

Beelee Chua

List of Publications by Year in descending order

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all docs

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37
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#	ARTICLE	IF	CITATIONS
1	A pH Sensing Pipette for Cross-Contamination Prevention in Industrial Fermentation. IEEE Transactions on Industrial Electronics, 2022, 69, 7461-7469.	5.2	0
2	Clustered Detection of Eleven Phthalic Acid Esters by Fluorescence of Graphene Quantum Dots Displaced from Gold Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 4186-4196.	4.0	11
3	Ozonation enhancement of low cost double-stranded DNA binding dye based fluorescence measurement of total bacterial load in water. RSC Advances, 2021, 11, 3931-3941.	1.7	2
4	Single-stranded DNA probe paired aptasensor with extra dye binding sites to enhance its fluorescence response in the presence of a target compound. RSC Advances, 2021, 11, 21796-21804.	1.7	0
5	Chia seed-assisted separation and detection of polyvinyl chloride microplastics in water via gas chromatography mass spectrometry. Chemosphere, 2021, 273, 129599.	4.2	6
6	Soft Candy as an Electronic Material Suitable for Salivary Conductivity-Based Medical Diagnostics in Resource-Scarce Clinical Settings. ACS Applied Materials & Interfaces, 2021, 13, 43984-43992.	4.0	4
7	A simple reagent-less approach using electrical discharge as a substitution for chelating agent in addressing genomic assay inhibition by divalent cations. Analyst, The, 2020, 145, 6846-6858.	1.7	1
8	Development of non-equilibrium rapid replacement aptamer assay for ultra-fast detection of phthalic acid esters. Talanta, 2020, 219, 121216.	2.9	15
9	A self-powered insulin patch pump with a superabsorbent polymer as a biodegradable battery substitute. Journal of Materials Chemistry B, 2020, 8, 4210-4220.	2.9	4
10	Gummy bear-based gnathodynamometer for masticatory diagnostics. Sensors and Actuators A: Physical, 2019, 290, 80-89.	2.0	2
11	Conductive polylactic-acid filament for dose monitoring in syringe-less wearable infusion pump. Sensors and Actuators B: Chemical, 2018, 258, 1080-1089.	4.0	2
12	Detection of Cyanobacteria in Eutrophic Water Using a Portable Electrocoagulator and NanoGene Assay. Environmental Science & Technology, 2018, 52, 1375-1385.	4.6	11
13	The Implications of Fragmented Genomic DNA Size Range on the Hybridization Efficiency in NanoGene Assay. Sensors, 2018, 18, 2646.	2.1	2
14	Development of quantum dot aptasensor and its portable analyzer for the detection of di-2-ethylhexyl phthalate. Biosensors and Bioelectronics, 2018, 121, 1-9.	5.3	37
15	Microorganism-ionizing respirator with reduced breathing resistance suitable for removing airborne bacteria. Sensors and Actuators B: Chemical, 2018, 276, 437-446.	4.0	9
16	Vulnerability of DNA hybridization in soils is due to Mg ²⁺ ion induced DNA aggregation. Soil Biology and Biochemistry, 2018, 125, 300-308.	4.2	7
17	Detection of bisphenol A using palm-size NanoAptamer analyzer. Biosensors and Bioelectronics, 2017, 94, 10-18.	5.3	34
18	Portable lysis apparatus for rapid single-step DNA extraction of <i>Bacillus subtilis</i> . Journal of Applied Microbiology, 2016, 120, 379-387.	1.4	129

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19	Detection of airborne bacteria with disposable bio-precipitator and NanoGene assay. <i>Biosensors and Bioelectronics</i> , 2016, 83, 205-212.	5.3	8
20	Sensing of Airborne Nanoparticles Using Miniaturized Whipple Double Condenser. <i>IEEE Sensors Journal</i> , 2016, 16, 6990-6996.	2.4	0
21	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
22	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
23	Wideband Mechanical Excitation by a Microcorona-Driven Vibrating Element. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 224-231.	1.7	2
24	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
25	Sterilization of Escherichia coli O157:H7 using micro corona ionizer. <i>Biomedical Microdevices</i> , 2014, 16, 355-363.	1.4	12
26	Development of first generation in-situ pathogen detection system (Gen1-IPDS) based on NanoGene assay for near real time E. coli O157:H7 detection. <i>Biosensors and Bioelectronics</i> , 2014, 54, 229-236.	5.3	25
27	Sensing Contact Between Microneedle Array and Epidermis Using Frequency Response Measurement. <i>IEEE Sensors Journal</i> , 2014, 14, 333-340.	2.4	5
28	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
29	Sensing absolute air pressure using micro corona discharge. <i>Sensors and Actuators A: Physical</i> , 2014, 217, 49-55.	2.0	13
30	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
31	Collection of Liquid Phase Particles by Microfabricated Electrostatic Precipitator. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 1010-1019.	1.7	11
32	Micro corona based particle steering air filter. <i>Sensors and Actuators A: Physical</i> , 2013, 196, 8-15.	2.0	15
33	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
34	Design, Fabrication, and Testing of a Microfabricated Corona Ionizer. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 115-123.	1.7	33
35	Force based displacement measurement in micromechanical devices. <i>Applied Physics Letters</i> , 2001, 78, 4031-4033.	1.5	2
36	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

#	ARTICLE	IF	CITATIONS
37	An electrohydrodynamically driven microfabricated actuator for the study of miniature ion propulsion engine and electric wind devices. , 0 , .		1