Hsien-Chang Chang

List of Publications by Year
in descending order

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27	388	840776 11	839539 18
papers	citations	h-index	g-index

28	28	28	667
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A bead-based immunofluorescence-assay on a microfluidic dielectrophoresis platform for rapid dengue virus detection. Biosensors and Bioelectronics, 2017, 95, 174-180.	10.1	67
2	Screening of Antibiotic Susceptibility to Î²-Lactam-Induced Elongation of Gram-Negative Bacteria Based on Dielectrophoresis. Analytical Chemistry, 2012, 84, 3347-3354.	6.5	46
3	A capillary dielectrophoretic chip for real-time blood cell separation from a drop of whole blood. Biomicrofluidics, 2013, 7, 24110.	2.4	42
4	In situ study of EDC/NHS immobilization on gold surface based on attenuated total reflection surface-enhanced infrared absorption spectroscopy (ATR-SEIRAS). Colloids and Surfaces B: Biointerfaces, 2019, 175, 300-305.	5.0	36
5	Characterization of the elastic and viscoelastic properties of dentin by a nanoindentation creep test. Journal of Biomechanics, 2015, 48, 2155-2161.	2.1	30
6	Aptamer-based sensor for quantitative detection of mercury (II) ions by attenuated total reflection surface enhanced infrared absorption spectroscopy. Analytica Chimica Acta, 2018, 1033, 137-147.	5.4	30
7	Antibiotic susceptibility test based on the dielectrophoretic behavior of elongated Escherichia coli with cephalexin treatment. Biomicrofluidics, 2011, 5, 21102.	2.4	26
8	Dielectrophoresis System for Testing Antimicrobial Susceptibility of Gram-Negative Bacteria to Î²-Lactam Antibiotics. Analytical Chemistry, 2017, 89, 4635-4641.	6.5	22
9	Precisely sized separation of multiple particles based on the dielectrophoresis gradient in the z-direction. Microfluidics and Nanofluidics, 2012, 12, 201-211.	2.2	14
10	Chemo-photothermal effects of doxorubicin/silicaâ€“carbon hollow spheres on liver cancer. RSC Advances, 2018, 8, 36775-36784.	3.6	14
11	The photothermal effect of silicaâ€“carbon hollow sphereâ€“concanavalin A on liver cancer cells. Journal of Materials Chemistry B, 2015, 3, 2447-2454.	5.8	12
12	An AC electrokinetics-based electrochemical aptasensor for the rapid detection of microRNA-155. Biosensors and Bioelectronics, 2022, 199, 113847.	10.1	12
13	Stepwise gray-scale light-induced electric field gradient for passive and continuous separation of microparticles. Microfluidics and Nanofluidics, 2012, 12, 95-105.	2.2	9
14	Simple In-House Fabrication of Microwells for Generating Uniform Hepatic Multicellular Cancer Aggregates and Discovering Novel Therapeutics. Materials, 2019, 12, 3308.	2.9	8
15	EQCM Studies of Paraquat on Gold Electrode Modified with Electropolymerized Film. Electroanalysis, 1998, 10, 1275-1280.	2.9	7
16	Anodic Oxidation Behaviors of Formaldehyde at Boronâ€Doped Diamond Electrodes. Journal of the Chinese Chemical Society, 2006, 53, 839-844.	1.4	7
17	Electrocatalytic Activity of Methanol Oxidation at a Boronâ€doped Diamond Electrode in Alkaline Solution. Journal of the Chinese Chemical Society, 2006, 53, 1269-1274.	1.4	2
18	Study on the Cell Mechanics of MDCK Cells by Elastic Micro-pillars Arrays. , 2007, , .		1

#	Article	IF	Citations
19	Immunogold Nanoparticle Combing Surface-Enhanced Raman Scattering Method for Protein A Detection. , 2007, , .		0
20	Manipulation of Bioparticles on Electrodeless Dielectrophoretic Chip Based on AC Electrokinetic Control. , 2007, , .		0
21	Study on the Gelsolin Effects in Oral Epithelia Carcinoma (OEC) Cells by Atomic Force Microscopy and Micro-pillars Arrays. , 2007, , .		0
22	Application of Conductometric Capillary Electrophoresis Microchip in Detect Organic and Inorganic Ions. , 2007, , .		0
23	Combining Raman scattering technique with dielectrophoresis chip for clinical isolates Helicobacter pylori analysis. , 2008, , .		0
24	Development and application of dielectrophoretic chip for rapid detection of food bacteria. , 2008, , .		0
25	Continuous monitoring of histamine release from single KU-812 cell with an electrochemical cellular chip. , 2009, , .		0
26	USING IMPEDANCE-SENSING SYSTEM TO EVALUATE THE EFFECT OF WOUND HEALING BEHAVIOR ON CELLS TREATED BY VITAMIN C. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 445-448.	0.6	0
27	A novel SERS active particle with highly bio-organics absorption affinity for the description of bacteria fingerprint. , 2009, , .		0