

# Kartik Mohanram

## List of Publications by Year in descending order

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52  
papers

1,280  
citations

567281

15  
h-index

752698

20  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1283  
citing authors

#	ARTICLE	IF	CITATIONS
1	ASSET: Architectures for Smart Security of Non-Volatile Memories. , 2019, , .		0
2	STASH: SecuriTy Architecture for Smart Hybrid Memories. , 2018, , .		1
3	ACME: Advanced Counter Mode Encryption for Secure Non-Volatile Memories. , 2018, , .		5
4	ARSENAL: Architecture for Secure Non-Volatile Memories. IEEE Computer Architecture Letters, 2018, 17, 192-196.	1.5	9
5	ASSURE. , 2017, , .		23
6	COVERT: Counter OVERflow ReducTIon for efficient encryption of non-volatlle memories. , 2017, , .		9
7	Virtual Two-Port Memory Architecture for Asymmetric Memory Technologies. , 2017, , .		0
8	Reliable Nonvolatile Memories: Techniques and Measures. IEEE Design and Test, 2017, 34, 31-41.	1.2	37
9	L3EP: Low latency, low energy program-and-verify for triple-level cell phase change memory. , 2017, , .		1
10	CompEx++. Transactions on Architecture and Code Optimization, 2017, 14, 1-30.	2.0	25
11	SECRET. , 2016, , .		45
12	E3R: Energy Efficient Error Recovery for Multi/Triple-Level Cell Non-volatile Memories. , 2016, , .		3
13	Two-Port PCM Architecture for Network Processing. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 2135-2148.	3.1	0
14	MFNW: A Flip-N-Write architecture for multi-level cell non-volatile memories. , 2015, , .		9
15	Compression architecture for bit-write reduction in non-volatile memory technologies. , 2014, , .		7
16	Time-Borrowing Circuit Designs and Hardware Prototyping for Timing Error Resilience. IEEE Transactions on Computers, 2014, 63, 497-509.	3.4	36
17	Mempack: An Order of Magnitude Reduction in the Cost, Risk, and Time for Memory Compiler Certification. , 2013, , .		0
18	Low Cost Concurrent Error Masking Using Approximate Logic Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 1163-1176.	2.7	30

#	ARTICLE	IF	CITATIONS
19	Efficient computation of minimal perturbation sets in gene regulatory networks. <i>Frontiers in Physiology</i> , 2013, 4, 361.	2.8	12
20	Ambipolar circuits for analog, mixed-signal, and radio-frequency applications. , 2012, , .		0
21	High performance reliable variable latency carry select addition. , 2012, , .		10
22	Unequal-error-protection codes in SRAMs for mobile multimedia applications. , 2011, , .		13
23	Static window addition: A new paradigm for the design of variable latency adders. , 2011, , .		6
24	Graphene Ambipolar Multiplier Phase Detector. <i>IEEE Electron Device Letters</i> , 2011, 32, 1328-1330.	3.9	52
25	Graphene Transistors and Circuits. , 2011, , 349-376.		3
26	Modeling and Performance Investigation of the Double-Gate Carbon Nanotube Transistor. <i>IEEE Electron Device Letters</i> , 2011, 32, 231-233.	3.9	16
27	Graphene Nanoribbon FETs: Technology Exploration for Performance and Reliability. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 727-736.	2.0	45
28	An Efficient Gate Library for Ambipolar CNTFET Logic. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2011, 30, 242-255.	2.7	78
29	Dual- $V_{th}$ Independent-Gate FinFETs for Low Power Logic Circuits. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2011, 30, 337-349.	2.7	69
30	Robust 6T Si tunneling transistor SRAM design. , 2011, , .		12
31	TIMBER: Time borrowing and error relaying for online timing error resilience. , 2010, , .		52
32	Bi-decomposition of large Boolean functions using blocking edge graphs. , 2010, , .		9
33	Triple-Mode Single-Transistor Graphene Amplifier and Its Applications. <i>ACS Nano</i> , 2010, 4, 5532-5538.	14.6	168
34	Analytical model for TDDDB-based performance degradation in combinational logic. , 2010, , .		30
35	Power consumption of logic circuits in ambipolar carbon nanotube technology. , 2010, , .		6
36	Novel dual- $V_{th}$ independent-gate FinFET circuits. , 2010, , .		9

#	ARTICLE	IF	CITATIONS
37	Novel library of logic gates with ambipolar CNTFETs: Opportunities for multi-level logic synthesis. , 2009, , .		40
38	Analytical model-based technique for efficient evaluation of noise robustness considering parameter variations. Analog Integrated Circuits and Signal Processing, 2009, 60, 27-34.	1.4	24
39	Soft Error Rate Reduction Using Circuit Optimization and Transient Filter Insertion. Journal of Electronic Testing: Theory and Applications (JETTA), 2009, 25, 197-207.	1.2	19
40	Modeling stochasticity and robustness in gene regulatory networks. Bioinformatics, 2009, 25, i101-i109.	4.1	43
41	Masking timing errors on speed-paths in logic circuits. , 2009, , .		11
42	Reliability Analysis of Logic Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 392-405.	2.7	82
43	Computational model of edge effects in graphene nanoribbon transistors. Nano Research, 2008, 1, 395-402.	10.4	60
44	Analytical Theory of Graphene Nanoribbon Transistors. , 2008, , .		14
45	Graphene nanoribbon FETs: Technology exploration and CAD. , 2008, , .		3
46	Approximate logic circuits for low overhead, non-intrusive concurrent error detection. , 2008, , .		17
47	Tunable Transient Filters for Soft Error Rate Reduction in Combinational Circuits. , 2008, , .		23
48	A model-based technique for efficient evaluation of noise robustness. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	24
49	Parameter-Variation-Aware Analysis for Noise Robustness. , 2007, , .		34
50	Accurate and scalable reliability analysis of logic circuits. , 2007, , .		34
51	Parallel domain decomposition for simulation of large-scale power grids. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2007, , .	0.0	10
52	Design optimization for single-event upset robustness using simultaneous dual-VDD and sizing techniques. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	12