

Soumendu Sinha

List of Publications by Year in descending order

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30
papers

594
citations

840776
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h-index

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g-index

31
all docs

31
docs citations

31
times ranked

454
citing authors

#	ARTICLE	IF	CITATIONS
1	FNDNet – A deep convolutional neural network for fake news detection. Cognitive Systems Research, 2020, 61, 32-44.	2.7	234
2	AgriSegNet: Deep Aerial Semantic Segmentation Framework for IoT-Assisted Precision Agriculture. IEEE Sensors Journal, 2021, 21, 17581-17590.	4.7	63
3	Temperature and temporal drift compensation for Al ₂ O ₃ -gate ISFET-based pH sensor using machine learning techniques. Microelectronics Journal, 2020, 97, 104710.	2.0	32
4	Hydrogen ion sensing characteristics of Na ₃ BiO ₄ –Bi ₂ O ₃ mixed oxide nanostructures based EGFET pH sensor. International Journal of Hydrogen Energy, 2020, 45, 18743-18751.	7.1	31
5	Modeling and simulation of temperature drift for ISFET-based pH sensor and its compensation through machine learning techniques. International Journal of Circuit Theory and Applications, 2019, 47, 954-970.	2.0	29
6	Fabrication, characterization and electrochemical simulation of AlN-gate ISFET pH sensor. Journal of Materials Science: Materials in Electronics, 2019, 30, 7163-7174.	2.2	25
7	Design, modelling and system level simulations of DRIE-based MEMS differential capacitive accelerometer. Microsystem Technologies, 2019, 25, 3521-3532.	2.0	25
8	A comprehensive review of FET-based pH sensors: materials, fabrication technologies, and modeling. Electrochemical Science Advances, 2022, 2, 2100147.	2.8	22
9	Towards Development of an ISFET-Based Smart pH Sensor: Enabling Machine Learning for Drift Compensation in IoT Applications. IEEE Sensors Journal, 2021, 21, 19013-19024.	4.7	17
10	Fabrication and characterisation of Al gate <i>metal-oxide-semiconductor field-effect transistor</i> , on-chip fabricated with silicon nitride ion-sensitive field-effect transistor. IET Computers and Digital Techniques, 2016, 10, 268-272.	1.2	16
11	Temperature compensation of ISFET based pH sensor using artificial neural networks. , 2017, , .		15
12	DroneSegNet: Robust Aerial Semantic Segmentation for UAV-Based IoT Applications. IEEE Transactions on Vehicular Technology, 2022, 71, 4277-4286.	6.3	15
13	Design, fabrication and characterization of TiN sensing film-based ISFET pH sensor. Materials Letters, 2021, 304, 130556.	2.6	12
14	Modeling and simulation of temporal and temperature drift for the development of an accurate ISFET SPICE macromodel. Journal of Computational Electronics, 2020, 19, 367-386.	2.5	11
15	Electrical equivalent modeling of MEMS differential capacitive accelerometer. Microelectronics Journal, 2020, 99, 104770.	2.0	11
16	Fabrication, Characterization, and Modeling of an Aluminum Oxide-Gate Ion-Sensitive Field-Effect Transistor-Based pH Sensor. Journal of Electronic Materials, 2021, 50, 7085-7097.	2.2	5
17	Simulation, fabrication and characterization of Dual-Gate MOSFET test structures. , 2015, , .		4
18	Simulation and characterization of dual-gate SOI MOSFET, on-chip fabricated with ISFET. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
19	Modeling and simulation of ion-sensitive field-effect transistor using TCAD methodology. , 2017, , .		4
20	Design and Simulation of Dielectric-Modulated Field-Effect Transistor for Biosensing Applications. , 2019, , .		4
21	Titanium Nitride Sensing Film-Based Extended-Gate Field-Effect Transistor for Chemical/Biochemical Sensing Applications. Journal of the Electrochemical Society, 2021, 168, 107510.	2.9	4
22	Design and optimization of RF MEMS T-type switch for redundancy switch matrix applications. , 2012, , .		3
23	Design and Simulation of Silicon-on-Insulator Based Dielectric-Modulated Field Effect Transistor for Biosensing Applications. , 2019, , .		2
24	Investigation of Back Gate Effects on the Electrical Characteristics of Fully-Depleted Silicon-On-Insulator MOSFET. , 2019, , .		2
25	Fabrication and characterization of Al gate n-MOSFET, on-chip fabricated with Si_{3N_4} ISFET. , 2015, , .		1
26	Design and Simulation of SOI-ISFET Macromodel Using SPICE. Springer Proceedings in Physics, 2019, , 789-796.	0.2	1
27	Machine Learning on FPGA for Robust Si_3N_4 -Gate ISFET pH Sensor in Industrial IoT Applications. IEEE Transactions on Industry Applications, 2021, 57, 6700-6712.	4.9	1
28	Machine Learning Techniques for Performance Enhancement of Si_3N_4 -gate ISFET pH Sensor. , 2020, , .		1
29	Realization of MEMS-based silicon cantilever using bulk micromachining. , 2017, , .		0
30	TCAD Simulation of p-channel SOI-based Dielectric-Modulated Field-Effect Transistor Biochemical Sensor. , 2020, , .		0