

Reza Sabbaghi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	New Design of Binary to Ternary Converter. IETE Journal of Research, 2023, 69, 2212-2223.	2.6	7
2	Energy Analysis of Metal QCA Circuits Behavior Based on Particle-Wave Duality. IETE Journal of Research, 2023, 69, 8307-8317.	2.6	1
3	Process validation test of CNTFET using Stanford model. International Journal of Electronics, 2022, 109, 1-22.	1.4	2
4	Realization of processing-in-memory using binary and ternary quantum-dot cellular automata. Journal of Supercomputing, 2022, 78, 6846-6874.	3.6	5
5	Toward Quaternary QCA: Novel Majority and XOR Fuzzy Gates. IEEE Access, 2022, 10, 38511-38522.	4.2	2
6	Physical proof and design of ternary full adder circuit in ternary <scp>quantum-dot cellular automata</scp> technology. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, .	1.9	5
7	Innovation Quinary and <i>n</i>-Value toward Fuzzy Logic QCA Cell Design. Advanced Theory and Simulations, 2022, 5, .	2.8	5
8	Novel single-trit comparator circuits in ternary quantum-dot cellular automata. Analog Integrated Circuits and Signal Processing, 2022, 111, 353-370.	1.4	3
9	Modeling of molecular ternary logic gates and circuits based on diode structures. Journal of Molecular Modeling, 2022, 28, 130.	1.8	1
10	Novel ternary adders and subtractors in quantum cellular automata. Journal of Supercomputing, 2022, 78, 18454-18496.	3.6	2
11	Investigating multiple defects on a new fault-tolerant three-input QCA majority gate. Journal of Supercomputing, 2021, 77, 8305-8325.	3.6	17
12	TQCAsim: An Accurate Design and Essential Simulation Tool for Ternary Logic Quantum-Dot Cellular Automata. Scientia Iranica, 2021, .	0.4	4
13	A ring oscillator with very low phase noise and wide frequency range using carbon nanotube technology for PLL applications. Analog Integrated Circuits and Signal Processing, 2021, 107, 511-528.	1.4	4
14	A <scp>CNT</scp> based <scp>VCO</scp> with extremely low phase noise and wide frequency range for <scp>PLL</scp> application. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2891.	1.9	1
15	A multi-stage sigma-delta modulator based on noise-coupling and digital feed-forward techniques. Analog Integrated Circuits and Signal Processing, 2021, 108, 253-266.	1.4	1
16	Design and Simulation of Innovative QCA Quaternary-Logic-Gates. Advanced Theory and Simulations, 2021, 4, 2100069.	2.8	4
17	All-optical half adder based on non-linear triangular lattice photonic crystals with improved contrast ratio. IET Optoelectronics, 2021, 15, 20-26.	3.3	7
18	New polarization and power calculations with error elimination in ternary QCA. Computers and Electrical Engineering, 2021, 96, 107557.	4.8	15

#	ARTICLE	IF	CITATIONS
19	A creative concept for designing and simulating quaternary logic gates in quantum-dot cellular automata. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2021, 22, 1541-1550.	2.6	3
20	Introducing an optimal QCA crossbar switch for baseline network. <i>Facta Universitatis - Series Electronics and Energetics</i> , 2021, 34, 445-460.	0.9	4
21	Design of testable reversible latches by using a novel efficient implementation of Fredkin gate. <i>International Journal of Electronics</i> , 2020, 107, 859-878.	1.4	11
22	Creation of a fast optical Toffoli gate based on photonic crystal nonlinear ring resonators. <i>Journal of Computational Electronics</i> , 2020, 19, 1281-1287.	2.5	29
23	Study of hole-blocking and electron-blocking layers in a InAs/GaAs multiple quantum-well solar cell. <i>Facta Universitatis - Series Electronics and Energetics</i> , 2020, 33, 477-487.	0.9	0
24	Design of a Ternary Logical Circuit Using the Au-DNA-Ag Memristor. <i>Journal of Electronic Materials</i> , 2019, 48, 6261-6268.	2.2	6
25	An ultra fast optical reversible gate based on electromagnetic scattering in nonlinear photonic crystal resonant cavities. <i>Optical Materials</i> , 2019, 94, 371-377.	3.6	29
26	Design of a ternary QCA multiplier and multiplexer: a model-based approach. <i>Analog Integrated Circuits and Signal Processing</i> , 2019, 101, 23-29.	1.4	8
27	Designing optical gates using metal-organic-metal transmission lines with multivalued and reconfigurable characteristics. <i>Journal of Nanophotonics</i> , 2019, 13, 1.	1.0	5
28	DNA implementation for optical waveguide as a switchable transmission line and memristor. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	14
29	Innovative model for ternary QCA gates. <i>IET Circuits, Devices and Systems</i> , 2018, 12, 189-195.	1.4	24
30	Optimum Design of ARC-less InGaP/GaAs DJ Solar Cell with Hetero Tunnel Junction. <i>Journal of Electronic Materials</i> , 2018, 47, 3585-3595.	2.2	2
31	Designing and Optimizing DNA Reversible Adders and Adder/Subtractors. <i>BioNanoScience</i> , 2018, 8, 118-130.	3.5	3
32	Three-leg molecular transistors as molecular logic circuits: Design and modeling. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850234.	2.0	2
33	Designing ternary quantum-dot cellular automata logic circuits based upon an alternative model. <i>Computers and Electrical Engineering</i> , 2018, 71, 43-59.	4.8	26
34	Optical Toffoli and Feynman reversible gates designing using DNA transmission lines. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	9
35	Introducing a novel high-efficiency arc less heterojunction DJ solar cell. <i>Facta Universitatis - Series Electronics and Energetics</i> , 2018, 31, 89-100.	0.9	0
36	Novel 8-bit reversible full adder/subtractor using a QCA reversible gate. <i>Journal of Computational Electronics</i> , 2017, 16, 459-472.	2.5	34

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37	Design and evaluation of ARC less InGaP/AlGaInP DJ solar cell. Optik, 2017, 136, 487-496.	2.9	4
38	Designing and Modeling of Logic Circuits Based on Switching of the Gated Oligo-Phenylenevinylene Molecule. Journal of Nano Research, 2017, 46, 82-92.	0.8	3
39	Introducing a Novel Reversible Deoxyribonucleic Acid-Based Memory. Journal of Computational and Theoretical Nanoscience, 2017, 14, 4000-4008.	0.4	1
40	Introducing a novel model based on particle wave duality for energy dissipation analysis in MQCA circuits. Journal of Computational Electronics, 2016, 15, 683-696.	2.5	5
41	Influence of doped Alq3 layer on performance of MEH-PPV, MDMO-PPV, and P3HT polymer light-emitting diodes. Optical and Quantum Electronics, 2016, 48, 1.	3.3	4
42	Design of all-optical tunable filter based on two-dimensional photonic crystals for WDM (wave) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2016, 39, 971-976.	1.1	21
43	Current density of anodes, recombination rate and luminance in MEH-PPV, MDMO-PPV, and P3HT polymers in polymer light-emitting diodes. Polymer Science - Series A, 2016, 58, 726-731.	1.0	3
44	Optimization of quantum networks using novel non-blocking optical switches. Optical Switching and Networking, 2016, 22, 69-76.	2.0	3
45	Design of New QCA LFSR and NLFSR for Grain-128 Stream Cipher. Journal of Circuits, Systems and Computers, 2016, 25, 1650005.	1.5	7
46	A Novel Quantum-Dot Cellular Automata $\times 32$ bit SRAM. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016, 24, 827-836.	3.1	48
47	A novel all optical reversible 4 \times 2 encoder based on photonic crystals. Optik, 2015, 126, 2368-2372.	2.9	75
48	DC motor speed control by self-tuning fuzzy PID algorithm. Transactions of the Institute of Measurement and Control, 2015, 37, 164-176.	1.7	39
49	A new encryption algorithm for color images based on total chaotic shuffling scheme. Optik, 2015, 126, 2474-2480.	2.9	22
50	Improvement of Power and Performance in NAND and D-Latch Gates Using CNFET Technology. Journal of Nano Research, 2015, 33, 126-136.	0.8	0
51	Analytical performance modeling of de Bruijn inspired mesh-based network-on-chips. Microprocessors and Microsystems, 2015, 39, 27-36.	2.8	4
52	A novel QCA implementation of MUX-based universal shift register. Journal of Computational Electronics, 2014, 13, 198-210.	2.5	85
53	A conventional design and simulation for CLB implementation of an FPGA quantum-dot cellular automata. Microprocessors and Microsystems, 2014, 38, 1046-1062.	2.8	33
54	A novel quantum-dot cellular automata CLB of FPGA. Journal of Computational Electronics, 2014, 13, 709-725.	2.5	25

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55	A novel design of 8-bit adder/subtractor by quantum-dot cellular automata. Journal of Computer and System Sciences, 2014, 80, 1404-1414.	1.2	96
56	Multicast Algorithm for 2D de Bruijn NoCs. Studies in Computational Intelligence, 2014, , 235-249.	0.9	0
57	Analytical performance modeling of shuffleâ€exchange inspired mesh-based Network-on-Chips. Performance Evaluation, 2013, 70, 934-947.	1.2	2
58	Optimization of data mining with evolutionary algorithms for cloud computing application. , 2013, , .		6
59	Two Novel Quantum-Dot Cellular Automata Full Adders. Journal of Engineering (United States), 2013, 2013, 1-6.	1.0	12
60	Introducing Graphene-Based Nanosensor for Gas Detection Sensors. Nanoscience and Nanotechnology Letters, 2013, 5, 630-636.	0.4	4
61	A conventional design for CLB implementation of a FPGA in quantum-dot cellular automata (QCA). , 2012, , .		20
62	Motion of CNT in Blood and Distilled water under AC electric field at high frequencies. , 2012, , .		0
63	Control of CNT motion in Distilled water and IPA under dielectrophoresis force. , 2012, , .		0
64	An Adaptive Fuzzy Routing Algorithm for NoCs. , 2012, , .		0
65	A novel design and simulation of 16 bits RAM implementation in quantum-dot cellular automata (QCA). , 2012, , .		2
66	A novel design and successful simulation of QCA-based multiplexer. , 2012, , .		1
67	The 2D digraph-based NoCs: attractive alternatives to the 2D mesh NoCs. Journal of Supercomputing, 2012, 59, 1-21.	3.6	10
68	FSL: A novel topology for on-Chip-Networks. , 2011, , .		0
69	Eyelid and eyelash segmentation based on wavelet transform for iris recognition. , 2011, , .		14
70	A Novel Modular Decoder Implementation in Quantum-Dot Cellular Automata (QCA). , 2011, , .		26
71	An Effective Method for Eyelashes Segmentation Using Wavelet Transform. , 2011, , .		6
72	Sphere based topology: A novel idea for NoCs. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	The 2D SEM: A novel high-performance and low-power mesh-based topology for networks-on-chip. International Journal of Parallel, Emergent and Distributed Systems, 2010, 25, 331-344.	1.0	6
74	The Shuffle-Exchange Mesh Topology for 3D NoCs. Parallel Architectures, Algorithms and Networks (I-SPAN), Proceedings of the International Symposium on, 2008, , .	0.0	7
75	A novel high-performance and low-power mesh-based NoC. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	5
76	The 2D DBM: An attractive alternative to the simple 2D mesh topology for on-chip networks. , 2008, , .		7
77	The Kautz mesh: A new topology for SoCs. , 2008, , .		10
78	All-optical half adder based on triangular lattice photonic crystals with uniform structural parameters. Photonic Network Communications, 0, , 1.	2.7	0