

Younghak Cho

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

727
citations

687363

13
h-index

552781

26
g-index

45
all docs

45
docs citations

45
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfabricated Microbial Fuel Cell Arrays Reveal Electrochemically Active Microbes. PLoS ONE, 2009, 4, e6570.	2.5	134
2	Microchannel Fabrication on Glass Materials for Microfluidic Devices. International Journal of Precision Engineering and Manufacturing, 2019, 20, 479-495.	2.2	102
3	Whole-Cell Impedance Analysis for Highly and Poorly Metastatic Cancer Cells. Journal of Microelectromechanical Systems, 2009, 18, 808-817.	2.5	66
4	Research trends in biomimetic medical materials for tissue engineering: 3D bioprinting, surface modification, nano/micro-technology and clinical aspects in tissue engineering of cartilage and bone. Biomaterials Research, 2016, 20, 10.	6.9	54
5	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. ACS Applied Materials & Interfaces, 2018, 10, 33891-33900.	8.0	31
6	Highly Secure Plasmonic Encryption Keys Combined with Upconversion Luminescence Nanocrystals. Advanced Functional Materials, 2018, 28, 1800369.	14.9	28
7	A continuous-flow acoustofluidic cytometer for single-cell mechanotyping. Lab on A Chip, 2019, 19, 387-393.	6.0	27
8	Microfluidic acoustophoretic force based low-concentration oil separation and detection from the environment. Lab on A Chip, 2014, 14, 947.	6.0	22
9	Broadband light absorption using a multilayered gap surface plasmon resonator. Applied Physics A: Materials Science and Processing, 2014, 116, 857-861.	2.3	22
10	Fabrication of microfluidic channels with various cross-sectional shapes using anisotropic etching of Si and self-alignment. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	21
11	Single Si submicron wire photodetector fabricated by simple wet etching process. Materials Letters, 2015, 160, 562-565.	2.6	19
12	Facile Fabrication of High-Definition Hierarchical Wrinkle Structures for Investigating the Geometry-Sensitive Fate Commitment of Human Neural Stem Cells. ACS Applied Materials & Interfaces, 2019, 11, 17247-17255.	8.0	19
13	Temperature distribution measurement of Au micro-heater in microfluidic channel using IR microscope. International Journal of Precision Engineering and Manufacturing, 2015, 16, 367-372.	2.2	15
14	Wettability of microstructured Pyrex glass with hydrophobic and hydrophilic properties. Surface and Coatings Technology, 2017, 319, 213-218.	4.8	15
15	Single-cell compressibility quantification for assessing metastatic potential of cancer cells through multi-frequency acoustophoresis. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	14
16	Inertia-Driven Acoustophoresis Hybrid Microfluidic Device for Rapid and Efficient Cell Separation. Sensors, 2022, 22, 4709.	3.8	12
17	Fabrication of sharp knife-edged micro probe card combined with shadow mask deposition. Sensors and Actuators A: Physical, 2004, 114, 327-331.	4.1	11
18	Micro/Nano Surface Topography and 3D Bioprinting of Biomaterials in Tissue Engineering. Journal of Nanoscience and Nanotechnology, 2016, 16, 8909-8922.	0.9	10

#	ARTICLE	IF	CITATIONS
19	Wetting properties of hybrid structure with hydrophilic ridges and hydrophobic channels. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	9
20	Three-Dimensional Spheroid Culture on Polymer-Coated Surface Potentiate Stem Cell Functions via Enhanced Cell-Extracellular Matrix Interactions. ACS Biomaterials Science and Engineering, 2020, 6, 2240-2250.	5.2	9
21	Particle Focusing under Newtonian and Viscoelastic Flow in a Straight Rhombic Microchannel. Micromachines, 2020, 11, 998.	2.9	8
22	Fast thermal response of silicon nanowire-heater for heat shock generation. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 45-52.	4.9	7
23	Liquid metal embedded real time microfluidic flow pressure monitoring sensor. Sensors and Actuators A: Physical, 2020, 305, 111909.	4.1	7
24	A superoleophobic surface with anisotropic flow of hexadecane droplets. Microsystem Technologies, 2017, 23, 421-427.	2.0	6
25	Effects of Grooved Surface with Nano-Ridges on Amplification of Hydrophobic Property. Advanced Materials Research, 0, 684, 26-31.	0.3	5
26	Fabrication of a Ultrathin Ag Film on a Thin Cu Film by Low-Temperature Immersion Plating in an Glycol-Based Solution. Journal of the Microelectronics and Packaging Society, 2014, 21, 79-84.	0.1	5
27	Superboosted Hybrid Plasmonic Upconversion Process for Photodetection at 1550nm Wavelength. Advanced Materials, 2021, , 2106225.	21.0	5
28	High-Aspect-Ratio Microfluidic Channel with Parallelogram Cross-Section for Monodisperse Droplet Generation. Biosensors, 2022, 12, 118.	4.7	5
29	Fabrication of anisotropic wetting surface with asymmetric structures using geometrical similarity and capillary force. Micro and Nano Systems Letters, 2019, 7, .	3.7	4
30	Surface Polishing of Polymer Microlens with Solvent Vapor. Journal of the Korean Society for Precision Engineering, 2013, 30, 644-649.	0.2	4
31	Fabrication of PMMA Acoustophoretic Microfluidic Chip Using Plasma Assisted Bonding. Journal of the Korean Society for Precision Engineering, 2017, 34, 343-347.	0.2	4
32	Fabrication of Microchannel with Parallelogram Cross-Section Using Si Anisotropic Wet Etching and Self-Alignment. Journal of the Korean Society for Precision Engineering, 2019, 36, 287-291.	0.2	4
33	Flow instability of semicrystalline polymer melt during micro-injection molding. Journal of Micromechanics and Microengineering, 2014, 24, 085015.	2.6	3
34	Inertial focusing in a parallelogram profiled microchannel over a range of aspect ratios. Micro and Nano Systems Letters, 2019, 7, .	3.7	3
35	Acoustofluidic microdevice for precise control of pressure nodal positions. Microfluidics and Nanofluidics, 2020, 24, 1.	2.2	2
36	Development of MEMS Device for Electrical and Physical Characterization of Single Cell. IEEJ Transactions on Sensors and Micromachines, 2006, 126, 89-94.	0.1	2

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37	Fabrication of Superoleophobic Surface with Anisotropic Wettability Using Silicon Wafer. Journal of the Korean Society of Manufacturing Technology Engineers, 2014, 23, 533-538.	0.2	2
38	Fabrication of Anisotropically Oleophobic Surface with Inverse-Tapered Structure Using Micromolding in Capillaries and Microtransfer Molding. Journal of the Korean Society for Precision Engineering, 2019, 36, 413-418.	0.2	2
39	Fabrication and Characterization of Polymer Microlens using Solvent-vapor-assisted Reflow. Journal of the Korean Society for Precision Engineering, 2015, 32, 299-305.	0.2	2
40	Particle Focusing in a Straight Microchannel with Non-Rectangular Cross-Section. Micromachines, 2022, 13, 151.	2.9	2
41	Thermal characterisation of high-aspect-ratio nanoheaters using IR thermography. International Journal of Nanomanufacturing, 2014, 10, 513.	0.3	1
42	A Study on the Electrical Characterization of Top-down Fabricated Si Nanowire ISFET. Journal of the Korean Society for Precision Engineering, 2013, 30, 128-133.	0.2	0
43	Development of a Portable Fluorescent Detection Device for Microalgae. Journal of the Korean Society for Precision Engineering, 2019, 36, 901-906.	0.2	0
44	Fabrication of Acoustophoretic Device with Lateral Polymer Wall for Micro-Particle Separation. Journal of the Korean Society for Precision Engineering, 2022, 39, 379-384.	0.2	0