

# Vobulapuram Ramesh Kumar

## List of Publications by Year in descending order

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15  
papers

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1040056

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g-index

16  
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docs citations

16  
times ranked

167  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time and Frequency Domain Analysis of MLG NR Interconnects. IEEE Nanotechnology Magazine, 2015, 14, 484-492.	2.0	65
2	An Accurate FDTD Model for Crosstalk Analysis of CMOS-Gate-Driven Coupled RLC Interconnects. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1185-1193.	2.2	48
3	Stability and delay analysis of multi-layered GNR and multi-walled CNT interconnects. Journal of Computational Electronics, 2015, 14, 611-618.	2.5	43
4	An accurate model for dynamic crosstalk analysis of CMOS gate driven on-chip interconnects using FDTD method. Microelectronics Journal, 2014, 45, 441-448.	2.0	42
5	Graphene Based On-Chip Interconnects and TSVs : Prospects and Challenges. IEEE Nanotechnology Magazine, 2014, 8, 14-20.	1.3	36
6	Carbon Nanotube Based 3-D Interconnects - A Reality or a Distant Dream. IEEE Circuits and Systems Magazine, 2014, 14, 16-35.	2.3	34
7	Crosstalk noise modeling of multiwall carbon nanotube (MWCNT) interconnects using finite-difference time-domain (FDTD) technique. Microelectronics Reliability, 2015, 55, 155-163.	1.7	32
8	Improved crosstalk noise modeling of MWCNT interconnects using FDTD technique. Microelectronics Journal, 2015, 46, 1263-1268.	2.0	22
9	Crosstalk Induced Delay Analysis of Randomly Distributed Mixed CNT Bundle Interconnect. Journal of Circuits, Systems and Computers, 2015, 24, 1550145.	1.5	22
10	Performance analysis of single- and multi-walled carbon nanotube based through silicon vias. , 2015, , .		12
11	Design of MWCNT based Through Silicon Vias with Polymer Liners to Reduce the Crosstalk Effects. ECS Journal of Solid State Science and Technology, 2020, 9, 041002.	1.8	9
12	A prominent unified crosstalk model for linear and sub-threshold regions in mixed CNT bundle interconnects. Microelectronics Journal, 2021, 118, 105294.	2.0	4
13	Accurate Numerical Model for Crosstalk Analysis of SWCNT Bundle Interconnects Using FDTD Method. , 2015, , .		2
14	Crosstalk modeling with width dependent MFP in MLG NR interconnects using FDTD technique. , 2015, , .		2
15	Effect of Skin Impedance on Delay and Crosstalk in Lossy and Non-uniform On-Chip Interconnects. Advances in Intelligent Systems and Computing, 2018, , 569-576.	0.6	1