Ting-Hsuan Chen

List of Publications by Year
in descending order

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	Nanochromatography Driven by the Coffee Ring Effect. Analytical Chemistry, 2011, 83, 1871-1873.	3.2	277
2	Left-Right Symmetry Breaking in Tissue Morphogenesis via Cytoskeletal Mechanics. Circulation Research, 2012, 110, 551-559.	2.0	109
3	Directing tissue morphogenesis via self-assembly of vascular mesenchymal cells. Biomaterials, 2012, 33, 9019-9026.	5.7	39
4	Microfluidic Particle Dam for Visual and Quantitative Detection of Lead Ions. ACS Sensors, 2020, 5, 19-23.	4.0	39
5	Nanowire Magnetoscope Reveals a Cellular Torque with Leftâ€“Right Bias. ACS Nano, 2016, 10, 7409-7417.	7.3	29
6	Hybridization-induced suppression of coffee ring effect for nucleic acid detection. Sensors and Actuators B: Chemical, 2015, 206, 56-64.	4.0	28
7	Proteinâ€“Substrate Adhesion in Microcontact Printing Regulates Cell Behavior. Langmuir, 2018, 34, 1750-1759.	1.6	26
8	Discrete Element Model for Suppression of Coffee-Ring Effect. Scientific Reports, 2017, 7, 42817.	1.6	20
9	Visual detection of lead ions based on nanoparticle-amplified magnetophoresis and Mie scattering. Sensors and Actuators B: Chemical, 2020, 306, 127564.	4.0	19
10	Preferred cell alignment along concave microgrooves. RSC Advances, 2017, 7, 6788-6794.	1.7	18
11	Directing three-dimensional multicellular morphogenesis by self-organization of vascular mesenchymal cells in hyaluronic acid hydrogels. Journal of Biological Engineering, 2017, 11, 12.	2.0	16
12	Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees. Science Advances, 2022, 8, .	4.7	16
13	Patterns of periodic holes created by increased cell motility. Interface Focus, 2012, 2, 457-464.	1.5	15
14	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
15	Investigation of Drug Cocktail Effects on Cancer Cell-Spheroids Using a Microfluidic Drug-Screening Assay. Micromachines, 2017, 8, 167.	1.4	13
16	Microfluidic immunoassay for detection of serological antibodies: A potential tool for rapid evaluation of immunity against SARS-CoV-2. Biomicrofluidics, 2020, 14, 061507.	1.2	13
17	Tissue Regeneration: From Synthetic Scaffolds to Self-Organizing Morphogenesis. Current Stem Cell Research and Therapy, 2014, 9, 432-443.	0.6	13
18	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

#	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	Portable microfluidic device with thermometer-like display for real-time visual quantitation of Cadmium(II) contamination in drinking water. Analytica Chimica Acta, 2021, 1160, 338444.	2.6	12
21	Substrate Stiffness Regulates the Development of Leftâ€“Right Asymmetry in Cell Orientation. ACS Applied Materials & Interfaces, 2016, 8, 17976-17986.	4.0	11
22	Colorimetric detection of active botulinum neurotoxin using Cu2+ mediated gold nanoparticles agglomeration. Sensors and Actuators B: Chemical, 2016, 235, 563-567.	4.0	9
23	Chiral Orientation of Skeletal Muscle Cells Requires Rigid Substrate. Micromachines, 2017, 8, 181.	1.4	9
24	A Microfluidic Platform for Investigating Transmembrane Pressure-Induced Glomerular Leakage. Micromachines, 2018, 9, 228.	1.4	9
25	Outlineâ€etching image segmentation reveals enhanced cell chirality through intercellular alignment. Biotechnology and Bioengineering, 2018, 115, 2595-2603.	1.7	8
26	Cascade-Amplified Microfluidic Particle Accumulation Enabling Quantification of Lead Ions through Visual Inspection. Sensors and Actuators B: Chemical, 2020, 324, 128727.	4.0	7
27	Visual detection of nucleic acids based on Mie scattering and the magnetophoretic effect. Analyst, The, 2015, 140, 7876-7885.	1.7	6
28	Early Committed Clockwise Cell Chirality Upregulates Adipogenic Differentiation of Mesenchymal Stem Cells. Advanced Biology, 2020, 4, 2000161.	3.0	6
29	Remnant Effects of Culture Density on Cell Chirality After Reseeding. ACS Biomaterials Science and Engineering, 2019, 5, 3944-3953.	2.6	5
30	Microfluidic particle accumulation for visual quantitation of copper ions. Mikrochimica Acta, 2021, 188, 176.	2.5	5
31	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
32	Visual quantitation of silver contamination in fresh water via accumulative length of microparticles in capillary-driven microfluidic devices. Talanta, 2021, 235, 122707.	2.9	2
33	Tissue morphology controlled by micropatterning and self-assembly of vascular mesenchymal cells. , 2013, , .		1
34	Visual Quantitation of Copper Ions Based on a Microfluidic Particle Dam Reflecting the Cu(II)-Catalyzed Oxidative Damage of DNA. Biosensors, 2021, 11, 487.	2.3	1
35	Colorimetric detection of botulinum neurotoxin activity using gold nanoparticles. , 2015, , .		0
36	Cover Image, Volume 115, Number 10, October 2018. Biotechnology and Bioengineering, 2018, 115, i.	1.7	0