

Muammar Mohamad Isa

List of Publications by Year in descending order

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51
papers

162
citations

1307594

7
h-index

1372567

10
g-index

51
all docs

51
docs citations

51
times ranked

145
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption Properties and Potential Applications of Bamboo Charcoal: A Review. MATEC Web of Conferences, 2016, 78, 01097.	0.2	15
2	Fundamental study of reduction graphene oxide by sodium borohydride for gas sensor application. AIP Conference Proceedings, 2017, , .	0.4	13
3	Fabrication and characterization of tensile In _{0.3} Al _{0.7} As barrier and compressive In _{0.7} Ga _{0.3} As channel pHEMTs having extremely low gate leakage for low-noise applications. Journal Physics D: Applied Physics, 2013, 46, 264002.	2.8	11
4	Zero-bias microwave detectors based on array of nanorectifiers coupled with a dipole antenna. Solid-State Electronics, 2016, 118, 36-40.	1.4	11
5	Permittivity and temperature effects on rectification performance of self-switching diodes with different geometrical structures using two-dimensional device simulator. Solid-State Electronics, 2017, 138, 16-23.	1.4	9
6	InGaAs-based planar barrier diode as microwave rectifier. Japanese Journal of Applied Physics, 2018, 57, 064101.	1.5	9
7	Techniques of impedance matching for minimal PCB channel loss at 40 GBPS signal transmission. Circuit World, 2019, 45, 132-140.	0.9	9
8	A Flexible UWB Antenna for Wearable Technologies Application. , 2019, , .		8
9	Review article of microwave imaging techniques and dielectric properties for lung tumor detection. AIP Conference Proceedings, 2020, , .	0.4	8
10	An overview of self-switching diode rectifiers using green materials. AIP Conference Proceedings, 2017, , .	0.4	7
11	Self-switching diodes as RF rectifiers: evaluation methods and current progress. Bulletin of Electrical Engineering and Informatics, 2019, 8, 396-404.	0.8	6
12	Characterization of self-switching diodes as microwave rectifiers using ATLAS simulator. , 2016, , .		5
13	Permittivity and temperature effects to rectification performance of self-switching device using two-dimensional simulation. , 2016, , .		5
14	The influence of design parameters on the performance of FBAR in 15â€“19â€“GHz. AIP Conference Proceedings, 2018, , .	0.4	5
15	Rectification performance of self-switching diodes in silicon substrate using device simulator. , 2016, , .		4
16	Multi-walled carbon nanotubes plastic NH ₃ gas sensor. AIP Conference Proceedings, 2017, , .	0.4	4
17	Compact Broadband Triple-Ring Five-Port Reflectometer for Microwave Brain Imaging Applications. IEEE Access, 2019, 7, 29597-29609.	4.2	4
18	Gain enhancement of microstrip patch antenna using artificial magnetic conductor. Bulletin of Electrical Engineering and Informatics, 2019, 8, 166-171.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Hybrid Statistical and Numerical Analysis in Structural Optimization of Silicon-Based RF Detector in 5G Network. Mathematics, 2022, 10, 326.	2.2	4
20	Implementation of floating gate MOSFET in inverter for threshold voltage tunability. EPJ Web of Conferences, 2017, 162, 01069.	0.3	3
21	Improved Rectification Performance and Terahertz Detection in Hybrid Structure of Self-Switching Device (SSD) and Planar Barrier Diode (PBD) Using Two-Dimensional Device Simulation. Solid State Phenomena, 0, 301, 111-117.	0.3	3
22	Rectification performance of self-switching diode in various geometries using ATLAS simulator. , 2016, , .		2
23	The design and optimisation of the square and circular inductor using MEMS technology. , 2016, , .		2
24	The influence of design parameters on the performance of FBAR in 10â€“14 GHz. EPJ Web of Conferences, 2017, 162, 01041.	0.3	2
25	Fabrication of novel high frequency and high breakdown InAlAs-InGaAs pHEMTs. , 2010, , .		1
26	TCAD optimization of field-plated InAlAs-InGaAs HEMTs. , 2010, , .		1
27	Thermal Simulation Analysis of High Power LED with Varied Heat Sink Fin Design. Advanced Materials Research, 2014, 1082, 332-335.	0.3	1
28	Carbon nanotubes based hydrogen sensor on paper using Langmuir-Blodgett technique. , 2016, , .		1
29	Film bulk acoustic wave resonator in 10â€“20 GHz frequency range. , 2016, , .		1
30	Few-layers graphene oxide for NO ₂ gas sensor on plastic. AIP Conference Proceedings, 2017, , .	0.4	1
31	Low noise differential amplifier design using novel InGaAs/InAlAs pHEMT for wireless applications. , 2017, , .		1
32	Low voltage low power FGMOS based current mirror. EPJ Web of Conferences, 2017, 162, 01048.	0.3	1
33	Bandwidth and gain enhancement of a circular microstrip antenna using a DNG split ring resonator radome. Bulletin of Electrical Engineering and Informatics, 2019, 8, 637-643.	0.8	1
34	Methods of measurement of LTCC metallization thickness. , 2008, , .		0
35	Heat Sink Cooling Fan and Rotation Speed Effect Analysis on Heat Dissipation of High Power GaN LED Package. Advanced Materials Research, 2014, 1082, 315-318.	0.3	0
36	Hydrophilicity Characterization on Cleaned Bonded Silicon Based Surface. Applied Mechanics and Materials, 2014, 680, 127-130.	0.2	0

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37	Extrinsic and Intrinsic Modeling of InGaAs/InAlAs pHEMT for Wireless Applications. Applied Mechanics and Materials, 0, 815, 369-373.	0.2	0
38	Hysteresis in a field-effect device based on an exfoliated thin film of few-layer graphene. , 2016, , .		0
39	Linear modelling of novel InGaAs/InAlAs/InP pHEMT for low noise applications. , 2016, , .		0
40	Small signal modelling of novel InGaAs/InAlAs/InP pHEMT for high frequency applications. , 2016, , .		0
41	Comprehensive study on gate recess step for the fabrication of high-speed InGaAs/InAlAs/InP pHEMT. , 2016, , .		0
42	The enhancement of high speed pHEMT device for IoT applications. , 2016, , .		0
43	Remazol orange dye sensitized solar cell. , 2016, , .		0
44	Circuit development of FGMOS in operational amplifier for low voltage low power applications: A review. AIP Conference Proceedings, 2017, , .	0.4	0
45	Simulation of unipolar planar device with asymmetrical barrier profile: A planar barrier diode. AIP Conference Proceedings, 2017, , .	0.4	0
46	Review of mixer design for low voltage - low power applications. AIP Conference Proceedings, 2017, , .	0.4	0
47	Gate recess study for high thermal stability pHEMT devices. EPJ Web of Conferences, 2017, 162, 01047.	0.3	0
48	Implementation of FGMOS transistors in operational amplifier design using 0.13µm technology. AIP Conference Proceedings, 2018, , .	0.4	0
49	A low voltage and low power amplifier using FGMOS based transistor. AIP Conference Proceedings, 2018, , .	0.4	0
50	Low insertion loss of surface mount device low pass filter at 700 MHz. Bulletin of Electrical Engineering and Informatics, 2019, 8, 382-388.	0.8	0
51	Effect of channel length to the frequency response of Si-based Self-Switching Diodes using two-dimensional simulation. IOP Conference Series: Materials Science and Engineering, 0, 932, 012078.	0.6	0