

Anil Kumar Pulikkathodi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A microfluidic platform integrated with field-effect transistors for enumeration of circulating tumor cells. <i>Lab on A Chip</i> , 2019, 19, 618-625.	6.0	42
2	Investigation of Electrical Stability and Sensitivity of Electric Double Layer Gated Field-Effect Transistors (FETs) for miRNA Detection. <i>Sensors</i> , 2019, 19, 1484.	3.8	17
3	Design and Demonstration of Tunable Amplified Sensitivity of AlGaIn/GaN High Electron Mobility Transistor (HEMT)-Based Biosensors in Human Serum. <i>Analytical Chemistry</i> , 2019, 91, 5953-5960.	6.5	34
4	Risk stratification of heart failure from one drop of blood using hand-held biosensor for BNP detection. <i>Biosensors and Bioelectronics</i> , 2018, 107, 259-265.	10.1	31
5	Dynamic monitoring of transmembrane potential changes: a study of ion channels using an electrical double layer-gated FET biosensor. <i>Lab on A Chip</i> , 2018, 18, 1047-1056.	6.0	16
6	Review of High Field Modulated FET Biosensors for Biomedical Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3032-Q3042.	1.8	22
7	A Comprehensive Model for Whole Cell Sensing and Transmembrane Potential Measurement Using FET Biosensors. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3001-Q3008.	1.8	12
8	Highly sensitive and rapid MicroRNA detection for cardiovascular diseases with electrical double layer (EDL) gated AlGaIn/GaN high electron mobility transistors. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 365-370.	7.8	18
9	Single Drop Whole Blood Diagnostics: Portable Biomedical Sensor for Cardiac Troponin I Detection. <i>Analytical Chemistry</i> , 2018, 90, 2867-2874.	6.5	50
10	Enumeration of circulating tumor cells and investigation of cellular responses using aptamer-immobilized AlGaIn/GaN high electron mobility transistor sensor array. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 96-104.	7.8	29
11	Direct detection of DNA using electrical double layer gated high electron mobility transistor in high ionic strength solution with high sensitivity and specificity. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 110-117.	7.8	19
12	Miniaturized Biomedical Sensors for Enumeration of Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2213.	4.1	13
13	A Package Technology for Miniaturized Field-Effect Transistor-Based Biosensors and the Sensor Array. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, Q63-Q67.	1.8	21