

Ting-Hsuan Chen

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

830
citations

687220

13
h-index

501076

28
g-index

37
all docs

37
docs citations

37
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees. <i>Science Advances</i> , 2022, 8, .	4.7	16
2	Microfluidic particle accumulation for visual quantitation of copper ions. <i>Mikrochimica Acta</i> , 2021, 188, 176.	2.5	5
3	Portable microfluidic device with thermometer-like display for real-time visual quantitation of Cadmium(II) contamination in drinking water. <i>Analytica Chimica Acta</i> , 2021, 1160, 338444.	2.6	12
4	Visual quantitation of silver contamination in fresh water via accumulative length of microparticles in capillary-driven microfluidic devices. <i>Talanta</i> , 2021, 235, 122707.	2.9	2
5	Visual Quantitation of Copper Ions Based on a Microfluidic Particle Dam Reflecting the Cu(II)-Catalyzed Oxidative Damage of DNA. <i>Biosensors</i> , 2021, 11, 487.	2.3	1
6	Visual detection of lead ions based on nanoparticle-amplified magnetophoresis and Mie scattering. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127564.	4.0	19
7	Microfluidic Particle Dam for Visual and Quantitative Detection of Lead Ions. <i>ACS Sensors</i> , 2020, 5, 19-23.	4.0	39
8	Cascade-Amplified Microfluidic Particle Accumulation Enabling Quantification of Lead Ions through Visual Inspection. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128727.	4.0	7
9	Early Committed Clockwise Cell Chirality Upregulates Adipogenic Differentiation of Mesenchymal Stem Cells. <i>Advanced Biology</i> , 2020, 4, 2000161.	3.0	6
10	Microfluidic immunoassay for detection of serological antibodies: A potential tool for rapid evaluation of immunity against SARS-CoV-2. <i>Biomicrofluidics</i> , 2020, 14, 061507.	1.2	13
11	Remnant Effects of Culture Density on Cell Chirality After Reseeding. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3944-3953.	2.6	5
12	Protein-Substrate Adhesion in Microcontact Printing Regulates Cell Behavior. <i>Langmuir</i> , 2018, 34, 1750-1759.	1.6	26
13	Cover Image, Volume 115, Number 10, October 2018. <i>Biotechnology and Bioengineering</i> , 2018, 115, i.	1.7	0
14	Outline-etching image segmentation reveals enhanced cell chirality through intercellular alignment. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2595-2603.	1.7	8
15	A Microfluidic Platform for Investigating Transmembrane Pressure-Induced Glomerular Leakage. <i>Micromachines</i> , 2018, 9, 228.	1.4	9
16	Preferred cell alignment along concave microgrooves. <i>RSC Advances</i> , 2017, 7, 6788-6794.	1.7	18
17	Discrete Element Model for Suppression of Coffee-Ring Effect. <i>Scientific Reports</i> , 2017, 7, 42817.	1.6	20
18	Directing three-dimensional multicellular morphogenesis by self-organization of vascular mesenchymal cells in hyaluronic acid hydrogels. <i>Journal of Biological Engineering</i> , 2017, 11, 12.	2.0	16

#	ARTICLE	IF	CITATIONS
19	Microfluidic bead trap as a visual bar for quantitative detection of oligonucleotides. Lab on A Chip, 2017, 17, 3240-3245.	3.1	12
20	Investigation of Drug Cocktail Effects on Cancer Cell-Spheroids Using a Microfluidic Drug-Screening Assay. Micromachines, 2017, 8, 167.	1.4	13
21	Chiral Orientation of Skeletal Muscle Cells Requires Rigid Substrate. Micromachines, 2017, 8, 181.	1.4	9
22	Colorimetric detection of active botulinum neurotoxin using Cu ²⁺ mediated gold nanoparticles agglomeration. Sensors and Actuators B: Chemical, 2016, 235, 563-567.	4.0	9
23	Nanowire Magnetoscope Reveals a Cellular Torque with Left-Right Bias. ACS Nano, 2016, 10, 7409-7417.	7.3	29
24	Substrate Stiffness Regulates the Development of Left-Right Asymmetry in Cell Orientation. ACS Applied Materials & Interfaces, 2016, 8, 17976-17986.	4.0	11
25	Three dimensional tubular structure self-assembled by vascular mesenchymal cells at stiffness interfaces of hydrogels. Biomedicine and Pharmacotherapy, 2016, 83, 1203-1211.	2.5	13
26	Colorimetric detection of botulinum neurotoxin activity using gold nanoparticles. , 2015, , .		0
27	Optimization of Combinatory Nicking Endonucleases for Accurate Identification of Nucleic Acids in Low Abundance. Journal of the Association for Laboratory Automation, 2015, 20, 411-417.	2.8	2
28	Enzyme-Free Amplification by Nano Sticky Balls for Visual Detection of ssDNA/RNA Oligonucleotides. ACS Applied Materials & Interfaces, 2015, 7, 22821-22830.	4.0	12
29	Visual detection of nucleic acids based on Mie scattering and the magnetophoretic effect. Analyst, The, 2015, 140, 7876-7885.	1.7	6
30	Hybridization-induced suppression of coffee ring effect for nucleic acid detection. Sensors and Actuators B: Chemical, 2015, 206, 56-64.	4.0	28
31	Tissue Regeneration: From Synthetic Scaffolds to Self-Organizing Morphogenesis. Current Stem Cell Research and Therapy, 2014, 9, 432-443.	0.6	13
32	Tissue morphology controlled by micropatterning and self-assembly of vascular mesenchymal cells. , 2013, , .		1
33	Patterns of periodic holes created by increased cell motility. Interface Focus, 2012, 2, 457-464.	1.5	15
34	Directing tissue morphogenesis via self-assembly of vascular mesenchymal cells. Biomaterials, 2012, 33, 9019-9026.	5.7	39
35	Left-Right Symmetry Breaking in Tissue Morphogenesis via Cytoskeletal Mechanics. Circulation Research, 2012, 110, 551-559.	2.0	109
36	Nanochromatography Driven by the Coffee Ring Effect. Analytical Chemistry, 2011, 83, 1871-1873.	3.2	277