

# Seok Chung

## List of Publications by Year in descending order

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Version: 2024-02-01

122  
papers

7,471  
citations

76031

42  
h-index

66518

82  
g-index

125  
all docs

125  
docs citations

125  
times ranked

10681  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A high-throughput biomimetic bone-on-a-chip platform with artificial intelligence-assisted image analysis for osteoporosis drug testing. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .       | 3.9 | 17        |
| 2  | Microfluidic one-directional interstitial flow generation from cancer to cancer associated fibroblast. <i>Acta Biomaterialia</i> , 2022, 144, 258-265.   | 4.1 | 10        |
| 3  | Recapitulated Crosstalk between Cerebral Metastatic Lung Cancer Cells and Brain Perivascular Tumor Microenvironment in a Microfluidic Co-Culture Chip. <i>Advanced Science</i> , 2022, 9, .                  | 5.6 | 12        |
| 4  | Generation of uniform liver spheroids from human pluripotent stem cells for imaging-based drug toxicity analysis. <i>Biomaterials</i> , 2021, 269, 120529.   | 5.7 | 38        |
| 5  | Nano-Interstice Driven Powerless Blood Plasma Extraction in a Membrane Filter Integrated Microfluidic Device. <i>Sensors</i> , 2021, 21, 1366.   | 2.1 | 6         |
| 6  | Microfluidic Reconstitution of Tumor Microenvironment for Nanomedical Applications. <i>Advanced Healthcare Materials</i> , 2021, 10, 2002122.  | 3.9 | 4         |
| 7  | Highly efficient and scalable biomarker preconcentrator based on nanoelectrokinetics. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112904.  | 5.3 | 7         |
| 8  | Mutation-specific non-canonical pathway of PTEN as a distinct therapeutic target for glioblastoma. <i>Cell Death and Disease</i> , 2021, 12, 374.  | 2.7 | 15        |
| 9  | Transcriptomic profiling of three-dimensional cholangiocyte spheroids long term exposed to repetitive <i>Clonorchis sinensis</i> excretory-secretory products. <i>Parasites and Vectors</i> , 2021, 14, 213. | 1.0 | 4         |
| 10 | SRPS deep-learning-based photometric stereo using superresolution images. <i>Journal of Computational Design and Engineering</i> , 2021, 8, 995-1012.  | 1.5 | 3         |
| 11 | Simulation and Experimental Study of Ion Concentration Polarization Induced Electroconvective Vortex and Particle Movement. <i>Micromachines</i> , 2021, 12, 903.  | 1.4 | 2         |
| 12 | Gamma irradiation exposure for collapsed cell junctions and reduced angiogenesis of 3-D in vitro blood vessels. <i>Scientific Reports</i> , 2021, 11, 18230.   | 1.6 | 5         |
| 13 | Drug screening by uniform patient derived colorectal cancer hydro-organoids. <i>Biomaterials</i> , 2021, 276, 121004.  | 5.7 | 12        |
| 14 | A rapid quantitative on-site coronavirus disease 19 serological test. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113406.  | 5.3 | 10        |
| 15 | A three-dimensional in vitro model of the peripheral nervous system. <i>NPG Asia Materials</i> , 2021, 13, .   | 3.8 | 14        |
| 16 | Modulation of Nogo receptor 1 expression orchestrates myelin-associated infiltration of glioblastoma. <i>Brain</i> , 2021, 144, 636-654.   | 3.7 | 16        |
| 17 | Inhibition of tumor progression and M2 microglial polarization by extracellular vesicle-mediated microRNA-124 in a 3D microfluidic glioblastoma microenvironment. <i>Theranostics</i> , 2021, 11, 9687-9704. | 4.6 | 38        |
| 18 | Isolation of extracellular vesicles from small volumes of plasma using a microfluidic aqueous two-phase system. <i>Lab on A Chip</i> , 2020, 20, 3552-3559.  | 3.1 | 17        |

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|----|--|-----|-----------|
| 19 | Transcriptional regulatory networks of tumor-associated macrophages that drive malignancy in mesenchymal glioblastoma. <i>Genome Biology</i> , 2020, 21, 216.  | 3.8 | 73        |
| 20 | Phenotypic Heterogeneity and Plasticity of Cancer Cell Migration in a Pancreatic Tumor Three-Dimensional Culture Model. <i>Cancers</i> , 2020, 12, 1305.   | 1.7 | 21        |
| 21 | Remote Manipulation of Slidable Nano-Ligand Switch Regulates the Adhesion and Regenerative Polarization of Macrophages. <i>Advanced Functional Materials</i> , 2020, 30, 2001446.  | 7.8 | 27        |
| 22 | Microfluidic immunoassay for point-of-care testing using simple fluid vent control. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128094.  | 4.0 | 15        |
| 23 | Blood-Brain Barrier Dysfunction in a 3D In Vitro Model of Alzheimer's Disease. <i>Advanced Science</i> , 2019, 6, 1900962.   | 5.6 | 168       |
| 24 | Balance of interstitial flow magnitude and vascular endothelial growth factor concentration modulates three-dimensional microvascular network formation. <i>APL Bioengineering</i> , 2019, 3, 036102.  | 3.3 | 63        |
| 25 | Repurposing Penfluridol in Combination with Temozolomide for the Treatment of Glioblastoma. <i>Cancers</i> , 2019, 11, 1310.   | 1.7 | 18        |
| 26 | Clonorchis sinensis excretory-secretory products increase malignant characteristics of cholangiocarcinoma cells in three-dimensional co-culture with biliary ductal plates. <i>PLoS Pathogens</i> , 2019, 15, e1007818.                            | 2.1 | 32        |
| 27 | Pre-Metastatic Niches: Macrophages-Triggered Sequential Remodeling of Endothelium-Interstitial Matrix to Form Pre-Metastatic Niche in Microfluidic Tumor Microenvironment ( <i>Adv. Sci.</i> 11/2019). <i>Advanced Science</i> , 2019, 6, 1970068. | 5.6 | 2         |
| 28 | Effect of cross-linking on the dimensional stability and biocompatibility of a tailored 3D-bioprinted gelatin scaffold. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 659-667.  | 3.6 | 23        |
| 29 | Wire Electrodes Embedded in Artificial Conduit for Long-term Monitoring of the Peripheral Nerve Signal. <i>Micromachines</i> , 2019, 10, 184.  | 1.4 | 4         |
| 30 | Self-organization of hepatocyte morphogenesis depending on the size of collagen microbeads relative to hepatocytes. <i>Biofabrication</i> , 2019, 11, 035007.  | 3.7 | 7         |
| 31 | Endothelial-neurosphere crosstalk in microwell arrays regulates self-renewal and differentiation of human neural stem cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 74, 148-157.   | 2.9 | 6         |
| 32 | Macrophages-Triggered Sequential Remodeling of Endothelium-Interstitial Matrix to Form Pre-Metastatic Niche in Microfluidic Tumor Microenvironment. <i>Advanced Science</i> , 2019, 6, 1900195.  | 5.6 | 74        |
| 33 | Identification of different gene expressions between diffuse- and intestinal-type spheroid-forming gastric cancer cells. <i>Gastric Cancer</i> , 2019, 22, 967-979.  | 2.7 | 8         |
| 34 | Origami-paper-based device for microvesicle/exosome preconcentration and isolation. <i>Lab on A Chip</i> , 2019, 19, 3917-3921.  | 3.1 | 25        |
| 35 | In vivo-mimicking microfluidic perfusion culture of pancreatic islet spheroids. <i>Science Advances</i> , 2019, 5, eaax4520.   | 4.7 | 101       |
| 36 | Graphene-oxide quenching-based molecular beacon imaging of exosome-mediated transfer of neurogenic miR-193a on microfluidic platform. <i>Biosensors and Bioelectronics</i> , 2019, 126, 647-656.   | 5.3 | 35        |

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|----|---|-----|-----------|
| 37 | Construction of Continuous Capillary Networks Stabilized by Pericyte-like Perivascular Cells. <i>Tissue Engineering - Part A</i> , 2019, 25, 499-510.   | 1.6 | 40        |
| 38 | Graded 6-OHDA-induced dopamine depletion in the nigrostriatal pathway evokes progressive pathological neuronal activities in the subthalamic nucleus of a hemi-parkinsonian mouse. <i>Behavioural Brain Research</i> , 2018, 344, 42-47.          | 1.2 | 11        |
| 39 | Microfluidic co-culture of pancreatic tumor spheroids with stellate cells as a novel 3D model for investigation of Astroma-mediated cell motility and drug resistance. <i>Journal of Experimental and Clinical Cancer Research</i> , 2018, 37, 4. | 3.5 | 129       |
| 40 | Enhanced oxygen permeability in membrane-bottomed concave microwells for the formation of pancreatic islet spheroids. <i>Acta Biomaterialia</i> , 2018, 65, 185-196.  | 4.1 | 24        |
| 41 | Isolation of spheroid-forming single cells from gastric cancer cell lines: enrichment of cancer stem-like cells. <i>BioTechniques</i> , 2018, 65, 197-203.  | 0.8 | 16        |
| 42 | Cancer-derived exosomes trigger endothelial to mesenchymal transition followed by the induction of cancer-associated fibroblasts. <i>Acta Biomaterialia</i> , 2018, 76, 146-153.  | 4.1 | 116       |
| 43 | Effect of the pore size in a 3D bioprinted gelatin scaffold on fibroblast proliferation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 388-395.  | 2.9 | 50        |
| 44 | Hydrogel-incorporating unit in a well: 3D cell culture for high-throughput analysis. <i>Lab on A Chip</i> , 2018, 18, 2604-2613.  | 3.1 | 19        |
| 45 | Generation of digitized microfluidic filling flow by vent control. <i>Biosensors and Bioelectronics</i> , 2017, 92, 465-471.  | 5.3 | 9         |
| 46 | Battery operated preconcentration-assisted lateral flow assay. <i>Lab on A Chip</i> , 2017, 17, 2451-2458.  | 3.1 | 43        |
| 47 | In vitro nasal mucosa gland-like structure formation on a chip. <i>Lab on A Chip</i> , 2017, 17, 1578-1584.   | 3.1 | 30        |
| 48 | Ethanol-dispersed and antibody-conjugated polymer nanofibers for the selective capture and 3-dimensional culture of EpCAM-positive cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1617-1625.                       | 1.7 | 16        |
| 49 | Differential heart rate variability and physiological responses associated with accumulated short- and long-term stress in rodents. <i>Physiology and Behavior</i> , 2017, 171, 21-31.  | 1.0 | 23        |
| 50 | Mycobacterial cord factor enhances migration of neutrophil-like HL60 cells by prolonging AKT phosphorylation. <i>Microbiology and Immunology</i> , 2017, 61, 523-530.   | 0.7 | 1         |
| 51 | On-Chip Lipid Extraction Using Superabsorbent Polymers for Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 13365-13373.  | 3.2 | 15        |
| 52 | Convective exosome-tracing microfluidics for analysis of cell-non-autonomous neurogenesis. <i>Biomaterials</i> , 2017, 112, 82-94.  | 5.7 | 39        |
| 53 | Spheroid Formation of Hepatocarcinoma Cells in Microwells: Experiments and Monte Carlo Simulations. <i>PLoS ONE</i> , 2016, 11, e0161915.   | 1.1 | 21        |
| 54 | Co-Culture of Tumor Spheroids and Fibroblasts in a Collagen Matrix-Incorporated Microfluidic Chip Mimics Reciprocal Activation in Solid Tumor Microenvironment. <i>PLoS ONE</i> , 2016, 11, e0159013.   | 1.1 | 205       |

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|----|---|-----|-----------|
| 55 | Constructive remodeling of a synthetic endothelial extracellular matrix. <i>Scientific Reports</i> , 2016, 5, 18290.  | 1.6 | 28        |
| 56 | Simple and Highly Sensitive Molecular Diagnosis of Zika Virus by Lateral Flow Assays. <i>Analytical Chemistry</i> , 2016, 88, 12272-12278.  | 3.2 | 73        |
| 57 | Ion concentration polarization for pre-concentration of biological samples without pH change. <i>Analyst</i> , 2016, 141, 6510-6514.  | 1.7 | 15        |
| 58 | Intrinsic FGF2 and FGF5 promotes angiogenesis of human aortic endothelial cells in 3D microfluidic angiogenesis system. <i>Scientific Reports</i> , 2016, 6, 28832.   | 1.6 | 45        |
| 59 | Viscoelastic lithography for fabricating self-organizing soft micro-honeycomb structures with ultra-high aspect ratios. <i>Nature Communications</i> , 2016, 7, 11269.  | 5.8 | 38        |
| 60 | Study on chemotaxis and chemokinesis of bone marrow-derived mesenchymal stem cells in hydrogel-based 3D microfluidic devices. <i>Biomaterials Research</i> , 2016, 20, 25.  | 3.2 | 24        |
| 61 | Angiogenic Type I Collagen Extracellular Matrix Integrated with Recombinant Bacteriophages Displaying Vascular Endothelial Growth Factors. <i>Advanced Healthcare Materials</i> , 2016, 5, 205-212.                               | 3.9 | 4         |
| 62 | An aptamer-antibody complex (oligobody) as a novel delivery platform for targeted cancer therapies. <i>Journal of Controlled Release</i> , 2016, 229, 1-9.  | 4.8 | 66        |
| 63 | Collagen-based brain microvasculature model <i>in vitro</i> using three-dimensional printed template. <i>Biomicrofluidics</i> , 2015, 9, 024115.  | 1.2 | 123       |
| 64 | Recapitulation of <i>in vivo</i> -like paracrine signals of human mesenchymal stem cells for functional neuronal differentiation of human neural stem cells in a 3D microfluidic system. <i>Biomaterials</i> , 2015, 63, 177-188. | 5.7 | 67        |
| 65 | Nanointerstice-driven microflow patterns in physical interrupts. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1433-1438.   | 1.0 | 6         |
| 66 | Timescale analysis for estimating upper limit perfusion rate in a microfluidic perfusion cell culture platform. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 777-786.  | 1.0 | 5         |
| 67 | A quantitative microfluidic angiogenesis screen for studying anti-angiogenic therapeutic drugs. <i>Lab on A Chip</i> , 2015, 15, 301-310.   | 3.1 | 116       |
| 68 | <i>Clonorchis sinensis</i> Infestation Promotes Three-Dimensional Aggregation and Invasion of Cholangiocarcinoma Cells. <i>PLoS ONE</i> , 2014, 9, e110705.   | 1.1 | 19        |
| 69 | Reconstituting Vascular Microenvironment of Neural Stem Cell Niche in Three-Dimensional Extracellular Matrix. <i>Advanced Healthcare Materials</i> , 2014, 3, 1457-1464.  | 3.9 | 58        |
| 70 | A microfluidic 3D <i>in vitro</i> model for specificity of breast cancer metastasis to bone. <i>Biomaterials</i> , 2014, 35, 2454-2461.   | 5.7 | 440       |
| 71 | Microfluidic in-reservoir pre-concentration using a buffer drain technique. <i>Lab on A Chip</i> , 2014, 14, 2778-2782.   | 3.1 | 9         |
| 72 | Implantable microfluidic device for the formation of three-dimensional vasculature by human endothelial progenitor cells. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 379-385.                                    | 1.4 | 16        |

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|----|---|------|-----------|
| 73 | Smooth muscle progenitor cells from peripheral blood promote the neovascularization of endothelial colony-forming cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 449, 405-411.                       | 1.0  | 17        |
| 74 | Large-scale, Ultrapliable, and Free-standing Nanomembranes. <i>Advanced Materials</i> , 2013, 25, 2167-2173.  | 11.1 | 53        |
| 75 | Single-step UV diffraction lithography to define a hydrophobic SU-8 interconnected hoodoo structure. <i>Microsystem Technologies</i> , 2013, 19, 1025-1032.   | 1.2  | 4         |
| 76 | A three-dimensional microfluidic tumor cell migration assay to screen the effect of anti-migratory drugs and interstitial flow. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 969-981.                                      | 1.0  | 33        |
| 77 | Extracellular Matrix Heterogeneity Regulates Three-dimensional Morphologies of Breast Adenocarcinoma Cell Invasion. <i>Advanced Healthcare Materials</i> , 2013, 2, 790-794.  | 3.9  | 33        |
| 78 | Hydrogels: Extracellular Matrix Heterogeneity Regulates Three-dimensional Morphologies of Breast Adenocarcinoma Cell Invasion ( <i>Adv. Healthcare Mater.</i> 6/2013). <i>Advanced Healthcare Materials</i> , 2013, 2, 920-920. | 3.9  | 1         |
| 79 | A microfluidic array for quantitative analysis of human neural stem cell self-renewal and differentiation in three-dimensional hypoxic microenvironment. <i>Biomaterials</i> , 2013, 34, 6607-6614.                             | 5.7  | 44        |
| 80 | Hydrodynamic effects on bacterial biofilm development in a microfluidic environment. <i>Lab on A Chip</i> , 2013, 13, 1846.   | 3.1  | 60        |
| 81 | The Stabilization Effect of Mesenchymal Stem Cells on the Formation of Microvascular Networks in a Microfluidic Device. <i>Journal of Biomechanical Science and Engineering</i> , 2013, 8, 114-128.                             | 0.1  | 14        |
| 82 | In Vitro Model of Tumor Cell Extravasation. <i>PLoS ONE</i> , 2013, 8, e56910.  | 1.1  | 201       |
| 83 | Microfluidic Approaches to Bacterial Biofilm Formation. <i>Molecules</i> , 2012, 17, 9818-9834.   | 1.7  | 122       |
| 84 | Microfluidic assay for simultaneous culture of multiple cell types on surfaces or within hydrogels. <i>Nature Protocols</i> , 2012, 7, 1247-1259.   | 5.5  | 518       |
| 85 | In vitro angiogenesis assay for the study of cell-encapsulation therapy. <i>Lab on A Chip</i> , 2012, 12, 2942.   | 3.1  | 21        |
| 86 | Microfluidic platforms for the study of cancer metastasis. <i>Biomedical Engineering Letters</i> , 2012, 2, 72-77.  | 2.1  | 13        |
| 87 | Generation of core-shell microcapsules with three-dimensional focusing device for efficient formation of cell spheroid. <i>Lab on A Chip</i> , 2011, 11, 246-252.   | 3.1  | 140       |
| 88 | A high-throughput microfluidic assay to study neurite response to growth factor gradients. <i>Lab on A Chip</i> , 2011, 11, 497-507.  | 3.1  | 145       |
| 89 | Sprouting Angiogenesis under a Chemical Gradient Regulated by Interactions with an Endothelial Monolayer in a Microfluidic Platform. <i>Analytical Chemistry</i> , 2011, 83, 8454-8459.   | 3.2  | 102       |
| 90 | In vitro 3D collective sprouting angiogenesis under orchestrated ANG-1 and VEGF gradients. <i>Lab on A Chip</i> , 2011, 11, 2175.   | 3.1  | 142       |

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|-----|---|------|-----------|
| 91  | Hot embossing for fabrication of a microfluidic 3D cell culture platform. <i>Biomedical Microdevices</i> , 2011, 13, 325-333.   | 1.4  | 83        |
| 92  | Microfluidic assay of endothelial cell migration in 3D interpenetrating polymer semi-network HA-Collagen hydrogel. <i>Biomedical Microdevices</i> , 2011, 13, 717-723.                          | 1.4  | 46        |
| 93  | Differentiation of Embryonic Stem Cells into Cardiomyocytes in a Compliant Microfluidic System. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1840-1847.                                  | 1.3  | 77        |
| 94  | Concentration gradients in microfluidic 3D matrix cell culture systems. <i>International Journal of Micro-nano Scale Transport</i> , 2010, 1, 27-36.  | 0.2  | 30        |
| 95  | Temperature-dependent threshold shear stress of red blood cell aggregation. <i>Journal of Biomechanics</i> , 2010, 43, 546-550.   | 0.9  | 45        |
| 96  | Microfluidic Platforms for Studies of Angiogenesis, Cell Migration, and Cell-Cell Interactions. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1164-1177.                                  | 1.3  | 140       |
| 97  | A low resistance microfluidic system for the creation of stable concentration gradients in a defined 3D microenvironment. <i>Biomedical Microdevices</i> , 2010, 12, 1027-1041.                 | 1.4  | 40        |
| 98  | Applications of micromixing technology. <i>Analyst, The</i> , 2010, 135, 460.   | 1.7  | 192       |
| 99  | Transport-mediated angiogenesis in 3D epithelial coculture. <i>FASEB Journal</i> , 2009, 23, 2155-2164.   | 0.2  | 179       |
| 100 | Biomechanical Regulation of Endothelium-dependent Events Critical for Adaptive Remodeling. <i>Journal of Biological Chemistry</i> , 2009, 284, 8412-8420.                                       | 1.6  | 44        |
| 101 | Surface-treatment-induced Three-Dimensional Capillary Morphogenesis in a Microfluidic Platform. <i>Advanced Materials</i> , 2009, 21, 4863-4867.  | 11.1 | 85        |
| 102 | Nanointerstice-Driven Microflow. <i>Small</i> , 2009, 5, 609-613.   | 5.2  | 30        |
| 103 | Cell migration into scaffolds under co-culture conditions in a microfluidic platform. <i>Lab on A Chip</i> , 2009, 9, 269-275.  | 3.1  | 456       |
| 104 | Microfluidic synthesis of a cell adhesive Janus polyurethane microfiber. <i>Lab on A Chip</i> , 2009, 9, 2596.  | 3.1  | 75        |
| 105 | Non-Lithographic Wrinkle Nanochannels for Protein Preconcentration. <i>Advanced Materials</i> , 2008, 20, 3011-3016.  | 11.1 | 125       |
| 106 | Design, fabrication and implementation of a novel multi-parameter control microfluidic platform for three-dimensional cell culture and real-time imaging. <i>Lab on A Chip</i> , 2008, 8, 1468. | 3.1  | 312       |
| 107 | On-chip erythrocyte deformability test under optical pressure. <i>Lab on A Chip</i> , 2007, 7, 516.   | 3.1  | 33        |
| 108 | Poly(dimethylsiloxane)-Based Protein Preconcentration Using a Nanogap Generated by Junction Gap Breakdown. <i>Analytical Chemistry</i> , 2007, 79, 6868-6873.                                   | 3.2  | 138       |

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|-----|--|-----|-----------|
| 109 | Expansion channel for microchip flow cytometers. <i>Lab on A Chip</i> , 2006, 6, 1381.   | 3.1 | 18        |
| 110 | Ultra-thin microchannel-type electrophoresis chip for TIRFM-based single-DNA observation in the femtomole concentration. <i>Current Applied Physics</i> , 2006, 6, e137-e140.                                      | 1.1 | 0         |
| 111 | Microfabricated fluorescence-activated cell sorter through hydrodynamic flow manipulation. <i>Microsystem Technologies</i> , 2006, 12, 746-753.  | 1.2 | 26        |
| 112 | Asymmetric nozzle structure for particles converging into a highly confined region. <i>Current Applied Physics</i> , 2006, 6, 992-995.   | 1.1 | 14        |
| 113 | Active sealing for soft polymer microchips: method and practical applications. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 708-714.  | 1.5 | 15        |
| 114 | Serial dilution microchip for cytotoxicity test. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1165-1170.  | 1.5 | 36        |
| 115 | Rapid three-dimensional passive rotation micromixer using the breakup process. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 6-14.   | 1.5 | 127       |
| 116 | Retinal Pigment Epithelial Cell Behavior is Modulated by Alterations in Focal Cell-Substrate Contacts. , 2004, 45, 4210.   |     | 33        |
| 117 | In-plane single-crystal-silicon microneedles for minimally invasive microfluid systems. <i>Sensors and Actuators A: Physical</i> , 2004, 114, 276-284.   | 2.0 | 97        |
| 118 | Development of MEMS-based Cerebrospinal Fluid Shunt System. <i>Biomedical Microdevices</i> , 2003, 5, 311-321.   | 1.4 | 22        |
| 119 | Functional integration of serial dilution and capillary electrophoresis on a PDMS microchip. <i>Biotechnology and Bioprocess Engineering</i> , 2003, 8, 233-239.   | 1.4 | 8         |
| 120 | Effects of peak anomalies with the hydrophilic or hydrophobic properties of reservoirs during serial injection on a capillary electrophoresis microchip. <i>Journal of Chromatography A</i> , 2003, 1013, 111-122. | 1.8 | 12        |
| 121 | PDMS-based micro PCR chip with Parylene coating. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 768-774.  | 1.5 | 356       |
| 122 | Development of endovascular microtools. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 824-831.   | 1.5 | 22        |