Narendra Kumar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4942287/publications.pdf

Version: 2024-02-01

19	398	840119 11	839053 18
papers	citations	h-index	g-index

22	22	22	576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dielectrophoresis assisted rapid, selective and single cell detection of antibiotic resistant bacteria with G-FETs. Biosensors and Bioelectronics, 2020, 156, 112123.	5.3	62
2	Back-Channel Electrolyte-Gated a-IGZO Dual-Gate Thin-Film Transistor for Enhancement of pH Sensitivity Over Nernst Limit. IEEE Electron Device Letters, 2016, 37, 500-503.	2.2	52
3	Evidence for Helical Hinge Zero Modes in an Fe-Based Superconductor. Nano Letters, 2019, 19, 4890-4896.	4.5	51
4	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. Nano Letters, 2020, 20, 8446-8452.	4.5	44
5	Enhanced pH sensitivity over the Nernst limit of electrolyte gated a-IGZO thin film transistor using branched polyethylenimine. RSC Advances, 2016, 6, 10810-10815.	1.7	28
6	Rapid, Multianalyte Detection of Opioid Metabolites in Wastewater. ACS Nano, 2022, 16, 3704-3714.	7.3	19
7	Investigation of Mechanisms Involved in the Enhanced Label Free Detection of Prostate Cancer Biomarkers Using Field Effect Devices. Journal of the Electrochemical Society, 2017, 164, B409-B416.	1.3	16
8	Sensitivity Enhancement of Electrolyteâ€“Insulatorâ€“Semiconductor Sensors Using Mesotextured and Nanotextured Dielectric Surfaces. IEEE Sensors Journal, 2015, 15, 2039-2045.	2.4	14
9	Role of deposition and annealing of the top gate dielectric in a-IGZO TFT-based dual-gate ion-sensitive field-effect transistors. Semiconductor Science and Technology, 2017, 32, 035013.	1.0	13
10	A cleanroom in a glovebox. Review of Scientific Instruments, 2020, 91, 073909.	0.6	13
11	Low temperature annealed amorphous indium gallium zinc oxide (a-IGZO) as a pH sensitive layer for applications in field effect based sensors. AIP Advances, 2015, 5, 067123.	0.6	12
12	Interface mechanisms involved in a-IGZO based dual gate ISFET pH sensor using Al2O3 as the top gate dielectric. Materials Science in Semiconductor Processing, 2020, 119, 105239.	1.9	12
13	Phase-Controllable Synthesis of Ultrathin Molybdenum Nitride Crystals Via Atomic Substitution of MoS₂. Chemistry of Materials, 2022, 34, 351-357.	3.2	12
14	Detection of a multiâ€disease biomarker in saliva with graphene field effect transistors. Medical Devices & Sensors, 2020, 3, e10121.	2.7	11
15	Sensitivity Enhancement Mechanisms in Textured Dielectric based Electrolyte-Insulator-Semiconductor (EIS) Sensors. ECS Journal of Solid State Science and Technology, 2015, 4, N18-N23.	0.9	10
16	Functionalized vertically aligned ZnO nanorods for application in electrolyte-insulator-semiconductor based pH sensors and label-free immuno-sensors. Journal of Physics: Conference Series, 2016, 704, 012013.	0.3	10
17	Stacked Top Gate Dielectrics in Dual Gate Ion Sensitive Field Effect Transistors: Role of Interfaces. ACS Applied Electronic Materials, 2019, 1, 1465-1473.	2.0	10
18	Effect of post deposition annealing temperature of e-beam evaporated Ta<inf>2</inf>O<inf>5</inf> films on sensitivities of electrolyte-insulator-semiconductor devices. , 2015, , .		7

#	Article	IF	Citations
19	Signal Amplification in Field Effect-Based Sandwich Enzyme-Linked Immunosensing by Tuned Buffer Concentration with Ionic Strength Adjuster. Applied Biochemistry and Biotechnology, 2016, 179, 168-178.	1.4	2