

# Andres Roldan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/864838/publications.pdf>

Version: 2024-02-01

24  
papers

257  
citations

933447

10  
h-index

940533

16  
g-index

24  
all docs

24  
docs citations

24  
times ranked

319  
citing authors

#	ARTICLE	IF	CITATIONS
1	A SPICE Compact Model for Unipolar RRAM Reset Process Analysis. IEEE Transactions on Electron Devices, 2015, 62, 955-962.	3.0	44
2	Correlation of Plastic Strain Energy and Acoustic Emission Energy in Reinforced Concrete Structures. Applied Sciences (Switzerland), 2016, 6, 84.	2.5	33
3	Analytical compact modeling of GMR based current sensors: Application to power measurement at the IC level. Solid-State Electronics, 2010, 54, 1606-1612.	1.4	24
4	Experimental study of the series resistance effect and its impact on the compact modeling of the conduction characteristics of HfO <sub>2</sub> -based resistive switching memories. Journal of Applied Physics, 2021, 130, .	2.5	22
5	Monitoring of Carbon Fiber-Reinforced Old Timber Beams via Strain and Multiresonant Acoustic Emission Sensors. Sensors, 2018, 18, 1224.	3.8	20
6	Strained-Si on Si/sub 1-x/ mosfet mobility model. IEEE Transactions on Electron Devices, 2003, 50, 1408-1411.	3.0	18
7	An in-depth study on WENO-based techniques to improve parameter extraction procedures in MOSFET transistors. Mathematics and Computers in Simulation, 2015, 118, 248-257.	4.4	14
8	In-depth analysis and modelling of self-heating effects in nanometric DGMOSFETs. Solid-State Electronics, 2013, 79, 179-184.	1.4	13
9	Stability behavior of composite magnetorheological fluids by an induction method. Journal of Intelligent Material Systems and Structures, 2015, 26, 1836-1843.	2.5	12
10	A comprehensive characterization of the threshold voltage extraction in MOSFETs transistors based on smoothing splines. Mathematics and Computers in Simulation, 2014, 102, 1-10.	4.4	11
11	A Space weather information service based upon remote and in-situ measurements of coronal mass ejections heading for Earth. Journal of Space Weather and Space Climate, 2015, 5, A3.	3.3	10
12	A DC behavioral electrical model for quasi-linear spin-valve devices including thermal effects for circuit simulation. Microelectronics Journal, 2011, 42, 365-370.	2.0	9
13	Entropy Analysis for Damage Quantification of Hysteretic Dampers Used as Seismic Protection of Buildings. Applied Sciences (Switzerland), 2017, 7, 628.	2.5	9
14	A spline quasi-interpolation based method to obtain the reset voltage in Resistive RAMs in the charge-flux domain. Journal of Computational and Applied Mathematics, 2019, 354, 326-333.	2.0	7
15	Polynomial pattern finding in scattered data. Journal of Computational and Applied Mathematics, 2017, 318, 107-116.	2.0	4
16	An in-depth noise model for giant magnetoresistance current sensors for circuit design and complementary metal-oxide-semiconductor integration. Journal of Applied Physics, 2014, 115, .	2.5	3
17	Comprehensive study on unipolar RRAM charge conduction and stochastic features: a simulation approach. Journal Physics D: Applied Physics, 2022, 55, 155104.	2.8	3
18	An advanced drain current model for DGMOSFETs including self-heating effects. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	Characterization of electron transport at high fields in silicon-on-insulator devices: a Monte Carlo study. Semiconductor Science and Technology, 2006, 21, 81-86.	2.0	0
20	Teaching opportunities in measurements of magnetic field. , 2018, , .		0
21	Low cost magnetic simulator for attitude control. , 2018, , .		0
22	Software Based AFSK Generation on Arduino. , 2018, , .		0
23	Low-cost Laser Cutter and PCB exposure. , 2018, , .		0
24	Low cost TVAC Chamber for aerospace tests. , 2018, , .		0