Chih-Ming Ho

List of Publications by Year
in descending order

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263	16,471	15466 65	17546 121
papers	citations	h-index	g-index

279	279	279	14542
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Harnessing Artificial Intelligence to Optimize Longâ€Term Maintenance Dosing for Antiretroviralâ€Naive Adults with HIVâ€1 Infection. Advanced Therapeutics, 2020, 3, 1900114.	1.6	17
2	Harnessing an Artificial Intelligence Platform to Dynamically Individualize Combination Therapy for Treating Colorectal Carcinoma in a Rat Model. Advanced Therapeutics, 2020, 3, 1900127.	1.6	7
3	Validation of a universal and highly sensitive two-dimensional liquid chromatographyâ€“tandem mass spectrometry methodology for the quantification of pyrazinamide, ethambutol, protionamide, and clofazimine in different biological matrices. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1151, 122141.	1.2	1
4	Enabling Technologies for Personalized and Precision Medicine. Trends in Biotechnology, 2020, 38, 497-518.	4.9	169
5	Cellular Signaling Analysis shows antiviral, ribavirin-mediated ribosomal signaling modulation. Antiviral Research, 2019, 171, 104598.	1.9	5
6	Artificial intelligence enabled parabolic response surface platform identifies ultra-rapid near-universal TB drug treatment regimens comprising approved drugs. PLoS ONE, 2019, 14, e0215607.	1.1	28
7	Simultaneous determination of the potent anti-tuberculosis regimenâ€”Pyrazinamide, ethambutol, protionamide, clofazimine in beagle dog plasma using LCâ€“MS/MS method coupled with 96-well format plate. Journal of Pharmaceutical and Biomedical Analysis, 2019, 168, 44-54.	1.4	6
8	Subvoxel light-sheet microscopy for high-resolution high-throughput volumetric imaging of large biomedical specimens. Advanced Photonics, 2019, 1, 1.	6.2	37
9	Ultra-rapid near universal TB drug regimen identified via parabolic response surface platform cures mice of both conventional and high susceptibility. PLoS ONE, 2018, 13, e0207469.	1.1	20
10	Modulating BET Bromodomain Inhibitor ZENâ€3694 and Enzalutamide Combination Dosing in a Metastatic Prostate Cancer Patient Using CURATE.AI, an Artificial Intelligence Platform. Advanced Therapeutics, 2018, 1, 1800104.	1.6	76
11	Optimizing drug combinations against multiple myeloma using a quadratic phenotypic optimization platform (QPOP). Science Translational Medicine, 2018, 10, .	5.8	80
12	Drug regimens identified and optimized by output-driven platform markedly reduce tuberculosis treatment time. Nature Communications, 2017, 8, 14183.	5.8	53
13	Continuous Adaptive Population Reduction (CAPR) for Differential Evolution Optimization. SLAS Technology, 2017, 22, 289-305.	1.0	10
14	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
15	Optimizing Combination Therapy for Acute Lymphoblastic Leukemia Using a Phenotypic Personalized Medicine Digital Health Platform: Retrospective Optimization Individualizes Patient Regimens to Maximize Efficacy and Safety. SLAS Technology, 2017, 22, 276-288.	1.0	30
16	A novel combination of four flavonoids derived from Astragali Radix relieves the symptoms of cyclophosphamideâ€induced anemic rats. FEBS Open Bio, 2017, 7, 318-323.	1.0	24
17	Effective drug combination for Caenorhabditis elegans nematodes discovered by output-driven feedback system control technique. Science Advances, 2017, 3, eaao1254.	4.7	38
18	Use of Orthogonal Array Composite Designs to Study Lipid Accumulation in a Cell-Free System. Quality and Reliability Engineering International, 2016, 32, 1965-1974.	1.4	8

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19	A UV-sensitive hydrogel based combinatory drug delivery chip (UV gel-Drug Chip) for cancer cocktail drug screening. RSC Advances, 2016, 6, 44425-44434.	1.7	11
20	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
21	Cardiac Light-Sheet Fluorescent Microscopy for Multi-Scale and Rapid Imaging of Architecture and Function. Scientific Reports, 2016, 6, 22489.	1.6	64
22	Individualizing liver transplant immunosuppression using a phenotypic personalized medicine platform. Science Translational Medicine, 2016, 8, 333ra49.	5.8	108
23	Optimization of drug combinations using Feedback System Control. Nature Protocols, 2016, 11, 302-315.	5.5	86
24	Output-driven feedback system control platform optimizes combinatorial therapy of tuberculosis using a macrophage cell culture model. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2172-9.	3.3	75
25	Compact plane illumination plugin device to enable light sheet fluorescence imaging of multi-cellular organisms on an inverted wide-field microscope. Biomedical Optics Express, 2016, 7, 194.	1.5	36
26	4-Dimensional light-sheet microscopy to elucidate shear stress modulation of cardiac trabeculation. Journal of Clinical Investigation, 2016, 126, 1679-1690.	3.9	100
27	Preclinical optimization of a broad-spectrum anti-bladder cancer tri-drug regimen via the Feedback System Control (FSC) platform. Scientific Reports, 2015, 5, 11464.	1.6	17
28	A streamlined search technology for identification of synergistic drug combinations. Scientific Reports, 2015, 5, 14508.	1.6	72
29	Compact Wireless Microscope for In-Situ Time Course Study of Large Scale Cell Dynamics within an Incubator. Scientific Reports, 2015, 5, 18483.	1.6	27
30	Mechanism-Independent Optimization of Combinatorial Nanodiamond and Unmodified Drug Delivery Using a Phenotypically Driven Platform Technology. ACS Nano, 2015, 9, 3332-3344.	7.3	109
31	In vitro reconstruction of branched tubular structures from lung epithelial cells in high cell concentration gradient environment. Scientific Reports, 2015, 5, 8054.	1.6	25
32	Rapid optimization of drug combinations for the optimal angiostatic treatment of cancer. Angiogenesis, 2015, 18, 233-244.	3.7	108
33	Identification and Optimization of Combinatorial Glucose Metabolism Inhibitors in Hepatocellular Carcinomas. Journal of the Association for Laboratory Automation, 2015, 20, 423-437.	2.8	35
34	Discovery of a low order drug-cell response surface for applications in personalized medicine. Physical Biology, 2014, 11, 065003.	0.8	29
35	Branching patterns emerge in a mathematical model of the dynamics of lung development. Journal of Physiology, 2014, 592, 313-324.	1.3	36
36	Keynote: Personalized medicine enabled by FSC.X technology. , 2014, , .		0

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37	Rapid, Electrical Impedance Detection of Bacterial Pathogens Using Immobilized Antimicrobial Peptides. Journal of the Association for Laboratory Automation, 2014, 19, 42-49.	2.8	64
38	Use of Fractional Factorial Designs in Antiviral Drug Studies. Quality and Reliability Engineering International, 2013, 29, 299-304.	1.4	29
39	Use of cell morphology as an early bio-sensor for viral infection. , 2013, , .		1
40	Application of fractional factorial designs to study drug combinations. Statistics in Medicine, 2013, 32, 307-318.	0.8	50
41	Coffee Ring Aptasensor for Rapid Protein Detection. Langmuir, 2013, 29, 8440-8446.	1.6	103
42	Rapid electrochemical detection on a mobile phone. Lab on A Chip, 2013, 13, 2950.	3.1	236
43	When Medicine Meets Engineeringâ€"Paradigm Shifts in Diagnostics and Therapeutics. Diagnostics, 2013, 3, 126-154.	1.3	5
44	Optimizing Combinations of Flavonoids Deriving from Astragali Radix in Activating the Regulatory Element of Erythropoietin by a Feedback System Control Scheme. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-10.	0.5	24
45	Tissue morphology controlled by micropatterning and self-assembly of vascular mesenchymal cells. , 2013, , .		1
46	Reconfigurable microfluidic pump enabled by opto-electrical-thermal transduction. Applied Physics Letters, 2013, 103, 174101.	1.5	4
47	Guiding the osteogenic fate of mouse and human mesenchymal stem cells through feedback system control. Scientific Reports, 2013, 3, 3420.	1.6	48
48	Patterns of periodic holes created by increased cell motility. Interface Focus, 2012, 2, 457-464.	1.5	15
49	Micro/Nano Fluidics Mechanics and Transducers. , 2012, , 45-69.		0
50	A microfluidic biosensor for multiplexed detection of bacterial pathogens. , 2012, , .		0
51	Accurate and effective live bacteria microarray patterning on thick polycationic polymer layers co-patterned with HMDS. RSC Advances, 2012, 2, 7673.	1.7	5
52	Optoelectronic reconfigurable microchannels. Lab on A Chip, 2012, 12, 5086.	3.1	8
53	Directing tissue morphogenesis via self-assembly of vascular mesenchymal cells. Biomaterials, 2012, 33, 9019-9026.	5.7	39
54	Serum Creatinine Detection by a Conducting-Polymer-Based Electrochemical Sensor To Identify Allograft Dysfunction. Analytical Chemistry, 2012, 84, 7933-7937.	3.2	52

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55	Cascade search for HSV-1 combinatorial drugs with high antiviral efficacy and low toxicity. International Journal of Nanomedicine, 2012, 7, 2281.	3.3	44
56	A highâ€order alternating direction implicit method for the unsteady convectionâ€dominated diffusion problem. International Journal for Numerical Methods in Fluids, 2012, 70, 703-712.	0.9	8
57	Left-Right Symmetry Breaking in Tissue Morphogenesis via Cytoskeletal Mechanics. Circulation Research, 2012, 110, 551-559.	2.0	109
58	Application of feedback system control (FSC) to identify the optimized osteogenic drug cocktails. , 2011, , .		0
59	An optimized small molecule inhibitor cocktail supports long-term maintenance of human embryonic stem cells. Nature Communications, 2011, 2, 167.	5.8	152
60	Nanochromatography Driven by the Coffee Ring Effect. Analytical Chemistry, 2011, 83, 1871-1873.	3.2	277
61	Optoelectronic Heating for Fabricating Microfluidic Circuitry. Advances in OptoElectronics, 2011, 2011, 1-10.	0.6	2
62	Control of Kaposi's Sarcoma-Associated Herpesvirus Reactivation Induced by Multiple Signals. PLoS ONE, 2011, 6, e20998.	1.1	10
63	Rapidly optimizing an aptamer based BoNT sensor by feedback system control (FSC) scheme. Biosensors and Bioelectronics, 2011, 30, 174-179.	5.3	29
64	Ultrasonication on a microfluidic chip to lyse single and multiple Pseudoâ€nitzschia for marine biotoxin analysis. Biotechnology Journal, 2011, 6, 150-155.	1.8	15
65	Developing defined culture systems for human pluripotent stem cells. Regenerative Medicine, 2011, 6, 623-634.	0.8	36
66	Systematic quantitative characterization of cellular responses induced by multiple signals. BMC Systems Biology, 2011, 5, 88.	3.0	72
67	Efficient Dielectrophoretic Patterning of Embryonic Stem Cells in Energy Landscapes Defined by Hydrogel Geometries. Annals of Biomedical Engineering, 2010, 38, 3777-3788.	1.3	48
68	Interrogating cell signalling network sensitively monitors cell fate transition during early differentiation of mouse embryonic stem cells. Science China Life Sciences, 2010, 53, 78-86.	2.3	4
69	The Lab-on-a-Chip Approach for Molecular Diagnostics. , 2010, , 21-34.		2
70	System control-mediated drug delivery towards complex systems via nanodiamond carriers. International Journal of Smart and Nano Materials, 2010, 1, 69-81.	2.0	6
71	A microfluidic device for single and small population cell trapping and lysis of Pseudo-nitzschia. , 2010, , .		0
72	Harnessing nanotechnology to create new diagnostics and treatments for infectious disease. , 2010, , .		0

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73	An agar gel membrane-PDMS hybrid microfluidic device for long term single cell dynamic study. Lab on A Chip, 2010, 10, 2710.	3.1	24
74	A long-term, stable hydrophilic poly(dimethylsiloxane) coating for capillary-based pumping. , 2010, , .		6
75	A self-pumping lab-on-a-chip for rapid detection of botulinum toxin. Lab on A Chip, 2010, 10, 2265.	3.1	70
76	Continuous sorting of heterogeneous-sized embryoid bodies. Lab on A Chip, 2010, 10, 1678.	3.1	25
77	Minimal Size of Coffee Ring Structure. Journal of Physical Chemistry B, 2010, 114, 5269-5274.	1.2	306
78	DNA Diagnostics: Nanotechnology-Enhanced Electrochemical Detection of Nucleic Acids. Pediatric Research, 2010, 67, 458-468.	1.1	131
79	Surface molecular property modifications for poly(dimethylsiloxane) (PDMS) based microfluidic devices. Microfluidics and Nanofluidics, 2009, 7, 291-306.	1.0	428
80	Aptamer-based electrochemical biosensor for Botulinum neurotoxin. Analytical and Bioanalytical Chemistry, 2009, 393, 1943-1948.	1.9	83
81	Bio/Abiotic Interface Constructed from Nanoscale DNA Dendrimer and Conducting Polymer for Ultrasensitive Biomolecular Diagnosis. Small, 2009, 5, 1784-1790.	5.2	91
82	Cell separation by non-inertial force fields in microfluidic systems. Mechanics Research Communications, 2009, 36, 92-103.	1.0	170
83	Dependence of Macroscopic Wetting on Nanoscopic Surface Textures. Langmuir, 2009, 25, 12851-12854.	1.6	105
84	Wetting Behaviors of Individual Nanostructures. Langmuir, 2009, 25, 6599-6603.	1.6	23
85	Integrative systems control approach for reactivating Kaposi's sarcoma-associated herpesvirus (KSHV) with combinatory drugs. Integrative Biology (United Kingdom), 2009, 1, 123-130.	0.6	25
86	Electrochemical Sensor for Multiplex Biomarkers Detection. Clinical Cancer Research, 2009, 15, 4446-4452.	3.2	217
87	Creation of functional micro/nano systems through top-down and bottom-up approaches. MCB Molecular and Cellular Biomechanics, 2009, 6, 1-55.	0.3	19
88	Optical protein sensor for detecting cancer markers in saliva. Biosensors and Bioelectronics, 2008, 24, 266-271.	5.3	83
89	Photolithographic patterning of organosilane monolayer for generating large area two-dimensional B lymphocyte arrays. Lab on A Chip, 2008, 8, 2105.	3.1	43
90	Closed-loop control of cellular functions using combinatory drugs guided by a stochastic search algorithm. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5105-5110.	3.3	158

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91	Aptamer-Based Optical Probes with Separated Molecular Recognition and Signal Transduction Modules. Journal of the American Chemical Society, 2008, 130, 2380-2381.	6.6	210
92	An unsteady microfluidic T-form mixer perturbed by hydrodynamic pressure. Journal of Micromechanics and Microengineering, 2008, 18, 045015.	1.5	26
93	Molecular effects on boundary condition in micro/nanoliquid flows. Physics of Fluids, 2008, 20, 101512.	1.6	42
94	Electrochemical detection of low-copy number salivary RNA based on specific signal amplification with a hairpin probe. Nucleic Acids Research, 2008, 36, e65-e65.	6.5	68
95	A compact microfluidic continuous flow separator for particle and cell sorting. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	2
96	Formation of high electromagnetic gradients through a particle-based microfluidic approach. Journal of Micromechanics and Microengineering, 2007, 17, 1299-1306.	1.5	23
97	Spatial redistribution of nano-particles using electrokinetic micro-focuser. Proceedings of SPIE, 2007, , .	0.8	1
98	Bandgap-assisted surface-plasmon sensing. Applied Optics, 2007, 46, 3369.	2.1	22
99	When worlds collide. IEEE Nanotechnology Magazine, 2007, 1, 18-21.	0.9	2
100	Manufacture of nanoscale structures through integrated top-down and bottom-up approaches. , 2007, , .		0
101	On-Chip Continuous Blood Cell Subtype Separation by Deterministic Lateral Displacement. , 2007, , .		23
102	Unraveling Gene Regulatory Networks Using an Integrated Microfluidic Platform. , 2007, , .		0
103	Electrochemical detection of salivary RNA. , 2007, , .		0
104	Surface initiated actin polymerization from top-down manufactured nanopatterns. Soft Matter, 2007, 3, 541.	1.2	24
105	A Methanol-Tolerant Gas-Venting Microchannel for a Microdirect Methanol Fuel Cell. Journal of Microelectromechanical Systems, 2007, 16, 1403-1410.	1.7	44
106	Experimental study and nonlinear dynamic analysis of time-periodic micro chaotic mixers. Journal of Fluid Mechanics, 2007, 575, 425-448.	1.4	35
107	Understanding and harnessing biomimetic molecular machines for NEMS actuation materials. IEEE Transactions on Automation Science and Engineering, 2006, 3, 254-259.	3.4	20
108	Effective slip and friction reduction in nanograted superhydrophobic microchannels. Physics of Fluids, 2006, 18, 087105.	1.6	387

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109	Two-phase flow in microchannels with surface modifications. Fluid Dynamics Research, 2006, 38, 772-786.	0.6	160
110	Multilayer SU-8 based microdispenser for microarray assay. Sensors and Actuators A: Physical, 2006, 132, 714-725.	2.0	14
111	Silicone polymer chemical vapor sensors fabricated by direct polymer patterning on substrate technique (DPPOST). Sensors and Actuators B: Chemical, 2006, 116, 2-10.	4.0	14
112	Path to Bio-Nano-Information Fusion. Annals of the New York Academy of Sciences, 2006, 1093, 123-142.	1.8	3
113	Nanomanufacturing and Characterization Modalities for Bio-Nano-Informatics Systems. Journal of Nanoscience and Nanotechnology, 2006, 6, 875-891.	0.9	18
114	Nano/Micro Robotic Systems for Directing Cellular Functions. , 2006, , .		0
115	Evaluation of synthetic linear motor-molecule actuation energetics. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8583-8588.	3.3	89
116	A Point-of-Care Micro-Laboratory for Direct Pathogen Identification in Body Fluids. , 2006, , .		4
117	Design of Microfluidic Mixer Utilizing Pressure Disturbances. , 2006, , .		2
118	Studies of deionization and impedance spectroscopy for blood analyzer. , 2005, 6003, 82.		4
119	Cell relaxation after electrodeformation: effect of latrunculin A on cytoskeletal actin. Journal of Biomechanics, 2005, 38, 529-535.	0.9	45
120	Linear Artificial Molecular Muscles. Journal of the American Chemical Society, 2005, 127, 9745-9759.	6.6	660
121	Control of complex bio-molecular system. , 2005, , .		0
122	Bubble dispenser in microfluidic devices. Physical Review E, 2005, 72, 037302.	0.8	121
123	The Oral Fluid MEMS/NEMS Chip (OFMNC): Diagnostic & Translational Applications. Advances in Dental Research, 2005, 18, 3-5.	3.6	57
124	Single-Molecule Tracing on a Fluidic Microchip for Quantitative Detection of Low-Abundance Nucleic Acids. Journal of the American Chemical Society, 2005, 127, 5354-5359.	6.6	114
125	A parametrized three-dimensional model for MEMS thermal shear-stress sensors. Journal of Microelectromechanical Systems, 2005, 14, 625-633.	1.7	15
126	Control of complex bio-molecular systems. , 2005, , .		0

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127	Detection of picomolar levels of interleukin-8 in human saliva by SPR. Lab on A Chip, 2005, 5, 1017.	3.1	143
128	Experiments and simulations of MEMS thermal sensors for wall shear-stress measurements in aerodynamic control applications. Journal of Micromechanics and Microengineering, 2004, 14, 1640-1649.	1.5	46
129	Scaling law in liquid drop coalescence driven by surface tension. Physics of Fluids, 2004, 16, L51-L54.	1.6	234
130	Interleukin 6 and Interleukin 8 as Potential Biomarkers for Oral Cavity and Oropharyngeal Squamous Cell Carcinoma. JAMA Otolaryngology, 2004, 130, 929.	1.5	352
131	Reconfigurable hydrophobic/hydrophilic surfaces in microelectromechanical systems (MEMS). Journal of Micromechanics and Microengineering, 2004, 14, 91-95.	1.5	51
132	Micro Sensors: Linking Real-Time Oscillatory Shear Stress with Vascular Inflammatory Responses. Annals of Biomedical Engineering, 2004, 32, 189-201.	1.3	34
133	A Chaotic Mixer for Magnetic Bead-Based Micro Cell Sorter. Journal of Microelectromechanical Systems, 2004, 13, 779-790.	1.7	129
134	Fabrication Process of Microsurgical Tools for Single-Cell Trapping and Intracytoplasmic Injection. Journal of Microelectromechanical Systems, 2004, 13, 940-946.	1.7	16
135	Microsensors and Actuators for Macrofluidic Control. IEEE Sensors Journal, 2004, 4, 494-502.	2.4	35
136	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. Nano Letters, 2004, 4, 2065-2071.	4.5	111
137	Electrokinetic Bioprocessor for Concentrating Cells and Molecules. Analytical Chemistry, 2004, 76, 6908-6914.	3.2	164
138	Transport of bubbles in square microchannels. Physics of Fluids, 2004, 16, 4575-4585.	1.6	353
139	A nanomechanical device based on linear molecular motors. Applied Physics Letters, 2004, 85, 5391-5393.	1.5	210
140	Surface Shear Stress Reduction with MEMS Sensors/Actuators in Turbulent Boundary Layers. , 2004, , .		2
141	Bio-Nano-Information Fusion. , 2004, , .		0
142	Electrokinetics in Micro Devices for Biotechnology Applications. IEEE/ASME Transactions on Mechatronics, 2004, 9, 366-376.	3.7	210
143	Unsteady aerodynamics and flow control for flapping wing flyers. Progress in Aerospace Sciences, 2003, 39, 635-681.	6.3	343
144	Flexible shear-stress sensor skin and its application to unmanned aerial vehicles. Sensors and Actuators A: Physical, 2003, 105, 321-329.	2.0	107

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145	Deformation of DNA molecules by hydrodynamic focusing. Journal of Fluid Mechanics, 2003, 497, 55-65.	1.4	96
146	Miniaturized Real-Time Airborne Bio-Agents Detector for Expendable-UAVs. , 2003, , .		1
147	IC-integrated flexible shear-stress sensor skin. Journal of Microelectromechanical Systems, 2003, 12, 740-747.	1.7	93
148	Monocyte recruitment to endothelial cells in response to oscillatory shear stress. FASEB Journal, 2003, 17, 1648-1657.	0.2	135
149	A Chaotic Micro-Mixer Using Magnetic Beads. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2003, 69, 2626-2632.	0.2	3
150	Reconfigurable Hydrophobic/Hydrophilic Surfaces Based on Self-Assembled Monolayers. Materials Research Society Symposia Proceedings, 2003, 774, 581.	0.1	4
151	Nano/Micro Technologies for Detecting a Single DNA Molecule. , 2003, , 477-493.		0
152	An electrochemical detection scheme for identification of single nucleotide polymorphisms using hairpin-forming probes. Nucleic Acids Research, 2002, 30, 55e-55.	6.5	63
153	Paths Linking Micro and Nano Sciences and Technologies. International Journal of Nonlinear Sciences and Numerical Simulation, 2002, 3, .	0.4	0
154	Pressure Drops of Water Flow Through Micromachined Particle Filters. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 1053-1056.	0.8	22
155	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part I: concept, design, and model. Journal of Microelectromechanical Systems, 2002, 11, 427-436.	1.7	82
156	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part II: fabrication, implementation, and characterization. Journal of Microelectromechanical Systems, 2002, 11, 437-447.	1.7	45
157	Visualization of Shear Stress With Micro Imaging Chip and Discrete Wavelet Transform. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 1018-1024.	0.8	4
158	Endothelial Cell Dynamics under Pulsating Flows: Significance of High Versus Low Shear Stress Slew Rates. Annals of Biomedical Engineering, 2002, 30, 646-656.	1.3	71
159	Applications of MEMS devices to delta wing aircraft - From concept development to transonic flight test. , 2001, , .		19
160	Micromachined Particle Filter With Low Power Dissipation. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 899-908.	0.8	33
161	Titanium-alloy MEMS wing technology for a micro aerial vehicle application. Sensors and Actuators A: Physical, 2001, 89, 95-103.	2.0	167
162	A MEMS based amperometric detector for E. Coli bacteria using self-assembled monolayers. Biosensors and Bioelectronics, 2001, 16, 745-755.	5.3	192

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163	Nanofluidics: enabling processes for biotech. , 2001, , .		0
164	<title>Gryphon M<formula><inf><roman>3</roman></inf></formula> system: integration of MEMS for flight control</title>. , 2001, , .		2
165	Chaotic Mixing In Electrokinetically And Pressure Driven Micro Flows. , 2001, , 185-191.		71
166	Mining Sequence Patterns from Wind Tunnel Experimental Data for Flight Control. Lecture Notes in Computer Science, 2001, , 270-281.	1.0	1
167	Sensing and Control of Aerodynamic Separation by MEMS. Journal of Mechanics, 2000, 16, 45-52.	0.7	4
168	Control of global instability in a non-parallel near wake. Journal of Fluid Mechanics, 2000, 404, 345-378.	1.4	28
169	Statistical analysis on wall shear stress of turbulent boundary layer in a channel flow using micro-shear stress imager. International Journal of Heat and Fluid Flow, 2000, 21, 576-581.	1.1	40
170	A flexible micromachine-based shear-stress sensor array and its application to separation-point detection. Sensors and Actuators A: Physical, 2000, 79, 194-203.	2.0	107
171	Robust Vortex Control of a Delta Wing by Distributed Microelectromechanical-Systems Actuators. Journal of Aircraft, 2000, 37, 697-706.	1.7	38
172	Separation bubble control for gentle stall on a Wortmann airfoil. , 2000, , .		2
173	Microfluidic System for Biological Agent Detection. , 2000, , 159-168.		8
174	Enzyme-Based Electrochemical Biosensor with DNA Array Chip. , 2000, , 509-512.		3
175	MEMS transducers for aerodynamics - A paradigm shift. , 2000, , .		9
176	Visualization and Detection of Wall Shear Stress using Micro Shear Stress Sensor and Discrete Wavelet Analysis. IEEJ Transactions on Sensors and Micromachines, 2000, 120, 272-279.	0.0	1
177	Characterization of a MEMS-Fabricated Mixing Device. , 2000, , .		14
178	A micro-electro-mechanical-system-based thermal shear-stress sensor with self-frequency compensation. Measurement Science and Technology, 1999, 10, 687-696.	1.4	49
179	Sensors and actuators on non-planar substrates. Sensors and Actuators A: Physical, 1999, 73, 80-88.	2.0	30
180	Flow control by using high-aspect-ratio, in-plane microactuators. Sensors and Actuators A: Physical, 1999, 73, 169-175.	2.0	9

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181	Micromachined membrane particle filters. Sensors and Actuators A: Physical, 1999, 73, 184-191.	2.0	97
182	Out-of-plane magnetic actuators with electroplated permalloy for fluid dynamics control. Sensors and Actuators A: Physical, 1999, 78, 190-197.	2.0	41
183	Measurements of wall shear stress of a turbulent boundary layer using a micro-shear-stress imaging chip. Fluid Dynamics Research, 1999, 24, 329-342.	0.6	29
184	A micromachined flow shear-stress sensor based on thermal transfer principles. Journal of Microelectromechanical Systems, 1999, 8, 90-99.	1.7	146
185	Active Flow Control by Micro Systems. Fluid Mechanics and Its Applications, 1999, , 195-202.	0.1	6
186	A MEMS thermopneumatic silicone rubber membrane valve. Sensors and Actuators A: Physical, 1998, 64, 101-108.	2.0	57
187	MICRO-ELECTRO-MECHANICAL-SYSTEMS (MEMS) AND FLUID FLOWS. Annual Review of Fluid Mechanics, 1998, 30, 579-612.	10.8	1,156
188	MEMS - A technology for advancements in aerospace engineering. , 1997, , .		13
189	The PVC technique â€“ a method to estimate the dissipation length scale in turbulent flows. Journal of Fluid Mechanics, 1997, 352, 135-159.	1.4	4
190	Shear Stress Measuremens on an Airfoil Surface Using Micro-Machined Sensors.. JSME International Journal Series B, 1997, 40, 265-272.	0.3	4
191	MEMS for aerodynamic control. , 1997, , .		6
192	Piezoelectrically driven meso-scale actuator device for aerodynamic control. , 1997, , .		0
193	Dissipation scale and control of fine-scale turbulence in a plane mixing layer. Journal of Fluid Mechanics, 1996, 320, 139.	1.4	11
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