

# Andres Roldan

## List of Publications by Year in descending order

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24  
papers

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citations

933447

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h-index

940533

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24  
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24  
docs citations

24  
times ranked

319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive study on unipolar RRAM charge conduction and stochastic features: a simulation approach. Journal Physics D: Applied Physics, 2022, 55, 155104.	2.8	3
2	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
3	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
4	Teaching opportunities in measurements of magnetic field. , 2018, , .		0
5	Low cost magnetic simulator for attitude control. , 2018, , .		0
6	Software Based AFSK Generation on Arduino. , 2018, , .		0
7	Low-cost Laser Cutter and PCB exposure. , 2018, , .		0
8	Low cost TVAC Chamber for aerospace tests. , 2018, , .		0
9	Monitoring of Carbon Fiber-Reinforced Old Timber Beams via Strain and Multiresonant Acoustic Emission Sensors. Sensors, 2018, 18, 1224.	3.8	20
10	Polynomial pattern finding in scattered data. Journal of Computational and Applied Mathematics, 2017, 318, 107-116.	2.0	4
11	Entropy Analysis for Damage Quantification of Hysteretic Dampers Used as Seismic Protection of Buildings. Applied Sciences (Switzerland), 2017, 7, 628.	2.5	9
12	Correlation of Plastic Strain Energy and Acoustic Emission Energy in Reinforced Concrete Structures. Applied Sciences (Switzerland), 2016, 6, 84.	2.5	33
13	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
14	Stability behavior of composite magnetorheological fluids by an induction method. Journal of Intelligent Material Systems and Structures, 2015, 26, 1836-1843.	2.5	12
15	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
16	A SPICE Compact Model for Unipolar RRAM Reset Process Analysis. IEEE Transactions on Electron Devices, 2015, 62, 955-962.	3.0	44
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	In-depth analysis and modelling of self-heating effects in nanometric DGMOSFETs. Solid-State Electronics, 2013, 79, 179-184.	1.4	13
20	An advanced drain current model for DGMOSFETs including self-heating effects. , 2012, , .		1
21	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
22	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
23	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
24	Strained-Si on Si/sub 1-x/ mosfet mobility model. IEEE Transactions on Electron Devices, 2003, 50, 1408-1411.	3.0	18