

# Chih-Ming Ho

## List of Publications by Year in descending order

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263  
papers

16,471  
citations

15495

65  
h-index

17580

121  
g-index

279  
all docs

279  
docs citations

279  
times ranked

14542  
citing authors

#	ARTICLE	IF	CITATIONS
1	MICRO-ELECTRO-MECHANICAL-SYSTEMS (MEMS) AND FLUID FLOWS. Annual Review of Fluid Mechanics, 1998, 30, 579-612.	10.8	1,156
2	Subharmonics and vortex merging in mixing layers. Journal of Fluid Mechanics, 1982, 119, 443-473.	1.4	719
3	Linear Artificial Molecular Muscles. Journal of the American Chemical Society, 2005, 127, 9745-9759.	6.6	660
4	Vortex induction and mass entrainment in a small-aspect-ratio elliptic jet. Journal of Fluid Mechanics, 1987, 179, 383-405.	1.4	494
5	Dynamics of an impinging jet. Part 1. The feedback phenomenon. Journal of Fluid Mechanics, 1981, 105, 119.	1.4	428
6	Surface molecular property modifications for poly(dimethylsiloxane) (PDMS) based microfluidic devices. Microfluidics and Nanofluidics, 2009, 7, 291-306.	1.0	428
7	Effective slip and friction reduction in nanogated superhydrophobic microchannels. Physics of Fluids, 2006, 18, 087105.	1.6	387
8	Transport of bubbles in square microchannels. Physics of Fluids, 2004, 16, 4575-4585.	1.6	353
9	Interleukin 6 and Interleukin 8 as Potential Biomarkers for Oral Cavity and Oropharyngeal Squamous Cell Carcinoma. JAMA Otolaryngology, 2004, 130, 929.	1.5	352
10	Unsteady aerodynamics and flow control for flapping wing flyers. Progress in Aerospace Sciences, 2003, 39, 635-681.	6.3	343
11	Minimal Size of Coffee Ring Structure. Journal of Physical Chemistry B, 2010, 114, 5269-5274.	1.2	306
12	Nanochromatography Driven by the Coffee Ring Effect. Analytical Chemistry, 2011, 83, 1871-1873.	3.2	277
13	Rapid electrochemical detection on a mobile phone. Lab on A Chip, 2013, 13, 2950.	3.1	236
14	Scaling law in liquid drop coalescence driven by surface tension. Physics of Fluids, 2004, 16, L51-L54.	1.6	234
15	Electrochemical Sensor for Multiplex Biomarkers Detection. Clinical Cancer Research, 2009, 15, 4446-4452.	3.2	217
16	REVIEW: MEMS and Its Applications for Flow Control. Journal of Fluids Engineering, Transactions of the ASME, 1996, 118, 437-447.	0.8	213
17	A nanomechanical device based on linear molecular motors. Applied Physics Letters, 2004, 85, 5391-5393.	1.5	210
18	Electrokinetics in Micro Devices for Biotechnology Applications. IEEE/ASME Transactions on Mechatronics, 2004, 9, 366-376.	3.7	210

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19	Aptamer-Based Optical Probes with Separated Molecular Recognition and Signal Transduction Modules. <i>Journal of the American Chemical Society</i> , 2008, 130, 2380-2381.	6.6	210
20	Small-scale transition in a plane mixing layer. <i>Journal of Fluid Mechanics</i> , 1990, 210, 475-500.	1.4	200
21	A MEMS based amperometric detector for E. Coli bacteria using self-assembled monolayers. <i>Biosensors and Bioelectronics</i> , 2001, 16, 745-755.	5.3	192
22	Unsteady separation in a boundary layer produced by an impinging jet. <i>Journal of Fluid Mechanics</i> , 1985, 160, 235-256.	1.4	184
23	Cell separation by non-inertial force fields in microfluidic systems. <i>Mechanics Research Communications</i> , 2009, 36, 92-103.	1.0	170
24	Enabling Technologies for Personalized and Precision Medicine. <i>Trends in Biotechnology</i> , 2020, 38, 497-518.	4.9	169
25	Titanium-alloy MEMS wing technology for a micro aerial vehicle application. <i>Sensors and Actuators A: Physical</i> , 2001, 89, 95-103.	2.0	167
26	Electrokinetic Bioprocessor for Concentrating Cells and Molecules. <i>Analytical Chemistry</i> , 2004, 76, 6908-6914.	3.2	164
27	Two-phase flow in microchannels with surface modifications. <i>Fluid Dynamics Research</i> , 2006, 38, 772-786.	0.6	160
28	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, 5105-5110.	3.3	158
29	An optimized small molecule inhibitor cocktail supports long-term maintenance of human embryonic stem cells. <i>Nature Communications</i> , 2011, 2, 167.	5.8	152
30	A micromachined flow shear-stress sensor based on thermal transfer principles. <i>Journal of Microelectromechanical Systems</i> , 1999, 8, 90-99.	1.7	146
31	Detection of picomolar levels of interleukin-8 in human saliva by SPR. <i>Lab on A Chip</i> , 2005, 5, 1017.	3.1	143
32	Lift Force of Delta Wings. <i>Applied Mechanics Reviews</i> , 1990, 43, 209-221.	4.5	138
33	Monocyte recruitment to endothelial cells in response to oscillatory shear stress. <i>FASEB Journal</i> , 2003, 17, 1648-1657.	0.2	135
34	DNA Diagnostics: Nanotechnology-Enhanced Electrochemical Detection of Nucleic Acids. <i>Pediatric Research</i> , 2010, 67, 458-468.	1.1	131
35	A Chaotic Mixer for Magnetic Bead-Based Micro Cell Sorter. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 779-790.	1.7	129
36	Bubble dispenser in microfluidic devices. <i>Physical Review E</i> , 2005, 72, 037302.	0.8	121

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37	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, 5354-5359.	6.6	114
38	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. <i>Nano Letters</i> , 2004, 4, 2065-2071.	4.5	111
39	Left-Right Symmetry Breaking in Tissue Morphogenesis via Cytoskeletal Mechanics. <i>Circulation Research</i> , 2012, 110, 551-559.	2.0	109
40	Mechanism-Independent Optimization of Combinatorial Nanodiamond and Unmodified Drug Delivery Using a Phenotypically Driven Platform Technology. <i>ACS Nano</i> , 2015, 9, 3332-3344.	7.3	109
41	Rapid optimization of drug combinations for the optimal angiostatic treatment of cancer. <i>Angiogenesis</i> , 2015, 18, 233-244.	3.7	108
42	Individualizing liver transplant immunosuppression using a phenotypic personalized medicine platform. <i>Science Translational Medicine</i> , 2016, 8, 333ra49.	5.8	108
43	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.	2.0	107
44	Flexible shear-stress sensor skin and its application to unmanned aerial vehicles. <i>Sensors and Actuators A: Physical</i> , 2003, 105, 321-329.	2.0	107
45	Dependence of Macroscopic Wetting on Nanoscopic Surface Textures. <i>Langmuir</i> , 2009, 25, 12851-12854.	1.6	105
46	Dynamics of an impinging jet. Part 2. The noise generation. <i>Journal of Fluid Mechanics</i> , 1982, 116, 379-391.	1.4	103
47	Coffee Ring Aptasensor for Rapid Protein Detection. <i>Langmuir</i> , 2013, 29, 8440-8446.	1.6	103
48	The pitching delta wing. <i>AIAA Journal</i> , 1985, 23, 1660-1665.	1.5	102
49	4-Dimensional light-sheet microscopy to elucidate shear stress modulation of cardiac trabeculation. <i>Journal of Clinical Investigation</i> , 2016, 126, 1679-1690.	3.9	100
50	Micromachined membrane particle filters. <i>Sensors and Actuators A: Physical</i> , 1999, 73, 184-191.	2.0	97
51	Deformation of DNA molecules by hydrodynamic focusing. <i>Journal of Fluid Mechanics</i> , 2003, 497, 55-65.	1.4	96
52	IC-integrated flexible shear-stress sensor skin. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 740-747.	1.7	93
53	Bio/Abiotic Interface Constructed from Nanoscale DNA Dendrimer and Conducting Polymer for Ultrasensitive Biomolecular Diagnosis. <i>Small</i> , 2009, 5, 1784-1790.	5.2	91
54	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, 8583-8588.	3.3	89

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55	Optimization of drug combinations using Feedback System Control. <i>Nature Protocols</i> , 2016, 11, 302-315.	5.5	86
56	Optical protein sensor for detecting cancer markers in saliva. <i>Biosensors and Bioelectronics</i> , 2008, 24, 266-271.	5.3	83
57	Aptamer-based electrochemical biosensor for Botulinum neurotoxin. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1943-1948.	1.9	83
58	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.	1.7	82
59	Optimizing drug combinations against multiple myeloma using a quadratic phenotypic optimization platform (QPOP). <i>Science Translational Medicine</i> , 2018, 10, .	5.8	80
60	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.	1.6	76
61	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.	3.3	75
62	Systematic quantitative characterization of cellular responses induced by multiple signals. <i>BMC Systems Biology</i> , 2011, 5, 88.	3.0	72
63	A streamlined search technology for identification of synergistic drug combinations. <i>Scientific Reports</i> , 2015, 5, 14508.	1.6	72
64	Endothelial Cell Dynamics under Pulsating Flows: Significance of High Versus Low Shear Stress Slew Rates. <i>Annals of Biomedical Engineering</i> , 2002, 30, 646-656.	1.3	71
65	Chaotic Mixing In Electrokinetically And Pressure Driven Micro Flows. , 2001, , 185-191.		71
66	A self-pumping lab-on-a-chip for rapid detection of botulinum toxin. <i>Lab on A Chip</i> , 2010, 10, 2265.	3.1	70
67	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-e65.	6.5	68
68	Rapid, Electrical Impedance Detection of Bacterial Pathogens Using Immobilized Antimicrobial Peptides. <i>Journal of the Association for Laboratory Automation</i> , 2014, 19, 42-49.	2.8	64
69	Cardiac Light-Sheet Fluorescent Microscopy for Multi-Scale and Rapid Imaging of Architecture and Function. <i>Scientific Reports</i> , 2016, 6, 22489.	1.6	64
70	An electrochemical detection scheme for identification of single nucleotide polymorphisms using hairpin-forming probes. <i>Nucleic Acids Research</i> , 2002, 30, 55e-55.	6.5	63
71	Unsteady vortical flow around three-dimensional lifting surfaces. <i>AIAA Journal</i> , 1986, 24, 713-721.	1.5	57
72	A MEMS thermopneumatic silicone rubber membrane valve. <i>Sensors and Actuators A: Physical</i> , 1998, 64, 101-108.	2.0	57

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73	The Oral Fluid MEMS/NEMS Chip (OFMNC): Diagnostic & Translational Applications. <i>Advances in Dental Research</i> , 2005, 18, 3-5.	3.6	57
74	Visualization of a forced elliptic jet. <i>AIAA Journal</i> , 1986, 24, 684-685.	1.5	53
75	Drug regimens identified and optimized by output-driven platform markedly reduce tuberculosis treatment time. <i>Nature Communications</i> , 2017, 8, 14183.	5.8	53
76	Serum Creatinine Detection by a Conducting-Polymer-Based Electrochemical Sensor To Identify Allograft Dysfunction. <i>Analytical Chemistry</i> , 2012, 84, 7933-7937.	3.2	52
77	Reconfigurable hydrophobic/hydrophilic surfaces in microelectromechanical systems (MEMS). <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 91-95.	1.5	51
78	High aerodynamic loads on an airfoil submerged in an unsteady stream. <i>AIAA Journal</i> , 1992, 30, 1117-1119.	1.5	50
79	Application of fractional factorial designs to study drug combinations. <i>Statistics in Medicine</i> , 2013, 32, 307-318.	0.8	50
80	A micro-electro-mechanical-system-based thermal shear-stress sensor with self-frequency compensation. <i>Measurement Science and Technology</i> , 1999, 10, 687-696.	1.4	49
81	Efficient Dielectrophoretic Patterning of Embryonic Stem Cells in Energy Landscapes Defined by Hydrogel Geometries. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3777-3788.	1.3	48
82	Guiding the osteogenic fate of mouse and human mesenchymal stem cells through feedback system control. <i>Scientific Reports</i> , 2013, 3, 3420.	1.6	48
83	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.	1.5	46
84	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.	1.7	45
85	Cell relaxation after electrodeformation: effect of latrunculin A on cytoskeletal actin. <i>Journal of Biomechanics</i> , 2005, 38, 529-535.	0.9	45
86	A Methanol-Tolerant Gas-Venting Microchannel for a Microdirect Methanol Fuel Cell. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1403-1410.	1.7	44
87	Cascade search for HSV-1 combinatorial drugs with high antiviral efficacy and low toxicity. <i>International Journal of Nanomedicine</i> , 2012, 7, 2281.	3.3	44
88	Photolithographic patterning of organosilane monolayer for generating large area two-dimensional B lymphocyte arrays. <i>Lab on A Chip</i> , 2008, 8, 2105.	3.1	43
89	Improved micro thermal shear-stress sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1996, 45, 570-574.	2.4	42
90	A dielectrophoretic chaotic mixer. , 0, , .		42

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91	Molecular effects on boundary condition in micro/nanoliquid flows. <i>Physics of Fluids</i> , 2008, 20, 101512.	1.6	42
92	Out-of-plane magnetic actuators with electroplated permalloy for fluid dynamics control. <i>Sensors and Actuators A: Physical</i> , 1999, 78, 190-197.	2.0	41
93	A Micromachined Permalloy Magnetic Actuator Array for Micro Robotics Assembly Systems. , 0, , .		40
94	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.	1.1	40
95	Unsteady flow around an ogive cylinder. <i>Journal of Aircraft</i> , 1986, 23, 520-528.	1.7	39
96	Directing tissue morphogenesis via self-assembly of vascular mesenchymal cells. <i>Biomaterials</i> , 2012, 33, 9019-9026.	5.7	39
97	Robust Vortex Control of a Delta Wing by Distributed Microelectromechanical-Systems Actuators. <i>Journal of Aircraft</i> , 2000, 37, 697-706.	1.7	38
98	Effective drug combination for <i>Caenorhabditis elegans</i> nematodes discovered by output-driven feedback system control technique. <i>Science Advances</i> , 2017, 3, eaao1254.	4.7	38
99	Subvoxel light-sheet microscopy for high-resolution high-throughput volumetric imaging of large biomedical specimens. <i>Advanced Photonics</i> , 2019, 1, 1.	6.2	37
100	Developing defined culture systems for human pluripotent stem cells. <i>Regenerative Medicine</i> , 2011, 6, 623-634.	0.8	36
101	Branching patterns emerge in a mathematical model of the dynamics of lung development. <i>Journal of Physiology</i> , 2014, 592, 313-324.	1.3	36
102	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.	1.5	36
103	Three-Dimensional Recirculation Flow in a Backward Facing Step. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1994, 116, 228-232.	0.8	35
104	Microsensors and Actuators for Macrofluidic Control. <i>IEEE Sensors Journal</i> , 2004, 4, 494-502.	2.4	35
105	Experimental study and nonlinear dynamic analysis of time-periodic micro chaotic mixers. <i>Journal of Fluid Mechanics</i> , 2007, 575, 425-448.	1.4	35
106	Identification and Optimization of Combinatorial Glucose Metabolism Inhibitors in Hepatocellular Carcinomas. <i>Journal of the Association for Laboratory Automation</i> , 2015, 20, 423-437.	2.8	35
107	A flexible MEMS technology and its first application to shear stress sensor skin. , 0, , .		34
108	Micro Sensors: Linking Real-Time Oscillatory Shear Stress with Vascular Inflammatory Responses. <i>Annals of Biomedical Engineering</i> , 2004, 32, 189-201.	1.3	34

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109	Micromachined Particle Filter With Low Power Dissipation. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 899-908.	0.8	33
110	Effects of time scales on lift of airfoils in an unsteady stream. AIAA Journal, 1994, 32, 797-801.	1.5	32
111	A surface-micromachined shear stress imager. , 0, , .		31
112	Phase decorrelation of coherent structures in a free shear layer. Journal of Fluid Mechanics, 1991, 230, 319-337.	1.4	30
113	Sensors and actuators on non-planar substrates. Sensors and Actuators A: Physical, 1999, 73, 80-88.	2.0	30
114	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
115	Near-field pressure fluctuations of an elliptic jet. AIAA Journal, 1985, 23, 354-358.	1.5	29
116	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
117	Rapidly optimizing an aptamer based BoNT sensor by feedback system control (FSC) scheme. Biosensors and Bioelectronics, 2011, 30, 174-179.	5.3	29
118	Use of Fractional Factorial Designs in Antiviral Drug Studies. Quality and Reliability Engineering International, 2013, 29, 299-304.	1.4	29
119	Discovery of a low order drug-cell response surface for applications in personalized medicine. Physical Biology, 2014, 11, 065003.	0.8	29
120	Vortex Dynamics of Delta Wings. Lecture Notes in Engineering, 1989, , 365-427.	0.1	28
121	Control of global instability in a non-parallel near wake. Journal of Fluid Mechanics, 2000, 404, 345-378.	1.4	28
122	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
123	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
124	An unsteady microfluidic T-form mixer perturbed by hydrodynamic pressure. Journal of Micromechanics and Microengineering, 2008, 18, 045015.	1.5	26
125	A magnetic force driven chaotic micro-mixer. , 0, , .		25
126	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



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127	Continuous sorting of heterogeneous-sized embryoid bodies. <i>Lab on A Chip</i> , 2010, 10, 1678.	3.1	25
128	In vitro reconstruction of branched tubular structures from lung epithelial cells in high cell concentration gradient environment. <i>Scientific Reports</i> , 2015, 5, 8054.	1.6	25
129	Surface initiated actin polymerization from top-down manufactured nanopatterns. <i>Soft Matter</i> , 2007, 3, 541.	1.2	24
130	An agar gel membrane-PDMS hybrid microfluidic device for long term single cell dynamic study. <i>Lab on A Chip</i> , 2010, 10, 2710.	3.1	24
131	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, 1-10.	0.5	24
132	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.	1.0	24
133	Temperature fluctuations in a turbulent flame. <i>Combustion and Flame</i> , 1976, 27, 113-123.	2.8	23
134	Formation of high electromagnetic gradients through a particle-based microfluidic approach. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1299-1306.	1.5	23
135	On-Chip Continuous Blood Cell Subtype Separation by Deterministic Lateral Displacement. , 2007, , .		23
136	Wetting Behaviors of Individual Nanostructures. <i>Langmuir</i> , 2009, 25, 6599-6603.	1.6	23
137	Pressure Drops of Water Flow Through Micromachined Particle Filters. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002, 124, 1053-1056.	0.8	22
138	Bandgap-assisted surface-plasmon sensing. <i>Applied Optics</i> , 2007, 46, 3369.	2.1	22
139	Surface micromachined magnetic actuators. , 0, , .		21
140	Understanding and harnessing biomimetic molecular machines for NEMS actuation materials. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006, 3, 254-259.	3.4	20
141	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.	1.1	20
142	Out-of-plane permalloy magnetic actuators for delta-wing control. , 0, , .		19
143	A MEMS thermopneumatic silicone membrane valve. , 0, , .		19
144	Applications of MEMS devices to delta wing aircraft - From concept development to transonic flight test. , 2001, , .		19

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145	Creation of functional micro/nano systems through top-down and bottom-up approaches. <i>MCB Molecular and Cellular Biomechanics</i> , 2009, 6, 1-55.	0.3	19
146	Unsteady Wake of a Plunging Airfoil. <i>AIAA Journal</i> , 1981, 19, 1492-1494.	1.5	18
147	Vortex breakdown over delta wings in unsteady freestream. <i>AIAA Journal</i> , 1994, 32, 433-436.	1.5	18
148	A novel microinjector with virtual chamber neck. , 0, , .		18
149	Nanomanufacturing and Characterization Modalities for Bio-Nano-Informatics Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 875-891.	0.9	18
150	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.	1.6	17
151	Harnessing Artificial Intelligence to Optimize Long-term Maintenance Dosing for Antiretroviral-naïve Adults with HIV-1 Infection. <i>Advanced Therapeutics</i> , 2020, 3, 1900114.	1.6	17
152	Evolution of Coherent Structures in a Lip Jet. , 1983, , 121-136.		16
153	Fabrication Process of Microsurgical Tools for Single-Cell Trapping and Intracytoplasmic Injection. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 940-946.	1.7	16
154	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.	2.0	16
155	Acoustical shadowgraph. <i>Physics of Fluids</i> , 1976, 19, 1118.	1.4	15
156	A parametrized three-dimensional model for MEMS thermal shear-stress sensors. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 625-633.	1.7	15
157	Ultrasonication on a microfluidic chip to lyse single and multiple <i>Pseudo-nitzschia</i> for marine biotoxin analysis. <i>Biotechnology Journal</i> , 2011, 6, 150-155.	1.8	15
158	Patterns of periodic holes created by increased cell motility. <i>Interface Focus</i> , 2012, 2, 457-464.	1.5	15
159	The Mixing Layer Forced by Fundamental and Subharmonic. , 1985, , 385-395.		15
160	An integrated MEMS system for turbulent boundary layer control. , 0, , .		14
161	Multilayer SU-8 based microdispenser for microarray assay. <i>Sensors and Actuators A: Physical</i> , 2006, 132, 714-725.	2.0	14
162	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.	4.0	14

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163	Characterization of a MEMS-Fabricated Mixing Device. , 2000, , .		14
164	MEMS - A technology for advancements in aerospace engineering. , 1997, , .		13
165	Flexible parylene-valved skin for adaptive flow control. , 0, , .		13
166	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
167	Vorticity dynamics of 2-D and 3-D wings in unsteady free stream. , 1991, , .		12
168	Vortex breakdown over delta wings in unsteady free stream. , 1993, , .		12
169	Micro thermal shear stress sensor with and without cavity underneath. , 0, , .		12
170	Unsteady Kutta Condition of a Plunging Airfoil. , 1981, , 197-206.		12
171	Polysilicon structures for shear stress sensors. , 0, , .		11
172	Dissipation scale and control of fine-scale turbulence in a plane mixing layer. Journal of Fluid Mechanics, 1996, 320, 139.	1.4	11
173	Analog VLSI system for active drag reduction. IEEE Micro, 1996, 16, 53-59.	1.8	11
174	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
175	Control of Kaposi's Sarcoma-Associated Herpesvirus Reactivation Induced by Multiple Signals. PLoS ONE, 2011, 6, e20998.	1.1	10
176	Continuous Adaptive Population Reduction (CAPR) for Differential Evolution Optimization. SLAS Technology, 2017, 22, 289-305.	1.0	10
177	Sound generated by a single cambered blade in wake cutting. AIAA Journal, 1976, 14, 763-766.	1.5	9
178	Flow control by using high-aspect-ratio, in-plane microactuators. Sensors and Actuators A: Physical, 1999, 73, 169-175.	2.0	9
179	An Alternative Look at the Unsteady Separation Phenomenon. , 1986, , 165-178.		9
180	MEMS transducers for aerodynamics - A paradigm shift. , 2000, , .		9

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