Chih-Cheng Huang

List of Publications by Year
in descending order

20 papers	257 citations	933447 10 h-index	1125743 13 g-index
21 all docs	21 docs citations	21 times ranked	297 citing authors

#	Article	IF	Citations
1	A Rapid Detection of COVID‐19 Viral RNA in Human Saliva Using Electrical Double Layer‐Gated Field‐Effect Transistor‐Based Biosensors. Advanced Materials Technologies, 2022, 7, 2100842.	5.8	18
2	Saliva-based COVID-19 detection: A rapid antigen test of SARS-CoV-2 nucleocapsid protein using an electrical-double-layer gated field-effect transistor-based biosensing system. Sensors and Actuators B: Chemical, 2022, 357, 131415.	7.8	39
3	Rapid Drug-Screening Platform Using Field-Effect Transistor-Based Biosensors: A Study of Extracellular Drug Effects on Transmembrane Potentials. Analytical Chemistry, 2022, 94, 2679-2685.	6.5	3
4	A 9.7-nTáµ£â‚‹â›, 704-ms Magnetic Biosensor Front-End for Detecting Magneto-Relaxation. IEEE Journal of Solid-State Circuits, 2021, 56, 2171-2181.	5.4	12
5	A 2-in-1 Temperature and Humidity Sensor With a Single FLL Wheatstone-Bridge Front-End. IEEE Journal of Solid-State Circuits, 2020, 55, 2174-2185.	5.4	33
6	An aptamer-based magnetic flow cytometer using matched filtering. Biosensors and Bioelectronics, 2020, 169, 112362.	10.1	14
7	Giant Magnetoresistive Biosensors for Time-Domain Magnetorelaxometry: A Theoretical Investigation and Progress Toward an Immunoassay. Scientific Reports, 2017, 7, 45493.	3.3	27
8	Giant Magnetoresistive Biosensor Array for Detecting Magnetorelaxation. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 755-764.	4.0	14
9	A GMR-based magnetic flow cytometer using matched filtering. , 2017, , .		7
10	Magnetoresistive biosensors for quantitative proteomics. , 2017, , .		0
11	Rapid Detection of Biotoxin and Pathogen, and Quick Identification of Ligand-Receptor Binding Affinity Using AlGaN/GaN High Electron Mobility Transistors. , 2016, , 103-147.		0
12	Incorporation of ligand–receptor binding‐site models and transistor‐based sensors for resolving dissociation constants and number of binding sites. IET Nanobiotechnology, 2014, 8, 10-17.	3.8	9
13	Investigation of C-terminal domain of SARS nucleocapsid protein–Duplex DNA interaction using transistors and binding-site models. Sensors and Actuators B: Chemical, 2014, 193, 334-339.	7.8	6
14	Realization of an ultra-sensitive hydrogen peroxide sensor with conductance change of horseradish peroxidase-immobilized polyaniline and investigation of the sensing mechanism. Biosensors and Bioelectronics, 2014, 55, 294-300.	10.1	28
15	Identification of ligand-receptor binding affinity using AlGaN/GaN high electron mobility transistors and binding-site models. , 2013, , .		0
16	AlGaN/GaN high electron mobility transistors for protein–peptide binding affinity study. Biosensors and Bioelectronics, 2013, 41, 717-722.	10.1	34
17	Identification of the Amount of Binding Sites and Dissociation Constants of a Ligand-Receptor Complex Using AlGaN/GaN High Electron Mobility Transistors. ACS Symposium Series, 2013, , 63-76.	0.5	0
18	Detection of Severe Acute Respiratory Syndrome (SARS) Coronavirus Nucleocapsid Protein Using AlGaN/GaN High Electron Mobility Transistors. ECS Transactions, 2013, 50, 239-243.	0.5	11

#	Article	IF	Citations
19	Investigation of the binding affinity of C-terminal domain of SARS coronavirus nucleocapsid protein to nucleotide using AlGaN/GaN high electron mobility transistors. , 2012, , .		1
20	Elucidation of dissociation constants and binding sites of antibody-antigen complex using AlGaN/GaN high electron mobility transistors. , 2012, , .		0