

Sujata Pandey

List of Publications by Year in descending order

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139
papers

552
citations

840776

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h-index

888059

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141
all docs

141
docs citations

141
times ranked

345
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization dependent analysis of AlGaIn/GaN HEMT for high power applications. Solid-State Electronics, 2007, 51, 130-135.	1.4	70
2	An Illumination Invariant Accurate Face Recognition with Down Scaling of DCT Coefficients. Journal of Computing and Information Technology, 2010, 18, 53.	0.3	26
3	A Novel Approach for Face Recognition Using DCT Coefficients Re-scaling for Illumination Normalization. , 2007, , .		25
4	Two-dimensional C-V model of AlGaAs/GaAs modulation doped field effect transistor (MODFET) for high frequency applications. IEEE Transactions on Electron Devices, 1999, 46, 1818-1823.	3.0	18
5	Analytical model for dc characteristics and small-signal parameters of AlGaIn/GaN modulation-doped field-effect transistor for microwave circuit applications. Microwave and Optical Technology Letters, 2000, 27, 413-419.	1.4	18
6	An analytical two-dimensional model for AlGaIn/GaN HEMT with polarization effects for high power applications. Microelectronics Journal, 2007, 38, 877-883.	2.0	18
7	Carrier-concentration-dependent low-field-mobility model for InAlAs/InGaAs/InP lattice-matched HEMT for microwave application. Microwave and Optical Technology Letters, 2001, 29, 66-70.	1.4	16
8	Digitally controlled oscillator design with a variable capacitance XOR gate. Journal of Semiconductors, 2011, 32, 105001.	3.7	15
9	IOT based health monitoring systems. , 2017, , .		15
10	A compact C-V model for 120nm AlGaIn/GaN HEMT with modified field dependent mobility for high frequency applications. Microelectronics Journal, 2007, 38, 848-854.	2.0	13
11	Modeling and analysis of fully strained and partially relaxed lattice mismatched AlGaIn/GaN HEMT for high temperature applications. Superlattices and Microstructures, 2008, 44, 781-793.	3.1	13
12	Accessible review of internet of vehicle models for intelligent transportation and research gaps for potential future directions. Peer-to-Peer Networking and Applications, 2021, 14, 978-1005.	3.9	13
13	Capacitance-voltage characteristics and cutoff frequency of pseudomorphic (AlGaAs/InGaAs) modulation-doped field-effect transistor for microwave and high-speed circuit applications. Microwave and Optical Technology Letters, 1999, 23, 312-318.	1.4	12
14	Ring VCO Design with Variable Capacitance XNOR Delay Cell. Journal of the Institution of Engineers (India): Series B, 2015, 96, 371-379.	1.9	11
15	Thermal characterization of a double-gate silicon-on-insulator MOSFET. Journal Physics D: Applied Physics, 1999, 32, 344-349.	2.8	8
16	Optimization of row decoder for 128×128 6T SRAMs. , 2015, , .		8
17	Design and Analysis of Metamaterial-Based SWB-MIMO Antenna. IETE Journal of Research, 2023, 69, 6733-6746.	2.6	8
18	Transconductance extraction for pseudomorphic modulation-doped field-effect transistor (AlGaAs/InGaAs) for microwave and millimeter-wave applications. Microwave and Optical Technology Letters, 1999, 22, 41-48.	1.4	7

#	ARTICLE	IF	CITATIONS
19	Design of AMBA APB bridge with reset controller for efficient power consumption. , 2014, , .		7
20	Implementation of 8B/10B encoder-decoder for Gigabit Ethernet Frame. , 2014, , .		7
21	A High Gain Super Wideband Metamaterial Based Antenna. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2021, 20, 248-273.	0.7	7
22	Design of CMOS Energy Efficient Single Bit Full Adders. Communications in Computer and Information Science, 2011, , 159-168.	0.5	7
23	Temperature and aluminium composition dependent sheet carrier concentration at AlGaAs/GaAs interface. Journal Physics D: Applied Physics, 2000, 33, 18-23.	2.8	6
24	RTL implementation for AMBA ASB APB protocol at system on chip level. , 2015, , .		6
25	IoT-TEE-An integrated framework for rapid trusted IOT application development. , 2016, , .		6
26	Design and simulation of GaN HEMT and its application to RF amplifiers. , 2016, , .		6
27	Effect of Surface Passivation on the Electrical Characteristics of Nanoscale AlGaIn/GaN HEMT. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012095.	0.6	6
28	Study and implementation of IOT based smart healthcare system. , 2017, , .		6
29	A Compact High Gain Metamaterial-Based Antenna for Terahertz Applications. Journal of Electronic Materials, 2022, 51, 4589-4600.	2.2	6
30	Low power digitally controlled oscillator designs with a novel 3-transistor XNOR gate. Journal of Semiconductors, 2012, 33, 035001.	3.7	5
31	Metamaterial inspired multiband slotted antenna for application in IOT band. , 2016, , .		5
32	Implementation of an IOT framework for smart healthcare. , 2017, , .		5
33	Analysis of multilayered SAW based gas sensor. , 2017, , .		5
34	A boosted negative bit-line SRAM with write-assisted cell in 45 nm CMOS technology. Journal of Semiconductors, 2018, 39, 025001.	3.7	5
35	High-Voltage Junctionless Nanowire Transistor with High- κ Dielectric Material and Schottky Contacts. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 925-931.	0.5	5
36	Compact modeling and simulation of nanoscale fully depleted DG-SOI MOSFETS. Journal of Computational Electronics, 2011, 10, 201-209.	2.5	4

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37	Low power approach for implementation of 8B/10B encoder and 10B/8B decoder used for high speed communication. , 2014, , .		4
38	Power optimization of 8b/10b encoder decoder used for high speed communication. , 2014, , .		4
39	Work function engineered charge plasma diodes for enhanced performance. Journal Physics D: Applied Physics, 2015, 48, 495101.	2.8	4
40	Implementing low-power dynamic adders in MTCMOS technology. , 2015, , .		4
41	An efficient multistage security system for user authentication. , 2016, , .		4
42	Design of a wide output range and reduced current mismatch charge pump PLL with improved performance. , 2016, , .		4
43	Optimization of organic light emitting diode for HAT-CN based nano-structured device by study of injection characteristics at anode/organic interface. Frontiers of Optoelectronics, 2019, 12, 268-275.	3.7	4
44	Investigation of Tunnel Field Effect Transistor for Biosensing Applications. , 2019, , .		4
45	Graphene Based Tunnel Field Effect Transistor for RF Applications. , 2019, , .		4
46	Network efficient topology for low power and lossy networks in smart corridor design using RPL. International Journal of Pervasive Computing and Communications, 2021, ahead-of-print, .	1.3	4
47	An analytical 2D model for drain-induced barrier lowering in subquarter micrometer gate length InAlAs/InGaAs/InAlAs/InP LMHEMT. Microelectronics Journal, 2002, 33, 633-638.	2.0	3
48	Microwave analysis of a 70 nm InGaAs pHEMT on InP substrate for nanoscale digital IC application. Microwave and Optical Technology Letters, 2007, 49, 2462-2470.	1.4	3
49	A new two-dimensional C ₆₀ model for prediction of maximum frequency of oscillation (f _{max}) of deep submicron AlGaIn/GaN HEMT for microwave and millimeter wave applications. Microelectronics Journal, 2008, 39, 1634-1641.	2.0	3
50	Analytical modeling of drain current and RF performance for double-gate fully depleted nanoscale SOI MOSFETs. Journal of Semiconductors, 2012, 33, 024001.	3.7	3
51	Green's function approach for modeling of electrostatic effects in nanoscale fully depleted double-gate silicon-on-insulator metal-oxide-semiconductor field-effect transistors. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 173-184.	1.9	3
52	Modelling and Simulation of Piezoelectric Cantilevers in RF MEMS Devices for Energy Harvesting Applications. , 2015, , .		3
53	Design and performance analysis of wideband CMOS voltage controlled ring oscillator. , 2015, , .		3
54	Novel design techniques for noise-tolerant power-gated CMOS circuits. Journal of Semiconductors, 2017, 38, 015001.	3.7	3

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55	Protecting composite IoT server by secure secret key exchange for XEN intra virtual machines. International Journal of Information and Computer Security, 2020, 12, 53.	0.2	3
56	A Study on RPL Protocol with Respect to DODAG Formation Using Objective Function. Advances in Intelligent Systems and Computing, 2022, , 633-644.	0.6	3
57	Noise Analysis of Sub Quarter Micrometer AlGaIn/GaN Microwave Power HEMT. Journal of Semiconductor Technology and Science, 2009, 9, 125-135.	0.4	3
58	Current-voltage characteristics and field distribution of pseudomorphic (AlGaAs/InGaAs) modulation-doped field-effect transistor for microwave circuit applications. Microwave and Optical Technology Letters, 2000, 24, 407-412.	1.4	2
59	A Method for Harvesting Energy Using Piezoelectric Transducers. Applied Mechanics and Materials, 2015, 727-728, 607-611.	0.2	2
60	Implementation of AMBA APB bridge with efficient deployment of system resources. , 2015, , .		2
61	Power Optimization of Communication System Using Clock Gating Technique. , 2015, , .		2
62	Analysis and implementation of ripple and area efficient charge pump circuits. , 2015, , .		2
63	Physical design implementation of 32-bit AMBA ASB APB module with improved performance. , 2016, , .		2
64	A new high speed three stage class B output buffer for LCD applications. , 2016, , .		2
65	Fast integral image computing scheme for vision based applications. , 2017, , .		2
66	GaN based tunnel field effect transistor for terahertz applications. , 2017, , .		2
67	Modified Sierpinski Antenna With Metamaterial For Wireless Applications. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012122.	0.6	2
68	A Low Cost Portable Radiation Level Monitoring Device. , 2018, , .		2
69	Optimising the DTLS handshake design for TEE enabled sensor nodes. International Journal of Security and Networks, 2019, 14, 167.	0.2	2
70	Small Signal Parameter Extraction of III-V Heterojunction Surrounding Gate Tunnel Field Effect Transistor. Journal of Nano- and Electronic Physics, 2017, 9, 04004-1-04004-4.	0.5	2
71	A Variation Tolerant Nanoscale SRAM for Low Power Wireless Sensor Nodes. Wireless Personal Communications, 2022, 124, 3235-3251.	2.7	2
72	A Convergence Time Predictive Model using Machine Learning for LLN. , 2021, , .		2

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73	Role of Ion Irradiation in Resistive Memory Devices. , 2021, , .		2
74	A super wideband MIMO antenna with metamaterial superstrate for gain enhancement at WLAN frequency band. International Journal of Systems Assurance Engineering and Management, 2023, 14, 643-658.	2.4	2
75	Capacitance modeling of 120nm AlGaIn/GaN HEMT for microwave and high speed circuit applications. , 2008, , .		1
76	Modelling and simulation of Si and InAs gate all around (GAA) nanowire transistors. , 2015, , .		1
77	Analysis of GaSb/InAs heterojunction Gate All Around Tunnel FET (HGAATFET). , 2015, , .		1
78	A new design of Aluminium cantilever with embedded piezoelectric ceramic film in RF MEMS devices for energy harvesting. , 2015, , .		1
79	Finite element analysis of silicon gate all around Nanowire Transistor with different high-k dielectrics. , 2015, , .		1
80	Leakage power reduction in MTCMOS based high speed adders. , 2015, , .		1
81	Design and implementation of high speed reconfigurable NoC router. , 2016, , .		1
82	CMOS voltage controlled oscillator with negative delay for improved performance. , 2016, , .		1
83	Investigation of material engineered junctionless cylindrical gate MOSFET with and without source/drain extension. , 2016, , .		1
84	Simulation and analysis of Si GAA nanowire Tunneling FET. , 2016, , .		1
85	Multiphysics simulation of InP NWT for high speed digital applications. , 2017, , .		1
86	Simulation of bi-layer organic polymer light emitting diode using LiF/Al cathode. , 2017, , .		1
87	A dual V t disturb-free subthreshold SRAM with write-assist and read isolation. Journal of Semiconductors, 2018, 39, 025002.	3.7	1
88	Surveyance of Ambient Conditions in Mines Using Intelligent Sensor Nodes. , 2018, , .		1
89	Study of Piezoelectric-mechanical Properties of III-V Nitride Based Tunnel FET. , 2019, , .		1
90	A Novel Lotus Shaped Multiband Patch Antenna with Improved Performance. , 2019, , .		1

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91	Design and Analysis of Microstrip Line bandpass filter. , 2021, , .		1
92	Double co-host emitter based top emitting white organic light emitting diodes with enhanced brightness and efficiency. Optoelectronics Letters, 2021, 17, 581-585.	0.8	1
93	Lightweight capability-token for consent-based authentication protocol for smart sensor nodes. Journal of Information Security and Applications, 2021, 63, 103024.	2.5	1
94	Two Dimensional Modeling of III-V Heterojunction Gate All Around Tunnel Field Effect Transistor. Journal of Nano- and Electronic Physics, 2017, 9, 01030-1-01030-4.	0.5	1
95	Design and Implementation of an Efficient Buffer Management System for Network on Chip Routers. , 2020, , .		1
96	Experimental Investigation of a Novel Multi-Patch Fractal Antenna for Radio Frequency Energy Harvesting. , 2020, , .		1
97	A Flower shaped Printed wideband monopole antenna for RFID applications. , 2021, , .		1
98	Thermal effect on Layers of 3D Printed Components & its impact on Materialâ€™s Property. , 2022, , .		1
99	Design Aspects of a Submicrometer Gate Length High Electron Mobility Transistor. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 1999, 16, 223-228.	3.2	0
100	Current-voltage characteristics and small signal parameters of an AlGaAs/GaAs modulation doped field effect transistor. International Journal of Electronics, 2000, 87, 137-152.	1.4	0
101	2-Dimensional simulation and characterization of deep-submicron AlGaN/GaN HEMTs for high frequency applications. , 2007, , .		0
102	Modeling of nanoscale GaN FET in a compact 2-D model with gate stack effects. , 2008, , .		0
103	Analytical approach for high temperature analysis of AlGaN/GaN HEMT. , 2008, , .		0
104	Analytical Modeling and Simulation Based Investigation of Advanced TFET Architecture. , 2016, , .		0
105	TCAD analysis of nanoscale AlGaN/GaN HEMT for application in terahertz regime. , 2016, , .		0
106	Computational analysis of potential profile of III-V heterojunction gate-all-around Tunneling FET for low power digital circuits. , 2016, , .		0
107	High performance 14-bit pipelined redundant signed digit ADC. Journal of Semiconductors, 2016, 37, 035001.	3.7	0
108	Effect of substrate material on sensing behaviour of SAW based gas sensors. AIP Conference Proceedings, 2017, , .	0.4	0

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109	A Novel Design of Fractal Antenna: Effect of Different Dielectric Substrate Materials. Springer Proceedings in Physics, 2017, , 521-526.	0.2	0
110	A novel design of multi patch antenna. , 2017, , .		0
111	Switching characteristics of InN tunnel field effect transistor and its application in the design of RF amplifiers. , 2017, , .		0
112	A new hexagonal multi patch antenna. , 2017, , .		0
113	Analysis of schottky barrier indium arsenide nanowire MOSFET for high frequency application. , 2017, , .		0
114	Thermal analysis of III-V transistor at high frequencies. , 2017, , .		0
115	Effect of Substrate on S-Parameters of Microstrip Ring Resonator. , 2018, , .		0
116	Measurement of Bandwidth and FFT of a low frequency modulated signal in a Phase locked VCO. , 2018, , .		0
117	A Multiband Uniplanar Left Handed Metamaterial Unit Cell. , 2018, , .		0
118	A New Charge-Recycling Approach for Reactivation-Noise Reduction. , 2018, , .		0
119	Design Techniques for Power-Gated Nanoscale Low Power Circuits. Micro and Nanosystems, 2019, 11, 90-99.	0.6	0
120	Design of a Novel Microwave Antenna. , 2019, , .		0
121	Design and Electrical Characteristics of a Microwave Multiband Single Slotted Antenna with Different Dielectric Substrate Materials. , 2019, , .		0
122	Transient Analysis of Poly (3,4-Ethylenedioxythiophene) Poly (Styrenesulphonate) (PEDOT: PSS)-Polyfluorene Organic Polymer Layer Light Emitting Diode. Micro and Nanosystems, 2020, 12, 226-231.	0.6	0
123	Micro-Cavity Nano-Layered Organic Light Emitting Diode to Improve Light Extraction and Electrical Properties of the Device. , 2020, , .		0
124	Opto-electrical properties of HAT-CN based organic light emitting diode. Micro and Nano Letters, 2020, 15, 24-29.	1.3	0
125	A Novel Design of High Performance Low Power Phase-Frequency Detector for CMOS PLL Frequency Synthesizer. International Journal of Sensors, Wireless Communications and Control, 2020, 10, 838-845.	0.7	0
126	Physical Design Analysis of USB 3.0 Architecture. , 2021, , .		0

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127	Quantum Mechanical Analysis of GaN Nanowire Transistor for High Voltage Applications. Journal of Nano- and Electronic Physics, 2016, 8, 04063-1-04063-6.	0.5	0
128	A Novel Low-Power Design Approach to Exploit the Power Usage of AMBA APB Bridge. , 2016, , 373-380.		0
129	Simulation and Finite Element Analysis of Electrical Characteristics of Gate-all-Around Junctionless Nanowire Transistors. Journal of Nano- and Electronic Physics, 2016, 8, 01025-1-01025-5.	0.5	0
130	Multiphysics Analysis of Heat Transfer in Gate All Around (GAA) Silicon Nanowire Transistor: Material Perspective. Springer Proceedings in Physics, 2017, , 49-55.	0.2	0
131	A Novel Digital Background Calibration Technique for 16 bit SHA-less Multibit Pipelined ADC. Advances in Electrical and Electronic Engineering, 2016, 14, .	0.3	0
132	Analysis of SRAM bit cell topologies in submicron CMOS technology. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0
133	Design of psk based trusted dtls for smart sensor nodes. Recent Advances in Computer Science and Communications, 2020, 13, .	0.7	0
134	Low Leakage Optimization Techniques for Multi-threshold CMOS Circuits. Nanoscience and Nanotechnology - Asia, 2020, 10, 696-708.	0.7	0
135	A Dual band Monopole Antenna For RFID Applications. , 2021, , .		0
136	Energy-Efficient Tunnel FET for Application as a Biosensor. Springer Proceedings in Energy, 2022, , 181-186.	0.3	0
137	Analysis of the IoT Framework for Sensor Data Connectivity. , 2022, , .		0
138	Performance Analysis, Design and simulation of Piezoresistive Pressure Sensor. , 2022, , .		0
139	Influence of Acetone Smoothed 3D Printed ABS polymer on Impact Strength. , 2022, , .		0