

Chao-Min Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

173
papers

5,123
citations

101384

36
h-index

106150

65
g-index

176
all docs

176
docs citations

176
times ranked

6925
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper-based immunoassays for mobile healthcare: strategies, challenges, and future applications. , 2022, , 245-257.		0
2	Potential next-generation medications for self-administered platforms. Journal of Controlled Release, 2022, 342, 26-30.	4.8	4
3	Corneal Endothelial Changes Following Early Capsulotomy Using Neodymium:Yttrium-Aluminum-Garnet Laser. Diagnostics, 2022, 12, 150.	1.3	2
4	The Pathomechanism, Antioxidant Biomarkers, and Treatment of Oxidative Stress-Related Eye Diseases. International Journal of Molecular Sciences, 2022, 23, 1255.	1.8	47
5	Evaluation of Transplacental Antibody Transfer in SARS-CoV-2-Immunized Pregnant Women. Vaccines, 2022, 10, 101.	2.1	23
6	Innate Immune Responses of Vaccinees Determine Early Neutralizing Antibody Production After ChAdOx1nCoV-19 Vaccination. Frontiers in Immunology, 2022, 13, 807454.	2.2	13
7	Magnetic Responsive Release of Nitric Oxide from an MOF-Derived Fe ₃ O ₄ @PLGA Microsphere for the Treatment of Bacteria-Infected Cutaneous Wound. ACS Applied Materials & Interfaces, 2022, 14, 6343-6357.	4.0	27
8	A Lateral Flow Immunoassay Coupled with a Spectrum-Based Reader for SARS-CoV-2 Neutralizing Antibody Detection. Vaccines, 2022, 10, 271.	2.1	9
9	Biomarkers during COVID-19: Mechanisms of Change and Implications for Patient Outcomes. Diagnostics, 2022, 12, 509.	1.3	21
10	Refractive Changes Following Premature Posterior Capsulotomy Using Neodymium:Yttrium-Aluminum-Garnet Laser. Journal of Personalized Medicine, 2022, 12, 272.	1.1	7
11	An Assessment of Cataract Severity Based on Antioxidant Status and Ascorbic Acid Levels in Aqueous Humor. Antioxidants, 2022, 11, 397.	2.2	7
12	Urinary Biomarkers for Detection of Clinical Endometriosis or Adenomyosis. Biomedicines, 2022, 10, 833.	1.4	9
13	Dual-cell culture system with identical culture environment for comparison of anti-cancer drug toxicity. Chemical Engineering Science, 2022, 253, 117555.	1.9	2
14	Development of a Tetrazolium-Derived Paper-Based Diagnostic Device as an Early, Alternative Bacteria Screening Tool. Micromachines, 2022, 13, 44.	1.4	3
15	Detection of Microorganisms in Body Fluids via MTT-PMS Assay. Diagnostics, 2022, 12, 46.	1.3	2
16	Paper-Based Devices for Capturing Exosomes and Exosomal Nucleic Acids From Biological Samples. Frontiers in Bioengineering and Biotechnology, 2022, 10, 836082.	2.0	7
17	Interleukin-6 Test Strip Combined With a Spectrum-Based Optical Reader for Early Recognition of COVID-19 Patients With Risk of Respiratory Failure. Frontiers in Bioengineering and Biotechnology, 2022, 10, 796996.	2.0	4
18	Point-of-Care Wound Blotting with Alcian Blue Grading versus Fluorescence Imaging for Biofilm Detection and Predicting 90-Day Healing Outcomes. Biomedicines, 2022, 10, 1200.	1.4	2

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19	How to Evaluate COVID-19 Vaccine Effectiveness—An Examination of Antibody Production and T-Cell Response. <i>Diagnostics</i> , 2022, 12, 1401.	1.3	1
20	Paper-Based Interleukin-6 Test Strip for Early Detection of Wound Infection. <i>Biomedicines</i> , 2022, 10, 1585.	1.4	1
21	Analysis of aqueous humor total antioxidant capacity and its correlation with corneal endothelial health. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10199.	3.9	13
22	Point-of-care semen analysis of patients with infertility via smartphone and colorimetric paper-based diagnostic device. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10176.	3.9	18
23	Pigment Epithelium-Derived Factor Peptide Promotes Corneal Nerve Regeneration: An In Vivo and In Vitro Study. , 2021, 62, 23.		8
24	Turntable Paper-Based Device to Detect <i>Escherichia coli</i> . <i>Micromachines</i> , 2021, 12, 194.	1.4	9
25	Detection of <i>Candida albicans</i> Using a Manufactured Electrochemical Sensor. <i>Micromachines</i> , 2021, 12, 166.	1.4	10
26	Quantitative Spectrochip-Coupled Lateral Flow Immunoassay Demonstrates Clinical Potential for Overcoming Coronavirus Disease 2019 Pandemic Screening Challenges. <i>Micromachines</i> , 2021, 12, 321.	1.4	13
27	Small-volume detection: platform developments for clinically-relevant applications. <i>Journal of Nanobiotechnology</i> , 2021, 19, 114.	4.2	12
28	Accelerated Corneal Endothelial Cell Loss after Phacoemulsification in Patients with Mildly Low Endothelial Cell Density. <i>Journal of Clinical Medicine</i> , 2021, 10, 2270.	1.0	8
29	How Smart Manufacturing Can Help Combat the COVID-19 Pandemic. <i>Diagnostics</i> , 2021, 11, 885.	1.3	2
30	Transdermal drug delivery systems for fighting common viral infectious diseases. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1498-1508.	3.0	26
31	Differences in the Quantity and Composition of Extracellular Vesicles in the Aqueous Humor of Patients with Retinal Neovascular Diseases. <i>Diagnostics</i> , 2021, 11, 1276.	1.3	13
32	Clinical Evaluation of a Self-Testing Kit for Vaginal Infection Diagnosis. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-6.	1.1	3
33	A Paper-Based IL-6 Test Strip Coupled With a Spectrum-Based Optical Reader for Differentiating Influenza Severity in Children. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 752681.	2.0	6
34	Ascorbic acid ameliorates corneal endothelial dysfunction and enhances cell proliferation via the noncanonical GLUT1-ERK axis. <i>Biomedicine and Pharmacotherapy</i> , 2021, 144, 112306.	2.5	7
35	Vaginal pH Value for Clinical Diagnosis and Treatment of Common Vaginitis. <i>Diagnostics</i> , 2021, 11, 1996.	1.3	22
36	A Paper-Based Analytical Device for Analysis of Paraquat in Urine and Its Validation with Optical-Based Approaches. <i>Diagnostics</i> , 2021, 11, 6.	1.3	8

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37	Home Sample Self-Collection for COVID-19 Patients. <i>Advanced Biology</i> , 2020, 4, e2000150.	3.0	15
38	New COVID-19 saliva-based test: How good is it compared with the current nasopharyngeal or throat swab test?. <i>Journal of the Chinese Medical Association</i> , 2020, 83, 891-894.	0.6	46
39	Potential Trends of Point-of-Care Diagnostics—The Next Generation of the Laboratory Diagnosis. <i>Diagnostics</i> , 2020, 10, 774.	1.3	1
40	Differential Markers of Bacterial and Viral Infections in Children for Point-of-Care Testing. <i>Trends in Molecular Medicine</i> , 2020, 26, 1118-1132.	3.5	31
41	Current diagnostic tools for coronaviruses—From laboratory diagnosis to <sc>POC</sc> diagnosis for <sc>COVID</sc>-19. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10177.	3.9	30
42	Rapid detection of biofilm with modified alcian blue staining: In-vitro protocol improvement and validation with clinical cases. <i>Wound Repair and Regeneration</i> , 2020, 28, 834-843.	1.5	12
43	Urinalysis Using a Diaper-Based Testing Device. <i>Biosensors</i> , 2020, 10, 94.	2.3	5
44	Small-volume point-of-care analytical methods. <i>Scientific Reports</i> , 2020, 10, 14230.	1.6	6
45	Portable Device for Quick Detection of Viable Bacteria in Water. <i>Micromachines</i> , 2020, 11, 1079.	1.4	12
46	Accelerated corneal endothelial cell loss in two patients with granulomatosis with polyangiitis following phacoemulsification. <i>BMC Ophthalmology</i> , 2020, 20, 480.	0.6	4
47	Paper-Based Detection Device for Alzheimer's Disease—Detecting β -amyloid Peptides ($A\beta_{42}$) in Human Plasma. <i>Diagnostics</i> , 2020, 10, 272.	1.3	11
48	The effect of bone inhibitors on periosteum-guided cartilage regeneration. <i>Scientific Reports</i> , 2020, 10, 8372.	1.6	7
49	Point-of-Care RNA-Based Diagnostic Device for COVID-19. <i>Diagnostics</i> , 2020, 10, 165.	1.3	106
50	Paper-Based Device for Naked Eye Urinary Albumin/Creatinine Ratio Evaluation. <i>ACS Sensors</i> , 2020, 5, 1110-1118.	4.0	42
51	Preliminary Assessment of Burn Depth by Paper-Based ELISA for the Detection of Angiogenin in Burn Blister Fluid—A Proof of Concept. <i>Diagnostics</i> , 2020, 10, 127.	1.3	5
52	Bioengineering of Human Corneal Endothelial Cells from Single- to Four-Dimensional Cultures. <i>Current Ophthalmology Reports</i> , 2020, 8, 172-184.	0.5	2
53	Paper-based human neutrophil elastase detection device for clinical wound monitoring. <i>Lab on A Chip</i> , 2020, 20, 2709-2716.	3.1	11
54	Role of pH Value in Clinically Relevant Diagnosis. <i>Diagnostics</i> , 2020, 10, 107.	1.3	68

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55	Topical Ascorbic Acid Ameliorates Oxidative Stress-Induced Corneal Endothelial Damage via Suppression of Apoptosis and Autophagic Flux Blockage. <i>Cells</i> , 2020, 9, 943.	1.8	20
56	Combining Point-of-Care Diagnostics and Internet of Medical Things (IoMT) to Combat the COVID-19 Pandemic. <i>Diagnostics</i> , 2020, 10, 224.	1.3	97
57	Lysophosphatidic acid improves corneal endothelial density in tissue culture by stimulating stromal secretion of interleukin-1 β . <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 6596-6608.	1.6	3
58	Paper-Based Resazurin Assay of Inhibitor-Treated Porcine Sperm. <i>Micromachines</i> , 2019, 10, 495.	1.4	4
59	Perioperative topical ascorbic acid for the prevention of phacoemulsification-related corneal endothelial damage: Two case reports and review of literature. <i>World Journal of Clinical Cases</i> , 2019, 7, 642-649.	0.3	9
60	Soft medical robotics: clinical and biomedical applications, challenges, and future directions. <i>Advanced Robotics</i> , 2019, 33, 1099-1111.	1.1	40
61	Design, application, and integration of paper-based sensors with the Internet of Things. , 2019, , 13-26.		1
62	Urinalysis for diaper-wearing elderly people using a combination of cotton-based diagnostic devices and smartphone-based image analysis. <i>Health Technology</i> , 2019, 3, 8-8.	0.0	1
63	Advances in exosomes technology. <i>Clinica Chimica Acta</i> , 2019, 493, 14-19.	0.5	137
64	Integration of Mobile Devices and Point-Of-Care Diagnostic Devices—The Case of C-Reactive Protein Diagnosis. <i>Diagnostics</i> , 2019, 9, 181.	1.3	2
65	Two Potential Clinical Applications of Origami-Based Paper Devices. <i>Diagnostics</i> , 2019, 9, 203.	1.3	4
66	The Neural Differentiation Potential of Limbal Stem Cells: A Model for Studying the Multipotency of Limbal Stem Cells. <i>Cornea</i> , 2019, 38, S4-S10.	0.9	1
67	Biofilms in Chronic Wounds: Pathogenesis and Diagnosis. <i>Trends in Biotechnology</i> , 2019, 37, 505-517.	4.9	252
68	Point-of-care testing in the early diagnosis of acute pesticide intoxication: The example of paraquat. <i>Biomicrofluidics</i> , 2018, 12, 011501.	1.2	16
69	Hydrophilic films: How hydrophilicity affects blood compatibility and cellular compatibility. <i>Advances in Polymer Technology</i> , 2018, 37, 1635-1642.	0.8	24
70	Caveolin-1 Controls Hyperresponsiveness to Mechanical Stimuli and Fibrogenesis-Associated RUNX2 Activation in Keloid Fibroblasts. <i>Journal of Investigative Dermatology</i> , 2018, 138, 208-218.	0.3	74
71	Point-of-Care Devices Using Disease Biomarkers To Diagnose Neurodegenerative Disorders. <i>Trends in Biotechnology</i> , 2018, 36, 290-303.	4.9	26
72	Rapid Simultaneous Determination of Paraquat and Creatinine in Human Serum Using a Piece of Paper. <i>Micromachines</i> , 2018, 9, 586.	1.4	11

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73	A Simple Imaging Device for Fluorescence-Relevant Applications. <i>Micromachines</i> , 2018, 9, 418.	1.4	4
74	Paper-Based Microfluidic Platforms for Understanding the Role of Exosomes in the Pathogenesis of Major Blindness-Threatening Diseases. <i>Nanomaterials</i> , 2018, 8, 310.	1.9	11
75	Point-of-Care Detection Devices for Food Safety Monitoring: Proactive Disease Prevention. <i>Trends in Biotechnology</i> , 2017, 35, 288-300.	4.9	92
76	Detection of ovulation, a review of currently available methods. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 238-246.	3.9	118
77	Relationship between Porcine Sperm Motility and Sperm Enzymatic Activity using Paper-based Devices. <i>Scientific Reports</i> , 2017, 7, 46213.	1.6	21
78	Diagnosis of Tuberculosis Using Colorimetric Gold Nanoparticles on a Paper-Based Analytical Device. <i>ACS Sensors</i> , 2017, 2, 1345-1354.	4.0	119
79	Up-regulation of miR-455 by the TGF- β 2/SMAD signalling axis promotes the proliferation of oral squamous cancer cells by targeting UBE2B. <i>Journal of Pathology</i> , 2016, 240, 38-49.	2.1	76
80	Development of a Sampling Collection Device with Diagnostic Procedures. <i>Analytical Chemistry</i> , 2016, 88, 7591-7596.	3.2	9
81	Paper-based CRP Monitoring Devices. <i>Scientific Reports</i> , 2016, 6, 38171.	1.6	19
82	Paper-based diagnostic devices for clinical paraquat poisoning diagnosis. <i>Biomicrofluidics</i> , 2016, 10, 034118.	1.2	16
83	Synthetic Biology-Based Point-of-Care Diagnostics for Infectious Disease. <i>Cell Chemical Biology</i> , 2016, 23, 1056-1066.	2.5	23
84	Osteogenic differentiation of preosteoblasts on a hemostatic gelatin sponge. <i>Scientific Reports</i> , 2016, 6, 32884.	1.6	56
85	Fabricating small-scale, curved, polymeric structures for biological applications using a combination of photocurable/thermocurable polydimethylsiloxane and phase interactions. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	2
86	Detection of aqueous VEGF concentrations before and after intravitreal injection of anti-VEGF antibody using low-volume sampling paper-based ELISA. <i>Scientific Reports</i> , 2016, 6, 34631.	1.6	35
87	Lignocellulose-based analytical devices: bamboo as an analytical platform for chemical detection. <i>Scientific Reports</i> , 2016, 5, 18570.	1.6	37
88	Fabricating Cotton Analytical Devices. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	0
89	Spatial distribution of filament elasticity determines the migratory behaviors of a cell. <i>Cell Adhesion and Migration</i> , 2016, 10, 368-377.	1.1	6
90	Integrated Circuit-Based Biofabrication with Common Biomaterials for Probing Cellular Biomechanics. <i>Trends in Biotechnology</i> , 2016, 34, 171-186.	4.9	4

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91	Analytical Devices Based on Direct Synthesis of DNA on Paper. <i>Analytical Chemistry</i> , 2016, 88, 725-731.	3.2	38
92	Low-cost In Vitro Diagnostic Technologies. , 2016, , 59-91.		2
93	In-Vitro Diagnostic Devices. , 2016, , .		3
94	Screen Printed Paper-based Diagnostic Devices with Polymeric Inks. <i>Analytical Sciences</i> , 2015, 31, 145-151.	0.8	36
95	Mechanical coupling of cytoskeletal elasticity and force generation is crucial for understanding the migrating nature of keloid fibroblasts. <i>Experimental Dermatology</i> , 2015, 24, 579-584.	1.4	32
96	Evaluating organophosphate poisoning in human serum with paper. <i>Talanta</i> , 2015, 144, 189-195.	2.9	7
97	Monitoring VEGF levels with low-volume sampling in major vision-threatening diseases: age-related macular degeneration and diabetic retinopathy. <i>Lab on A Chip</i> , 2015, 15, 2357-2363.	3.1	25
98	Probing neural cell behaviors through micro-/nano-patterned chitosan substrates. <i>Biofabrication</i> , 2015, 7, 045007.	3.7	11
99	Syndecan-4 Promotes Epithelial Tumor Cells Spreading and Regulates the Turnover of PKC \pm Activity under Mechanical Stimulation on the Elastomeric Substrates. <i>Cellular Physiology and Biochemistry</i> , 2015, 36, 1291-1304.	1.1	16
100	Cellular force signal integration through vector logic gates. <i>Journal of Biomechanics</i> , 2015, 48, 613-620.	0.9	5
101	The vascularized periosteum flap as novel tissue engineering model for repair of cartilage defects. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 1273-1283.	1.6	9
102	Roles of syndecan-4 and relative kinases in dorsal root ganglion neuron adhesion and mechanotransduction. <i>Neuroscience Letters</i> , 2015, 592, 88-93.	1.0	8
103	Paper-based Devices for Isolation and Characterization of Extracellular Vesicles. <i>Journal of Visualized Experiments</i> , 2015, , e52722.	0.2	22
104	Glycan-based diagnostic devices: current progress, challenges and perspectives. <i>Chemical Communications</i> , 2015, 51, 16750-16762.	2.2	31
105	Reprint of 'Evaluating organophosphate poisoning in human serum with paper'. <i>Talanta</i> , 2015, 145, 66-72.	2.9	7
106	Paper-based ELISA to rapidly detect <i>Escherichia coli</i> . <i>Talanta</i> , 2015, 145, 2-5.	2.9	92
107	Paper " a potential platform in pharmaceutical development. <i>Trends in Biotechnology</i> , 2015, 33, 4-9.	4.9	49
108	Microfluidics Expands the Zebrafish Potentials in Pharmaceutically Relevant Screening. <i>Advanced Healthcare Materials</i> , 2014, 3, 940-945.	3.9	27

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109	Beyond Disease, How Biomedical Engineering Can Improve Global Health. <i>Science Translational Medicine</i> , 2014, 6, 266fs48.	5.8	10
110	Cellulose-Based Diagnostic Devices for Diagnosing Serotype-2 Dengue Fever in Human Serum. <i>Advanced Healthcare Materials</i> , 2014, 3, 187-196.	3.9	41
111	Paper-based immunoaffinity devices for accessible isolation and characterization of extracellular vesicles. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 849-856.	1.0	25
112	Recent advances in low-cost microfluidic platforms for diagnostic applications. <i>Electrophoresis</i> , 2014, 35, 2309-2324.	1.3	124
113	Immunoassays: Cellulose-Based Diagnostic Devices for Diagnosing Serotype-2 Dengue Fever in Human Serum (<i>Adv. Healthcare Mater.</i> 2/2014). <i>Advanced Healthcare Materials</i> , 2014, 3, 154-154.	3.9	0
114	Fabricating millimeter-scale polymeric structures for biomedical applications via a combination of UV-activated materials and daily-use tools. <i>RSC Advances</i> , 2014, 4, 12538-12544.	1.7	1
115	Nanopost-Guided Self-Organization of Dendritic Inorganic Salt Structures. <i>Langmuir</i> , 2014, 30, 10940-10949.	1.6	3
116	Paper-based diagnostic devices for evaluating the quality of human sperm. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 857-867.	1.0	25
117	Paper-Based ELISA for the Detection of Autoimmune Antibodies in Body Fluid—The Case of Bullous Pemphigoid. <i>Analytical Chemistry</i> , 2014, 86, 4605-4610.	3.2	90
118	Monitoring the VEGF level in aqueous humor of patients with ophthalmologically relevant diseases via ultrahigh sensitive paper-based ELISA. <i>Biomaterials</i> , 2014, 35, 3729-3735.	5.7	74
119	Mechanotransduction in intervertebral discs. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 2351-2360.	1.6	9
120	Cotton-based Diagnostic Devices. <i>Scientific Reports</i> , 2014, 4, 6976.	1.6	29
121	Analogy among microfluidics, micromechanics, and microelectronics. <i>Lab on A Chip</i> , 2013, 13, 3782.	3.1	22
122	Using surfaces to modulate the morphology and structure of attached cells—a case of cancer cells on chitosan membranes. <i>Chemical Science</i> , 2013, 4, 3058.	3.7	30
123	Molecular-level dengue fever diagnostic devices made out of paper. <i>Lab on A Chip</i> , 2013, 13, 2686.	3.1	68
124	Probing the dynamic responses of individual actin filaments under fluidic mechanical stimulation via microfluidics. <i>Applied Physics Letters</i> , 2013, 102, 193704.	1.5	1
125	Nanomaterials and nanofabrication for biomedical applications. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 040301.	2.8	1
126	Probing cellular behaviors through nanopatterned chitosan membranes. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 044406.	2.8	5

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127	Monitoring the disease activity via the antibody-antigen recognition in paper. , 2013, , .		0
128	Cell cytoskeletal conformation under reversible thermal control. Applied Physics Letters, 2013, 103, 253701.	1.5	1
129	High-throughput physically based approach for mammalian cell encapsulation. Applied Physics Letters, 2013, 103, 153704.	1.5	1
130	Paper-based tuberculosis diagnostic devices with colorimetric gold nanoparticles. Science and Technology of Advanced Materials, 2013, 14, 044404.	2.8	84
131	Probing Relevant Molecules in Modulating the Neurite Outgrowth of Hippocampal Neurons on Substrates of Different Stiffness. PLoS ONE, 2013, 8, e83394.	1.1	24
132	Probing characteristics of collagen molecules on various surfaces via atomic force microscopy. Applied Physics Letters, 2012, 100, 233703.	1.5	5
133	Frontiers of optofluidics in synthetic biology. Lab on A Chip, 2012, 12, 3654.	3.1	12
134	Three-dimensional microfiber devices that mimic physiological environments to probe cell mechanics and signaling. Lab on A Chip, 2012, 12, 1775.	3.1	15
135	Micropatterning of mammalian cells on inorganic-based nanosponges. Biomaterials, 2012, 33, 4988-4997.	5.7	19
136	Localized neurite outgrowth sensing via substrates with alternative rigidities. Soft Matter, 2011, 7, 9871.	1.2	22
137	Maskless fabrication of small-scale structures through controlling phase interactions. Applied Physics A: Materials Science and Processing, 2011, 102, 185-188.	1.1	1
138	Î ² -Lapachone induces heart morphogenetic and functional defects by promoting the death of erythrocytes and the endocardium in zebrafish embryos. Journal of Biomedical Science, 2011, 18, 70.	2.6	11
139	Localized bimodal response of neurite extensions and structural proteins in dorsal-root ganglion neurons with controlled polydimethylsiloxane substrate stiffness. Journal of Biomechanics, 2011, 44, 856-862.	0.9	35
140	Modulating material interfaces through biologically-inspired intermediates. Applied Physics Letters, 2011, 99, 233701.	1.5	4
141	Mechanical stretch and shear flow induced reorganization and recruitment of fibronectin in fibroblasts. Scientific Reports, 2011, 1, 147.	1.6	40
142	Probing Cell Structure Responses Through a Shear and Stretching Mechanical Stimulation Technique. Cell Biochemistry and Biophysics, 2010, 56, 115-124.	0.9	50
143	Paper-Based ELISA. Angewandte Chemie - International Edition, 2010, 49, 4771-4774.	7.2	610
144	Probing localized neural mechanotransduction through surface-modified elastomeric matrices and electrophysiology. Nature Protocols, 2010, 5, 714-724.	5.5	44

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145	Programmable diagnostic devices made from paper and tape. Lab on A Chip, 2010, 10, 2499.	3.1	320
146	Millimeter-scale contact printing of aqueous solutions using a stamp made out of paper and tape. Lab on A Chip, 2010, 10, 3201.	3.1	56
147	Understanding Sensory Nerve Mechanotransduction through Localized Elastomeric Matrix Control. PLoS ONE, 2009, 4, e4293.	1.1	61
148	Defining the role of syndecan-4 in mechanotransduction using surface-modification approaches. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22102-22107.	3.3	109
149	Probing cell structure by controlling the mechanical environment with cell-substrate interactions. Journal of Biomechanics, 2009, 42, 187-192.	0.9	55
150	Composite polymer systems with control of local substrate elasticity and their effect on cytoskeletal and morphological characteristics of adherent cells. Biomaterials, 2009, 30, 3136-3142.	5.7	93
151	Fabricating small-scale, curved, polymeric structures with convex and concave menisci through interfacial free energy equilibrium. Lab on A Chip, 2009, 9, 3306.	3.1	16
152	Dynamics of individual polymers using microfluidic based microcurvilinear flow. Lab on A Chip, 2009, 9, 2339.	3.1	6
153	Controlling the mechanics and nanotopography of biocompatible scaffolds through dielectrophoresis with carbon nanotubes. Electrophoresis, 2008, 29, 3123-3127.	1.3	6
154	Spatiotemporal Response of Living Cell Structures in <i>Dictyostelium discoideum</i> with Semiconductor Quantum Dots. Nano Letters, 2008, 8, 1303-1308.	4.5	16
155	Creating cellular and molecular patterns via gravitational force with liquid droplets. Applied Physics Letters, 2008, 93, .	1.5	6
156	Thermally tunable polymer microlenses. Applied Physics Letters, 2008, 92, 251904.	1.5	19
157	Thermally Adjustable Microlenses for Biological Imaging. , 2007, , .		0
158	Subfeature patterning of organic and inorganic materials using robotic assembly. Journal of Materials Research, 2007, 22, 1601-1608.	1.2	11
159	Atomic force microscopic observation of surface-supported human erythrocytes. Applied Physics Letters, 2007, 91, 023901.	1.5	9
160	Chemically Encapsulated Structural Elements for Probing the Mechanical Responses of Biologically Inspired Systems. Langmuir, 2007, 23, 8129-8134.	1.6	19
161	Creating Ordered Small-Scale Biologically-Based Rods through Force-Controlled Stamping. Journal of the American Chemical Society, 2007, 129, 9546-9547.	6.6	7
162	Micropatterning polyvinyl alcohol as a biomimetic material through soft lithography with cell culture. Molecular BioSystems, 2006, 2, 299.	2.9	32

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163	Force-Controlled Inorganic Crystallization Lithography. Journal of the American Chemical Society, 2006, 128, 12080-12081.	6.6	7
164	Polymeric microlenses for real-time aqueous and nonaqueous organic imaging. Applied Physics Letters, 2006, 88, 053902.	1.5	9
165	Optical fabrication of three-dimensional polymeric microstructures. Applied Physics Letters, 2005, 87, 164104.	1.5	4
166	Experimental Determination of Mechanical Properties of Electroformed Ni-Fe Microstructures. Japanese Journal of Applied Physics, 2004, 43, 5480-5481.	0.8	2
167	Applications of a Novel Microheater in Micromolding. Japanese Journal of Applied Physics, 2004, 43, 5218-5220.	0.8	0
168	Improving Spin-Coating Process Using Altered Cover Design. Japanese Journal of Applied Physics, 2004, 43, 8028-8029.	0.8	1
169	Key issues in fabricating microstructures with high aspect ratios by using deep X-ray lithography. Microelectronic Engineering, 2004, 71, 335-342.	1.1	7
170	Experimental investigation of fabrication properties of electroformed Ni-based micro mould inserts. Microelectronic Engineering, 2004, 75, 423-432.	1.1	17
171	Development behaviours and microstructure quality of downward-development in deep x-ray lithography. Journal of Micromechanics and Microengineering, 2001, 11, 692-696.	1.5	26
172	Paper-Based ELISA: A Novel Diagnostic Approach for Monitoring Aqueous Humour VEGF Level in Ocular Diseases. , 0, , .		2
173	Editorial: Detection Nanodevices for Infectious Diseases. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	0