

Chih-Cheng Huang

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

257
citations

933264

10
h-index

1125617

13
g-index

21
all docs

21
docs citations

21
times ranked

297
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131415.	4.0	39
2	AlGaIn/GaN high electron mobility transistors for protein-peptide binding affinity study. <i>Biosensors and Bioelectronics</i> , 2013, 41, 717-722.	5.3	34
3	A 2-in-1 Temperature and Humidity Sensor With a Single FLL Wheatstone-Bridge Front-End. <i>IEEE Journal of Solid-State Circuits</i> , 2020, 55, 2174-2185.	3.5	33
4	Realization of an ultra-sensitive hydrogen peroxide sensor with conductance change of horseradish peroxidase-immobilized polyaniline and investigation of the sensing mechanism. <i>Biosensors and Bioelectronics</i> , 2014, 55, 294-300.	5.3	28
5	Giant Magnetoresistive Biosensors for Time-Domain Magnetorelaxometry: A Theoretical Investigation and Progress Toward an Immunoassay. <i>Scientific Reports</i> , 2017, 7, 45493.	1.6	27
6	A Rapid Detection of COVID-19 Viral RNA in Human Saliva Using Electrical Double Layer-Gated Field-Effect Transistor-Based Biosensors. <i>Advanced Materials Technologies</i> , 2022, 7, 2100842.	3.0	18
7	Giant Magnetoresistive Biosensor Array for Detecting Magnetorelaxation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 755-764.	2.7	14
8	An aptamer-based magnetic flow cytometer using matched filtering. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112362.	5.3	14
9	A 9.7-nA, 704-ms Magnetic Biosensor Front-End for Detecting Magneto-Relaxation. <i>IEEE Journal of Solid-State Circuits</i> , 2021, 56, 2171-2181.	3.5	12
10	Detection of Severe Acute Respiratory Syndrome (SARS) Coronavirus Nucleocapsid Protein Using AlGaIn/GaN High Electron Mobility Transistors. <i>ECS Transactions</i> , 2013, 50, 239-243.	0.3	11
11	Incorporation of ligand-receptor binding-site models and transistor-based sensors for resolving dissociation constants and number of binding sites. <i>IET Nanobiotechnology</i> , 2014, 8, 10-17.	1.9	9
12	A GMR-based magnetic flow cytometer using matched filtering. , 2017, , .		7
13	Investigation of C-terminal domain of SARS nucleocapsid protein-Duplex DNA interaction using transistors and binding-site models. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 334-339.	4.0	6
14	Rapid Drug-Screening Platform Using Field-Effect Transistor-Based Biosensors: A Study of Extracellular Drug Effects on Transmembrane Potentials. <i>Analytical Chemistry</i> , 2022, 94, 2679-2685.	3.2	3
15	Investigation of the binding affinity of C-terminal domain of SARS coronavirus nucleocapsid protein to nucleotide using AlGaIn/GaN high electron mobility transistors. , 2012, , .		1
16	Elucidation of dissociation constants and binding sites of antibody-antigen complex using AlGaIn/GaN high electron mobility transistors. , 2012, , .		0
17	Identification of ligand-receptor binding affinity using AlGaIn/GaN high electron mobility transistors and binding-site models. , 2013, , .		0
18	Identification of the Amount of Binding Sites and Dissociation Constants of a Ligand-Receptor Complex Using AlGaIn/GaN High Electron Mobility Transistors. <i>ACS Symposium Series</i> , 2013, , 63-76.	0.5	0

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19	Rapid Detection of Biotxin and Pathogen, and Quick Identification of Ligand-Receptor Binding Affinity Using AlGaIn/GaN High Electron Mobility Transistors. , 2016, , 103-147.		0
20	Magneto-resistive biosensors for quantitative proteomics. , 2017, , .		0