D Lansing Taylor

List of Publications by Year
in descending order

197	13,197	15466 65	25716 108
papers	citations	h-index	g-index

207	207	207	11297
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hindered diffusion of inert tracer particles in the cytoplasm of mouse 3T3 cells.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 4910-4913.	3.3	370
2	Enhancement of axial resolution in fluorescence microscopy by standing-wave excitation. Nature, 1993, 366, 44-48.	13.7	332
3	Cytoplasmic Structure and Contractility in Amoeboid Cells. International Review of Cytology, 1979, 56, 57-144.	6.2	321
4	Probing the structure of cytoplasm.. Journal of Cell Biology, 1986, 102, 2015-2022.	2.3	312
5	A method for incorporating macromolecules into adherent cells.. Journal of Cell Biology, 1984, 98, 1556-1564.	2.3	296
6	Traction forces of cytokinesis measured with optically modified elastic substrata. Nature, 1997, 385, 450-454.	13.7	294
7	Fluorescence ratio imaging microscopy: temporal and spatial measurements of cytoplasmic pH. Journal of Cell Biology, 1987, 104, 1019-1033.	2.3	288
8	High content screening applied to large-scale cell biology. Trends in Biotechnology, 2004, 22, 15-22.	4.9	285
9	The Actin-Based Nanomachine at the Leading Edge of Migrating Cells. Biophysical Journal, 1999, 77, 1721-1732.	0.2	248
10	Spectrin plus band 4.1 cross-link actin. Regulation by micromolar calcium.. Journal of Cell Biology, 1980, 85, 361-376.	2.3	216
11	High-Content Screening: A New Approach to Easing Key Bottlenecks in the Drug Discovery Process. Journal of Biomolecular Screening, 1997, 2, 249-259.	2.6	208
12	The contractile basis of amoeboid movement: V. The control of gelation, solation, and contraction in extracts from dictyostelium discoideum. Journal of Cell Biology, 1977, 74, 901-927.	2.3	200
13	Fluorescently labelled molecules as probes of the structure and function of living cells. Nature, 1980, 284, 405-410.	13.7	197
14	Functional Coupling of Human Microphysiology Systems: Intestine, Liver, Kidney Proximal Tubule, Blood-Brain Barrier and Skeletal Muscle. Scientific Reports, 2017, 7, 42296.	1.6	193
15	THE CONTRACTILE BASIS OF AMOEBOID MOVEMENT. Journal of Cell Biology, 1973, 59, 378-394.	2.3	187
16	A human liver microphysiology platform for investigating physiology, drug safety, and disease models. Experimental Biology and Medicine, 2016, 241, 101-114.	1.1	185
17	Advances in High Content Screening for Drug Discovery. Assay and Drug Development Technologies, 2003, 1, 565-577.	0.6	182
18	Patterns of elevated free calcium and calmodulin activation in living cells. Nature, 1992, 359, 736-738.	13.7	171

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19	Keratocytes Generate Traction Forces in Two Phases. Molecular Biology of the Cell, 1999, 10, 3745-3769.	0.9	171
20	Liver â€˜organ on a chipâ€™. Experimental Cell Research, 2018, 363, 15-25.	1.2	165
21	Topographical and Physicochemical Modification of Material Surface to Enable Patterning of Living Cells. Critical Reviews in Biotechnology, 2001, 21, 111-154.	5.1	163
22	The contractile basis of ameboid movement. VI. The solation-contraction coupling hypothesis.. Journal of Cell Biology, 1979, 83, 633-648.	2.3	158
23	Fluorescent-protein biosensors: New tools for drug discovery. Trends in Biotechnology, 1998, 16, 135-140.	4.9	148
24	Molecular cytochemistry: incorporation of fluorescently labeled actin into living cells.. Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 857-861.	3.3	147
25	Chapter 6 Fluorescence Ratio Imaging Microscopy. Methods in Cell Biology, 1989, 30, 157-192.	0.5	146
26	InÂvitro platforms for evaluating liver toxicity. Experimental Biology and Medicine, 2014, 239, 1180-1191.	1.1	145
27	Relative distribution of actin, myosin I, and myosin II during the wound healing response of fibroblasts.. Journal of Cell Biology, 1993, 120, 1381-1391.	2.3	143
28	The Submicroscopic Properties of Cytoplasm as a Determinant of Cellular Function. Annual Review of Biophysics and Biophysical Chemistry, 1988, 17, 369-396.	12.2	142
29	Structural organization of interphase 3T3 fibroblasts studied by total internal reflection fluorescence microscopy.. Journal of Cell Biology, 1985, 100, 1091-1102.	2.3	141
30	Myosin II transport, organization, and phosphorylation: evidence for cortical flow/solation-contraction coupling during cytokinesis and cell locomotion.. Molecular Biology of the Cell, 1996, 7, 1259-1282.	0.9	132
31	Microspectrofluorometry by digital image processing: measurement of cytoplasmic pH.. Journal of Cell Biology, 1984, 98, 717-724.	2.3	130
32	Real-time molecular and cellular analysis: the new frontier of drug discovery. Current Opinion in Biotechnology, 2001, 12, 75-81.	3.3	130
33	Contractile basis of ameboid movement. VII. Aequorin luminescence during ameboid movement, endocytosis, and capping.. Journal of Cell Biology, 1980, 86, 599-607.	2.3	129
34	Detection of actin assembly by fluorescence energy transfer.. Journal of Cell Biology, 1981, 89, 362-367.	2.3	129
35	Five-parameter fluorescence imaging: wound healing of living Swiss 3T3 cells.. Journal of Cell Biology, 1987, 105, 1613-1622.	2.3	129
36	Aldolase exists in both the fluid and solid phases of cytoplasm [published erratum appears in J Cell Biol 1988 Dec;107(6 Pt 1):following 2463]. Journal of Cell Biology, 1988, 107, 981-991.	2.3	124

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37	Defective HNF4alpha-dependent gene expression as a driver of hepatocellular failure in alcoholic hepatitis. Nature Communications, 2019, 10, 3126.	5.8	124
38	A transient rise in cytosolic calcium follows stimulation of quiescent cells with growth factors and is inhibitable with phorbol myristate acetate.. Journal of Cell Biology, 1985, 101, 372-379.	2.3	121
39	Distribution of fluorescently labeled actin in living sea urchin eggs during early development.. Journal of Cell Biology, 1979, 81, 672-679.	2.3	117
40	Distribution of actin in spreading macrophages: a comparative study on living and fixed cells. Journal of Cell Biology, 1983, 96, 750-761.	2.3	117
41	Cytoplasmic structure and contractility: the solation-contraction coupling hypothesis. Philosophical Transactions of the Royal Society of London Series B, Biological Sciences, 1982, 299, 185-197.	2.4	114
42	Centripetal transport of cytoplasm, actin, and the cell surface in lamellipodia of fibroblasts. Cytoskeleton, 1988, 11, 235-247.	4.4	111
43	Control of oxygen tension recapitulates zone-specific functions in human liver microphysiology systems. Experimental Biology and Medicine, 2017, 242, 1617-1632.	1.1	109
44	Modulation of contraction by gelation/solation in a reconstituted motile model.. Journal of Cell Biology, 1991, 114, 1005-1015.	2.3	108
45	Fluorescence anisotropy imaging microscopy maps calmodulin binding during cellular contraction and locomotion.. Journal of Cell Biology, 1993, 121, 1095-1107.	2.3	103
46	Fluorescent Protein Biosensors: Measurement of Molecular Dynamics in Living Cells. Annual Review of Biophysics and Biomolecular Structure, 1995, 24, 405-434.	18.3	103
47	The dynamic distribution of fluorescent analogues of actin and myosin in protrusions at the leading edge of migrating Swiss 3T3 fibroblasts.. Journal of Cell Biology, 1988, 107, 2631-2645.	2.3	99
48	A glass-based, continuously zonated and vascularized human liver acinus microphysiological system (vLAMPS) designed for experimental modeling of diseases and ADME/TOX. Lab on A Chip, 2018, 18, 2614-2631.	3.1	99
49	A membrane cytoskeleton from Dictyostelium discoideum. I. Identification and partial characterization of an actin-binding activity.. Journal of Cell Biology, 1981, 88, 396-409.	2.3	98
50	Mobility of cytoplasmic and membrane-associated actin in living cells.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 4660-4664.	3.3	97
51	Contractile basis of ameboid movement. VII. The distribution of fluorescently labeled actin in living amebas.. Journal of Cell Biology, 1980, 86, 590-598.	2.3	96
52	The role of solation-contraction coupling in regulating stress fiber dynamics in nonmuscle cells.. Journal of Cell Biology, 1991, 114, 993-1003.	2.3	83
53	Preparation and characterization of a new molecular cytochemical probe: 5-iodoacetamidofluorescein-labeled actin.. Journal of Histochemistry and Cytochemistry, 1980, 28, 1198-1206.	1.3	77
54	Liver metastases: Microenvironments andex-vivomodels. Experimental Biology and Medicine, 2016, 241, 1639-1652.	1.1	77

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55	Multimode Light Microscopy and the Dynamics of Molecules, Cells, and Tissues. Annual Review of Physiology, 1993, 55, 785-817.	5.6	75
56	Gradients in the concentration and assembly of myosin II in living fibroblasts during locomotion and fiber transport.. Molecular Biology of the Cell, 1993, 4, 819-836.	0.9	72
57	Fc-receptor-mediated phagocytosis occurs in macrophages without an increase in average [Ca++]i.. Journal of Cell Biology, 1986, 102, 1586-1592.	2.3	71
58	The contractile basis of ameboid movement. II. Structure and contractility of motile extracts and plasmalemma-ectoplasm ghosts.. Journal of Cell Biology, 1976, 70, 123-143.	2.3	70
59	In vitro models of tail contraction and cytoplasmic streaming in amoeboid cells.. Journal of Cell Biology, 1993, 123, 345-356.	2.3	70
60	Acidification of phagosomes is initiated before lysosomal enzyme activity is detected.. Journal of Cell Biology, 1983, 97, 692-702.	2.3	69
61	Isolation and characterization of a 30,000-dalton calcium-sensitive actin cross-linking protein from Dictyostelium discoideum.. Journal of Biological Chemistry, 1984, 259, 4514-4520.	1.6	69
62	Formation, transport, contraction, and disassembly of stress fibers in fibroblasts. Cytoskeleton, 1990, 16, 14-21.	4.4	68
63	Intracellular pH in single motile cells.. Journal of Cell Biology, 1980, 86, 885-890.	2.3	67
64	2-Deoxyglucose and cytochalasin D modulate aldolase mobility in living 3T3 cells.. Journal of Cell Biology, 1992, 118, 859-863.	2.3	67
65	Pre-clinical and clinical investigations of metabolic zonation in liver diseases: The potential of microphysiology systems. Experimental Biology and Medicine, 2017, 242, 1605-1616.	1.1	66
66	Title is missing!. Biomedical Microdevices, 1999, 2, 99-109.	1.4	65
67	Biologically Relevant Heterogeneity: Metrics and Practical Insights. SLAS Discovery, 2017, 22, 213-237.	1.4	65
68	Fluorescence photobleaching recovery in solutions of labeled actin. Biophysical Journal, 1981, 35, 351-364.	0.2	64
69	A calcium- and pH-regulated actin binding protein from D. discoideum. Cell Motility, 1982, 2, 287-308.	1.9	64
70	Probing the mechanism of incorporation of fluorescently labeled actin into stress fibers.. Journal of Cell Biology, 1986, 102, 1074-1084.	2.3	63
71	Behavior of a fluorescent analogue of calmodulin in living 3T3 cells.. Journal of Cell Biology, 1985, 101, 1245-1256.	2.3	62
72	High-Content Screening with siRNA Optimizes a Cell Biological Approach to Drug Discovery: Defining the Role of P53 Activation in the Cellular Response to Anticancer Drugs. Journal of Biomolecular Screening, 2004, 9, 557-568.	2.6	62

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73	Abundance, relative gelation activity, and distribution of the 95,000-dalton actin-binding protein from Dictyostelium discoideum.. Journal of Cell Biology, 1983, 97, 178-185.	2.3	61
74	A fluorescent protein biosensor of myosin II regulatory light chain phosphorylation reports a gradient of phosphorylated myosin II in migrating cells.. Molecular Biology of the Cell, 1995, 6, 1755-1768.	0.9	59
75	Imaging cytometry by multiparameter fluorescence. Cytometry, 1991, 12, 579-596.	1.8	58
76	Subcellular compartmentalization by local differentiation of cytoplasmic structure. Cytoskeleton, 1988, 10, 28-37.	4.4	57
77	Correlated distribution of actin, myosin, and microtubules at the leading edge of migrating swiss 3T3 fibroblasts. Cytoskeleton, 1989, 14, 527-543.	4.4	57
78	Chapter 13 Basic Fluorescence Microscopy. Methods in Cell Biology, 1988, 29, 207-237.	0.5	56
79	Towards a three-dimensional microfluidic liver platform for predicting drug efficacy and toxicity in humans. Stem Cell Research and Therapy, 2013, 4, S16.	2.4	54
80	Human biomimetic liver microphysiology systems in drug development and precision medicine. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 252-268.	8.2	54
81	Myosin II phosphorylation and the dynamics of stress fibers in serum-deprived and stimulated fibroblasts.. Molecular Biology of the Cell, 1992, 3, 1037-1048.	0.9	52
82	Measurement of cytoplasmic pH in Dictyostelium discoideum by using a new method for introducing macromolecules into living cells. European Journal of Cell Biology, 1986, 40, 242-7.	1.6	52
83	Fluorescent actin analogs with a high affinity for profilin in vitro exhibit an enhanced gradient of assembly in living cells. Journal of Cell Biology, 1994, 124, 971-983.	2.3	51
84	Probing the dynamic equilibrium of actin polymerization by fluorescence energy transfer. Cell, 1981, 27, 429-436.	13.5	50
85	Identifying and Quantifying Heterogeneity in High Content Analysis: Application of Heterogeneity Indices to Drug Discovery. PLoS ONE, 2014, 9, e102678.	1.1	50
86	Heterogeneity of the changes in cytoplasmic pH upon serum stimulation of quiescent fibroblasts. Journal of Cellular Physiology, 1989, 141, 410-419.	2.0	49
87	pH changes in pinosomes and phagosomes in the ameba, Chaos carolinensis.. Journal of Cell Biology, 1982, 94, 143-149.	2.3	48
88	Internet-Based Image Analysis Quantifies Contractile Behavior of Individual Fibroblasts inside Model Tissue. Biophysical Journal, 2003, 84, 2715-2727.	0.2	48
89	Past, Present, and Future of High Content Screening and the Field of Cellomics. , 2007, 356, 3-18.		48
90	Isolation and characterization of a 30,000-dalton calcium-sensitive actin cross-linking protein from Dictyostelium discoideum. Journal of Biological Chemistry, 1984, 259, 4514-20.	1.6	48

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91	Spectrin promotes the association of F-actin with the cytoplasmic surface of the human erythrocyte membrane. Journal of Cell Biology, 1981, 88, 388-395.	2.3	47
92	DETERMINATION OF THE POLARIZATION OPTICAL PROPERTIES OF THE AMYLOID-CONGO RED COMPLEX BY PHASE MODULATION MICROSPECTROPHOTOMETRY. Journal of Histochemistry and Cytochemistry, 1974, 22, 1105-1112.	1.3	46
93	Actin-binding proteins regulate the work performed by myosin II motors on single actin filaments. Cytoskeleton, 1992, 22, 274-280.	4.4	46
94	A Perspective on Implementing a Quantitative Systems Pharmacology Platform for Drug Discovery and the Advancement of Personalized Medicine. Journal of Biomolecular Screening, 2016, 21, 521-534.	2.6	46
95	Explainable AI (xAI) for Anatomic Pathology. Advances in Anatomic Pathology, 2020, 27, 241-250.	2.4	46
96	Image Intensification Applied to Light Microscopy. BioScience, 1980, 30, 586-592.	2.2	45
97	A Tissue Systems Pathology Assay for High-Risk Barrett's Esophagus. Cancer Epidemiology Biomarkers and Prevention, 2016, 25, 958-968.	1.1	45
98	Improving natural product research translation: From source to clinical trial. FASEB Journal, 2020, 34, 41-65.	0.2	45
99	The contractile basis of amoeboid movement *1IV. The viscoelasticity and contractility of amoeba cytoplasm in vivo. Experimental Cell Research, 1977, 105, 413-426.	1.2	44
100	Measurement and manipulation of cytoskeletal dynamics in living cells. Current Opinion in Cell Biology, 1995, 7, 4-12.	2.6	44
101	Systems Cell Biology Based on Highâ€Content Screening. Methods in Enzymology, 2006, 414, 601-619.	0.4	44
102	A calcium-sensitive fluorescent analog of calmodulin based on a novel calmodulin-binding fluorophore. Journal of Biological Chemistry, 1990, 265, 20335-20345.	1.6	41
103	Aequorin entrapment in mammalian cells. Cell Calcium, 1985, 6, 83-93.	1.1	40
104	Systems Cell Biology Knowledge Created from High Content Screening. Assay and Drug Development Technologies, 2005, 3, 501-514.	0.6	39
105	Analysis of rhodamine and fluorescein-labeled F-actin diffusion in vitro by fluorescence photobleaching recovery. Biophysical Journal, 1988, 54, 801-815.	0.2	38
106	Multiplexed high content screening assays create a systems cell biology approach to drug discovery. Drug Discovery Today: Technologies, 2005, 2, 149-154.	4.0	37
107	A Personal Perspective on High-Content Screening (HCS): From the Beginning. Journal of Biomolecular Screening, 2010, 15, 720-725.	2.6	37
108	A genetically engineered, protein-based optical biosensor of myosin II regulatory light chain phosphorylation. Journal of Biological Chemistry, 1994, 269, 12880-7.	1.6	34

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109	Evolution of Experimental Models of the Liver to Predict Human Drug Hepatotoxicity and Efficacy. Clinics in Liver Disease, 2017, 21, 197-214.	1.0	33
110	Chapter 1 luorescent Analog Cytochemistry of Contractile Proteins. Methods in Cell Biology, 1982, 25, 1-11.	0.5	32
111	Paths to Successful Translation of New Therapies for Severe Traumatic Brain Injury in the Golden Age of Traumatic Brain Injury Research: A Pittsburgh Vision. Journal of Neurotrauma, 2020, 37, 2353-2371.	1.7	31
112	The mechanochemical basis of amoeboid movement. Experimental Cell Research, 1976, 101, 127-133.	1.2	29
113	Fluorescent protein biosensors applied to microphysiological systems. Experimental Biology and Medicine, 2015, 240, 795-808.	1.1	29
114	TissueCypherâ„¢: A systems biology approach to anatomic pathology. Journal of Pathology Informatics, 2015, 6, 48.	0.8	29
115	Early Safety Assessment Using Cellular Systems Biology Yields Insights into Mechanisms of Action. Journal of Biomolecular Screening, 2010, 15, 783-797.	2.6	28
116	BalestraWeb: efficient online evaluation of drugâ€“target interactions. Bioinformatics, 2015, 31, 131-133.	1.8	28
117	The Microphysiology Systems Database for Analyzing and Modeling Compound Interactions with Human and Animal Organ Models. Applied in Vitro Toxicology, 2016, 2, 103-117.	0.6	27
118	A calcium-sensitive fluorescent analog of calmodulin based on a novel calmodulin-binding fluorophore. Journal of Biological Chemistry, 1990, 265, 20335-45.	1.6	27
119	Characterization and Optimization of a Novel Proteinâ€“Protein Interaction Biosensor High-Content Screening Assay to Identify Disruptors of the Interactions Between p53 and hDM2. Assay and Drug Development Technologies, 2010, 8, 437-458.	0.6	26
120	Potential of Machine-Vision Light Microscopy in Toxicologic Pathology. Toxicologic Pathology, 1994, 22, 145-159.	0.9	25
121	Applications of the microphysiology systems database for experimental ADME-Tox and disease models. Lab on A Chip, 2020, 20, 1472-1492.	3.1	25
122	Spatial domain analysis predicts risk of colorectal cancer recurrence and infers associated tumor microenvironment networks. Nature Communications, 2020, 11, 3515.	5.8	24
123	Analysis of reproducibility and robustness of a human microfluidic four-cell liver acinus microphysiology system (LAMPS). Toxicology, 2021, 448, 152651.	2.0	24
124	The mechanochemical basis of amoeboid movement. Experimental Cell Research, 1976, 101, 134-142.	1.2	23
125	Exchange of 1,N6-etheno-ATP with actin-bound nucleotides as a tool for studying the steady-state exchange of subunits in F-actin solutions.. Proceedings of the National Academy of Sciences of the United States of America, 1981, 78, 5503-5507.	3.3	23
126	Organs-on-Chips as Bridges for Predictive Toxicology. Applied in Vitro Toxicology, 2016, 2, 97-102.	0.6	23

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127	QuartataWeb: Integrated Chemicalâ€“Protein-Pathway Mapping for Polypharmacology and Chemogenomics. Bioinformatics, 2020, 36, 3935-3937.	1.8	23
128	The molecular mobility of ?-actinin and actin in a reconstituted model of gelation. Cytoskeleton, 1988, 11, 64-82.	4.4	22
129	Proteomic Screening and Lasso Regression Reveal Differential Signaling in Insulin and Insulin-like Growth Factor I (IGF1) Pathways. Molecular and Cellular Proteomics, 2016, 15, 3045-3057.	2.5	22
130	Connecting Neuronal Cell Protective Pathways and Drug Combinations in a Huntingtonâ€™s Disease Model through the Application of Quantitative Systems Pharmacology. Scientific Reports, 2017, 7, 17803.	1.6	22
131	A systemsâ€level study reveals hostâ€targeted repurposable drugs against SARSâ€CoVâ€2 infection. Molecular Systems Biology, 2021, 17, e10239.	3.2	22
132	A stable, high capacity, F-actin affinity column.. Journal of Biological Chemistry, 1982, 257, 13095-13100.	1.6	22
133	Biomanufacturing in low Earth orbit for regenerative medicine. Stem Cell Reports, 2022, 17, 1-13.	2.3	22
134	A comparison of methods used to characterize gelation of actin in vitro. Cell Motility, 1984, 4, 197-213.	1.9	21
135	Cellular and Molecular Aspects of Amoeboid Movement. Cold Spring Harbor Symposia on Quantitative Biology, 1982, 46, 101-111.	2.0	21
136	[47] Preparation of a fluorescent analog: Acetamidofluoresceinyl-labeled Dictyostelium discoideum Î±-actinin. Methods in Enzymology, 1986, 134, 487-507.	0.4	20
137	Antigen Presentation and Cytotoxic T Lymphocyte Killing Studied in Individual, Living Cells. Virology, 1994, 201, 330-340.	1.1	20
138	Spatial Statistics for Segmenting Histological Structures in H&E Stained Tissue Images. IEEE Transactions on Medical Imaging, 2017, 36, 1522-1532.	5.4	20
139	Clinically Observed Estrogen Receptor Alpha Mutations within the Ligand-Binding Domain Confer Distinguishable Phenotypes. Oncology, 2018, 94, 176-189.	0.9	20
140	Effects of villin on the polymerization and subunit exchange of actin. Cell Motility, 1983, 3, 151-165.	1.9	19
141	Chapter 9 Introduction of Exogenous Molecules into the Cytoplasm of Dictyostelium discoideum Amoebae by Controlled Sonication. Methods in Cell Biology, 1987, 28, 179-190.	0.5	19
142	Platform for Quantitative Evaluation of Spatial Intratumoral Heterogeneity in Multiplexed Fluorescence Images. Cancer Research, 2017, 77, e71-e74.	0.4	19
143	A stable, high capacity, F-actin affinity column. Journal of Biological Chemistry, 1982, 257, 13095-100.	1.6	19
144	Birefringence changes in vertebrate striated muscle. Journal of Supramolecular Structure, 1975, 3, 181-191.	2.3	18

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145	Pointwise mutual information quantifies intratumor heterogeneity in tissue sections labeled with multiple fluorescent biomarkers. Journal of Pathology Informatics, 2016, 7, 47.	0.8	18
146	A method for the morphological identification of contractile filaments in single cells. Experimental Cell Research, 1973, 80, 493-495.	1.2	17
147	Fluorescent analog cytochemistry of contractile proteins. Methods in Cell Biology, 1982, 25 Pt B, 1-11.	0.5	16
148	Modeling the Effect of the Metastatic Microenvironment on Phenotypes Conferred by Estrogen Receptor Mutations Using a Human Liver Microphysiological System. Scientific Reports, 2019, 9, 8341.	1.6	15
149	Multiple spectral parameter imaging in quantitative fluorescence microscopy. I: Quantitativn of bead standards. Computerized Medical Imaging and Graphics, 1989, 13, 47-60.	3.5	14
150	Applications of Cellular Systems Biology in Breast Cancer Patient Stratification and Diagnostics. Combinatorial Chemistry and High Throughput Screening, 2009, 12, 860-869.	0.6	14
151	A metric and workflow for quality control in the analysis of heterogeneity in phenotypic profiles and screens. Methods, 2016, 96, 12-26.	1.9	14
152	Harnessing Human Microphysiology Systems as Key Experimental Models for Quantitative Systems Pharmacology. Handbook of Experimental Pharmacology, 2019, 260, 327-367.	0.9	14
153	<title>Three-dimensional imaging of biological specimens with standing wave fluorescence microscopy</title>. , 1994, , .		13
154	Automated Light Microscopy for the Study of the Brain: Cellular and Molecular Dynamics, Development, and Tumorigenesis. Annals of the New York Academy of Sciences, 1997, 820, 208-228.	1.8	13
155	Opportunities and Challenges in Implementation of Multiparameter Single Cell Analysis Platforms for Clinical Translation. Clinical and Translational Science, 2018, 11, 267-276.	1.5	13
156	High-throughput profiling of tissue and tissue model microarrays: Combined transmitted light and 3-color fluorescence digital pathology. Journal of Pathology Informatics, 2011, 2, 50.	0.8	13
157	Selective immunocytochemical detection of fluorescent analogs with antibodies specific for the fluorophore. Cell Motility, 1984, 4, 137-149.	1.9	11
158	Reagents to Measure and Manipulate Cell Functions. , 2007, 356, 141-164.		10
159	Targeting NAD+ Biosynthesis Overcomes Panobinostat and Bortezomib-Induced Malignant Glioma Resistance. Molecular Cancer Research, 2020, 18, 1004-1017.	1.5	10
160	High-Content Analysis with Cellular and Tissue Systems Biology. , 2015, , 369-392.e7.		9
161	Actin-crosslinking protein regulation of filament movement in motility assays: a theoretical model. Biophysical Journal, 1994, 67, 973-982.	0.2	8
162	Quantitation of cytoskeletal fibers in fluorescence images: Stress fiber disassembly accompanies dephosphorylation of the regulatory light chains of myosin II. Bioimaging, 1993, 1, 136-150.	1.8	8

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163	<title>Automated interactive microscopy: measuring and manipulating the chemical and molecular dynamics of cells and tissues</title>. , 1996, , .		7
164	Enolase exists in the fluid phase of cytoplasm in 3T3 cells. Journal of Cell Science, 1989, 94 (Pt 2), 333-42.	1.2	6
165	Evaluation of algorithms for ratio imaging in fluorescence microscopy. Cytometry, 1989, 10, 357-374.	1.8	5
166	From in vitro to in vivo by dynamic multiwavelength imaging. , 1995, , .		5
167	[1] Light-optical-based reagents for the measurement and manipulation of ions, metabolites, and macromolecules in living cells. Methods in Neurosciences, 1995, , 1-16.	0.5	5
168	Quantifying the progression of non-alcoholic fatty liver disease in human biomimetic liver microphysiology systems with fluorescent protein biosensors. Experimental Biology and Medicine, 2021, 246, 2420-2441.	1.1	5
169	HistoMaprâ„¢: An Explainable AI (xAI) Platform for Computational Pathology Solutions. Lecture Notes in Computer Science, 2020, , 204-227.	1.0	5
170	Histological Detection of High-Risk Benign Breast Lesions from Whole Slide Images. Lecture Notes in Computer Science, 2017, , 144-152.	1.0	5
171	<title>Knowledge-driven image analysis of cell structures</title>. , 1991, , .		5
172	The contractile basis of amoeboid movement III. Structure and dynamics of motile extracts and membrane fragments from Dictyostelium discoideum and Amoeba proteus. Progress in Clinical and Biological Research, 1977, 17, 581-603.	0.2	5
173	A photocross-linking fluorescent indicator of mitochondrial membrane potential.. Journal of Histochemistry and Cytochemistry, 1993, 41, 631-634.	1.3	4
174	[9] Cytomechanics applications of optical sectioning microscopy. Methods in Enzymology, 2003, 361, 175-197.	0.4	4
175	High content screening. , 2005, , .		4
176	Architectural patterns for differential diagnosis of proliferative breast lesions from histopathological images. , 2017, 2017, 152-155.		4
177	Methods for the measurement of polarization optical properties: I. Birefringence. Journal of Microscopy, 1976, 108, 251-259.	0.8	3
178	Multiparameter Fluorescence And Selection Of Optimal Filter Sets: Mathematics And Computer Program.. Proceedings of SPIE, 1989, , .	0.8	3
179	Chapter 11 Regulation of Actin and Myosin II Dynamics in Living Cells. Current Topics in Membranes, 1991, 38, 187-206.	0.5	3
180	A Quantitative Systems Pharmacology Approach to Infer Pathways Involved in Complex Disease Phenotypes. Methods in Molecular Biology, 2018, 1787, 207-222.	0.4	3

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181	Inhibition of RPS6K reveals context-dependent Akt activity in luminal breast cancer cells. PLoS Computational Biology, 2021, 17, e1009125.	1.5	3
182	In situ functional cell phenotyping reveals microdomain networks in colorectal cancer recurrence. Cell Reports Methods, 2021, 1, 100072.	1.4	3
183	Near-field fluorescence imaging of cytoskeletal actin. , 1993, 1, 129.		3
184	Early Cytoplasmic Signals and Cytoskeletal Responses Initiated by Growth Factors in Cultured Cells. , 1987, , 365-405.		3
185	Approaches to the Study of Spatial and Temporal Changes in the Structure and Chemistry of Cells. , 1989, , 297-313.		3
186	A Quantitative Systems Pharmacology Platform Reveals NAFLD Pathophysiological States and Targeting Strategies. Metabolites, 2022, 12, 528.	1.3	3
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