Narendra Kumar

List of Publications by Year in Descending Order

19 papers	238 citations	10 h-index	15 g-index
22 ext. papers	316 ext. citations	5.3 avg, IF	3.35 L-index

#	Paper	IF	Citations
19	Rapid, Multianalyte Detection of Opioid Metabolites in Wastewater.. *ACS Nano*, **2022**,	16.7	5
18	Phase-Controllable Synthesis of Ultrathin Molybdenum Nitride Crystals Via Atomic Substitution of MoS2. *Chemistry of Materials*, **2022**, 34, 351-357	9.6	3
17	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	4.3	7
16	Dielectrophoresis assisted rapid, selective and single cell detection of antibiotic resistant bacteria with G-FETs. *Biosensors and Bioelectronics*, **2020**, 156, 112123	11.8	27
15	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. *Nano Letters*, **2020**, 20, 8446-8452	11.5	16
14	A cleanroom in a glovebox. *Review of Scientific Instruments*, **2020**, 91, 073909	1.7	4
13	Detection of a multi-disease biomarker in saliva with graphene field effect transistors. *Medical Devices & Sensors*, **2020**, 3, e10121	1.6	4
12	Stacked Top Gate Dielectrics in Dual Gate Ion Sensitive Field Effect Transistors: Role of Interfaces. *ACS Applied Electronic Materials*, **2019**, 1, 1465-1473	4	8
11	Evidence for Helical Hinge Zero Modes in an Fe-Based Superconductor. *Nano Letters*, **2019**, 19, 4890-4896	11.5	29
10	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	1.8	13
9	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	3.9	11
8	Signal Amplification in Field Effect-Based Sandwich Enzyme-Linked Immunosensing by Tuned Buffer Concentration with Ionic Strength Adjuster. *Applied Biochemistry and Biotechnology*, **2016**, 179, 168-78	3.2	2
7	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	4.4	41
6	Enhanced pH sensitivity over the Nernst limit of electrolyte gated a-IGZO thin film transistor using branched polyethylenimine. *RSC Advances*, **2016**, 6, 10810-10815	3.7	20
5	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	8
4	Sensitivity Enhancement Mechanisms in Textured Dielectric based Electrolyte-Insulator-Semiconductor (EIS) Sensors. *ECS Journal of Solid State Science and Technology* , **2015**, 4, N18-N23	2	10
3	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	1.5	12

2	Effect of post deposition annealing temperature of e-beam evaporated Ta2O5 films on sensitivities of electrolyte-insulator-semiconductor devices **2015**,		6
1	Sensitivity Enhancement of Electrolyte–Insulator–Semiconductor Sensors Using Mesotextured and Nanotextured Dielectric Surfaces. *IEEE Sensors Journal*, **2015**, 15, 2039-2045	4	12