

Chih-Ming Ho

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

13,339
citations

60
h-index

110
g-index

279
ext. papers

15,045
ext. citations

5.2
avg. IF

6.37
L-index

#	Paper	IF	Citations
240	Validation of a universal and highly sensitive two-dimensional liquid chromatography-tandem mass spectrometry methodology for the quantification of pyrazinamide, ethambutol, protionamide, and clofazimine in different biological matrices. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020 , 1151, 122141	3.2	
239	Enabling Technologies for Personalized and Precision Medicine. <i>Trends in Biotechnology</i> , 2020 , 38, 497-518	8.1	71
238	Harnessing Artificial Intelligence to Optimize Long-Term Maintenance Dosing for Antiretroviral-Naive Adults with HIV-1 Infection. <i>Advanced Therapeutics</i> , 2020 , 3, 1900114	4.9	7
237	Harnessing an Artificial Intelligence Platform to Dynamically Individualize Combination Therapy for Treating Colorectal Carcinoma in a Rat Model. <i>Advanced Therapeutics</i> , 2020 , 3, 1900127	4.9	5
236	Artificial intelligence enabled parabolic response surface platform identifies ultra-rapid near-universal TB drug treatment regimens comprising approved drugs. <i>PLoS ONE</i> , 2019 , 14, e0215607	3.7	15
235	Cellular Signaling Analysis shows antiviral, ribavirin-mediated ribosomal signaling modulation. <i>Antiviral Research</i> , 2019 , 171, 104598	10.8	2
234	Subvoxel light-sheet microscopy for high-resolution high-throughput volumetric imaging of large biomedical specimens. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	26
233	Simultaneous determination of the potent anti-tuberculosis regimen-Pyrazinamide, ethambutol, protionamide, clofazimine in beagle dog plasma using LC-MS/MS method coupled with 96-well format plate. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 168, 44-54	3.5	4
232	Optimizing drug combinations against multiple myeloma using a quadratic phenotypic optimization platform (QPOP). <i>Science Translational Medicine</i> , 2018 , 10,	17.5	43
231	Ultra-rapid near universal TB drug regimen identified via parabolic response surface platform cures mice of both conventional and high susceptibility. <i>PLoS ONE</i> , 2018 , 13, e0207469	3.7	11
230	Modulating BET Bromodomain Inhibitor ZEN-3694 and Enzalutamide Combination Dosing in a Metastatic Prostate Cancer Patient Using CURATE.AI, an Artificial Intelligence Platform. <i>Advanced Therapeutics</i> , 2018 , 1, 1800104	4.9	38
229	Drug regimens identified and optimized by output-driven platform markedly reduce tuberculosis treatment time. <i>Nature Communications</i> , 2017 , 8, 14183	17.4	31
228	Continuous Adaptive Population Reduction (CAPR) for Differential Evolution Optimization. <i>SLAS Technology</i> , 2017 , 22, 289-305	3	7
227	Directing three-dimensional multicellular morphogenesis by self-organization of vascular mesenchymal cells in hyaluronic acid hydrogels. <i>Journal of Biological Engineering</i> , 2017 , 11, 12	6.3	10
226	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. <i>SLAS Technology</i> , 2017 , 22, 276-288	3	20
225	A novel combination of four flavonoids derived from Astragali Radix relieves the symptoms of cyclophosphamide-induced anemic rats. <i>FEBS Open Bio</i> , 2017 , 7, 318-323	2.7	17
224	Effective drug combination for nematodes discovered by output-driven feedback system control technique. <i>Science Advances</i> , 2017 , 3, eaao1254	14.3	32

223	Three dimensional tubular structure self-assembled by vascular mesenchymal cells at stiffness interfaces of hydrogels. <i>Biomedicine and Pharmacotherapy</i> , 2016 , 83, 1203-1211	7.5	7
222	Cardiac Light-Sheet Fluorescent Microscopy for Multi-Scale and Rapid Imaging of Architecture and Function. <i>Scientific Reports</i> , 2016 , 6, 22489	4.9	48
221	Individualizing liver transplant immunosuppression using a phenotypic personalized medicine platform. <i>Science Translational Medicine</i> , 2016 , 8, 333ra49	17.5	71
220	Optimization of drug combinations using Feedback System Control. <i>Nature Protocols</i> , 2016 , 11, 302-15	18.8	67
219	Output-driven feedback system control platform optimizes combinatorial therapy of tuberculosis using a macrophage cell culture model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2172-9	11.5	55
218	Compact plane illumination plugin device to enable light sheet fluorescence imaging of multi-cellular organisms on an inverted wide-field microscope. <i>Biomedical Optics Express</i> , 2016 , 7, 194-208	3.5	22
217	4-Dimensional light-sheet microscopy to elucidate shear stress modulation of cardiac trabeculation. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1679-90	15.9	67
216	Use of Orthogonal Array Composite Designs to Study Lipid Accumulation in a Cell-Free System. <i>Quality and Reliability Engineering International</i> , 2016 , 32, 1965-1974	2.6	6
215	A UV-sensitive hydrogel based combinatory drug delivery chip (UV gel-Drug Chip) for cancer cocktail drug screening. <i>RSC Advances</i> , 2016 , 6, 44425-44434	3.7	10
214	In vitro reconstruction of branched tubular structures from lung epithelial cells in high cell concentration gradient environment. <i>Scientific Reports</i> , 2015 , 5, 8054	4.9	18
213	Rapid optimization of drug combinations for the optimal angiostatic treatment of cancer. <i>Angiogenesis</i> , 2015 , 18, 233-44	10.6	85
212	Identification and Optimization of Combinatorial Glucose Metabolism Inhibitors in Hepatocellular Carcinomas. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 423-37		25
211	Preclinical optimization of a broad-spectrum anti-bladder cancer tri-drug regimen via the Feedback System Control (FSC) platform. <i>Scientific Reports</i> , 2015 , 5, 11464	4.9	13
210	A streamlined search technology for identification of synergistic drug combinations. <i>Scientific Reports</i> , 2015 , 5, 14508	4.9	60
209	Compact Wireless Microscope for In-Situ Time Course Study of Large Scale Cell Dynamics within an Incubator. <i>Scientific Reports</i> , 2015 , 5, 18483	4.9	20
208	Mechanism-independent optimization of combinatorial nanodiamond and unmodified drug delivery using a phenotypically driven platform technology. <i>ACS Nano</i> , 2015 , 9, 3332-44	16.7	77
207	Rapid, electrical impedance detection of bacterial pathogens using immobilized antimicrobial peptides. <i>Journal of the Association for Laboratory Automation</i> , 2014 , 19, 42-9		51
206	Discovery of a low order drug-cell response surface for applications in personalized medicine. <i>Physical Biology</i> , 2014 , 11, 065003	3	24

205	Branching patterns emerge in a mathematical model of the dynamics of lung development. <i>Journal of Physiology</i> , 2014 , 592, 313-24	3.9	30
204	Use of Fractional Factorial Designs in Antiviral Drug Studies. <i>Quality and Reliability Engineering International</i> , 2013 , 29, 299-304	2.6	24
203	Application of fractional factorial designs to study drug combinations. <i>Statistics in Medicine</i> , 2013 , 32, 307-18	2.3	36
202	Coffee ring aptasensor for rapid protein detection. <i>Langmuir</i> , 2013 , 29, 8440-6	4	84
201	Rapid electrochemical detection on a mobile phone. <i>Lab on A Chip</i> , 2013 , 13, 2950-5	7.2	215
200	When Medicine Meets Engineering-Paradigm Shifts in Diagnostics and Therapeutics. <i>Diagnostics</i> , 2013 , 3, 126-54	3.8	4
199	Optimizing combinations of flavonoids deriving from astragali radix in activating the regulatory element of erythropoietin by a feedback system control scheme. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013 , 2013, 541436	2.3	22
198	Reconfigurable microfluidic pump enabled by opto-electrical-thermal transduction. <i>Applied Physics Letters</i> , 2013 , 103, 174101	3.4	2
197	Guiding the osteogenic fate of mouse and human mesenchymal stem cells through feedback system control. <i>Scientific Reports</i> , 2013 , 3, 3420	4.9	44
196	Accurate and Effective Live Bacteria Microarray Patterning on Thick Polycationic Polymer Layer Co-Patterned with HMDS. <i>RSC Advances</i> , 2012 , 2, 7673-7676	3.7	5
195	Optoelectronic reconfigurable microchannels. <i>Lab on A Chip</i> , 2012 , 12, 5086-92	7.2	7
194	Directing tissue morphogenesis via self-assembly of vascular mesenchymal cells. <i>Biomaterials</i> , 2012 , 33, 9019-26	15.6	27
193	Serum creatinine detection by a conducting-polymer-based electrochemical sensor to identify allograft dysfunction. <i>Analytical Chemistry</i> , 2012 , 84, 7933-7	7.8	37
192	Cascade search for HSV-1 combinatorial drugs with high antiviral efficacy and low toxicity. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2281-92	7.3	36
191	A high-order alternating direction implicit method for the unsteady convection-dominated diffusion problem. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 70, 703-712	1.9	7
190	Left-right symmetry breaking in tissue morphogenesis via cytoskeletal mechanics. <i>Circulation Research</i> , 2012 , 110, 551-9	15.7	80
189	Patterns of periodic holes created by increased cell motility. <i>Interface Focus</i> , 2012 , 2, 457-64	3.9	11
188	Micro/Nano Fluidics Mechanics and Transducers 2012 , 45-69		

187	An optimized small molecule inhibitor cocktail supports long-term maintenance of human embryonic stem cells. <i>Nature Communications</i> , 2011 , 2, 167	17.4	130
186	Nanochromatography driven by the coffee ring effect. <i>Analytical Chemistry</i> , 2011 , 83, 1871-3	7.8	229
185	Optoelectronic Heating for Fabricating Microfluidic Circuitry. <i>Advances in OptoElectronics</i> , 2011 , 2011, 1-10	0.5	2
184	Control of Kaposi's sarcoma-associated herpesvirus reactivation induced by multiple signals. <i>PLoS ONE</i> , 2011 , 6, e20998	3.7	9
183	Rapidly optimizing an aptamer based BoNT sensor by feedback system control (FSC) scheme. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 174-9	11.8	24
182	Ultrasonication on a microfluidic chip to lyse single and multiple <i>Pseudo-nitzschia</i> for marine biotoxin analysis. <i>Biotechnology Journal</i> , 2011 , 6, 150-5	5.6	12
181	Developing defined culture systems for human pluripotent stem cells. <i>Regenerative Medicine</i> , 2011 , 6, 623-34	2.5	29
180	Systematic quantitative characterization of cellular responses induced by multiple signals. <i>BMC Systems Biology</i> , 2011 , 5, 88	3.5	53
179	The Lab-on-a-Chip Approach for Molecular Diagnostics 2010 , 21-34		2
178	System control-mediated drug delivery towards complex systems via nanodiamond carriers. <i>International Journal of Smart and Nano Materials</i> , 2010 , 1, 69-81	3.6	6
177	An agar gel membrane-PDMS hybrid microfluidic device for long term single cell dynamic study. <i>Lab on A Chip</i> , 2010 , 10, 2710-9	7.2	21
176	A long-term, stable hydrophilic poly(dimethylsiloxane) coating for capillary-based pumping 2010 ,		5
175	A self-pumping lab-on-a-chip for rapid detection of botulinum toxin. <i>Lab on A Chip</i> , 2010 , 10, 2265-70	7.2	61
174	Continuous sorting of heterogeneous-sized embryoid bodies. <i>Lab on A Chip</i> , 2010 , 10, 1678-82	7.2	23
173	Minimal size of coffee ring structure. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5269-74	3.4	264
172	DNA diagnostics: nanotechnology-enhanced electrochemical detection of nucleic acids. <i>Pediatric Research</i> , 2010 , 67, 458-68	3.2	106
171	Efficient dielectrophoretic patterning of embryonic stem cells in energy landscapes defined by hydrogel geometries. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 3777-88	4.7	38
170	Interrogating cell signalling network sensitively monitors cell fate transition during early differentiation of mouse embryonic stem cells. <i>Science China Life Sciences</i> , 2010 , 53, 78-86	8.5	4

169	Micro/Nano Technology Systems for Biomedical Applications 2010 ,		2
168	Surface molecular property modifications for poly(dimethylsiloxane) (PDMS) based microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2009 , 7, 291-306	2.8	367
167	Aptamer-based electrochemical biosensor for Botulinum neurotoxin. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1943-8	4.4	72
166	Bio/abiotic interface constructed from nanoscale DNA dendrimer and conducting polymer for ultrasensitive biomolecular diagnosis. <i>Small</i> , 2009 , 5, 1784-90	11	76
165	Cell Separation by Non-Inertial Force Fields in Microfluidic Systems. <i>Mechanics Research Communications</i> , 2009 , 36, 92-103	2.2	151
164	Dependence of macroscopic wetting on nanoscopic surface textures. <i>Langmuir</i> , 2009 , 25, 12851-4	4	95
163	Wetting behaviors of individual nanostructures. <i>Langmuir</i> , 2009 , 25, 6599-603	4	21
162	Integrative systems control approach for reactivating Kaposi's sarcoma-associated herpesvirus (KSHV) with combinatory drugs. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 123-30	3.7	21
161	Electrochemical sensor for multiplex biomarkers detection. <i>Clinical Cancer Research</i> , 2009 , 15, 4446-52	12.9	180
160	Creation of functional micro/nano systems through top-down and bottom-up approaches. <i>MCB Molecular and Cellular Biomechanics</i> , 2009 , 6, 1-55	1.2	18
159	Photolithographic patterning of organosilane monolayer for generating large area two-dimensional B lymphocyte arrays. <i>Lab on A Chip</i> , 2008 , 8, 2105-12	7.2	38
158	Closed-loop control of cellular functions using combinatory drugs guided by a stochastic search algorithm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5105-10	11.5	137
157	Aptamer-based optical probes with separated molecular recognition and signal transduction modules. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2380-1	16.4	198
156	An unsteady microfluidic T-form mixer perturbed by hydrodynamic pressure. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 45015	2	22
155	Molecular effects on boundary condition in micronanoliquid flows. <i>Physics of Fluids</i> , 2008 , 20, 101512	4.4	40
154	Electrochemical detection of low-copy number salivary RNA based on specific signal amplification with a hairpin probe. <i>Nucleic Acids Research</i> , 2008 , 36, e65	20.1	57
153	. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008 , ,		2
152	Optical protein sensor for detecting cancer markers in saliva. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 266-71	11.8	68

151	The convergence of bio, nano, and information technology: When Worlds Collide. <i>IEEE Nanotechnology Magazine</i> , 2008 , 1, 18-21	1.7	1
150	Surface initiated actin polymerization from top-down manufactured nanopatterns. <i>Soft Matter</i> , 2007 , 3, 541-546	3.6	23
149	A Methanol-Tolerant Gas-Venting Microchannel for a Microdirect Methanol Fuel Cell. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 1403-1410	2.5	35
148	Experimental study and nonlinear dynamic analysis of time-periodic micro chaotic mixers. <i>Journal of Fluid Mechanics</i> , 2007 , 575, 425-448	3.7	34
147	Formation of high electromagnetic gradients through a particle-based microfluidic approach. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1299-1306	2	23
146	Bandgap-assisted surface-plasmon sensing. <i>Applied Optics</i> , 2007 , 46, 3369-75	1.7	21
145	On-Chip Continuous Blood Cell Subtype Separation by Deterministic Lateral Displacement 2007 ,		14
144	Nanomanufacturing and characterization modalities for bio-nano-informatics systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 875-91	1.3	18
143	Evaluation of synthetic linear motor-molecule actuation energetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8583-8	11.5	81
142	A Point-of-Care Micro-Laboratory for Direct Pathogen Identification in Body Fluids 2006 ,		3
141	Design of Microfluidic Mixer Utilizing Pressure Disturbances 2006 ,		1
140	Understanding and harnessing biomimetic molecular machines for NEMS actuation materials. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006 , 3, 254-259	4.9	18
139	Effective slip and friction reduction in nanogated superhydrophobic microchannels. <i>Physics of Fluids</i> , 2006 , 18, 087105	4.4	338
138	Two-phase flow in microchannels with surface modifications. <i>Fluid Dynamics Research</i> , 2006 , 38, 772-786 _{1,2}		93
137	Multilayer SU-8 based microdispenser for microarray assay. <i>Sensors and Actuators A: Physical</i> , 2006 , 132, 714-725	3.9	10
136	Silicone polymer chemical vapor sensors fabricated by direct polymer patterning on substrate technique (DPPOST). <i>Sensors and Actuators B: Chemical</i> , 2006 , 116, 2-10	8.5	11
135	Path to bio-nano-information fusion. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1093, 123-42	6.5	2
134	Bubble dispenser in microfluidic devices. <i>Physical Review E</i> , 2005 , 72, 037302	2.4	105

133	The Oral Fluid MEMS/NEMS Chip (OFMNC): diagnostic and translational applications. <i>Advances in Dental Research</i> , 2005 , 18, 3-5	2.3	47
132	Single-molecule tracing on a fluidic microchip for quantitative detection of low-abundance nucleic acids. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5354-9	16.4	97
131	A parametrized three-dimensional model for MEMS thermal shear-stress sensors. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 625-633	2.5	10
130	Detection of picomolar levels of interleukin-8 in human saliva by SPR. <i>Lab on A Chip</i> , 2005 , 5, 1017-23	7.2	122
129	Studies of deionization and impedance spectroscopy for blood analyzer 2005 , 6003, 82		2
128	Cell relaxation after electrodeformation: effect of latrunculin A on cytoskeletal actin. <i>Journal of Biomechanics</i> , 2005 , 38, 529-35	2.9	36
127	Linear artificial molecular muscles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9745-59	16.4	617
126	Experiments and simulations of MEMS thermal sensors for wall shear-stress measurements in aerodynamic control applications. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1640-1649 ²		37
125	Scaling law in liquid drop coalescence driven by surface tension. <i>Physics of Fluids</i> , 2004 , 16, L51-L54	4.4	193
124	Interleukin 6 and interleukin 8 as potential biomarkers for oral cavity and oropharyngeal squamous cell carcinoma. <i>JAMA Otolaryngology</i> , 2004 , 130, 929-35		302
123	Reconfigurable hydrophobic/hydrophilic surfaces in microelectromechanical systems (MEMS). <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 91-95	2	46
122	Micro sensors: linking real-time oscillatory shear stress with vascular inflammatory responses. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 189-201	4.7	27
121	A chaotic mixer for magnetic bead-based micro cell sorter. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 779-790	2.5	108
120	Fabrication process of microsurgical tools for single-cell trapping and intracytoplasmic injection. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 940-946	2.5	14
119	Microsensors and actuators for macrofluidic control. <i>IEEE Sensors Journal</i> , 2004 , 4, 494-502	4	28
118	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. <i>Nano Letters</i> , 2004 , 4, 2065-2071	11.5	101
117	Electrokinetic bioprocessor for concentrating cells and molecules. <i>Analytical Chemistry</i> , 2004 , 76, 6908-148		139
116	Transport of bubbles in square microchannels. <i>Physics of Fluids</i> , 2004 , 16, 4575-4585	4.4	265

115	A nanomechanical device based on linear molecular motors. <i>Applied Physics Letters</i> , 2004 , 85, 5391-5393	3.4	189
114	Surface Shear Stress Reduction with MEMS Sensors/Actuators in Turbulent Boundary Layers 2004 ,		2
113	Electrokinetics in micro devices for biotechnology applications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2004 , 9, 366-376	5.5	176
112	A Chaotic Micro-Mixer Using Magnetic Beads. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , 2003 , 69, 2626-2632		3
111	Unsteady aerodynamics and flow control for flapping wing flyers. <i>Progress in Aerospace Sciences</i> , 2003 , 39, 635-681	8.8	272
110	Flexible shear-stress sensor skin and its application to unmanned aerial vehicles. <i>Sensors and Actuators A: Physical</i> , 2003 , 105, 321-329	3.9	90
109	Deformation of DNA molecules by hydrodynamic focusing. <i>Journal of Fluid Mechanics</i> , 2003 , 497, 55-65	3.7	83
108	IC-integrated flexible shear-stress sensor skin. <i>Journal of Microelectromechanical Systems</i> , 2003 , 12, 740-747		80
107	Monocyte recruitment to endothelial cells in response to oscillatory shear stress. <i>FASEB Journal</i> , 2003 , 17, 1648-57	0.9	115
106	Reconfigurable Hydrophobic/Hydrophilic Surfaces Based on Self-Assembled Monolayers. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 774, 581		4
105	Nano/Micro Technologies for Detecting a Single DNA Molecule 2003 , 477-493		
104	Visualization of Shear Stress With Micro Imaging Chip and Discrete Wavelet Transform. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002 , 124, 1018-1024	2.1	4
103	Endothelial cell dynamics under pulsating flows: significance of high versus low shear stress slew rates ($d(\tau)/dt$). <i>Annals of Biomedical Engineering</i> , 2002 , 30, 646-56	4.7	56
102	An electrochemical detection scheme for identification of single nucleotide polymorphisms using hairpin-forming probes. <i>Nucleic Acids Research</i> , 2002 , 30, e55	20.1	57
101	Pressure Drops of Water Flow Through Micromachined Particle Filters. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002 , 124, 1053-1056	2.1	20
100	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part I: concept, design, and model. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 427-436	2.5	61
99	A high-resolution high-frequency monolithic top-shooting microinjector free of satellite drops - part II: fabrication, implementation, and characterization. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 437-447	2.5	39
98	Micromachined Particle Filter With Low Power Dissipation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001 , 123, 899-908	2.1	26

97	Titanium-alloy MEMS wing technology for a micro aerial vehicle application. <i>Sensors and Actuators A: Physical</i> , 2001 , 89, 95-103	3.9	137
96	A MEMS based amperometric detector for E. coli bacteria using self-assembled monolayers. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 745-55	11.8	157
95	Gryphon M3 system: integration of MEMS for flight control 2001 ,		1
94	Applications of MEMS devices to delta wing aircraft - From concept development to transonic flight test 2001 ,		13
93	Mining Sequence Patterns from Wind Tunnel Experimental Data for Flight Control. <i>Lecture Notes in Computer Science</i> , 2001 , 270-281	0.9	
92	Chaotic Mixing In Electrokinetically And Pressure Driven Micro Flows 2001 , 185-191		39
91	Sensing and Control of Aerodynamic Separation by MEMS. <i>Journal of Mechanics</i> , 2000 , 16, 45-52	1	3
90	Control of global instability in a non-parallel near wake. <i>Journal of Fluid Mechanics</i> , 2000 , 404, 345-378	3.7	24
89	Statistical analysis on wall shear stress of turbulent boundary layer in a channel flow using micro-shear stress imager. <i>International Journal of Heat and Fluid Flow</i> , 2000 , 21, 576-581	2.4	35
88	A flexible micromachine-based shear-stress sensor array and its application to separation-point detection. <i>Sensors and Actuators A: Physical</i> , 2000 , 79, 194-203	3.9	92
87	Robust Vortex Control of a Delta Wing by Distributed Microelectromechanical-Systems Actuators. <i>Journal of Aircraft</i> , 2000 , 37, 697-706	1.6	28
86	Characterization of a MEMS-Fabricated Mixing Device 2000 ,		6
85	MEMS transducers for aerodynamics - A paradigm shift 2000 ,		5
84	Visualization and Detection of Wall Shear Stress using Micro Shear Stress Sensor and Discrete Wavelet Analysis. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2000 , 120, 272-279	0.2	
83	Microfluidic System for Biological Agent Detection 2000 , 159-168		6
82	Enzyme-Based Electrochemical Biosensor with DNA Array Chip 2000 , 509-512		3
81	A micro-electro-mechanical-system-based thermal shear-stress sensor with self-frequency compensation. <i>Measurement Science and Technology</i> , 1999 , 10, 687-696	2	41
80	Sensors and actuators on non-planar substrates. <i>Sensors and Actuators A: Physical</i> , 1999 , 73, 80-88	3.9	27

79	Flow control by using high-aspect-ratio, in-plane microactuators. <i>Sensors and Actuators A: Physical</i> , 1999 , 73, 169-175	3.9	5
78	Micromachined membrane particle filters. <i>Sensors and Actuators A: Physical</i> , 1999 , 73, 184-191	3.9	76
77	Out-of-plane magnetic actuators with electroplated permalloy for fluid dynamics control. <i>Sensors and Actuators A: Physical</i> , 1999 , 78, 190-197	3.9	35
76	Measurements of wall shear stress of a turbulent boundary layer using a micro-shear-stress imaging chip. <i>Fluid Dynamics Research</i> , 1999 , 24, 329-342	1.2	26
75	A micromachined flow shear-stress sensor based on thermal transfer principles. <i>Journal of Microelectromechanical Systems</i> , 1999 , 8, 90-99	2.5	115
74	Active Flow Control by Micro Systems. <i>Fluid Mechanics and Its Applications</i> , 1999 , 195-202	0.2	6
73	A MEMS thermopneumatic silicone rubber membrane valve. <i>Sensors and Actuators A: Physical</i> , 1998 , 64, 101-108	3.9	46
72	MICRO-ELECTRO-MECHANICAL-SYSTEMS (MEMS) AND FLUID FLOWS. <i>Annual Review of Fluid Mechanics</i> , 1998 , 30, 579-612	22	980
71	MEMS - A technology for advancements in aerospace engineering 1997 ,		9
70	The PVC technique is a method to estimate the dissipation length scale in turbulent flows. <i>Journal of Fluid Mechanics</i> , 1997 , 352, 135-159	3.7	4
69	Shear Stress Measurements on an Airfoil Surface Using Micro-Machined Sensors.. <i>JSME International Journal Series B</i> , 1997 , 40, 265-272		2
68	MEMS for aerodynamic control 1997 ,		4
67	Dissipation scale and control of fine-scale turbulence in a plane mixing layer. <i>Journal of Fluid Mechanics</i> , 1996 , 320, 139	3.7	8
66	Analog VLSI system for active drag reduction. <i>IEEE Micro</i> , 1996 , 16, 53-59	1.8	10
65	REVIEW: MEMS and Its Applications for Flow Control. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1996 , 118, 437-447	2.1	169
64	Improved micro thermal shear-stress sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1996 , 45, 570-574	5.2	33
63	Parametric Effects on Lift Force of an Airfoil in Unsteady Freestream. <i>AIAA Journal</i> , 1996 , 34, 1085-1087	2.1	3
62	Interactive Control of Wall Structures by MEMS-Based Transducers. <i>Fluid Mechanics and Its Applications</i> , 1996 , 413-416	0.2	3

61	Near Field Pressure Fluctuations of a Circular Jet 1996 , 403-409		
60	Microriblets for drag reduction 1995 ,		3
59	Silicon micromachining and its applications 1995 ,		2
58	Effects of time scales on lift of airfoils in an unsteady stream. <i>AIAA Journal</i> , 1994 , 32, 797-801	2.1	27
57	Vortex breakdown over delta wings in unsteady freestream. <i>AIAA Journal</i> , 1994 , 32, 433-436	2.1	16
56	Three-Dimensional Recirculation Flow in a Backward Facing Step. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1994 , 116, 228-232	2.1	30
55	Vortex breakdown over delta wings in unsteady free stream 1993 ,		10
54	Passive control of delta wing rock. <i>Journal of Aircraft</i> , 1993 , 30, 131-133	1.6	5
53	Optical pressure transducer. <i>Review of Scientific Instruments</i> , 1993 , 64, 1999-2002	1.7	
52	High aerodynamic loads on an airfoil submerged in an unsteady stream. <i>AIAA Journal</i> , 1992 , 30, 1117-1119	1.1	44
51	Phase decorrelation of coherent structures in a free shear layer. <i>Journal of Fluid Mechanics</i> , 1991 , 230, 319-337	3.7	22
50	Vorticity dynamics of 2-D and 3-D wings in unsteady free stream 1991 ,		12
49	Lift Force of Delta Wings. <i>Applied Mechanics Reviews</i> , 1990 , 43, 209-221	8.6	118
48	Small-scale transition in a plane mixing layer. <i>Journal of Fluid Mechanics</i> , 1990 , 210, 475-500	3.7	171
47	Vortex Dynamics of Delta Wings. <i>Lecture Notes in Engineering</i> , 1989 , 365-427		24
46	Control of Separated Flow on a Symmetric Airfoil 1988 , 515-524		
45	Vortex induction and mass entrainment in a small-aspect-ratio elliptic jet. <i>Journal of Fluid Mechanics</i> , 1987 , 179, 383-405	3.7	397
44	Visualization of a forced elliptic jet. <i>AIAA Journal</i> , 1986 , 24, 684-685	2.1	44

43	Unsteady vortical flow around three-dimensional lifting surfaces. <i>AIAA Journal</i> , 1986 , 24, 713-721	2.1	50
42	Unsteady flow around an ogive cylinder. <i>Journal of Aircraft</i> , 1986 , 23, 520-528	1.6	32
41	An Alternative Look at the Unsteady Separation Phenomenon 1986 , 165-178		8
40	The pitching delta wing. <i>AIAA Journal</i> , 1985 , 23, 1660-1665	2.1	84
39	Near-field pressure fluctuations of an elliptic jet. <i>AIAA Journal</i> , 1985 , 23, 354-358	2.1	20
38	Unsteady separation in a boundary layer produced by an impinging jet. <i>Journal of Fluid Mechanics</i> , 1985 , 160, 235-256	3.7	156
37	The Mixing Layer Forced by Fundamental and Subharmonic 1985 , 385-395		15
36	Evolution of Coherent Structures in a Lip Jet 1983 , 121-136		10
35	Response of a split film probe under electrical perturbations. <i>Review of Scientific Instruments</i> , 1982 , 53, 1240-1245	1.7	7
34	Subharmonics and vortex merging in mixing layers. <i>Journal of Fluid Mechanics</i> , 1982 , 119, 443-473	3.7	563
33	Dynamics of an impinging jet. Part 2. The noise generation. <i>Journal of Fluid Mechanics</i> , 1982 , 116, 379-393	3.7	71
32	Local and Global Dynamics of Free Shear Layers 1982 , 521-533		13
31	Dynamics of an impinging jet. Part 1. The feedback phenomenon. <i>Journal of Fluid Mechanics</i> , 1981 , 105, 119	3.7	345
30	Unsteady Wake of a Plunging Airfoil. <i>AIAA Journal</i> , 1981 , 19, 1492-1494	2.1	14
29	Unsteady Kutta Condition of a Plunging Airfoil 1981 , 197-206		11
28	On the Feedback Phenomenon of an Impinging Jet 1979 ,		5
27	Temperature fluctuations in a turbulent flame. <i>Combustion and Flame</i> , 1976 , 27, 113-123	5.3	18
26	Acoustical shadowgraph. <i>Physics of Fluids</i> , 1976 , 19, 1118		14

25	Sound generated by a single cambered blade in wake cutting. <i>AIAA Journal</i> , 1976 , 14, 763-766	2.1	7
24	MEMS on bulk mechanical contour substrates		4
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22	A MEMS thermopneumatic silicone membrane valve		12
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