

Younghak Cho

List of Publications by Year in descending order

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papers

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docs citations

45
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle Focusing in a Straight Microchannel with Non-Rectangular Cross-Section. <i>Micromachines</i> , 2022, 13, 151.	2.9	2
2	High-Aspect-Ratio Microfluidic Channel with Parallelogram Cross-Section for Monodisperse Droplet Generation. <i>Biosensors</i> , 2022, 12, 118.	4.7	5
3	Fabrication of Acoustophoretic Device with Lateral Polymer Wall for Micro-Particle Separation. <i>Journal of the Korean Society for Precision Engineering</i> , 2022, 39, 379-384.	0.2	0
4	Inertia-Enhanced Acoustophoresis Hybrid Microfluidic Device for Rapid and Efficient Cell Separation. <i>Sensors</i> , 2022, 22, 4709.	3.8	12
5	Super-Boosted Hybrid Plasmonic Upconversion Process for Photodetection at 1550nm Wavelength. <i>Advanced Materials</i> , 2021, , 2106225.	21.0	5
6	Particle Focusing under Newtonian and Viscoelastic Flow in a Straight Rhombic Microchannel. <i>Micromachines</i> , 2020, 11, 998.	2.9	8
7	Acoustofluidic microdevice for precise control of pressure nodal positions. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	2
8	Liquid metal embedded real time microfluidic flow pressure monitoring sensor. <i>Sensors and Actuators A: Physical</i> , 2020, 305, 111909.	4.1	7
9	Three-Dimensional Spheroid Culture on Polymer-Coated Surface Potentiate Stem Cell Functions via Enhanced Cell-Extracellular Matrix Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2240-2250.	5.2	9
10	A continuous-flow acoustofluidic cytometer for single-cell mechanotyping. <i>Lab on A Chip</i> , 2019, 19, 387-393.	6.0	27
11	Facile Fabrication of High-Definition Hierarchical Wrinkle Structures for Investigating the Geometry-Sensitive Fate Commitment of Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17247-17255.	8.0	19
12	Microchannel Fabrication on Glass Materials for Microfluidic Devices. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 479-495.	2.2	102
13	Fabrication of microfluidic channels with various cross-sectional shapes using anisotropic etching of Si and self-alignment. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	21
14	Inertial focusing in a parallelogram profiled microchannel over a range of aspect ratios. <i>Micro and Nano Systems Letters</i> , 2019, 7, .	3.7	3
15	Fabrication of anisotropic wetting surface with asymmetric structures using geometrical similarity and capillary force. <i>Micro and Nano Systems Letters</i> , 2019, 7, .	3.7	4
16	Fabrication of Microchannel with Parallelogram Cross-Section Using Si Anisotropic Wet Etching and Self-Alignment. <i>Journal of the Korean Society for Precision Engineering</i> , 2019, 36, 287-291.	0.2	4
17	Fabrication of Anisotropically Oleophobic Surface with Inverse-Tapered Structure Using Micromolding in Capillaries and Microtransfer Molding. <i>Journal of the Korean Society for Precision Engineering</i> , 2019, 36, 413-418.	0.2	2
18	Development of a Portable Fluorescent Detection Device for Microalgae. <i>Journal of the Korean Society for Precision Engineering</i> , 2019, 36, 901-906.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Highly Secure Plasmonic Encryption Keys Combined with Upconversion Luminescence Nanocrystals. <i>Advanced Functional Materials</i> , 2018, 28, 1800369.	14.9	28
20	Wetting properties of hybrid structure with hydrophilic ridges and hydrophobic channels. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	9
21	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33891-33900.	8.0	31
22	Single-cell compressibility quantification for assessing metastatic potential of cancer cells through multi-frequency acoustophoresis. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	14
23	A superoleophobic surface with anisotropic flow of hexadecane droplets. <i>Microsystem Technologies</i> , 2017, 23, 421-427.	2.0	6
24	Wettability of microstructured Pyrex glass with hydrophobic and hydrophilic properties. <i>Surface and Coatings Technology</i> , 2017, 319, 213-218.	4.8	15
25	Fast thermal response of silicon nanowire-heater for heat shock generation. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 45-52.	4.9	7
26	Fabrication of PMMA Acoustophoretic Microfluidic Chip Using Plasma Assisted Bonding. <i>Journal of the Korean Society for Precision Engineering</i> , 2017, 34, 343-347.	0.2	4
27	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. <i>Biomaterials Research</i> , 2016, 20, 10.	6.9	54
28	Micro/Nano Surface Topography and 3D Bioprinting of Biomaterials in Tissue Engineering. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8909-8922.	0.9	10
29	Single Si submicron wire photodetector fabricated by simple wet etching process. <i>Materials Letters</i> , 2015, 160, 562-565.	2.6	19
30	Temperature distribution measurement of Au micro-heater in microfluidic channel using IR microscope. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 367-372.	2.2	15
31	Fabrication and Characterization of Polymer Microlens using Solvent-vapor-assisted Reflow. <i>Journal of the Korean Society for Precision Engineering</i> , 2015, 32, 299-305.	0.2	2
32	Flow instability of semicrystalline polymer melt during micro-injection molding. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 085015.	2.6	3
33	Microfluidic acoustophoretic force based low-concentration oil separation and detection from the environment. <i>Lab on A Chip</i> , 2014, 14, 947.	6.0	22
34	Broadband light absorption using a multilayered gap surface plasmon resonator. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 857-861.	2.3	22
35	Thermal characterisation of high-aspect-ratio nanoheaters using IR thermography. <i>International Journal of Nanomanufacturing</i> , 2014, 10, 513.	0.3	1
36	Fabrication of a Ultrathin Ag Film on a Thin Cu Film by Low-Temperature Immersion Plating in an Glycol-Based Solution. <i>Journal of the Microelectronics and Packaging Society</i> , 2014, 21, 79-84.	0.1	5

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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	Surface Polishing of Polymer Microlens with Solvent Vapor. Journal of the Korean Society for Precision Engineering, 2013, 30, 644-649.	0.2	4
39	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
40	Microfabricated Microbial Fuel Cell Arrays Reveal Electrochemically Active Microbes. PLoS ONE, 2009, 4, e6570.	2.5	134
41	Whole-Cell Impedance Analysis for Highly and Poorly Metastatic Cancer Cells. Journal of Microelectromechanical Systems, 2009, 18, 808-817.	2.5	66
42	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
43	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
44	Effects of Grooved Surface with Nano-Ridges on Amplification of Hydrophobic Property. Advanced Materials Research, 0, 684, 26-31.	0.3	5