

Reza Sabbaghi

List of Publications by Year in descending order

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papers

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623734

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all docs

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docs citations

79
times ranked

459
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A novel QCA implementation of MUX-based universal shift register. Journal of Computational Electronics, 2014, 13, 198-210.	2.5	85
3	A novel all optical reversible 4×2 encoder based on photonic crystals. Optik, 2015, 126, 2368-2372.	2.9	75
4	A Novel Quantum-Dot Cellular Automata $n \times m$ bit 32×32 SRAM. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016, 24, 827-836.	3.1	48
5	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
6	Novel 8-bit reversible full adder/subtractor using a QCA reversible gate. Journal of Computational Electronics, 2017, 16, 459-472.	2.5	34
7	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
8	An ultra fast optical reversible gate based on electromagnetic scattering in nonlinear photonic crystal resonant cavities. Optical Materials, 2019, 94, 371-377.	3.6	29
9	Creation of a fast optical Toffoli gate based on photonic crystal nonlinear ring resonators. Journal of Computational Electronics, 2020, 19, 1281-1287.	2.5	29
10	A Novel Modular Decoder Implementation in Quantum-Dot Cellular Automata (QCA)., 2011, , .		26
11	Designing ternary quantum-dot cellular automata logic circuits based upon an alternative model. Computers and Electrical Engineering, 2018, 71, 43-59.	4.8	26
12	A novel quantum-dot cellular automata CLB of FPGA. Journal of Computational Electronics, 2014, 13, 709-725.	2.5	25
13	Innovative model for ternary QCA gates. IET Circuits, Devices and Systems, 2018, 12, 189-195.	1.4	24
14	A new encryption algorithm for color images based on total chaotic shuffling scheme. Optik, 2015, 126, 2474-2480.	2.9	22
15	Design of all-optical tunable filter based on two-dimensional photonic crystals for WDM (wave) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'uan, 2016, 39, 971-976.	1.1	21
16	A conventional design for CLB implementation of a FPGA in quantum-dot cellular automata (QCA)., 2012, , .		20
17	Investigating multiple defects on a new fault-tolerant three-input QCA majority gate. Journal of Supercomputing, 2021, 77, 8305-8325.	3.6	17
18	New polarization and power calculations with error elimination in ternary QCA. Computers and Electrical Engineering, 2021, 96, 107557.	4.8	15

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19	Eyelid and eyelash segmentation based on wavelet transform for iris recognition. , 2011, , .		14
20	DNA implementation for optical waveguide as a switchable transmission line and memristor. Optical and Quantum Electronics, 2018, 50, 1.	3.3	14
21	Two Novel Quantum-Dot Cellular Automata Full Adders. Journal of Engineering (United States), 2013, 2013, 1-6.	1.0	12
22	Design of testable reversible latches by using a novel efficient implementation of Fredkin gate. International Journal of Electronics, 2020, 107, 859-878.	1.4	11
23	The Kautz mesh: A new topology for SoCs. , 2008, , .		10
24	The 2D digraph-based NoCs: attractive alternatives to the 2D mesh NoCs. Journal of Supercomputing, 2012, 59, 1-21.	3.6	10
25	Optical Toffoli and Feynman reversible gates designing using DNA transmission lines. Optical and Quantum Electronics, 2018, 50, 1.	3.3	9
26	Design of a ternary QCA multiplier and multiplexer: a model-based approach. Analog Integrated Circuits and Signal Processing, 2019, 101, 23-29.	1.4	8
27	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
28	The 2D DBM: An attractive alternative to the simple 2D mesh topology for on-chip networks. , 2008, , .		7
29	Design of New QCA LFSR and NLFSR for Grain-128 Stream Cipher. Journal of Circuits, Systems and Computers, 2016, 25, 1650005.	1.5	7
30	New Design of Binary to Ternary Converter. IETE Journal of Research, 2023, 69, 2212-2223.	2.6	7
31	All-optical half adder based on nonlinear triangular lattice photonic crystals with improved contrast ratio. IET Optoelectronics, 2021, 15, 20-26.	3.3	7
32	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
33	An Effective Method for Eyelashes Segmentation Using Wavelet Transform. , 2011, , .		6
34	Optimization of data mining with evolutionary algorithms for cloud computing application. , 2013, , .		6
35	Design of a Ternary Logical Circuit Using the Au-DNA-Ag Memristor. Journal of Electronic Materials, 2019, 48, 6261-6268.	2.2	6
36	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

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37	Introducing a novel model based on particle wave duality for energy dissipation analysis in MQCA circuits. <i>Journal of Computational Electronics</i> , 2016, 15, 683-696.	2.5	5
38	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
39	Realization of processing-in-memory using binary and ternary quantum-dot cellular automata. <i>Journal of Supercomputing</i> , 2022, 78, 6846-6874.	3.6	5
40	Physical proof and design of ternary full adder circuit in ternary quantum-dot cellular automata technology. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2022, 35, .	1.9	5
41	Innovation Quinary and Value toward Fuzzy Logic QCA Cell Design. <i>Advanced Theory and Simulations</i> , 2022, 5, .	2.8	5
42	Analytical performance modeling of de Bruijn inspired mesh-based network-on-chips. <i>Microprocessors and Microsystems</i> , 2015, 39, 27-36.	2.8	4
43	Influence of doped Alq3 layer on performance of MEH-PPV, MDMO-PPV, and P3HT polymer light-emitting diodes. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	4
44	Design and evaluation of ARC less InGaP/AlGaInP DJ solar cell. <i>Optik</i> , 2017, 136, 487-496.	2.9	4
45	TQCAsim: An Accurate Design and Essential Simulation Tool for Ternary Logic Quantum-Dot Cellular Automata. <i>Scientia Iranica</i> , 2021, .	0.4	4
46	A ring oscillator with very low phase noise and wide frequency range using carbon nanotube technology for PLL applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2021, 107, 511-528.	1.4	4
47	Design and Simulation of Innovative QCA Quaternary Logic Gates. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100069.	2.8	4
48	Introducing Graphene-Based Nanosensor for Gas Detection Sensors. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 630-636.	0.4	4
49	Introducing an optimal QCA crossbar switch for baseline network. <i>Facta Universitatis - Series Electronics and Energetics</i> , 2021, 34, 445-460.	0.9	4
50	Current density of anodes, recombination rate and luminance in MEH-PPV, MDMO-PPV, and P3HT polymers in polymer light-emitting diodes. <i>Polymer Science - Series A</i> , 2016, 58, 726-731.	1.0	3
51	Optimization of quantum networks using novel non-blocking optical switches. <i>Optical Switching and Networking</i> , 2016, 22, 69-76.	2.0	3
52	Designing and Modeling of Logic Circuits Based on Switching of the Gated Oligo-Phenylenevinylene Molecule. <i>Journal of Nano Research</i> , 2017, 46, 82-92.	0.8	3
53	Designing and Optimizing DNA Reversible Adders and Adder/Subtractors. <i>BioNanoScience</i> , 2018, 8, 118-130.	3.5	3
54	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

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55	Novel single-trit comparator circuits in ternary quantum-dot cellular automata. Analog Integrated Circuits and Signal Processing, 2022, 111, 353-370.	1.4	3
56	A novel design and simulation of 16 bits RAM implementation in quantum-dot cellular automata (QCA). , 2012, , .		2
57	Analytical performance modeling of shuffleâ€œexchange inspired mesh-based Network-on-Chips. Performance Evaluation, 2013, 70, 934-947.	1.2	2
58	Optimum Design of ARC-less InGaP/GaAs DJ Solar Cell with Hetero Tunnel Junction. Journal of Electronic Materials, 2018, 47, 3585-3595.	2.2	2
59	Three-leg molecular transistors as molecular logic circuits: Design and modeling. International Journal of Modern Physics B, 2018, 32, 1850234.	2.0	2
60	Process validation test of CNTFET using Stanford model. International Journal of Electronics, 2022, 109, 1-22.	1.4	2
61	Toward Quaternary QCA: Novel Majority and XOR Fuzzy Gates. IEEE Access, 2022, 10, 38511-38522.	4.2	2
62	Novel ternary adders and subtractors in quantum cellular automata. Journal of Supercomputing, 2022, 78, 18454-18496.	3.6	2
63	A novel design and successful simulation of QCA-based multiplexer. , 2012, , .		1
64	Introducing a Novel Reversible Deoxyribonucleic Acid-Based Memory. Journal of Computational and Theoretical Nanoscience, 2017, 14, 4000-4008.	0.4	1
65	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
66	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
67	Modeling of molecular ternary logic gates and circuits based on diode structures. Journal of Molecular Modeling, 2022, 28, 130.	1.8	1
68	Energy Analysis of Metal QCA Circuits Behavior Based on Particle-Wave Duality. IETE Journal of Research, 2023, 69, 8307-8317.	2.6	1
69	FSL: A novel topology for on-Chip-Networks. , 2011, , .		0
70	Sphere based topology: A novel idea for NoCs. , 2011, , .		0
71	Motion of CNT in Blood and Distilled water under AC electric field at high frequencies. , 2012, , .		0
72	Control of CNT motion in Distilled water and IPA under dielectrophoresis force. , 2012, , .		0

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73	An Adaptive Fuzzy Routing Algorithm for NoCs. , 2012, , .		0
74	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
75	Multicast Algorithm for 2D de Bruijn NoCs. Studies in Computational Intelligence, 2014, , 235-249.	0.9	0
76	Introducing a novel high-efficiency arc less heterunction DJ solar cell. Facta Universitatis - Series Electronics and Energetics, 2018, 31, 89-100.	0.9	0
77	Study of hole-blocking and electron-blocking layers in a InaS/GaAs multiple quantum-well solar cell. Facta Universitatis - Series Electronics and Energetics, 2020, 33, 477-487.	0.9	0
78	All-optical half adder based on triangular lattice photonic crystals with uniform structural parameters. Photonic Network Communications, 0, , 1.	2.7	0