

# Agis A Iliadis

## List of Publications by Year in descending order

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41  
papers

831  
citations

430874

18  
h-index

477307

29  
g-index

47  
all docs

47  
docs citations

47  
times ranked

977  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Approach and Methods for Optimizing Highly Sensitive Low Noise Amplifier CMOS IC Design for Congested RF Environments. Electronics (Switzerland), 2022, 11, 976.	3.1	1
2	Design and optimization of a CMOS IC novel RF tracking sensor. International Journal of Circuit Theory and Applications, 2021, 49, 801-819.	2.0	3
3	Noise investigation in a spin-based four-qubit GaAs block of self-assembled quantum dots. AIP Advances, 2021, 11, 065126.	1.3	0
4	Modeling a High Linearity, Low Noise Gilbert Cell Mixer using Three Optimization Techniques. , 2020, , .		4
5	Design and characterization of GaN p-i-n diodes for betavoltaic devices. Solid-State Electronics, 2017, 136, 24-29.	1.4	28
6	A surface acoustic wave biofilm sensor integrated with a treatment method based on the bioelectric effect. Sensors and Actuators A: Physical, 2016, 238, 140-149.	4.1	40
7	Fabrication of Si/ZnO vertical n+ and p+ isotype junction devices by pulsed laser deposition. Thin Solid Films, 2015, 595, 181-185.	1.8	1
8	A finite state machine read-out chip for integrated surface acoustic wave sensors. Solid-State Electronics, 2015, 103, 1-6.	1.4	0
9	Organic photovoltaic performance improvement using atomic layer deposited ZnO electron-collecting layers. Solid-State Electronics, 2014, 101, 50-56.	1.4	8
10	A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. IEEE Sensors Journal, 2013, 13, 4264-4270.	4.7	2
11	Observation of conductivity type conversion in undoped ZnO films grown by pulsed laser deposition on silicon (100) substrates. Applied Physics Letters, 2012, 100, 053505.	3.3	9
12	An ALD aluminum oxide passivated Surface Acoustic Wave sensor for early biofilm detection. Sensors and Actuators B: Chemical, 2012, 163, 136-145.	7.8	48
13	Study of conductivity type of undoped ZnO films grown on n and p-type (100) Si substrates by pulsed laser deposition. , 2011, , .		0
14	Properties of Fast Response Room Temperature ZnO-Si Heterojunction Gas Nanosensors. IEEE Nanotechnology Magazine, 2011, 10, 652-656.	2.0	13
15	Reduced molybdenum oxide as an efficient electron injection layer in polymer light-emitting diodes. Applied Physics Letters, 2011, 98, 123301.	3.3	49
16	Operational upsets and critical new bit errors in CMOS digital inverters due to high power pulsed electromagnetic interference. Solid-State Electronics, 2010, 54, 18-21.	1.4	31
17	Crystal quality and conductivity type of (002) ZnO films on (100) Si substrates for device applications. Solid-State Electronics, 2010, 54, 1150-1154.	1.4	12
18	Nanostructured Metal Oxides as Cathode Interfacial Layers for Hybrid-Polymer Electronic Devices. Advances in Science and Technology, 2010, 75, 74-78.	0.2	0

#	ARTICLE	IF	CITATIONS
19	A bacterial biofilm Surface Acoustic Wave sensor for real time biofilm growth monitoring. , 2010, , .		5
20	Theoretical Foundation for Upsets in CMOS Circuits Due to High-Power Electromagnetic Interference. IEEE Transactions on Device and Materials Reliability, 2010, 10, 347-352.	2.0	25
21	An interleukin-6 ZnO/SiO <sub>2</sub> /Si surface acoustic wave biosensor. Biosensors and Bioelectronics, 2008, 24, 313-318.	10.1	73
22	Properties of high sensitivity ZnO surface acoustic wave sensors on SiO <sub>2</sub> /(100) Si substrates. Solid-State Electronics, 2008, 52, 1710-1716.	1.4	75
23	Latch-up effects in CMOS inverters due to high power pulsed electromagnetic interference. Solid-State Electronics, 2008, 52, 1589-1593.	1.4	28
24	AU/ZNO-nanocomposite/(100)SI N-P heterojunction diodes for gas sensors. , 2007, , .		0
25	Optical and electrical properties of Al/ZnO-nanocomposite/Si n-p diodes. , 2007, , .		0
26	Characterization of latch-up in CMOS inverters in pulsed electromagnetic interference environments. , 2007, , .		1
27	Low-temperature Hydrogen Sensors Based on Au Nanoclusters and Schottky Contacts on ZnO Films Deposited by Pulsed Laser Deposition on Si and $\text{SiO}_2$ Substrates. IEEE Sensors Journal, 2007, 7, 448-454.	4.7	36
28	Impact of Microwave Interference on Dynamic Operation and Power Dissipation of CMOS Inverters. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 329-338.	2.2	23
29	Critical Upsets of CMOS Inverters in Static Operation Due to High-Power Microwave Interference. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 876-885.	2.2	21
30	Morphological and binding properties of interleukin-6 on thin ZnO films grown on (100) silicon substrates for biosensor applications. Biosensors and Bioelectronics, 2006, 22, 707-714.	10.1	40
31	Electrical, microstructural, and thermal stability characteristics of Ta/Ti/Ni/Au contacts to n-GaN. Journal of Applied Physics, 2004, 95, 1516-1524.	2.5	21
32	Effects of microwave interference on the operational parameters of n-channel enhancement mode MOSFET devices in CMOS integrated circuits. Solid-State Electronics, 2004, 48, 1795-1799.	1.4	26
33	Electrical characteristics of Al <sub>x</sub> Ga <sub>1-x</sub> N Schottky diodes prepared by a two-step surface treatment. Journal of Applied Physics, 2004, 96, 3286-3295.	2.5	31
34	Synthesis and characterization of ZnO nanostructures templated using diblock copolymers. Journal of Applied Polymer Science, 2003, 89, 1058-1061.	2.6	42
35	Novel semiconductor device approach for finding acceptable solutions to classes of graph-based computing problems not otherwise possible. Solid-State Electronics, 2003, 47, 367-376.	1.4	0
36	Transport Mechanisms in Focused Ion Beam Assisted Ohmic Contacts to p-Type 6H-SiC. Materials Research Society Symposia Proceedings, 2002, 742, 5121.	0.1	0

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37	Observation of resonant tunneling action in ZnO/Zn <sub>0.8</sub> Mg <sub>0.2</sub> O devices. Solid-State Electronics, 2002, 46, 1633-1637.	1.4	111
38	Synthesis of Self-Assembled Metal-Oxide Nanostructures in a Diblock Copolymer Matrix and Integration onto Semiconductor Surfaces. Materials Research Society Symposia Proceedings, 2000, 642, 2111.	0.1	3
39	Room Temperature ZnO/Zn <sub>0.8</sub> Mg <sub>0.2</sub> O Resonant Tunneling Devices For Microwave Applications. Materials Research Society Symposia Proceedings, 2000, 656, 141.	0.1	1
40	Differential photo-voltage spectroscopy for characterizing epitaxial multilayered and quantum well structures. Journal of Electronic Materials, 1995, 24, 87-92.	2.2	11
41	Electron transport in InGaAs/AlInAs heterostructures and its impact on transistor performance. Journal of Applied Physics, 1994, 76, 7642-7644.	2.5	5