

Beelee Chua

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6775506/publications.pdf>

Version: 2024-02-01

37
papers

685
citations

686830

13
h-index

580395

25
g-index

37
all docs

37
docs citations

37
times ranked

756
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Development, and Evaluation of a Novel Microneedle Array-based Continuous Glucose Monitor. <i>Journal of Diabetes Science and Technology</i> , 2014, 8, 483-487.	1.3	131
2	Portable lysis apparatus for rapid single-step DNA extraction of <i>Bacillus subtilis</i> . <i>Journal of Applied Microbiology</i> , 2016, 120, 379-387.	1.4	129
3	Effect of microneedles shape on skin penetration and minimally invasive continuous glucose monitoring in vivo. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 373-381.	2.0	83
4	Development of quantum dot aptasensor and its portable analyzer for the detection of di-2-ethylhexyl phthalate. <i>Biosensors and Bioelectronics</i> , 2018, 121, 1-9.	5.3	37
5	Detection of bisphenol A using palm-size NanoAptamer analyzer. <i>Biosensors and Bioelectronics</i> , 2017, 94, 10-18.	5.3	34
6	Design, Fabrication, and Testing of a Microfabricated Corona Ionizer. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 115-123.	1.7	33
7	Development of first generation in-situ pathogen detection system (Gen1-IPDS) based on NanoGene assay for near real time <i>E. coli</i> O157:H7 detection. <i>Biosensors and Bioelectronics</i> , 2014, 54, 229-236.	5.3	25
8	Electrical Mobility Separation of Airborne Particles Using Integrated Microfabricated Corona Ionizer and Separator Electrodes. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 4-13.	1.7	20
9	Micro corona discharge based cell lysis method suitable for inhibitor resistant bacterial sensing systems. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 17-23.	4.0	18
10	Micro corona based particle steering air filter. <i>Sensors and Actuators A: Physical</i> , 2013, 196, 8-15.	2.0	15
11	Development of non-equilibrium rapid replacement aptamer assay for ultra-fast detection of phthalic acid esters. <i>Talanta</i> , 2020, 219, 121216.	2.9	15
12	A disposable bacterial lysis cartridge (BLC) suitable for an in situ water-borne pathogen detection system. <i>Analyst, The</i> , 2015, 140, 7776-7783.	1.7	14
13	Sensing absolute air pressure using micro corona discharge. <i>Sensors and Actuators A: Physical</i> , 2014, 217, 49-55.	2.0	13
14	Miniaturized corona flow sensor operating in drift mobility increment mode for low flow velocity measurement. <i>Sensors and Actuators A: Physical</i> , 2015, 224, 65-71.	2.0	13
15	Sterilization of <i>Escherichia coli</i> O157:H7 using micro corona ionizer. <i>Biomedical Microdevices</i> , 2014, 16, 355-363.	1.4	12
16	Collection of Liquid Phase Particles by Microfabricated Electrostatic Precipitator. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 1010-1019.	1.7	11
17	Detection of Cyanobacteria in Eutrophic Water Using a Portable Electrocoagulator and NanoGene Assay. <i>Environmental Science & Technology</i> , 2018, 52, 1375-1385.	4.6	11
18	Clustered Detection of Eleven Phthalic Acid Esters by Fluorescence of Graphene Quantum Dots Displaced from Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4186-4196.	4.0	11

#	ARTICLE	IF	CITATIONS
19	Microorganism-ionizing respirator with reduced breathing resistance suitable for removing airborne bacteria. <i>Sensors and Actuators B: Chemical</i> , 2018, 276, 437-446.	4.0	9
20	Detection of airborne bacteria with disposable bio-precipitator and NanoGene assay. <i>Biosensors and Bioelectronics</i> , 2016, 83, 205-212.	5.3	8
21	Vulnerability of DNA hybridization in soils is due to Mg ²⁺ ion induced DNA aggregation. <i>Soil Biology and Biochemistry</i> , 2018, 125, 300-308.	4.2	7
22	Chia seed-assisted separation and detection of polyvinyl chloride microplastics in water via gas chromatography mass spectrometry. <i>Chemosphere</i> , 2021, 273, 129599.	4.2	6
23	Sensing Contact Between Microneedle Array and Epidermis Using Frequency Response Measurement. <i>IEEE Sensors Journal</i> , 2014, 14, 333-340.	2.4	5
24	A self-powered insulin patch pump with a superabsorbent polymer as a biodegradable battery substitute. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4210-4220.	2.9	4
25	Soft Candy as an Electronic Material Suitable for Salivary Conductivity-Based Medical Diagnostics in Resource-Scarce Clinical Settings. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43984-43992.	4.0	4
26	A configuration for high flow rate, high efficiency and low pressure loss micromachined active air filtration element for airborne micro-nanoscale particles separation and removal. , 0, , .		3
27	Force based displacement measurement in micromechanical devices. <i>Applied Physics Letters</i> , 2001, 78, 4031-4033.	1.5	2
28	Wideband Mechanical Excitation by a Microcorona-Driven Vibrating Element. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 224-231.	1.7	2
29	Conductive polylactic-acid filament for dose monitoring in syringe-less wearable infusion pump. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 1080-1089.	4.0	2
30	The Implications of Fragmented Genomic DNA Size Range on the Hybridization Efficiency in NanoGene Assay. <i>Sensors</i> , 2018, 18, 2646.	2.1	2
31	Gummy bear-based gnathodynamometer for masticatory diagnostics. <i>Sensors and Actuators A: Physical</i> , 2019, 290, 80-89.	2.0	2
32	Ozonation enhancement of low cost double-stranded DNA binding dye based fluorescence measurement of total bacterial load in water. <i>RSC Advances</i> , 2021, 11, 3931-3941.	1.7	2
33	An electrohydrodynamically driven microfabricated actuator for the study of miniature ion propulsion engine and electric wind devices. , 0, , .		1
34	A simple reagent-less approach using electrical discharge as a substitution for chelating agent in addressing genomic assay inhibition by divalent cations. <i>Analyst</i> , The, 2020, 145, 6846-6858.	1.7	1
35	Sensing of Airborne Nanoparticles Using Miniaturized Whipple Double Condenser. <i>IEEE Sensors Journal</i> , 2016, 16, 6990-6996.	2.4	0
36	Single-stranded DNA probe paired aptasensor with extra dye binding sites to enhance its fluorescence response in the presence of a target compound. <i>RSC Advances</i> , 2021, 11, 21796-21804.	1.7	0

#	ARTICLE	IF	CITATIONS
37	A pH Sensing Pipette for Cross-Contamination Prevention in Industrial Fermentation. IEEE Transactions on Industrial Electronics, 2022, 69, 7461-7469.	5.2	0