuits and Systems. 2020 , 1, 145-156	2
387	Design of Efficient 1-bit Comparator in Quantum dot Cellular Automata Nano-computing. 2020 ,	2
386	Single-bit Comparator in Quantum-dot Cellular Automata (QCA) Technology Using Novel QCA-XNOR Gates. 2020 , 19, 100078	3
385	Towards quantum computing based community detection. 2020 , 38, 100313	2
384	ICCSSE 2020 Author Index. 2020 ,	
383	A parametric two-mode vibronic model of a dimeric mixed-valence cell for molecular quantum cellular automata and computational verification. 2020 , 22, 25982-25999	6
382	Mixed-Valence Magnetic Molecular Cell for Quantum Cellular Automata: Prospects of Designing Multifunctional Devices through Exploration of Double Exchange. 2020 , 124, 25602-25614	4
381	ToPoliNano and fiction: Design Tools for Field-coupled Nanocomputing. 2020 ,	3
380	A High-Performance Design of Generalized Pipeline Cellular Array. 2020 , 19, 47-50	3
379	Power-efficient implementation of pseudo-random number generator using quantum dot cellular automata-based D Flip Flop. 2020 , 85, 106658	0
378	Designing a Turing-complete cellular automata system using quantum-dot cellular automata. 2020 , 19, 1337-1343	1
377	Phase-frequency detector in QCA nanotechnology using novel flip-flop with reset terminal. 2020 , 10, 111-118	0
376	5-Input majority gate based optimized full adder circuit in nanoscale coplanar quantum-dot cellular automata. 2020 , 10, 177-195	3
375	Ultracold Lattice Gas Automata for Single Trapped Ion Interacting with a Laser Field. 2020 , 532, 1900552	2
374	A Self-Decoupled Antenna Array Using Inductive and Capacitive Couplings Cancellation. 2020 , 68, 5289-5296	21
373	ColorMapGAN: Unsupervised Domain Adaptation for Semantic Segmentation Using Color Mapping Generative Adversarial Networks. 2020 , 58, 7178-7193	38

372	Fast transient-based detection of busbar faults employing improved morphological gradient. 2020 , 14, 1458-1466	2
371	The design and implementation of a robust single-layer QCA ALU using a novel fault-tolerant three-input majority gate. 2020 , 76, 10155-10185	19
370	Gray-code adder with parity generator in a novel quantum-dot cellular automata implementation. 2020 , 14, 243-250	3
369	. 2020 , 19, 292-296	1
368	Simulation of Electronic Quantum Devices: Failure of Semiclassical Models. 2020 , 10, 1114	2
367	Design and simulation of quantum-dot cellular automata serial decimal pipelined processor based on Turing machine model. 2020 , 77, 103195	2
366	Population congestion in 3-state quantum-dot cellular automata. 2020 , 127, 244301	1
365	Design and Evaluation of Cell Interaction Based Vedic Multiplier Using Quantum-Dot Cellular Automata. 2020 , 9, 1036	12
364	Design of a reversible structure for memory in quantum-dot cellular automata. 2020 , 48, 2257-2265	5
363	Limits of adiabatic clocking in quantum-dot cellular automata. 2020 , 127, 054502	8
362	Hyperspectral Classification With Noisy Label Detection via Superpixel-to-Pixel Weighting Distance. 2020 , 58, 4116-4131	48
361	Performance analysis of downlink NOMA over α and β fading channels. 2020 , 14, 522-531	13
360	An Encoder-Decoder Convolution Network With Fine-Grained Spatial Information for Hyperspectral Images Classification. 2020 , 8, 33600-33608	3
359	. 2020 , 8, 39056-39077	24
358	Manipulating and Probing the Distribution of Excess Electrons in an Electrically Isolated Self-Assembled Molecular Structure. 2020 , 20, 1839-1845	5
357	Spin-polarized quantum transport in Si dangling bond wires. 2020 , 12, 6079-6088	2
356	Molecule Based Materials for Quantum Cellular Automata: A Short Overview and Challenging Problems. 2020 , 60, 527-543	6
355	Coding Programmable Metasurfaces Based on Deep Learning Techniques. 2020 , 10, 114-125	33

354	Configurable Logic Blocks and Memory Blocks for Beyond-CMOS FPGA-Based Embedded Systems. 2020 , 12, 113-116	6
353	An efficient fault-tolerant arithmetic logic unit using a novel fault-tolerant 5-input majority gate in quantum-dot cellular automata. 2020 , 82, 106548	15
352	Analytical Performance Analysis of CdZnO/ZnO-Based Multiple Quantum Well Solar Cell. 2020 , 67, 1047-1051	6
351	Design of an Efficient N IN Butterfly Switching Network in Quantum-Dot Cellular Automata (QCA). 2020 , 19, 147-155	17
350	Multiobjective Hyperspectral Feature Selection Based on Discrete Sine Cosine Algorithm. 2020 , 58, 3601-3618	17
349	SiQAD: A Design and Simulation Tool for Atomic Silicon Quantum Dot Circuits. 2020 , 19, 137-146	8
348	Design of Light-Induced Molecular Switcher for the Driver of the Quantum Cellular Automata (QCA) Based on the Transition through the Intramolecular Charge Transfer (ICT) Structure. 2020 , 60, 570-576	1
347	On the impact of the synchronization constraint and interconnections in quantum-dot cellular automata. 2020 , 76, 103109	4
346	Two-Phase Multimodal Neural Network for App Categorization using APK Resources. 2020 ,	1
345	Effect of flake size of natural graphite precursor on graphene oxide supercapacitor for energy storage. 2020 ,	
344	Using D flip-flop with reset terminal to design PFD in QCA nanotechnology. 2020 , 107, 1940-1962	2
343	A Novel XOR/XNOR Structure for Modular Design of QCA Circuits. 2020 , 67, 3327-3331	17
342	Novel quantum-dot cellular automata implementation of flip-flop and phase-frequency detector based on nand-nor-inverter gates. 2021 , 49, 196-212	1
341	Programmable multiplier circuit designed for quantum-dot cellular automata devices. 2021 , 37, 1295-1300	
340	Optimal design for digital comparator using QCA nanotechnology with energy estimation. 2021 , 34, e2822	2
339	A systematic review on full adder designs in Quantum-dot Cellular Automata. 2021 , 45, 1638-1643	
338	Fredkin gate based energy efficient reversible D flip flop design in quantum dot cellular automata. 2021 , 46, 5248-5255	1
337	Quantum dot cellular automata-based encoder and priority encoder circuits: Low latency and area efficient design. 2021 , 34, e2850	0

336	Design of quantum-dot cellular automata-based communication system using modular N-bit binary to gray and gray to binary converters. 2021 , 34, e4702	4
335	Geometric greedy router in Quantum-dot Cellular Automata. 2021 , 128, 153498	2
334	Mixed-valence clusters: Prospects for single-molecule magnetoelectrics. 2021 , 426, 213555	11
333	A combined three and five inputs majority gate-based high performance coplanar full adder in quantum-dot cellular automata. 2021 , 13, 1165-1177	6
332	An Efficient Design of Binary to Gray Code Binary Converter using QCA. 1033, 012014	2
331	Efficient structures for fault-tolerant majority gate in quantum-dot cellular automata. 2021 , 53, 1	4
330	Efficient Design of Vedic Square Calculator using Quantum dot Cellular Automata (QCA). 2021 , 1-1	1
329	Design of an Area Efficient Quantum Dot Cellular Automata Based Full Adder Cell Having Low Latency. 2021 ,	0
328	CFA: Toward the Realization of Conservative Full Adder in QCA with Enhanced Reliability. 2021 , 30, 2150172	1
327	An efficient, scalable, regular clocking scheme based on quantum dot cellular automata. 2021 , 107, 659-670	3
326	A Healthcare-Based Intelligent Monitoring Paradigm in Quantum Dot Cellular Automata (QCA) to Protect Against Novel Corona Outbreak. 2021 , 1-18	
325	Design of Reversible Gate-Based Fingerprint Authentication System in Quantum-Dot Cellular Automata for Secure Nanocomputing. 2021 , 729-740	2
324	Targeting Exchange Interactions in Nanosize Molecular Magnets by Angular Momentum Technique. 2021 , 319-351	1
323	Electron cascade for distant spin readout. 2021 , 12, 77	3
322	Energy dissipation during two-state switching for quantum-dot cellular automata. 2021 , 129, 024304	3
321	Efficient Synthesis of Reversible Circuits Using Quantum Dot Cellular Automata. 2021 , 9, 76662-76673	0
320	Single-Electron Fault Tolerance in Quantum Cellular Automata Majority Gate. 2021 , 30, 2150168	2
319	Investigating multiple defects on a new fault-tolerant three-input QCA majority gate. 2021 , 77, 8305-8325	2

318	Design of Block Coding 4B/5B for Digital Communication using Quantum-dot Cellular Automata Technology. 2021,	0
317	Designing a New 4:2 Compressor Using an Efficient Multi-Layer Full-Adder Based on Nanoscale Quantum-Dot Cellular Automata. 2021, 60, 2613-2626	5
316	A Theoretical Procedure Based on Classical Electrostatics and Density Functional Theory for Screening Non-Square-Shaped Mixed-Valence Complexes for Logic Gates in Molecular Quantum-Dot Cellular Automata. 2021, 94, 397-403	0
315	Non-coplanar counter in quantum-dot cellular automata. 2021, 136, 1	4
314	New Design of Binary to Ternary Converter. 1-12	4
313	A Review of QCA Nanotechnology as an Alternate to CMOS. 2021, 17,	0
312	An efficient Design of three-input XOR gate in QCA technology. 2021,	
311	Design of Area Efficient Shift Register and Scan Flip-Flop based on QCA Technology. 2021,	
310	Optimized area efficient quantum dot cellular automata based reversible code converter circuits: design and energy performance estimation. 2021, 77, 11160-11186	1
309	A Robust Encrypted Nanocommunication in QCA Circuit. 2021, 104240	1
308	A Novel Toffoli Gate Design Using Quantum-dot Cellular Automata. 2021,	0
307	Design and Modeling of an Ultra-Efficient 3x3 SSG-1 Reversible Gate for Nanoscale Applications. 2021,	2
306	SCERPA Simulation of Clocked Molecular Field-Coupling Nanocomputing. 2021, 29, 558-567	4
305	MUX induced Ring oscillators for encrypted Nano communication via Quantum Dot Cellular Automata. 2021, 27, 100338	0
304	Conway's Game of Life in Quantum-dot Cellular Automata. 2021, 109, 104972	2
303	Logic Resynthesis of Majority-Based Circuits by Top-Down Decomposition. 2021,	0
302	Quantum dot Cellular Automata based Fault Tolerant Fingerprint Authentication Systems using Reversible Logic Gates.	
301	A Novel Co-Planar Five Input Majority Gate Design in Quantum-Dot Cellular Automata. 1-15	0

300	Design of efficient N-bit shift register using optimized D flip flop in quantum dot cellular automata technology. 2021 , 2, 32-41	2
299	A Fault-Tolerance Nanoscale Design for Binary-to-Gray Converter based on QCA. 1-8	6
298	Efficient majority logic magnitude comparator design. 2021 , 82, 103832	0
297	Novel Parity Generator and Detector Design using Quantum Dots. 2021 ,	0
296	A Novel design of Nano scale TIEO based single layer full adder and full subtractor in QCA paradigm. 2021 ,	1
295	Block Coding 3B/4B for Digital Communication using Quantum-dot Cellular Automata Technology. 2021 ,	0
294	Design of Fault-Tolerant and Thermally Stable XOR Gate in Quantum dot Cellular Automata. 2021 ,	0
293	Configurable memory designs in quantum-dot cellular automata. 2021 , 13, 1381-1393	2
292	In Quest of Molecular Materials for Quantum Cellular Automata: Exploration of the Double Exchange in the Two-Mode Vibronic Model of a Dimeric Mixed Valence Cell. 2021 , 7, 66	1
291	The design, analysis, and cost estimation of a generic adder and subtractor using the layered T (LT) logic reduction methodology with a quantum-dot cellular-automata-based approach. 2021 , 20, 1611-1624	0
290	Optimal design for 1:2n demultiplexer using QCA nanotechnology with energy dissipation analysis. 2021 , 34, e2907	0
289	Designing and Implementing a Fault-Tolerant Priority Encoder in QCA Nanotechnology. 2021 , 10, 063004	2
288	Binary Coded Decimal (BCD) Seven Segment Circuit Designing using Quantum-dot Cellular Automata (QCA). 2021 ,	0
287	Design of thermometer code-to-gray code converter circuit in quantum-dot cellular automata for nano-computing network. 2021 , 41, 259-273	0
286	Quantum Foundations of Classical Reversible Computing. 2021 , 23,	3
285	High performance nanocomparator: a quantum dot cellular automata-based approach. 1	1
284	Implementation of Quantum-Dot Cellular Automata Based Efficient N-Bit BCD Adders Using Verilog. 2021 , 1964, 062092	
283	Design & Analysis of Novel Non-Reversible & Reversible Parity Generator & Detector in Quantum Cellular Automata using Feynman Gate. 2021 , 13,	0

282	Insight Into The Spin-Vibronic Problem of a Mixed Valence Magnetic Molecular Cell for Quantum Cellular Automata. 2021 , 22, 1754-1768	0
281	A new approach to bypass wire crossing problem in QCA nano technology. 2021 , ahead-of-print,	0
280	Design and Simulation of Innovative QCA Quaternary Logic Gates. 2021 , 4, 2100069	2
279	Design of fault tolerant bifunctional parity generator and scalable code converters based on QCA technology. 1	2
278	Cryptographic models of nanocommunicaton network using quantum dot cellular automata: A survey. 2021 , 2, 98-121	0
277	Quantum-Dot Cellular Automata Based On Trainable Associative Memory Neural Network for Implementing Reconfigurable Logic Gates. 2021 , 1964, 062032	
276	Design and implementation of programmable logic array using crossbar structure in quantum-dot cellular automata.	1
275	Low-Power Multiplexer Structures Targeting Efficient QCA Nanotechnology Circuit Designs. 2021 , 10, 1885	4
274	Design of a new multiplexer structure based on a new fault-tolerant majority gate in quantum-dot cellular automata. 2021 , 53, 1	0
273	A full adder structure with a unique XNOR gate based on Coulomb interaction in QCA nanotechnology. 2021 , 53, 1	1
272	A Novel Coplanar Based Adder Logic Design Using QCA. 2021 , 1979, 012052	
271	A new design of fault-tolerant digital comparator based on quantum-dot cellular automata. 2021 , 109, 563	0
270	A fault-tolerant design for a digital comparator based on nano-scale quantum-dotcellular automata. 2021 , ahead-of-print,	0
269	Implementation of skyrmion cellular automaton using Brownian motion and magnetic dipole interaction. 2021 , 119, 072402	3
268	Towards cost analysis and energy estimation of simple multiplexer and demultiplexer using quantum dot cellular automata. 1	3
267	QCA based design of cost-efficient code converter with temperature stability and energy efficiency analysis. 2021 ,	
266	Bibliometric Analysis in the Field of Quantum Technology. 2021 , 3, 549-575	2
265	Dewetting assisted self-assembly of graphene nanoparticles by diverse approaches. 2021 , 44, 1	0

264	Entangled quantum cellular automata, physical complexity, and Goldilocks rules. 2021 , 6, 045017	4
263	Using nano-scale QCA technology for designing fault-tolerant 2:1 multiplexer. 2021 , 109, 553	0
262	Evolutionary Tabu Inverted Ant Cellular Automata with Elitist Inertia for swarm robotics as surrogate method in surveillance task using e-Puck architecture. 2021 , 144, 103840	0
261	Quantum phenomena in nanostructures. 2021 , 1718, 012003	
260	Toward multifunctional molecular cells for quantum cellular automata: exploitation of interconnected charge and spin degrees of freedom. 2021 , 23, 14511-14528	
259	A Novel Efficient CNFET-Based Inexact Full Adder Design for Image Processing Applications. 2021 , 20, 2150016	1
258	. 2021 , 20, 104-112	6
257	An Efficient Design of QCA Full-Adder-Subtractor with Low Power Dissipation. 2021 , 2021, 1-9	2
256	Encyclopedia of Complexity and Systems Science. 2009 , 5859-5889	3
255	Probabilistic Error Propagation in a Logic Circuit Using the Boolean Difference Calculus. 2011 , 359-381	8
254	Quantum-Dot Cellular Automata. 2003 , 397-431	11
253	Cellular Automata Hardware Implementation. 2018 , 555-582	1
252	Image Processing Algorithms Implementation Using Quantum Cellular Automata. 2014 , 65-84	2
251	Implementation of Symmetric Functions Using Quantum Dot Cellular Automata. 2014 , 451-460	2
250	A Basic Qualitative CA Based Model of a Frustrated Linear Josephson Junction Array (JJA). 2004 , 248-257	2
249	Molecular Implementations of Cellular Automata. 2010 , 650-659	4
248	The Key Elements of Logic Design in Ternary Quantum-Dot Cellular Automata. 2011 , 177-188	5
247	Encyclopedia of Complexity and Systems Science. 2018 , 1-29	2

246	A Novel Genetic Algorithm Based Method for Efficient QCA Circuit Design. 2012 , 433-442	5
245	Spin Transfer Torque Driven Magnetic QCA Cells. 2013 , 561-569	3
244	NanoMagnet Logic: An Architectural Level Overview. 2014 , 223-256	5
243	Understanding a Bisferrocene Molecular QCA Wire. 2014 , 307-338	3
242	Nanomagnet Logic (NML). 2014 , 21-32	2
241	Silicon Atomic Quantum Dots Enable Beyond-CMOS Electronics. 2014 , 33-58	20
240	A Clocking Strategy for Scalable and Fault-Tolerant QDCA Signal Distribution in Combinational and Sequential Devices. 2014 , 61-72	2
239	Electric Clock for NanoMagnet Logic Circuits. 2014 , 73-110	6
238	The Development of Quantum-Dot Cellular Automata. 2014 , 3-20	5
237	NanoMagnet Logic: An Architectural Level Overview. 2014 , 223-256	16
236	ToPoliNano: NanoMagnet Logic Circuits Design and Simulation. 2014 , 274-306	16
235	Nanomagnet Logic (NML). 2014 , 21-32	9
234	Silicon Atomic Quantum Dots Enable Beyond-CMOS Electronics. 2014 , 33-58	10
233	A Clocking Strategy for Scalable and Fault-Tolerant QDCA Signal Distribution in Combinational and Sequential Devices. 2014 , 61-72	4
232	Security Issues in QCA Circuit Design - Power Analysis Attacks. 2014 , 194-222	2
231	Re-Programmable Logic Array for Logic Design and Its Reliability Analysis in QCA. 2014 , 341-352	2
230	Realization of Bi-Quinary Coded Decimal Adder in Quantum Dot Cellular Automata. 2014 , 353-361	2
229	Online Testable Conservative Adder Design in Quantum Dot Cellular Automata. 2014 , 385-393	3

228	SPIICE Modeling and Analysis for Metal Island Ternary QCA Logic Device. 2015 , 33-41	6
227	The Future of Lattice-Gas and Lattice Boltzmann Methods. 2000 , 165-187	5
226	Functional Nanoscale Devices. 1999 , 67-91	3
225	Nano-Router Design for Nano-Communication in Single Layer Quantum Cellular Automata. 2017 , 121-133	0
224	Online Testable Efficient Latches for Molecular QCA Based on Reversible Logic. 2020 , 185-212	1
223	Optimal demultiplexer unit design and energy estimation using quantum dot cellular automata. 2021 , 77, 1714-1738	6
222	Semiconductor quantum materials and their applications in electronics and optoelectronics. 2001 , 171-204	1
221	Design of reversible universal and multifunctional gate-based 1-bit full adder and full subtractor in quantum-dot cellular automata nanocomputing. 2020 , 14, 1	7
220	Exploiting multiple functionality for nano-scale reconfigurable systems. 2003 ,	5
219	Design of Extendable BCD-EXCESS 3 Code Convertor Using Quantum-Dot Cellular Automata. 2016 , 20, 65-71	2
218	Quantum Cellular Automata: a Short Overview of Molecular Problem. 2018 , 133, 329-335	7
217	Improvement of Single-Electron Digital Logic Gates by Utilizing Input Discretizers. 2016 , E99.C, 285-292	2
216	Atbash cipher design for secure nanocommunication using QCA. 2017 , 6, 36-47	2
215	MAGNONIC LOGIC DEVICES. 2017 , 17, 216-241	2
214	A review of Quantum Cellular Automata. 4, 368	22
213	Designing a Hamming Coder/Decoder Using QCAs. 2008 , 8, 2569-2576	38
212	Performance Evaluation of Efficient XOR Structures in Quantum-Dot Cellular Automata (QCA). 2013 , 04, 147-156	41
211	Novel Adder Circuits Based On Quantum-Dot Cellular Automata (QCA). 2014 , 05, 142-152	12

210	A Comparative Study of Majority/Minority Logic Circuit Synthesis Methods for Post-CMOS Nanotechnologies. 2017 , 09, 890-915	5
209	Defect and Temperature Effects on Complex Quantum-Dot Cellular Automata Devices. 2013 , 01, 7-15	8
208	Use of Symmetric Functions Designed by QCA Gates for Next Generation IC. 2010 , 211-217	1
207	Designing a three-level full-adder based on nano-scale quantum dot cellular automata. 2021 , 42, 184	3
206	An area-efficient, robust, and reversible QCA-based Hamming code generator, error detector, and corrector: design and performance estimation. 1	1
205	Novel optimized low power design of single-precision floating-point adder using Quantum-dot Cellular Automata. 1	1
204	A QCA-Based Improvised TRNG Design for the Implementation of Secured Nano Communication Protocol in ATM Services. 2022 , 281-290	1
203	Design and Analysis of Fault-Tolerant 1:2 Demultiplexer Using Quantum-Dot Cellular Automata Nano-Technology. 2021 , 10, 2565	1
202	Infrastructure Needs for R&D and Education. 2000 , 219-258	
201	Intellectual Property Rights in Nanotechnology. 2004 , 4, 69-74	5
200	Self-Assembling Nanostructures in Ge(Si)Bi Heteroepitaxy. 2005 , 6.5-699-6.5-713	
199	Nanoelectronic Circuit Architectures. 2007 , 6-1-6-15	
198	Self-Assembling Nanostructures in Ge(Si)Bi Heteroepitaxy. 2007 ,	
197	Towards Nanoelectronics Processor Architectures. 2008 , 339-372	
196	Design for Testability. 2009 , 673-698	
195	Natural Computing. 2009 , 745-814	
194	Circuit Models of Nanoscale Devices. 2010 , 117-127	
193	Bibliography. 2009 , 289-292	

- 192 Molecular Electronics: Challenges and Perspectives. **2010**, 1-40 1
- 191 Implementation of Rotary Element with Quantum Cellular Automata. **2010**, 99-106
- 190 Quantum-Dot Cellular Automata. **2010**, 275-307
- 189 Monolithic and Hybrid Spintronics. 93
- 188 Single Electron Fault Modeling in Basic Quantum Devices. **2011**, 50, 094401
- 187 Computational Complexity. **2012**, 1998-2028 1
- 186 The fault-tolerance study of QCA adder based on probability model. **2012**, 61, 050202
- 185 Silicon-Germanium-Carbon Self Assembled Quantum Dot Growth and Applications in Electronic Memory Devices. 341-352
- 184 Design Challenges and Considerations for Nanomedical Computation. **2013**, 303-336
- 183 Design Challenges and Considerations for Nanomedical Electronic Entities and Infrastructure. **2013**, 207-258
- 182 Understanding a Bisferrocene Molecular QCA Wire. **2014**, 307-338 3
- 181 Electronic Quantum Devices. **2014**, 185-269
- 180 Modelling Techniques for Simulating Large QCA Circuits. **2014**, 259-273
- 179 Security Issues in QCA Circuit Design - Power Analysis Attacks. **2014**, 194-222 1
- 178 Electric Clock for NanoMagnet Logic Circuits. **2014**, 73-110 4
- 177 Modelling Techniques for Simulating Large QCA Circuits. **2014**, 259-273
- 176 Simulation of QCA Based Binary to BCD Converter in Xilinx using HDLQ. **2014**, 4, 14-21
- 175 Design of PCA Architecture Based on Quantum-Dot Cellular Automata. **2014**, 18, 178-184

- 174 Nanoelectronics. **1994**, 364-386
- 173 The Effect of Nanowire Limitations on Massively Parallel Computer Architectures. **1997**, 399-407
- 172 Fundamental Issues in Atomic/Nanoelectronic Computation. **1997**, 309-329
- 171 Metalloprotein Engineering for New Materials, Drugs and Nanodevices. **1998**, 1-31 1
- 170 Electronic quantum devices. **1999**, 103-178
- 169 Nanotechnology in Electronics. **2014**, 17-36
- 168 QCA Based Low Power Parallel Binary Adder/Subtractor Using Reversible Logic Gates. **2014**, 4, 1-8
- 167 Design of Programmable Quantum-Dot Cell Structure Using QCA Clocking Based D Flip-Flop. **2014**, 19, 33-41
- 166 Feed Forward Neural Network Approach for Reversible Logic Circuit Simulation in QCA. **2015**, 61-71
- 165 Design of Extendable XOR Gate Using Quantum-Dot Cellular Automata. **2016**, 20, 631-637
- 164 Quantum-Dot Cellular Automata: A Clocked Architecture for High-Speed, Energy-Efficient Molecular Computing. **2017**, 56-68
- 163 Encyclopedia of Complexity and Systems Science. **2017**, 1-40
- 162 An Efficient Design of Left Shifter in Quantum Cellular Automata. **2017**, 108-120
- 161 Restoring Divider Design for Quantum-Dot Cellular Automata. **2017**, 239-254
- 160 An HDL Model of Magnetic Quantum-Dot Cellular Automata Devices and Circuits. **2017**, 225-237
- 159 Experimental Tests of the Landauer Principle in Electron Circuits, and Quasi-Adiabatic Computing Systems. **2019**, 177-230
- 158 IMPLEMENTATION OF NANOCOMMUNICATION SYSTEM USING QUANTUM DOT CELLULAR AUTOMATA FOR ERROR DETECTION. **2019**, 8, 15
- 157 DESIGN AND IMPLEMENTATION OF COMBINATIONAL CIRCUITS USING SIGNAL DISTRIBUTION NETWORK FOR QUANTUM DOT CELLULAR AUTOMATA. **2019**, 7, 41

156	A Redundant Adder Architecture in Ternary Quantum-Dot Cellular Automata. 2020 , 375-384	0
155	QCA based binary adder-subtractor. 2019 , 18-25	
154	Introduction. 2020 , 1-8	
153	QCA Background. 2020 , 9-31	1
152	An Efficient Layout of Single-Layer Full Adder Using QCA. 2020 , 165-172	
151	Inversion Optimization Strategy Based on Primitives with Complement Attributes. 2021 , 36, 1145-1154	1
150	New polarization and power calculations with error elimination in ternary QCA. 2021 , 96, 107557	3
149	Area Efficient Multilayer Designs of XOR Gate Using Quantum Dot Cellular Automata. 2020 , 693-705	
148	An Efficient Design of Multi-logic Gates Using Quantum Cellular Automata Architecture. 2020 , 617-625	
147	LFSR-Keyed MUX for Random Number Generation in Nano Communication Using QCA. 2020 , 70-83	
146	Design and simulation of efficient combinational circuits based on a new XOR structure in QCA technology. 2021 , 53, 1	2
145	Cellular Nanocomputers. 28-42	
144	Bipolar Quantum Lattice and Dynamic Triangular Norms. 97-128	
143	Reversible priority encoder design and implementation using quantum-dot cellular automata. 2020 , 1, 72-78	2
142	Towards the design of molecular cells for quantum cellular automata: critical reconsideration of the parameter regime for achieving functionality.. 2021 , 51, 286-302	1
141	Quantum cellular automata algorithm for automatic detection of hydrocarbon exploration zones. 2022 , 301-323	1
140	Design of Full Adder and Parity Generator Based on Reversible Logic. 2021 ,	0
139	Design of Nanoscale TIEO-Based Arithmetic Circuits Using QCA Implementation Paradigm. 2022 , 663-676	

- 138 Design of Majority Logic Based 4-bit Approximate Subtractors and its Application in Divider. **2021**,
- 137 A creative concept for designing and simulating quaternary logic gates in quantum-dot cellular automata. **2021**, 22, 1541-1550 ○
- 136 A Design Methodology of Line Feedback Shift Registers With Quantum Cellular Automata. **2021**, 2, 129-139 ○
- 135 Electronic energy levels of porphyrins are influenced by the local chemical environment.. **2022**, 12, 1361-1365 1
- 134 Low power design methodology in quantum-dot cellular automata. **2022**, 97, 107638 1
- 133 A new fingerprint authentication coplanar scheme based on quantum-dot cellular automata. **2022**, 251, 168463 ○
- 132 A new design for programmable logic array based on QCA-based nanotechnology. **2022**, 253, 168581 1
- 131 An Area-efficient 2 To 4 Decoder Design Based on Quantum Dot Cellular Automata. **2021**, ○
- 130 Introduction. **2022**, 1-5
- 129 Preliminaries. **2022**, 7-35
- 128 Impact of Molecular Electrostatics on Field-Coupled Nanocomputing and Quantum-Dot Cellular Automata Circuits. **2022**, 11, 276 1
- 127 Towards the realization of regular clocking-based QCA circuits using genetic algorithm. **2022**, 97, 107640 4
- 126 Design and implementation of efficient QCA full-adders using fault-tolerant majority gates. 1 ○
- 125 Design and energy dissipation analysis of simple QCA multiplexer for nanocomputing. 1 1
- 124 Z-Voter: a novel high-impedance voter for efficient realization of tristate logic in quantum-dot cellular automata technology. 1 ○
- 123 Molecular reorganization energy in quantum-dot cellular automata switching. **2022**, 131, 044502 1
- 122 Energy-aware estimation and management models for quantum dot cellular automata. **2022**, 254, 168654 ○
- 121 Regular clocking-based Automated Cell Placement technique in QCA targeting sequential circuit. **2022**, 98, 107668 ○

120	Non-Restoring Array Divider Using Optimized CAS Cells Based on Quantum-Dot Cellular Automata with Minimized Latency and Power Dissipation for Quantum Computing.. 2022 , 12,	0
119	Low-Cost Three-Bit Counter Design in Quantum-Dot Cellular Automata Technology. 1-8	
118	STQCA-FFT: A fast fourier transform architecture using stack-type QCA approach with power and delay reduction. 2022 , 60, 101594	0
117	Development of Test Pattern Generation for QCA-Based Circuits. 2022 , 801-811	
116	Design and Analysis of Area and Energy-Efficient Quantum-Dot Half Adder Using Intercellular Interaction Technique. 2022 , 679-686	
115	A Novel Architecture for Binary Code to Gray Code Converter Using Quantum Cellular Automata. 2022 , 43-61	1
114	A Novel Three-Input XOR Gate Based on Quantum Dot-Cellular Automata with Power Dissipation Analysis.	0
113	Design and implementation of a nano magnetic logic barrel shifter using beyond-CMOS technology. 2022 , 73, 1-10	0
112	High-performance adder using a new XOR gate in QCA technology. 1	1
111	Wire-Crossings Optimization Based on Majority-of-Five and XOR-of-Three Primitives in QCA. 2022 , 61, 1	
110	A Model for the Evaluation of Monostable Molecule Signal Energy in Molecular Field-Coupled Nanocomputing. 2022 , 12, 13	
109	Survey, taxonomy, and methods of QCA based design techniques [part II: reliability and security.	1
108	Survey, taxonomy, and methods of QCA based design techniques [part I: digital circuits.	0
107	Efficient design of dual-mode nano counter: An approach using quantum dot cellular automata.	0
106	An Area-Efficient Majority Logic-Based Approximate Adders with Low Delay for Error-Resilient Applications. 1	
105	A deep analysis of the image and video processing techniques using nanoscale quantum-dots cellular automata. 2022 , 169036	0
104	An energy efficient high-speed quantum-dot based full adder design and parity gate for nano application. 2022 ,	0
103	Asymmetric, mixed-valence molecules for spectroscopic readout of quantum-dot cellular automata. <i>Nanotechnology</i> , 2021 ,	3.4 1

- 102 Review on Nanoelectronic computing approach: Quantum Dot Cellular Automata. **2021**,
- 101 Innovation Quinary and n -Value toward Fuzzy Logic QCA Cell Design. **2022**, 5, 2100304 1
- 100 Quantum Dot Cellular Automata-Based Design of 4 \times 4 TKG Gate and Multiplier with Energy Dissipation Analysis. **2022**, 809-825
- 99 Designing a Content-Addressable Memory Cell Using Multiplexer in Quantum-Dot Cellular Automata.
- 98 High performance 2 n :1:2 n reversible MUX / DMUX architecture for quantum dot cellular automata. 0
- 97 Novel single-trit comparator circuits in ternary quantum-dot cellular automata. 0
- 96 Quantum-dot cellular automata based design of multifunction binary right shifter circuit. **2022**, 101, 107998 0
- 95 Design of efficient binary-coded decimal adder in QCA technology with a regular clocking scheme. **2022**, 101, 107999 0
- 94 An efficient Design of 1:2 Demultiplexer Based on QCA technology. **2022**,
- 93 Energy Analysis of Metal QCA Circuits Behavior Based on Particle-Wave Duality. 1-11
- 92 Chemical Characterization of a Three-Dimensional Double-Decker Molecule on a Surface via Scanning-Tunneling-Microscopy-Based Tip-Enhanced Raman Spectroscopy. 3
- 91 RSCV: Reversible Select, cross and variation architecture in quantum-dot cellular automata. 0
- 90 A new three-level design of nano-scale subtractor based on Coulomb interaction of quantum dots.
- 89 New Methodology for the Design of Nanostructured Integrated Circuits. **2022**, 18,
- 88 Quantum LFSR Structure for Random Number Generation Using QCA Multilayered Shift Register for Cryptographic Purposes.. **2022**, 22, 0
- 87 Designing digital circuits based on quantum-dots cellular automata using nature-inspired metaheuristic algorithms: A systematic literature review. **2022**, 169251
- 86 Controllable Electron Transfer in Mixed-Valence Bridged Norbornylogous Compounds: Calculation Combined with a Parametric Model and Through-Bond and Through-Space Interpretation.. **2022**, 1
- 85 A New Design for Testability of the Circuits based on Quantum-Dot Cellular Automata to Reduce Total Consumption Area. **2022**, 169266 0

84	Reversible Logic Based 1-bit Comparator using QCA. 2022,	
83	Majority logic based area-delay efficient 1-bit approximate adder for error-tolerant applications.	
82	Cost Efficient Design Of Error Detection Circuit For Nano Communication. 2022,	
81	Reliable adder and multipliers in QCA technology.	0
80	Clocked molecular quantum-dot cellular automata circuits tolerate unwanted external electric fields. 2022, 131, 234304	0
79	Image encryption with quantum cellular neural network. 2022, 21,	2
78	An extensible architecture of 32-bit ALU for high-speed computing in QCA technology.	0
77	Novel optimized ultra-dense 1-bit magnitude comparator design in quantum-dot cellular automata technology based on MV32 gate.	0
76	A fault-tolerant image processor for executing the morphology operations based on a nanoscale technology.	
75	Design of SSG -1 gate-based cost-efficient reversible digital circuits using quantum-dot cellular automata technology.	0
74	Using a nanoscale technology for designing fault-tolerant 2:1 multiplexer based on a majority gate.	
73	Next generation QCA technology based true random number generator for cryptographic applications. 2022, 126, 105502	1
72	Design and implementation of an N \times B2-bit SRAM in QCA using coplanar wire-crossing network. 2022, 266, 169577	0
71	Beyond CMOS. 2021,	0
70	Robust Electric-Field Input Circuits for Clocked Molecular Quantum-Dot Cellular Automata. 2022, 21, 424-433	1
69	Design and Implementation of Effective Hybrid Reversible Multilayer Vedic Multiplier Using QCA-ST. 2022,	
68	Analysis and design of a new fault-tolerant digital comparator based on nano-scale quantum technology. 2022, 34,	0
67	Hexagons are the bestagons. 2022,	

- 66 Impact of different types of input wire on defect-tolerance of QCA majority voter. **2022**, 137,
- 65 Taming Molecular Field-Coupling for Nanocomputing Design.
- 64 Design of novel area-efficient coplanar reversible arithmetic and logic unit with an energy estimation in quantum-dot cellular automata. ○
- 63 Introducing scalable 1-bit full adders for designing quantum-dot cellular automata arithmetic circuits. **2022**, 23, 1264-1276
- 62 Vibronic recovering of functionality of quantum cellular automata based on bi-dimeric square cells with violated condition of strong Coulomb repulsion. **2022**, 157, 074308 1
- 61 Designing boron-cluster-centered zwitterionic Y-shaped clocked QCA molecules. 1
- 60 A New Fault-Tolerant Single-Bit Comparator in QCA Technology Using a Novel X-NOR Gate. **2022**, 169837 ○
- 59 Functional Properties of Tetrameric Molecular Cells for Quantum Cellular Automata: A Quantum-Mechanical Treatment Extended to the Range of Arbitrary Coulomb Repulsion. **2022**, 8, 92
- 58 Novel design of reversible latches using feynman gate and implementation of reversible combinational circuits. ○
- 57 Design of Efficient AI Accelerator Building Blocks in Quantum Dot Cellular Automata (QCA). **2022**, 1-1 ○
- 56 Implementation and Performance Evaluation of Binary to Gray Code Converter Using Quantum Dot Cellular Automata. **2022**, 299-321 ○
- 55 A Secure Communication Gateway with Parity Generator Implementation in QCA Platform. **2022**, 197-209 ○
- 54 Logic Realization of Galois Field for AES SBOX using Quantum Dot Cellular Automata. ○
- 53 High Speed Comparator and Parity generator in QCA based on optimal XOR structure. **2022**, ○
- 52 Design and Implementation of an Efficient QCA-Based Multilayer Multi-Bit Parallel Shift Register Using Reversible Level-Sensitive DFFlip-Flop. **2023**, 57-70 ○
- 51 Energy estimation of QCA circuits: An investigation with multiplexers. **2022**, 73, 276-283 ○
- 50 A novel reversible 2n multiplexer scheme in quantum-dot cellular automata. **2022**, 54, ○
- 49 Design of an efficient QCA-based median filter with energy dissipation analysis. ○

- 48 Novel Area Effective Designs for Full Adder and Full Subtractor Using QCA. **2023**, 1-13 ○
- 47 Design and implementation of an efficient multilayer, Multibit Barrel-Shifter using QCA with reversibility and stability. ○
- 46 A novel efficient coplanar QCA full adder and full subtractor design. 1-16 ○
- 45 Cost-effective synthesis of QCA logic circuit using genetic algorithm. ○
- 44 Novel circuit design for reversible multilayer ALU in QCA technology. ○
- 43 A novel design of a dependable and fault-tolerant multi-layer banyan network based on a crossbar switch for nano communication. ○
- 42 Framework for QCA Layout Generation and Rules for Rotated Cell Design. ○
- 41 Quantum dot cellular automata: A new paradigm for digital design. 33-43 2
- 40 Novel Ultra-Energy-Efficient Reversible Designs of Sequential Logic Quantum-Dot Cellular Automata Flip-Flop Circuits. ○
- 39 Quantum-dot cellular automata-based design for three-level nanoscale full-subtractor. **2022**, ○
- 38 Decimal to Excess-3 and Excess-3 to Decimal Code Converters in QCA Nanotechnology. ○
- 37 Metastable SR Flip-Flop Based True Random Number Generator Using QCA Technology. **2022**, 292-304 ○
- 36 Novel Clos Digital Cross-Connect Switch Using Quantum Dot Cellular Automata (QCA). **2023**, 45, 2901-2917 ○
- 35 QCA Technology Based 8-Bit TRNG Design for Cryptography Applications. **2022**, 345-357 ○
- 34 Novel high-performance QCA Fredkin gate and designing scalable QCA binary to gray and vice versa. ○
- 33 Logic Synthesis Method for Quantum-dot Cellular Automata Circuits. **2022**, ○
- 32 Multi-Layered QCA Content-Addressable Memory Cell Using Low-Power Electronic Interaction for AI-Based Data Learning and Retrieval in Quantum Computing Environment. **2023**, 23, 19 ○
- 31 Design of novel low power architectures of 4:2, 5:2 compressors and 2-bit counter using 7 nm FinFET technology. ○

- 30 An ultra-area-efficient ALU design in QCA technology using synchronized clock zone scheme. ○
- 29 The Abstraction of XOR Gate Using Reversible Logic. **2023**, 879-890 ○
- 28 Autonomous Estimation of High-Dimensional Coulomb Diamonds from Sparse Measurements. **2022**, 18, 1
- 27 Design of a reversible ALU using a novel coplanar reversible full adder and MF gate in QCA nanotechnology. **2023**, 55, ○
- 26 Implementation of digital differentiator and digital integrator using quantum dot cellular automata. ○
- 25 Quantum-Dot Cellular Automata-Based Full Adder Design: Comprehensive Review and Performance Comparison. **2023**, 2023, 1-13 1
- 24 Design of Cost-Efficient SRAM Cell in Quantum Dot Cellular Automata Technology. **2023**, 12, 367 ○
- 23 Compact D Flip Flop in Quantum Dot Cellular Automata for Digital System. **2022**, ○
- 22 New Architecture for Multi-stage Interconnection network with QCA. **2022**, ○
- 21 Novel circuit design for content-addressable memory in QCA technology. ○
- 20 Emerging non-CMOS devices and technologies. **2023**, 263-303 ○
- 19 Design of QCA-Based BCD Adder. **2023**, 893-901 ○
- 18 Design of QCA-Based 2 to 1 Multiplexer. **2023**, 791-798 ○
- 17 Design of QCA-Based 1-Bit Magnitude Comparator. **2023**, 809-816 ○
- 16 Design and Implementation of Advanced Re-Configurable Quantum-Dot Cellular Automata-Based (Q-DCA) n-Bit Barrel-Shifter Using Multilayer 8:1 MUX with Reversibility. **2023**, 35-51 ○
- 15 Efficient architecture for arithmetic designs using perpendicular NanoMagnetic Logic. **2023**, 36, 100454 ○
- 14 Mixed-valence realizations of quantum dot cellular automata. **2023**, 177, 111303 1
- 13 Design of QCA based N-bit single layer shift register using efficient JK Flip Flop for nano-communication applications. **2023**, 36, 100443 ○

- 12 A reversible system based on hybrid toggle radius-4 cellular automata and its application as a block cipher. ○
- 11 Quantum-dot cellular automata based design for overflow detection in two's complement arithmetic operation. ○
- 10 Analytical method for cell displacement defect quantum-dot cellular automata primitive. **2023**, 21, 100183 ○
- 9 Charge States, Triple Points, and Quadruple Points in an InAs Nanowire Triple Quantum Dot Revealed by an Integrated Charge Sensor. 2200158 ○
- 8 Challenges and Future Perspectives of Low-Power VLSI Circuits: A Study. **2023**, 561-569 ○
- 7 Novel ultra-energy-efficient reversible designs of sequential logic quantum-dot cellular automata flip-flop circuits. ○
- 6 Design of T Flip-Flop Based on QCA Technology. **2023**, 127-134 ○
- 5 Exploring the potential as molecular quantum-dot cellular automata of a mixed-valence Ru₂ complex deposited on a Au(111) surface. **2023**, 10, 2484-2492 ○
- 4 A Reversible Hybrid Architecture for Multilayer Memory Cell in Quantum-Dot Cellular Automata with Minimized Area and Less Delay. **2023**, 153-170 ○
- 3 Polaronic Mechanism of Vibronic Localization in Mixed-Valence Cation Radicals with a Non-Conjugated Chromophore on the Bridge. **2023**, 127, 3281-3292 ○
- 2 Exploring ECA Rules With Quantum-Dot Cellular Automata. **2022**, ○
- 1 Scrambling in quantum cellular automata. **2023**, 107, ○