

# 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 ELISA. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4771-4774.	7.2	610
2	Programmable diagnostic devices made from paper and tape. <i>Lab on A Chip</i> , 2010, 10, 2499.	3.1	320
3	Biofilms in Chronic Wounds: Pathogenesis and Diagnosis. <i>Trends in Biotechnology</i> , 2019, 37, 505-517.	4.9	252
4	Advances in exosomes technology. <i>Clinica Chimica Acta</i> , 2019, 493, 14-19.	0.5	137
5	Recent advances in low-cost microfluidic platforms for diagnostic applications. <i>Electrophoresis</i> , 2014, 35, 2309-2324.	1.3	124
6	Diagnosis of Tuberculosis Using Colorimetric Gold Nanoparticles on a Paper-Based Analytical Device. <i>ACS Sensors</i> , 2017, 2, 1345-1354.	4.0	119
7	Detection of ovulation, a review of currently available methods. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 238-246.	3.9	118
8	Defining the role of syndecan-4 in mechanotransduction using surface-modification approaches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22102-22107.	3.3	109
9	Point-of-Care RNA-Based Diagnostic Device for COVID-19. <i>Diagnostics</i> , 2020, 10, 165.	1.3	106
10	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
11	Composite polymer systems with control of local substrate elasticity and their effect on cytoskeletal and morphological characteristics of adherent cells. <i>Biomaterials</i> , 2009, 30, 3136-3142.	5.7	93
12	Paper-based ELISA to rapidly detect <i>Escherichia coli</i> . <i>Talanta</i> , 2015, 145, 2-5.	2.9	92
13	Point-of-Care Detection Devices for Food Safety Monitoring: Proactive Disease Prevention. <i>Trends in Biotechnology</i> , 2017, 35, 288-300.	4.9	92
14	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
15	Paper-based tuberculosis diagnostic devices with colorimetric gold nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 044404.	2.8	84
16	Up-regulation of miR-455p by the TGF- $\beta$ 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
17	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
18	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

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19	Molecular-level dengue fever diagnostic devices made out of paper. <i>Lab on A Chip</i> , 2013, 13, 2686.	3.1	68
20	Role of pH Value in Clinically Relevant Diagnosis. <i>Diagnostics</i> , 2020, 10, 107.	1.3	68
21	Understanding Sensory Nerve Mechanotransduction through Localized Elastomeric Matrix Control. <i>PLoS ONE</i> , 2009, 4, e4293.	1.1	61
22	Millimeter-scale contact printing of aqueous solutions using a stamp made out of paper and tape. <i>Lab on A Chip</i> , 2010, 10, 3201.	3.1	56
23	Osteogenic differentiation of preosteoblasts on a hemostatic gelatin sponge. <i>Scientific Reports</i> , 2016, 6, 32884.	1.6	56
24	Probing cell structure by controlling the mechanical environment with cell-substrate interactions. <i>Journal of Biomechanics</i> , 2009, 42, 187-192.	0.9	55
25	Probing Cell Structure Responses Through a Shear and Stretching Mechanical Stimulation Technique. <i>Cell Biochemistry and Biophysics</i> , 2010, 56, 115-124.	0.9	50
26	Paper as a potential platform in pharmaceutical development. <i>Trends in Biotechnology</i> , 2015, 33, 4-9.	4.9	49
27	The Pathomechanism, Antioxidant Biomarkers, and Treatment of Oxidative Stress-Related Eye Diseases. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1255.	1.8	47
28	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
29	Probing localized neural mechanotransduction through surface-modified elastomeric matrices and electrophysiology. <i>Nature Protocols</i> , 2010, 5, 714-724.	5.5	44
30	Paper-Based Device for Naked Eye Urinary Albumin/Creatinine Ratio Evaluation. <i>ACS Sensors</i> , 2020, 5, 1110-1118.	4.0	42
31	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
32	Mechanical stretch and shear flow induced reorganization and recruitment of fibronectin in fibroblasts. <i>Scientific Reports</i> , 2011, 1, 147.	1.6	40
33	Soft medical robotics: clinical and biomedical applications, challenges, and future directions. <i>Advanced Robotics</i> , 2019, 33, 1099-1111.	1.1	40
34	Analytical Devices Based on Direct Synthesis of DNA on Paper. <i>Analytical Chemistry</i> , 2016, 88, 725-731.	3.2	38
35	Lignocellulose-based analytical devices: bamboo as an analytical platform for chemical detection. <i>Scientific Reports</i> , 2016, 5, 18570.	1.6	37
36	Screen Printed Paper-based Diagnostic Devices with Polymeric Inks. <i>Analytical Sciences</i> , 2015, 31, 145-151.	0.8	36

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37	Localized bimodal response of neurite extensions and structural proteins in dorsal-root ganglion neurons with controlled polydimethylsiloxane substrate stiffness. <i>Journal of Biomechanics</i> , 2011, 44, 856-862.	0.9	35
38	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
39	Micropatterning polyvinyl alcohol as a biomimetic material through soft lithography with cell culture. <i>Molecular BioSystems</i> , 2006, 2, 299.	2.9	32
40	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
41	Glycan-based diagnostic devices: current progress, challenges and perspectives. <i>Chemical Communications</i> , 2015, 51, 16750-16762.	2.2	31
42	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
43	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
44	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
45	Cotton-based Diagnostic Devices. <i>Scientific Reports</i> , 2014, 4, 6976.	1.6	29
46	Microfluidics Expands the Zebrafish Potentials in Pharmaceutically Relevant Screening. <i>Advanced Healthcare Materials</i> , 2014, 3, 940-945.	3.9	27
47	Magnetic Responsive Release of Nitric Oxide from an MOF-Derived Fe <sub>3</sub> O <sub>4</sub> @PLGA Microsphere for the Treatment of Bacteria-Infected Cutaneous Wound. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 6343-6357.	4.0	27
48	Development behaviours and microstructure quality of downward-development in deep x-ray lithography. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 692-696.	1.5	26
49	Point-of-Care Devices Using Disease Biomarkers To Diagnose Neurodegenerative Disorders. <i>Trends in Biotechnology</i> , 2018, 36, 290-303.	4.9	26
50	Transdermal drug delivery systems for fighting common viral infectious diseases. <i>Drug Delivery and Translational Research</i> , 2021, 11, 1498-1508.	3.0	26
51	Paper-based immunoaffinity devices for accessible isolation and characterization of extracellular vesicles. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 849-856.	1.0	25
52	Paper-based diagnostic devices for evaluating the quality of human sperm. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 857-867.	1.0	25
53	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
54	Hydrophilic films: How hydrophilicity affects blood compatibility and cellular compatibility. <i>Advances in Polymer Technology</i> , 2018, 37, 1635-1642.	0.8	24

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55	Probing Relevant Molecules in Modulating the Neurite Outgrowth of Hippocampal Neurons on Substrates of Different Stiffness. <i>PLoS ONE</i> , 2013, 8, e83394.	1.1	24
56	Synthetic Biology-Based Point-of-Care Diagnostics for Infectious Disease. <i>Cell Chemical Biology</i> , 2016, 23, 1056-1066.	2.5	23
57	Evaluation of Transplacental Antibody Transfer in SARS-CoV-2-Immunized Pregnant Women. <i>Vaccines</i> , 2022, 10, 101.	2.1	23
58	Localized neurite outgrowth sensing via substrates with alternative rigidities. <i>Soft Matter</i> , 2011, 7, 9871.	1.2	22
59	Analogy among microfluidics, micromechanics, and microelectronics. <i>Lab on A Chip</i> , 2013, 13, 3782.	3.1	22
60	Paper-based Devices for Isolation and Characterization of Extracellular Vesicles. <i>Journal of Visualized Experiments</i> , 2015, , e52722.	0.2	22
61	Vaginal pH Value for Clinical Diagnosis and Treatment of Common Vaginitis. <i>Diagnostics</i> , 2021, 11, 1996.	1.3	22
62	Relationship between Porcine Sperm Motility and Sperm Enzymatic Activity using Paper-based Devices. <i>Scientific Reports</i> , 2017, 7, 46213.	1.6	21
63	Biomarkers during COVID-19: Mechanisms of Change and Implications for Patient Outcomes. <i>Diagnostics</i> , 2022, 12, 509.	1.3	21
64	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
65	Chemically Encapsulated Structural Elements for Probing the Mechanical Responses of Biologically Inspired Systems. <i>Langmuir</i> , 2007, 23, 8129-8134.	1.6	19
66	Thermally tunable polymer microlenses. <i>Applied Physics Letters</i> , 2008, 92, 251904.	1.5	19
67	Micropatterning of mammalian cells on inorganic-based nanosponges. <i>Biomaterials</i> , 2012, 33, 4988-4997.	5.7	19
68	Paper-based CRP Monitoring Devices. <i>Scientific Reports</i> , 2016, 6, 38171.	1.6	19
69	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
70	Experimental investigation of fabrication properties of electroformed Ni-based micro mould inserts. <i>Microelectronic Engineering</i> , 2004, 75, 423-432.	1.1	17
71	Spatiotemporal Response of Living Cell Structures in <i>Dictyostelium discoideum</i> with Semiconductor Quantum Dots. <i>Nano Letters</i> , 2008, 8, 1303-1308.	4.5	16
72	Fabricating small-scale, curved, polymeric structures with convex and concave menisci through interfacial free energy equilibrium. <i>Lab on A Chip</i> , 2009, 9, 3306.	3.1	16

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73	Syndecan-4 Promotes Epithelial Tumor Cells Spreading and Regulates the Turnover of PKC $\zeta$ Activity under Mechanical Stimulation on the Elastomeric Substrates. <i>Cellular Physiology and Biochemistry</i> , 2015, 36, 1291-1304.	1.1	16
74	Paper-based diagnostic devices for clinical paraquat poisoning diagnosis. <i>Biomicrofluidics</i> , 2016, 10, 034118.	1.2	16
75	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
76	Three-dimensional microfiber devices that mimic physiological environments to probe cell mechanics and signaling. <i>Lab on A Chip</i> , 2012, 12, 1775.	3.1	15
77	Home Sample Self-Collection for COVID-19 Patients. <i>Advanced Biology</i> , 2020, 4, e2000150.	3.0	15
78	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
79	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
80	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
81	Innate Immune Responses of Vaccinees Determine Early Neutralizing Antibody Production After ChAdOx1nCoV-19 Vaccination. <i>Frontiers in Immunology</i> , 2022, 13, 807454.	2.2	13
82	Frontiers of optofluidics in synthetic biology. <i>Lab on A Chip</i> , 2012, 12, 3654.	3.1	12
83	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
84	Portable Device for Quick Detection of Viable Bacteria in Water. <i>Micromachines</i> , 2020, 11, 1079.	1.4	12
85	Small-volume detection: platform developments for clinically-relevant applications. <i>Journal of Nanobiotechnology</i> , 2021, 19, 114.	4.2	12
86	Subfeature patterning of organic and inorganic materials using robotic assembly. <i>Journal of Materials Research</i> , 2007, 22, 1601-1608.	1.2	11
87	$\beta$ -Lapachone induces heart morphogenetic and functional defects by promoting the death of erythrocytes and the endocardium in zebrafish embryos. <i>Journal of Biomedical Science</i> , 2011, 18, 70.	2.6	11
88	Probing neural cell behaviors through micro-/nano-patterned chitosan substrates. <i>Biofabrication</i> , 2015, 7, 045007.	3.7	11
89	Rapid Simultaneous Determination of Paraquat and Creatinine in Human Serum Using a Piece of Paper. <i>Micromachines</i> , 2018, 9, 586.	1.4	11
90	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

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91	Paper-Based Detection Device for Alzheimer's Disease—Detecting $\beta$ -amyloid Peptides ( $1\text{--}42$ ) in Human Plasma. <i>Diagnostics</i> , 2020, 10, 272.	1.3	11
92	Paper-based human neutrophil elastase detection device for clinical wound monitoring. <i>Lab on A Chip</i> , 2020, 20, 2709-2716.	3.1	11
93	Beyond Disease, How Biomedical Engineering Can Improve Global Health. <i>Science Translational Medicine</i> , 2014, 6, 266fs48.	5.8	10
94	Detection of <i>Candida albicans</i> Using a Manufactured Electrochemical Sensor. <i>Micromachines</i> , 2021, 12, 166.	1.4	10
95	Polymeric microlenses for real-time aqueous and nonaqueous organic imaging. <i>Applied Physics Letters</i> , 2006, 88, 053902.	1.5	9
96	Atomic force microscopic observation of surface-supported human erythrocytes. <i>Applied Physics Letters</i> , 2007, 91, 023901.	1.5	9
97	Mechanotransduction in intervertebral discs. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 2351-2360.	1.6	9
98	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
99	Development of a Sampling Collection Device with Diagnostic Procedures. <i>Analytical Chemistry</i> , 2016, 88, 7591-7596.	3.2	9
100	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
101	Turntable Paper-Based Device to Detect <i>Escherichia coli</i> . <i>Micromachines</i> , 2021, 12, 194.	1.4	9
102	A Lateral Flow Immunoassay Coupled with a Spectrum-Based Reader for SARS-CoV-2 Neutralizing Antibody Detection. <i>Vaccines</i> , 2022, 10, 271.	2.1	9
103	Urinary Biomarkers for Detection of Clinical Endometriosis or Adenomyosis. <i>Biomedicines</i> , 2022, 10, 833.	1.4	9
104	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
105	Pigment Epithelium-Derived Factor Peptide Promotes Corneal Nerve Regeneration: An In Vivo and In Vitro Study. , 2021, 62, 23.		8
106	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
107	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
108	Key issues in fabricating microstructures with high aspect ratios by using deep X-ray lithography. <i>Microelectronic Engineering</i> , 2004, 71, 335-342.	1.1	7

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109	Force-Controlled Inorganic Crystallization Lithography. <i>Journal of the American Chemical Society</i> , 2006, 128, 12080-12081.	6.6	7
110	Creating Ordered Small-Scale Biologically-Based Rods through Force-Controlled Stamping. <i>Journal of the American Chemical Society</i> , 2007, 129, 9546-9547.	6.6	7
111	Evaluating organophosphate poisoning in human serum with paper. <i>Talanta</i> , 2015, 144, 189-195.	2.9	7
112	Reprint of 'Evaluating organophosphate poisoning in human serum with paper'. <i>Talanta</i> , 2015, 145, 66-72.	2.9	7
113	The effect of bone inhibitors on periosteum-guided cartilage regeneration. <i>Scientific Reports</i> , 2020, 10, 8372.	1.6	7
114	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
115	Refractive Changes Following Premature Posterior Capsulotomy Using Neodymium:Yttrium-Aluminum-Garnet Laser. <i>Journal of Personalized Medicine</i> , 2022, 12, 272.	1.1	7
116	An Assessment of Cataract Severity Based on Antioxidant Status and Ascorbic Acid Levels in Aqueous Humor. <i>Antioxidants</i> , 2022, 11, 397.	2.2	7
117	Paper-Based Devices for Capturing Exosomes and Exosomal Nucleic Acids From Biological Samples. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 836082.	2.0	7
118	Controlling the mechanics and nanotopography of biocompatible scaffolds through dielectrophoresis with carbon nanotubes. <i>Electrophoresis</i> , 2008, 29, 3123-3127.	1.3	6
119	Creating cellular and molecular patterns via gravitational force with liquid droplets. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	6
120	Dynamics of individual polymers using microfluidic based microcurvilinear flow. <i>Lab on A Chip</i> , 2009, 9, 2339.	3.1	6
121	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
122	Small-volume point-of-care analytical methods. <i>Scientific Reports</i> , 2020, 10, 14230.	1.6	6
123	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
124	Probing characteristics of collagen molecules on various surfaces via atomic force microscopy. <i>Applied Physics Letters</i> , 2012, 100, 233703.	1.5	5
125	Probing cellular behaviors through nanopatterned chitosan membranes. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 044406.	2.8	5
126	Cellular force signal integration through vector logic gates. <i>Journal of Biomechanics</i> , 2015, 48, 613-620.	0.9	5



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127	Urinalysis Using a Diaper-Based Testing Device. <i>Biosensors</i> , 2020, 10, 94.	2.3	5
128	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
129	Optical fabrication of three-dimensional polymeric microstructures. <i>Applied Physics Letters</i> , 2005, 87, 164104.	1.5	4
130	Modulating material interfaces through biologically-inspired intermediates. <i>Applied Physics Letters</i> , 2011, 99, 233701.	1.5	4
131	Integrated Circuit-Based Biofabrication with Common Biomaterials for Probing Cellular Biomechanics. <i>Trends in Biotechnology</i> , 2016, 34, 171-186.	4.9	4
132	A Simple Imaging Device for Fluorescence-Relevant Applications. <i>Micromachines</i> , 2018, 9, 418.	1.4	4
133	Paper-Based Resazurin Assay of Inhibitor-Treated Porcine Sperm. <i>Micromachines</i> , 2019, 10, 495.	1.4	4
134	Two Potential Clinical Applications of Origami-Based Paper Devices. <i>Diagnostics</i> , 2019, 9, 203.	1.3	4
135	Accelerated corneal endothelial cell loss in two patients with granulomatosis with polyangiitis following phacoemulsification. <i>BMC Ophthalmology</i> , 2020, 20, 480.	0.6	4
136	Potential next-generation medications for self-administered platforms. <i>Journal of Controlled Release</i> , 2022, 342, 26-30.	4.8	4
137	Interleukin-6 Test Strip Combined With a Spectrum-Based Optical Reader for Early Recognition of COVID-19 Patients With Risk of Respiratory Failure. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 796996.	2.0	4
138	Nanopost-Guided Self-Organization of Dendritic Inorganic Salt Structures. <i>Langmuir</i> , 2014, 30, 10940-10949.	1.6	3
139	In-Vitro Diagnostic Devices. , 2016, , .		3
140	Lysophosphatidic acid improves corneal endothelial density in tissue culture by stimulating stromal secretion of interleukin-1 $\beta$ . <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 6596-6608.	1.6	3
141	Clinical Evaluation of a Self-Testing Kit for Vaginal Infection Diagnosis. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-6.	1.1	3
142	Development of a Tetrazolium-Derived Paper-Based Diagnostic Device as an Early, Alternative Bacteria Screening Tool. <i>Micromachines</i> , 2022, 13, 44.	1.4	3
143	Experimental Determination of Mechanical Properties of Electroformed Ni-Fe Microstructures. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 5480-5481.	0.8	2
144	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

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145	Low-cost In Vitro Diagnostic Technologies. , 2016, , 59-91.		2
146	Integration of Mobile Devices and Point-Of-Care Diagnostic Devicesâ€”The Case of C-Reactive Protein Diagnosis. Diagnostics, 2019, 9, 181.	1.3	2
147	Paper-Based ELISA: A Novel Diagnostic Approach for Monitoring Aqueous Humour VEGF Level in Ocular Diseases. , 0, , .		2
148	Bioengineering of Human Corneal Endothelial Cells from Single- to Four-Dimensional Cultures. Current Ophthalmology Reports, 2020, 8, 172-184.	0.5	2
149	How Smart Manufacturing Can Help Combat the COVID-19 Pandemic. Diagnostics, 2021, 11, 885.	1.3	2
150	Corneal Endothelial Changes Following Early Capsulotomy Using Neodymium:Yttriumâ€”Aluminumâ€”Garnet Laser. Diagnostics, 2022, 12, 150.	1.3	2
151	Dual-cell culture system with identical culture environment for comparison of anti-cancer drug toxicity. Chemical Engineering Science, 2022, 253, 117555.	1.9	2
152	Detection of Microorganisms in Body Fluids via MTT-PMS Assay. Diagnostics, 2022, 12, 46.	1.3	2
153	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
154	Improving Spin-Coating Process Using Altered Cover Design. Japanese Journal of Applied Physics, 2004, 43, 8028-8029.	0.8	1
155	Maskless fabrication of small-scale structures through controlling phase interactions. Applied Physics A: Materials Science and Processing, 2011, 102, 185-188.	1.1	1
156	Probing the dynamic responses of individual actin filaments under fluidic mechanical stimulation via microfluidics. Applied Physics Letters, 2013, 102, 193704.	1.5	1
157	Nanomaterials and nanofabrication for biomedical applications. Science and Technology of Advanced Materials, 2013, 14, 040301.	2.8	1
158	Cell cytoskeletal conformation under reversible thermal control. Applied Physics Letters, 2013, 103, 253701.	1.5	1
159	High-throughput physically based approach for mammalian cell encapsulation. Applied Physics Letters, 2013, 103, 153704.	1.5	1
160	Fabricating millimeter-scale polymeric structures for biomedical applications via a combination of UV-activated materials and daily-use tools. RSC Advances, 2014, 4, 12538-12544.	1.7	1
161	Design, application, and integration of paper-based sensors with the Internet of Things. , 2019, , 13-26.		1
162	Urinalysis for diaper-wearing elderly people using a combination of cotton-based diagnostic devices and smartphone-based image analysis. Health Technology, 2019, 3, 8-8.	0.0	1

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163	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
164	Potential Trends of Point-of-Care Diagnostics—The Next Generation of the Laboratory Diagnosis. <i>Diagnostics</i> , 2020, 10, 774.	1.3	1
165	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
166	Paper-Based Interleukin-6 Test Strip for Early Detection of Wound Infection. <i>Biomedicines</i> , 2022, 10, 1585.	1.4	1
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