

# Kevin W Eliceiri

## List of Publications by Year in descending order

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Version: 2024-02-01

296  
papers

125,185  
citations

15504

65  
h-index

663

255  
g-index

310  
all docs

310  
docs citations

310  
times ranked

183506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012, 9, 676-682.	19.0	47,818
2	NIH Image to ImageJ: 25 years of image analysis. <i>Nature Methods</i> , 2012, 9, 671-675.	19.0	46,756
3	ImageJ2: ImageJ for the next generation of scientific image data. <i>BMC Bioinformatics</i> , 2017, 18, 529.	2.6	4,464
4	TrackMate: An open and extensible platform for single-particle tracking. <i>Methods</i> , 2017, 115, 80-90.	3.8	2,546
5	The ImageJ ecosystem: An open platform for biomedical image analysis. <i>Molecular Reproduction and Development</i> , 2015, 82, 518-529.	2.0	2,029
6	Trainable Weka Segmentation: a machine learning tool for microscopy pixel classification. <i>Bioinformatics</i> , 2017, 33, 2424-2426.	4.1	1,505
7	Collagen reorganization at the tumor-stromal interface facilitates local invasion. <i>BMC Medicine</i> , 2006, 4, 38.	5.5	1,417
8	Collagen density promotes mammary tumor initiation and progression. <i>BMC Medicine</i> , 2008, 6, 11.	5.5	1,129
9	Aligned Collagen Is a Prognostic Signature for Survival in Human Breast Carcinoma. <i>American Journal of Pathology</i> , 2011, 178, 1221-1232.	3.8	1,026
10	Improved structure, function and compatibility for CellProfiler: modular high-throughput image analysis software. <i>Bioinformatics</i> , 2011, 27, 1179-1180.	4.1	948
11	<i>In vivo</i> multiphoton microscopy of NADH and FAD redox states, fluorescence lifetimes, and cellular morphology in precancerous epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19494-19499.	7.1	898
12	Metadata matters: access to image data in the real world. <i>Journal of Cell Biology</i> , 2010, 189, 777-782.	5.2	858
13	Matrix density-induced mechanoregulation of breast cell phenotype, signaling and gene expression through a FAK-ERK linkage. <i>Oncogene</i> , 2009, 28, 4326-4343.	5.9	557
14	Biological imaging software tools. <i>Nature Methods</i> , 2012, 9, 697-710.	19.0	462
15	Contact Guidance Mediated Three-Dimensional Cell Migration is Regulated by Rho/ROCK-Dependent Matrix Reorganization. <i>Biophysical Journal</i> , 2008, 95, 5374-5384.	0.5	426
16	Beyond the margins: real-time detection of cancer using targeted fluorophores. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 347-364.	27.6	366
17	Metabolic Mapping of MCF10A Human Breast Cells via Multiphoton Fluorescence Lifetime Imaging of the Coenzyme NADH. <i>Cancer Research</i> , 2005, 65, 8766-8773.	0.9	351
18	3D Collagen Alignment Limits Protrusions to Enhance Breast Cancer Cell Persistence. <i>Biophysical Journal</i> , 2014, 107, 2546-2558.	0.5	346

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19	Postpartum mammary gland involution drives progression of ductal carcinoma in situ through collagen and COX-2. <i>Nature Medicine</i> , 2011, 17, 1109-1115.	30.7	318
20	In vivo multiphoton fluorescence lifetime imaging of protein-bound and free nicotinamide adenine dinucleotide in normal and precancerous epithelia. <i>Journal of Biomedical Optics</i> , 2007, 12, 024014.	2.6	317
21	OpenSPIM: an open-access light-sheet microscopy platform. <i>Nature Methods</i> , 2013, 10, 598-599.	19.0	312
22	The collagen receptor discoidin domain receptor 2 stabilizes SNAIL1 to facilitate breast cancer metastasis. <i>Nature Cell Biology</i> , 2013, 15, 677-687.	10.3	312
23	Computational segmentation of collagen fibers from second-harmonic generation images of breast cancer. <i>Journal of Biomedical Optics</i> , 2014, 19, 016007.	2.6	294
24	Dual-stream Multiple Instance Learning Network for Whole Slide Image Classification with Self-supervised Contrastive Learning. , 2021, 2021, 14318-14328.		216
25	Multiphoton Microscopy of Endogenous Fluorescence Differentiates Normal, Precancerous, and Cancerous Squamous Epithelial Tissues. <i>Cancer Research</i> , 2005, 65, 1180-1186.	0.9	214
26	Transition to invasion in breast cancer: a microfluidic in vitro model enables examination of spatial and temporal effects. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 439-450.	1.3	201
27	Non-line-of-sight imaging using a time-gated single photon avalanche diode. <i>Optics Express</i> , 2015, 23, 20997.	3.4	194
28	Multiphoton microscopy and fluorescence lifetime imaging microscopy (FLIM) to monitor metastasis and the tumor microenvironment. <i>Clinical and Experimental Metastasis</i> , 2009, 26, 357-370.	3.3	185
29	Automated quantification of aligned collagen for human breast carcinoma prognosis. <i>Journal of Pathology Informatics</i> , 2014, 5, 28.	1.7	172
30	Lineage Reprogramming of Fibroblasts into Proliferative Induced Cardiac Progenitor Cells by Defined Factors. <i>Cell Stem Cell</i> , 2016, 18, 354-367.	11.1	165
31	Highly aligned stromal collagen is a negative prognostic factor following pancreatic ductal adenocarcinoma resection. <i>Oncotarget</i> , 2016, 7, 76197-76213.	1.8	163
32	Anthocyanin Vacuolar Inclusions Form by a Microautophagy Mechanism. <i>Plant Cell</i> , 2015, 27, 2545-2559.	6.6	153
33	A subset of myofibroblastic cancer-associated fibroblasts regulate collagen fiber elongation, which is prognostic in multiple cancers. <i>Oncotarget</i> , 2016, 7, 6159-6174.	1.8	149
34	Control of 3-dimensional collagen matrix polymerization for reproducible human mammary fibroblast cell culture in microfluidic devices. <i>Biomaterials</i> , 2009, 30, 4833-4841.	11.4	138
35	Neuroendocrine Tumor-Targeted Upconversion Nanoparticle-Based Micelles for Simultaneous NIR-Controlled Combination Chemotherapy and Photodynamic Therapy, and Fluorescence Imaging. <i>Advanced Functional Materials</i> , 2017, 27, 1604671.	14.9	138
36	Mammary Epithelial-Specific Disruption of Focal Adhesion Kinase Retards Tumor Formation and Metastasis in a Transgenic Mouse Model of Human Breast Cancer. <i>American Journal of Pathology</i> , 2008, 173, 1551-1565.	3.8	126

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37	Fluorescence Lifetime Imaging of Endogenous Fluorophores in Histopathology Sections Reveals Differences Between Normal and Tumor Epithelium in Carcinoma In Situ of the Breast. <i>Cell Biochemistry and Biophysics</i> , 2009, 53, 145-157.	1.8	125
38	Integrated studies of biology: multiplexed imaging assays from molecules to man and back. <i>Current Opinion in Biotechnology</i> , 2009, 20, 1-3.	6.6	119
39	A call for bioimaging software usability. <i>Nature Methods</i> , 2012, 9, 666-670.	19.0	116
40	Methods for Quantifying Fibrillar Collagen Alignment. <i>Methods in Molecular Biology</i> , 2017, 1627, 429-451.	0.9	115
41	Stiff Collagen Matrices Increase Tumorigenic Prolactin Signaling in Breast Cancer Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 12722-12732.	3.4	112
42	Matrix metalloproteinase 9 modulates collagen matrices and wound repair. <i>Development (Cambridge)</i> , 2015, 142, 2136-2146.	2.5	111
43	Periductal stromal collagen topology of pancreatic ductal adenocarcinoma differs from that of normal and chronic pancreatitis. <i>Modern Pathology</i> , 2015, 28, 1470-1480.	5.5	110
44	Quantitating the cell: turning images into numbers with <i>ImageJ</i> . <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2017, 6, e260.	5.9	108
45	CGEF-1 and CHIN-1 Regulate CDC-42 Activity during Asymmetric Division in the <i>Caenorhabditis elegans</i> Embryo. <i>Molecular Biology of the Cell</i> , 2010, 21, 266-277.	2.1	105
46	Elevated collagen-I augments tumor progressive signals, intravasation and metastasis of prolactin-induced estrogen receptor alpha positive mammary tumor cells. <i>Breast Cancer Research</i> , 2017, 19, 9.	5.0	104
47	Filamin A <sup>21</sup> Integrin Complex Tunes Epithelial Cell Response to Matrix Tension. <i>Molecular Biology of the Cell</i> , 2009, 20, 3224-3238.	2.1	103
48	The <i>ImageJ</i> ecosystem: Open-source software for image visualization, processing, and analysis. <i>Protein Science</i> , 2021, 30, 234-249.	7.6	102
49	Simultaneous two-photon spectral and lifetime fluorescence microscopy. <i>Applied Optics</i> , 2004, 43, 5173.	2.1	98
50	Cortical granule exocytosis in <i>C. elegans</i> is regulated by cell cycle components including separase. <i>Development (Cambridge)</i> , 2007, 134, 3837-3848.	2.5	98
51	Bioimage Informatics for Experimental Biology. <i>Annual Review of Biophysics</i> , 2009, 38, 327-346.	10.0	98
52	Multi-functional self-fluorescent unimolecular micelles for tumor-targeted drug delivery and bioimaging. <i>Biomaterials</i> , 2015, 47, 41-50.	11.4	96
53	Tumor mechanics and metabolic dysfunction. <i>Free Radical Biology and Medicine</i> , 2015, 79, 269-280.	2.9	95
54	Aging and caloric restriction impact adipose tissue, adiponectin, and circulating lipids. <i>Aging Cell</i> , 2017, 16, 497-507.	6.7	94

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55	Collagen Alignment as a Predictor of Recurrence after Ductal Carcinoma <i>In Situ</i> . <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018, 27, 138-145.	2.5	94
56	Membrane dynamics during cellular wound repair. <i>Molecular Biology of the Cell</i> , 2016, 27, 2272-2285.	2.1	87
57	Induction of fibroblast senescence generates a non-fibrogenic myofibroblast phenotype that differentially impacts on cancer prognosis. <i>Aging</i> , 2016, 9, 114-132.	3.1	86
58	The Action of Discoidin Domain Receptor 2 in Basal Tumor Cells and Stromal Cancer-Associated Fibroblasts Is Critical for Breast Cancer Metastasis. <i>Cell Reports</i> , 2016, 15, 2510-2523.	6.4	85
59	Complex and Noncentrosymmetric Stacking of Layered Metal Dichalcogenide Materials Created by Screw Dislocations. <i>Journal of the American Chemical Society</i> , 2017, 139, 3496-3504.	13.7	81
60	Structural changes in mixed Col I/Col V collagen gels probed by SHG microscopy: implications for probing stromal alterations in human breast cancer. <i>Biomedical Optics Express</i> , 2011, 2, 2307.	2.9	78
61	Microtubules regulate GEF-H1 in response to extracellular matrix stiffness. <i>Molecular Biology of the Cell</i> , 2012, 23, 2583-2592.	2.1	78
62	Association of collagen architecture with glioblastoma patient survival. <i>Journal of Neurosurgery</i> , 2016, 126, 1812-1821.	1.6	78
63	Selected mitochondrial DNA landscapes activate the SIRT3 axis of the UPRmt to promote metastasis. <i>Oncogene</i> , 2017, 36, 4393-4404.	5.9	78
64	Fluorescence of Picosirius Red Multiplexed With Immunohistochemistry for the Quantitative Assessment of Collagen in Tissue Sections. <i>Journal of Histochemistry and Cytochemistry</i> , 2017, 65, 479-490.	2.5	78
65	The Presence of Cyclooxygenase 2, Tumor-Associated Macrophages, and Collagen Alignment as Prognostic Markers for Invasive Breast Carcinoma Patients. <i>American Journal of Pathology</i> , 2018, 188, 559-573.	3.8	75
66	Harnessing non-destructive 3D pathology. <i>Nature Biomedical Engineering</i> , 2021, 5, 203-218.	22.5	74
67	Second-harmonic generation imaging of cancer. <i>Methods in Cell Biology</i> , 2014, 123, 531-546.	1.1	73
68	Distinct inflammatory and wound healing responses to complex caudal fin injuries of larval zebrafish. <i>ELife</i> , 2019, 8, .	6.0	72
69	Characterization of Fibrillar Collagens and Extracellular Matrix of Glandular Benign Prostatic Hyperplasia Nodules. <i>PLoS ONE</i> , 2014, 9, e109102.	2.5	71
70	Cortex-wide neural interfacing via transparent polymer skulls. <i>Nature Communications</i> , 2019, 10, 1500.	12.8	71
71	Comparison of Picosirius Red Staining With Second Harmonic Generation Imaging for the Quantification of Clinically Relevant Collagen Fiber Features in Histopathology Samples. <i>Journal of Histochemistry and Cytochemistry</i> , 2016, 64, 519-529.	2.5	68
72	A shift in energy metabolism anticipates the onset of sarcopenia in rhesus monkeys. <i>Aging Cell</i> , 2013, 12, 672-681.	6.7	66

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73	Spatial and Temporal Analysis of Extracellular Matrix Proteins in the Developing Murine Heart: A Blueprint for Regeneration. <i>Tissue Engineering - Part A</i> , 2013, 19, 1132-1143.	3.1	65
74	In Vivo Visualization of Stromal Macrophages via label-free FLIM-based metabolite imaging. <i>Scientific Reports</i> , 2016, 6, 25086.	3.3	65
75	A Three-Dimensional Computational Model of Collagen Network Mechanics. <i>PLoS ONE</i> , 2014, 9, e111896.	2.5	63
76	The effect of micro-ECoG substrate footprint on the meningeal tissue response. <i>Journal of Neural Engineering</i> , 2014, 11, 046011.	3.5	63
77	Pancreatic $\beta$ -Cells From Mice Offset Age-Associated Mitochondrial Deficiency With Reduced KATP Channel Activity. <i>Diabetes</i> , 2016, 65, 2700-2710.	0.6	59
78	Laser Scanning Confocal Microscopy: History, Applications, and Related Optical Sectioning Techniques. <i>Methods in Molecular Biology</i> , 2014, 1075, 9-47.	0.9	58
79	Extraction of optical properties and prediction of light distribution in rat brain tissue. <i>Journal of Biomedical Optics</i> , 2014, 19, 075001.	2.6	57
80	Mechanical signals regulate and activate SNAIL1 protein to control the fibrogenic response of CAFs. <i>Journal of Cell Science</i> , 2016, 129, 1989-2002.	2.0	57
81	Damage-induced reactive oxygen species regulate vimentin and dynamic collagen-based projections to mediate wound repair. <i>ELife</i> , 2018, 7, .	6.0	57
82	Nonlinear Optical Imaging of Cellular Processes in Breast Cancer. <i>Microscopy and Microanalysis</i> , 2008, 14, 532-548.	0.4	56
83	Shining new light on 3D cell motility and the metastatic process. <i>Trends in Cell Biology</i> , 2009, 19, 638-648.	7.9	56
84	GSK3 $\beta$ Regulates Brain Energy Metabolism. <i>Cell Reports</i> , 2018, 23, 1922-1931.e4.	6.4	55
85	Nonlinear optical microscopy and ultrasound imaging of human cervical structure. <i>Journal of Biomedical Optics</i> , 2013, 18, 031110.	2.6	54
86	Calsyntenin-1 Regulates Axon Branching and Endosomal Trafficking during Sensory Neuron Development In Vivo. <i>Journal of Neuroscience</i> , 2014, 34, 9235-9248.	3.6	54
87	OptogenSIM: a 3D Monte Carlo simulation platform for light delivery design in optogenetics. <i>Biomedical Optics Express</i> , 2015, 6, 4859.	2.9	54
88	Pycro-Manager: open-source software for customized and reproducible microscope control. <i>Nature Methods</i> , 2021, 18, 226-228.	19.0	54
89	Optical workstation with concurrent, independent multiphoton imaging and experimental laser microbeam capabilities. <i>Review of Scientific Instruments</i> , 2003, 74, 193-201.	1.3	54
90	SORCS1 is necessary for normal insulin secretory granule biogenesis in metabolically stressed $\beta$ cells. <i>Journal of Clinical Investigation</i> , 2014, 124, 4240-4256.	8.2	53

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91	Nonlinear optical imaging and spectral-lifetime computational analysis of endogenous and exogenous fluorophores in breast cancer. <i>Journal of Biomedical Optics</i> , 2008, 13, 031220.	2.6	52
92	A bioengineered heterotypic stroma cancer microenvironment model to study pancreatic ductal adenocarcinoma. <i>Lab on A Chip</i> , 2013, 13, 3965.	6.0	51
93	3D texture analysis for classification of second harmonic generation images of human ovarian cancer. <i>Scientific Reports</i> , 2016, 6, 35734.	3.3	51
94	Targeted matrisome analysis identifies thrombospondin-2 and tenascin-C in aligned collagen stroma from invasive breast carcinoma. <i>Scientific Reports</i> , 2018, 8, 12941.	3.3	51
95	Calcific Aortic Valve Disease Is Associated with Layer-Specific Alterations in Collagen Architecture. <i>PLoS ONE</i> , 2016, 11, e0163858.	2.5	50
96	Open-source deep-learning software for bioimage segmentation. <i>Molecular Biology of the Cell</i> , 2021, 32, 823-829.	2.1	50
97	Dense Collagen-I Matrices Enhance Pro-Tumorigenic Estrogen-Prolactin Crosstalk in MCF-7 and T47D Breast Cancer Cells. <i>PLoS ONE</i> , 2015, 10, e0116891.	2.5	48
98	Open source bioimage informatics for cell biology. <i>Trends in Cell Biology</i> , 2009, 19, 656-660.	7.9	47
99	Closed-Loop Optogenetic Brain Interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 2327-2337.	4.2	46
100	Autofluorescence lifetime imaging of cellular metabolism: Sensitivity toward cell density, pH, intracellular, and intercellular heterogeneity. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 56-69.	1.5	46
101	Charcot-Marie-Tooth 2b associated Rab7 mutations cause axon growth and guidance defects during vertebrate sensory neuron development. <i>Neural Development</i> , 2016, 11, 2.	2.4	43
102	Analysis of histology specimens using lifetime multiphoton microscopy. <i>Journal of Biomedical Optics</i> , 2003, 8, 376.	2.6	42
103	Navigating the Collagen Jungle: The Biomedical Potential of Fiber Organization in Cancer. <i>Bioengineering</i> , 2021, 8, 17.	3.5	42
104	Lactation opposes pappalysin-1 driven pregnancy-associated breast cancer. <i>EMBO Molecular Medicine</i> , 2016, 8, 388-406.	6.9	41
105	Enriching Islet Phospholipids With Eicosapentaenoic Acid Reduces Prostaglandin E2 Signaling and Enhances Diabetic I <sup>2</sup> -Cell Function. <i>Diabetes</i> , 2017, 66, 1572-1585.	0.6	41
106	Collagen organization of renal cell carcinoma differs between low and high grade tumors. <i>BMC Cancer</i> , 2019, 19, 490.	2.6	41
107	Visualization approaches for multidimensional biological image data. <i>BioTechniques</i> , 2007, 43, S31-S36.	1.8	40
108	Administration of Non-Torsadogenic human Ether-À-go-go-Related Gene Inhibitors Is Associated with Better Survival for High hERG-Expressing Glioblastoma Patients. <i>Clinical Cancer Research</i> , 2017, 23, 73-80.	7.0	40

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109	Unifying biological image formats with HDF5. <i>Communications of the ACM</i> , 2009, 52, 42-47.	4.5	39
110	Quantification of Collagen Organization and Extracellular Matrix Factors within the Healing Ligament. <i>Microscopy and Microanalysis</i> , 2011, 17, 779-787.	0.4	39
111	Goniometric measurements of thick tissue using Monte Carlo simulations to obtain the single scattering anisotropy coefficient. <i>Biomedical Optics Express</i> , 2012, 3, 2707.	2.9	39
112	<scp>SHARPIN</scp> regulates collagen architecture and ductal outgrowth in the developing mouse mammary gland. <i>EMBO Journal</i> , 2017, 36, 165-182.	7.8	39
113	Quantification of collagen organization in histopathology samples using liquid crystal based polarization microscopy. <i>Biomedical Optics Express</i> , 2017, 8, 4243.	2.9	39
114	Resveratrol Metabolites Do Not Elicit Early Pro-apoptotic Mechanisms in Neuroblastoma Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4979-4986.	5.2	37
115	Void spot assay procedural optimization and software for rapid and objective quantification of rodent voiding function, including overlapping urine spots. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F1067-F1080.	2.7	37
116	Blue Light Modulates Murine Microglial Gene Expression in the Absence of Optogenetic Protein Expression. <i>Scientific Reports</i> , 2016, 6, 21172.	3.3	36
117	Mesenchymal Stem Cell Interactions with 3D ECM Modules Fabricated via Multiphoton Excited Photochemistry. <i>Biomacromolecules</i> , 2012, 13, 2917-2925.	5.4	35
118	ImageJ-MATLAB: a bidirectional framework for scientific image analysis interoperability. <i>Bioinformatics</i> , 2017, 33, 629-630.	4.1	35
119	Syndecan-1 induction in lung microenvironment supports the establishment of breast tumor metastases. <i>Breast Cancer Research</i> , 2018, 20, 66.	5.0	35
120	VisBio: A Computational Tool for Visualization of Multidimensional Biological Image Data. <i>Traffic</i> , 2004, 5, 411-417.	2.7	33
121	Tools for Visualizing Multidimensional Images from Living Specimens. <i>Photochemistry and Photobiology</i> , 2005, 81, 1116.	2.5	33
122	Lrrc10 is required for early heart development and function in zebrafish. <i>Developmental Biology</i> , 2007, 308, 494-506.	2.0	33
123	Human pancreatic stellate cells modulate 3D collagen alignment to promote the migration of pancreatic ductal adenocarcinoma cells. <i>Biomedical Microdevices</i> , 2016, 18, 105.	2.8	33
124	Chemically Derived Kirigami of WSe <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2018, 140, 10980-10987.	13.7	33
125	Applications of combined spectral lifetime microscopy for biology. <i>BioTechniques</i> , 2006, 41, 249-257.	1.8	32
126	Fibrillar Collagen Quantification With Curvelet Transform Based Computational Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 198.	4.1	32



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127	A microfluidic coculture and multiphoton FAD analysis assay provides insight into the influence of the bone microenvironment on prostate cancer cells. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 627-635.	1.3	31
128	zWEDGI: Wounding and Entrapment Device for Imaging Live Zebrafish Larvae. <i>Zebrafish</i> , 2017, 14, 42-50.	1.1	31
129	The Kinesin Adaptor Calsyntenin-1 Organizes Microtubule Polarity and Regulates Dynamics during Sensory Axon Arbor Development. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 107.	3.7	31
130	Molecular and Functional Networks Linked to Sarcopenia Prevention by Caloric Restriction in Rhesus Monkeys. <i>Cell Systems</i> , 2020, 10, 156-168.e5.	6.2	31
131	ECM-Incorporated Hydrogels Cross-Linked via Native Chemical Ligation To Engineer Stem Cell Microenvironments. <i>Biomacromolecules</i> , 2013, 14, 3102-3111.	5.4	30
132	Quantitative Histopathology of Stained Tissues using Color Spatial Light Interference Microscopy (cSLIM). <i>Scientific Reports</i> , 2019, 9, 14679.	3.3	30
133	Applying Multiphoton Imaging to the Study of Membrane Dynamics in Living Cells. <i>Traffic</i> , 2001, 2, 775-780.	2.7	29
134	Engineering Three-Dimensional Collagen Matrices to Provide Contact Guidance during 3D Cell Migration. <i>Current Protocols in Cell Biology</i> , 2010, 47, Unit 10.17.	2.3	29
135	A nondenatured, noncrosslinked collagen matrix to deliver stem cells to the heart. <i>Regenerative Medicine</i> , 2011, 6, 569-582.	1.7	29
136	Experimental and simulation study of the wavelength dependent second harmonic generation of collagen in scattering tissues. <i>Optics Letters</i> , 2014, 39, 1897.	3.3	29
137	Image-inspired 3D multiphoton excited fabrication of extracellular matrix structures by modulated raster scanning. <i>Optics Express</i> , 2013, 21, 25346.	3.4	28
138	RhoA is down-regulated at cell-cell contacts via p190RhoGAP-B in response to tensional homeostasis. <i>Molecular Biology of the Cell</i> , 2013, 24, 1688-1699.	2.1	27
139	Regional metabolic heterogeneity of the hippocampus is nonuniformly impacted by age and caloric restriction. <i>Aging Cell</i> , 2016, 15, 100-110.	6.7	27
140	Stromal alterations in ovarian cancers via wavelength dependent Second Harmonic Generation microscopy and optical scattering. <i>BMC Cancer</i> , 2017, 17, 102.	2.6	27
141	Scientific Community Image Forum: A discussion forum for scientific image software. <i>PLoS Biology</i> , 2019, 17, e3000340.	5.6	27
142	Imaging cardiac extracellular matrices: a blueprint for regeneration. <i>Trends in Biotechnology</i> , 2012, 30, 233-240.	9.3	25
143	SCIFIO: an extensible framework to support scientific image formats. <i>BMC Bioinformatics</i> , 2016, 17, 521.	2.6	25
144	PGC-1 $\alpha$ integrates a metabolism and growth network linked to caloric restriction. <i>Aging Cell</i> , 2019, 18, e12999.	6.7	25

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145	Single image super-resolution for whole slide image using convolutional neural networks and self-supervised color normalization. <i>Medical Image Analysis</i> , 2021, 68, 101938.	11.6	25
146	Machine Learning Methods for Fluorescence Lifetime Imaging (FLIM) Based Label-Free Detection of Microglia. <i>Frontiers in Neuroscience</i> , 2020, 14, 931.	2.8	24
147	Integration of the ImageJ Ecosystem in KNIME Analytics Platform. <i>Frontiers in Computer Science</i> , 2020, 2, .	2.8	24
148	Drosophila TRIM32 cooperates with glycolytic enzymes to promote cell growth. <i>ELife</i> , 2020, 9, .	6.0	24
149	Cooperativity among Rev-Associated Nuclear Export Signals Regulates HIV-1 Gene Expression and Is a Determinant of Virus Species Tropism. <i>Journal of Virology</i> , 2014, 88, 14207-14221.	3.4	23
150	Non-disruptive collagen characterization in clinical histopathology using cross-modality image synthesis. <i>Communications Biology</i> , 2020, 3, 414.	4.4	23
151	FLIMJ: An open-source ImageJ toolkit for fluorescence lifetime image data analysis. <i>PLoS ONE</i> , 2020, 15, e0238327.	2.5	23
152	Validation of an arterial constitutive model accounting for collagen content and crosslinking. <i>Acta Biomaterialia</i> , 2016, 31, 276-287.	8.3	22
153	NAD(P)H fluorescence lifetime measurements in fixed biological tissues. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 044005.	2.3	22
154	Quantitative phase imaging of stromal prognostic markers in pancreatic ductal adenocarcinoma. <i>Biomedical Optics Express</i> , 2020, 11, 1354.	2.9	22
155	Cell death, non-invasively assessed by intrinsic fluorescence intensity of NADH, is a predictive indicator of functional differentiation of embryonic stem cells. <i>Biology of the Cell</i> , 2012, 104, 352-364.	2.0	21
156	Advanced materials for neural surface electrodes. <i>Current Opinion in Solid State and Materials Science</i> , 2014, 18, 301-307.	11.5	21
157	ImageJ for the Next Generation of Scientific Image Data. <i>Microscopy and Microanalysis</i> , 2019, 25, 142-143.	0.4	21
158	Collagen Organization in Relation to Ductal Carcinoma <i>In Situ</i> Pathology and Outcomes. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2021, 30, 80-88.	2.5	21
159	Developing open-source software for bioimage analysis: opportunities and challenges. <i>F1000Research</i> , 2021, 10, 302.	1.6	20
160	ImageJ and CellProfiler: Complements in Open-Source Bioimage Analysis. <i>Current Protocols</i> , 2021, 1, e89.	2.9	20
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