

Chia-Wen Tsao

List of Publications by Year in descending order

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41
papers

1,691
citations

566801

15
h-index

315357

38
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42
all docs

42
docs citations

42
times ranked

2697
citing authors

#	ARTICLE	IF	CITATIONS
1	Bonding of thermoplastic polymer microfluidics. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 1-16.	1.0	508
2	Active droplet sorting in microfluidics: a review. <i>Lab on A Chip</i> , 2017, 17, 751-771.	3.1	250
3	Polymer Microfluidics: Simple, Low-Cost Fabrication Process Bridging Academic Lab Research to Commercialized Production. <i>Micromachines</i> , 2016, 7, 225.	1.4	244
4	Polymer Microchips Integrating Solid-Phase Extraction and High-Performance Liquid Chromatography Using Reversed-Phase Polymethacrylate Monoliths. <i>Analytical Chemistry</i> , 2009, 81, 2545-2554.	3.2	107
5	Electrical stimulation to promote osteogenesis using conductive polypyrrole films. <i>Materials Science and Engineering C</i> , 2014, 37, 28-36.	3.8	107
6	High Sensitivity and High Detection Specificity of Gold-Nanoparticle-Grafted Nanostructured Silicon Mass Spectrometry for Glucose Analysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22630-22637.	4.0	51
7	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. <i>Analytical Chemistry</i> , 2017, 89, 4387-4391.	3.2	48
8	Dynamic Electrowetting on Nanofilament Silicon for Matrix-Free Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 2973-2981.	3.2	42
9	Rapid analysis of abused drugs using nanostructured silicon surface assisted laser desorption/ionization mass spectrometry. <i>Analyst, The</i> , 2012, 137, 654-661.	1.7	28
10	Bonding of thermoplastic microfluidics by using dry adhesive tape. <i>RSC Advances</i> , 2020, 10, 30289-30296.	1.7	27
11	Use of Biotinylated Chitosan for Substrate-Mediated Gene Delivery. <i>Bioconjugate Chemistry</i> , 2012, 23, 1587-1599.	1.8	24
12	Interfacing microfluidics to LDI-MS by automatic robotic spotting. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 777-787.	1.0	22
13	Recent Advances in Thermoplastic Microfluidic Bonding. <i>Micromachines</i> , 2022, 13, 486.	1.4	21
14	Rapid polymer microchannel fabrication by hot roller embossing process. <i>Microsystem Technologies</i> , 2012, 18, 713-722.	1.2	20
15	Highly stretchable conductive polypyrrole film on a three dimensional porous polydimethylsiloxane surface fabricated by a simple soft lithography process. <i>RSC Advances</i> , 2016, 6, 113344-113351.	1.7	16
16	Microfluidic platform for human placenta-derived multipotent stem cells culture and applied for enhanced neuronal differentiation. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 587-598.	1.0	15
17	Nanoscale silicon surface-assisted laser desorption/ionization mass spectrometry: environment stability and activation by simple vacuum oven desiccation. <i>Analyst, The</i> , 2016, 141, 4973-4981.	1.7	14
18	Exploration of Fungal Metabolic Interactions Using Imaging Mass Spectrometry on Nanostructured Silicon. <i>Journal of Natural Products</i> , 2018, 81, 1527-1533.	1.5	14

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19	Droplet formation from hydrodynamically coupled capillaries for parallel microfluidic contact spotting. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 025013.	1.5	11
20	Magnetic microparticle-polydimethylsiloxane composite for reversible microchannel bonding. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 2-11.	2.8	11
21	Surface-enhanced Raman scattering (SERS) spectroscopy on localized silver nanoparticle-decorated porous silicon substrate. <i>Analyst, The</i> , 2021, 146, 7645-7652.	1.7	11
22	Fluid Flow Shear Stress Stimulation on a Multiplex Microfluidic Device for Rat Bone Marrow Stromal Cell Differentiation Enhancement. <i>Micromachines</i> , 2015, 6, 1996-2009.	1.4	10
23	Thermoplastic Micromodel Investigation of Two-Phase Flows in a Fractured Porous Medium. <i>Micromachines</i> , 2017, 8, 38.	1.4	10
24	Hydrostatic pressure enhances mitomycin C induced apoptosis in urothelial carcinoma cells. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2014, 32, 26.e17-26.e24.	0.8	9
25	A piezo-ring-on-chip microfluidic device for simple and low-cost mass spectrometry interfacing. <i>Analyst, The</i> , 2018, 143, 981-988.	1.7	8
26	The effect of channel aspect ratio on air entrapment during imbibition in soil-on-a-chip micromodels with 2D and 2.5D pore structures. <i>Lab on A Chip</i> , 2021, 21, 385-396.	3.1	8
27	Collective sub-diffusive dynamics in bacterial carpet microfluidic channel. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	7
28	Using MEMS-based inertial sensor with ankle foot orthosis for telerehabilitation and its clinical evaluation in brain injuries and total knee replacement patients. <i>Microsystem Technologies</i> , 2016, 22, 625-634.	1.2	7
29	Cyclic Block Copolymer Microchannel Fabrication and Sealing for Microfluidics Applications. <i>Inventions</i> , 2018, 3, 49.	1.3	7
30	Preparation of nanostructured silicon surface for mass spectrometry analysis by an all-wet fabrication process using electroless metal deposition and metal assisted etching. <i>International Journal of Mass Spectrometry</i> , 2012, 321-322, 8-13.	0.7	6
31	A stretchable conductive Polypyrrole Polydimethylsiloxane device fabricated by simple soft lithography and oxygen plasma treatment. <i>Biomedical Microdevices</i> , 2018, 20, 30.	1.4	6
32	Polymer Microchannel and Micromold Surface Polishing for Rapid, Low-Quantity Polydimethylsiloxane and Thermoplastic Microfluidic Device Fabrication. <i>Polymers</i> , 2020, 12, 2574.	2.0	5
33	A parallel fully coupled implicit domain decomposition method for numerical simulation of microfluidic mixing in 3D. <i>International Journal of Computer Mathematics</i> , 2013, 90, 615-629.	1.0	4
34	Nanofilament Silicon for Matrix-Free Laser Desorption/Ionization Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2011, 790, 183-189.	0.4	3
35	Numerical simulation of droplet-based microfluidic chip interfacing with laser desorption/ionisation mass spectrometry target substrate. <i>Micro and Nano Letters</i> , 2015, 10, 192-197.	0.6	2
36	Microwave-Assisted Solvent Bonding for Polymethyl Methacrylate Microfluidic Device. <i>Micromachines</i> , 2022, 13, 1131.	1.4	2

#	ARTICLE	IF	CITATIONS
37	Effects of silicon nanostructure morphology at different metal catalyst layer thicknesses in Metal-assisted etching. , 2011, , .		1
38	Effects of Metal Layer Morphology to Silicon Nanostructure Formation in Metal-Assisted Etching. Journal of Nanoscience and Nanotechnology, 2012, 12, 2742-2749.	0.9	1
39	Mechanical-stress microfluidic device for stem cell stimulation. , 2014, , .		1
40	Nanostructured Silicon Substrate for Desorption/Ionization on Silicon Mass Spectrometry Coupled with Titanium Oxide and Zinc Oxide Coated Magnetic Nanoparticles for Phosphopeptide Analysis. Journal of Nanoscience and Nanotechnology, 2017, 17, 2054-2060.	0.9	1
41	Euler characteristic during drying of porous media. Drying Technology, 2022, 40, 781-795.	1.7	1