Kevin W Eliceiri

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 280
 80,549
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 papers
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 310
 107,667
 5.6
 8.4

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
280	NIH Image to ImageJ: 25 years of image analysis. <i>Nature Methods</i> , 2012 , 9, 671-5	21.6	31528
279	Fiji: an open-source platform for biological-image analysis. <i>Nature Methods</i> , 2012 , 9, 676-82	21.6	27799
278	ImageJ2: ImageJ for the next generation of scientific image data. <i>BMC Bioinformatics</i> , 2017 , 18, 529	3.6	2804
277	The ImageJ ecosystem: An open platform for biomedical image analysis. <i>Molecular Reproduction and Development</i> , 2015 , 82, 518-29	2.6	1501
276	TrackMate: An open and extensible platform for single-particle tracking. <i>Methods</i> , 2017 , 115, 80-90	4.6	1276
275	Collagen reorganization at the tumor-stromal interface facilitates local invasion. <i>BMC Medicine</i> , 2006 , 4, 38	11.4	1127
274	Collagen density promotes mammary tumor initiation and progression. <i>BMC Medicine</i> , 2008 , 6, 11	11.4	904
273	Trainable Weka Segmentation: a machine learning tool for microscopy pixel classification. <i>Bioinformatics</i> , 2017 , 33, 2424-2426	7.2	808
272	Aligned collagen is a prognostic signature for survival in human breast carcinoma. <i>American Journal of Pathology</i> , 2011 , 178, 1221-32	5.8	763
271	Improved structure, function and compatibility for CellProfiler: modular high-throughput image analysis software. <i>Bioinformatics</i> , 2011 , 27, 1179-80	7.2	741
270	In vivo 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, 19494-9	11.5	691
269	Metadata matters: access to image data in the real world. Journal of Cell Biology, 2010, 189, 777-82	7.3	544
268	Matrix density-induced mechanoregulation of breast cell phenotype, signaling and gene expression through a FAK-ERK linkage. <i>Oncogene</i> , 2009 , 28, 4326-43	9.2	467
267	Biological imaging software tools. <i>Nature Methods</i> , 2012 , 9, 697-710	21.6	377
266	Contact guidance mediated three-dimensional cell migration is regulated by Rho/ROCK-dependent matrix reorganization. <i>Biophysical Journal</i> , 2008 , 95, 5374-84	2.9	374
265	Metabolic mapping of MCF10A human breast cells via multiphoton fluorescence lifetime imaging of the coenzyme NADH. <i>Cancer Research</i> , 2005 , 65, 8766-73	10.1	285
264	3D collagen alignment limits protrusions to enhance breast cancer cell persistence. <i>Biophysical Journal</i> , 2014 , 107, 2546-58	2.9	265

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263	The collagen receptor discoidin domain receptor 2 stabilizes SNAIL1 to facilitate breast cancer metastasis. <i>Nature Cell Biology</i> , 2013 , 15, 677-87	23.4	264
262	Postpartum mammary gland involution drives progression of ductal carcinoma in situ through collagen and COX-2. <i>Nature Medicine</i> , 2011 , 17, 1109-15	50.5	256
261	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	3.5	247
260	Beyond the margins: real-time detection of cancer using targeted fluorophores. <i>Nature Reviews Clinical Oncology</i> , 2017 , 14, 347-364	19.4	245
259	OpenSPIM: an open-access light-sheet microscopy platform. <i>Nature Methods</i> , 2013 , 10, 598-9	21.6	215
258	Computational segmentation of collagen fibers from second-harmonic generation images of breast cancer. <i>Journal of Biomedical Optics</i> , 2014 , 19, 16007	3.5	190
257	Multiphoton microscopy of endogenous fluorescence differentiates normal, precancerous, and cancerous squamous epithelial tissues. <i>Cancer Research</i> , 2005 , 65, 1180-6	10.1	184
256	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, 439-50	3.7	177
255	Multiphoton microscopy and fluorescence lifetime imaging microscopy (FLIM) to monitor metastasis and the tumor microenvironment. <i>Clinical and Experimental Metastasis</i> , 2009 , 26, 357-70	4.7	151
254	Lineage Reprogramming of Fibroblasts into Proliferative Induced Cardiac Progenitor Cells by Defined Factors. <i>Cell Stem Cell</i> , 2016 , 18, 354-67	18	131
253	Automated quantification of aligned collagen for human breast carcinoma prognosis. <i>Journal of Pathology Informatics</i> , 2014 , 5, 28	4.4	127
252	Non-line-of-sight imaging using a time-gated single photon avalanche diode. <i>Optics Express</i> , 2015 , 23, 20997-1011	3.3	124
251	Control of 3-dimensional collagen matrix polymerization for reproducible human mammary fibroblast cell culture in microfluidic devices. <i>Biomaterials</i> , 2009 , 30, 4833-41	15.6	123
250	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	15.6	116
249	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, 1551-65	5.8	115
248	A subset of myofibroblastic cancer-associated fibroblasts regulate collagen fiber elongation, which is prognostic in multiple cancers. <i>Oncotarget</i> , 2016 , 7, 6159-74	3.3	105
247	Anthocyanin Vacuolar Inclusions Form by a Microautophagy Mechanism. <i>Plant Cell</i> , 2015 , 27, 2545-59	11.6	103
246	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, 145-57	3.2	102

245	Highly aligned stromal collagen is a negative prognostic factor following pancreatic ductal adenocarcinoma resection. <i>Oncotarget</i> , 2016 , 7, 76197-76213	3.3	100
244	Stiff collagen matrices increase tumorigenic prolactin signaling in breast cancer cells. <i>Journal of Biological Chemistry</i> , 2013 , 288, 12722-32	5.4	97
243	Filamin A-beta1 integrin complex tunes epithelial cell response to matrix tension. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3224-38	3.5	97
242	A call for bioimaging software usability. <i>Nature Methods</i> , 2012 , 9, 666-70	21.6	92
241	Multi-functional self-fluorescent unimolecular micelles for tumor-targeted drug delivery and bioimaging. <i>Biomaterials</i> , 2015 , 47, 41-50	15.6	91
240	Simultaneous two-photon spectral and lifetime fluorescence microscopy. <i>Applied Optics</i> , 2004 , 43, 5173	3-8. 7	86
239	Bioimage informatics for experimental biology. <i>Annual Review of Biophysics</i> , 2009 , 38, 327-46	21.1	82
238	Tumor mechanics and metabolic dysfunction. Free Radical Biology and Medicine, 2015, 79, 269-80	7.8	79
237	Periductal stromal collagen topology of pancreatic ductal adenocarcinoma differs from that of normal and chronic pancreatitis. <i>Modern Pathology</i> , 2015 , 28, 1470-80	9.8	78
236	BI-24COLLAGEN PLAYS A ROLE IN GLIOBLASTOMA TUMOR INVASION AND PATIENT SURVIVAL. <i>Neuro-Oncology</i> , 2014 , 16, v28-v28	1	78
235	Cortical granule exocytosis in C. elegans is regulated by cell cycle components including separase. <i>Development (Cambridge)</i> , 2007 , 134, 3837-48	6.6	76
234	Matrix metalloproteinase 9 modulates collagen matrices and wound repair. <i>Development</i> (Cambridge), 2015 , 142, 2136-46	6.6	74
233	Quantitating the cell: turning images into numbers with ImageJ. <i>Wiley Interdisciplinary Reviews:</i> Developmental Biology, 2017 , 6, e260	5.9	66
232	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	8.3	64
231	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, 2510-23	10.6	64
230	Methods for Quantifying Fibrillar Collagen Alignment. <i>Methods in Molecular Biology</i> , 2017 , 1627, 429-45	51.4	64
229	Microtubules regulate GEF-H1 in response to extracellular matrix stiffness. <i>Molecular Biology of the Cell</i> , 2012 , 23, 2583-92	3.5	63
228	CGEF-1 and CHIN-1 regulate CDC-42 activity during asymmetric division in the Caenorhabditis elegans embryo. <i>Molecular Biology of the Cell</i> , 2010 , 21, 266-77	3.5	62

227	Second-harmonic generation imaging of cancer. <i>Methods in Cell Biology</i> , 2014 , 123, 531-46	1.8	61
226	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	16.4	60
225	Characterization of fibrillar collagens and extracellular matrix of glandular benign prostatic hyperplasia nodules. <i>PLoS ONE</i> , 2014 , 9, e109102	3.7	60
224	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, 2307-16	3.5	60
223	Induction of fibroblast senescence generates a non-fibrogenic myofibroblast phenotype that differentially impacts on cancer prognosis. <i>Aging</i> , 2016 , 9, 114-132	5.6	60
222	Aging and caloric restriction impact adipose tissue, adiponectin, and circulating lipids. <i>Aging Cell</i> , 2017 , 16, 497-507	9.9	59
221	Collagen Alignment as a Predictor of Recurrence after Ductal Carcinoma. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018 , 27, 138-145	4	59
220	A shift in energy metabolism anticipates the onset of sarcopenia in rhesus monkeys. <i>Aging Cell</i> , 2013 , 12, 672-81	9.9	57
219	Selected mitochondrial DNA landscapes activate the SIRT3 axis of the UPR to promote metastasis. Oncogene, 2017 , 36, 4393-4404	9.2	56
218	Membrane dynamics during cellular wound repair. <i>Molecular Biology of the Cell</i> , 2016 , 27, 2272-85	3.5	55
217	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, 1132-43	3.9	53
216	A three-dimensional computational model of collagen network mechanics. <i>PLoS ONE</i> , 2014 , 9, e111896	3.7	52
215	Comparison of Picrosirius 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, 519-29	3.4	51
214	Nonlinear optical imaging of cellular processes in breast cancer. <i>Microscopy and Microanalysis</i> , 2008 , 14, 532-48	0.5	50
213	Shining new light on 3D cell motility and the metastatic process. <i>Trends in Cell Biology</i> , 2009 , 19, 638-48	18.3	48
212	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	3.5	48
211	Optical workstation with concurrent, independent multiphoton imaging and experimental laser microbeam capabilities. <i>Review of Scientific Instruments</i> , 2003 , 74, 193-201	1.7	48
210	In Vivo Visualization of Stromal Macrophages via label-free FLIM-based metabolite imaging. <i>Scientific Reports</i> , 2016 , 6, 25086	4.9	48

209	Association of collagen architecture with glioblastoma patient survival. <i>Journal of Neurosurgery</i> , 2017 , 126, 1812-1821	3.2	46
208	Extraction of optical properties and prediction of light distribution in rat brain tissue. <i>Journal of Biomedical Optics</i> , 2014 , 19, 75001	3.5	45
207	A bioengineered heterotypic stroma-cancer microenvironment model to study pancreatic ductal adenocarcinoma. <i>Lab on A Chip</i> , 2013 , 13, 3965-75	7.2	43
206	Open source bioimage informatics for cell biology. <i>Trends in Cell Biology</i> , 2009 , 19, 656-60	18.3	43
205	Closed-Loop Optogenetic Brain Interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 2327-3	B7 5	42
204	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	5.8	42
203	The effect of micro-ECoG substrate footprint on the meningeal tissue response. <i>Journal of Neural Engineering</i> , 2014 , 11, 046011	5	42
202	Nonlinear optical microscopy and ultrasound imaging of human cervical structure. <i>Journal of Biomedical Optics</i> , 2013 , 18, 031110	3.5	41
201	Mechanical signals regulate and activate SNAIL1 protein to control the fibrogenic response of cancer-associated fibroblasts. <i>Journal of Cell Science</i> , 2016 , 129, 1989-2002	5.3	41
200	Pancreatic Ecells From Mice Offset Age-Associated Mitochondrial Deficiency With Reduced KATP Channel Activity. <i>Diabetes</i> , 2016 , 65, 2700-10	0.9	40
199	Fluorescence of Picrosirius Red Multiplexed With Immunohistochemistry for the Quantitative Assessment of Collagen in Tissue Sections. <i>Journal of Histochemistry and Cytochemistry</i> , 2017 , 65, 479-4	9 0 4	40
198	Laser scanning confocal microscopy: history, applications, and related optical sectioning techniques. <i>Methods in Molecular Biology</i> , 2014 , 1075, 9-47	1.4	39
197	Calsyntenin-1 regulates axon branching and endosomal trafficking during sensory neuron development in vivo. <i>Journal of Neuroscience</i> , 2014 , 34, 9235-48	6.6	39
196	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	3.7	37
195	Calcific Aortic Valve Disease Is Associated with Layer-Specific Alterations in Collagen Architecture. <i>PLoS ONE</i> , 2016 , 11, e0163858	3.7	37
194	OptogenSIM: a 3D Monte Carlo simulation platform for light delivery design in optogenetics. <i>Biomedical Optics Express</i> , 2015 , 6, 4859-70	3.5	36
193	Targeted matrisome analysis identifies thrombospondin-2 and tenascin-C in aligned collagen stroma from invasive breast carcinoma. <i>Scientific Reports</i> , 2018 , 8, 12941	4.9	36
192	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	3.9	35

191	Quantification of collagen organization and extracellular matrix factors within the healing ligament. <i>Microscopy and Microanalysis</i> , 2011 , 17, 779-87	0.5	35	
190	Analysis of histology specimens using lifetime multiphoton microscopy. <i>Journal of Biomedical Optics</i> , 2003 , 8, 376-80	3.5	35	
189	Distinct inflammatory and wound healing responses to complex caudal fin injuries of larval zebrafish. <i>ELife</i> , 2019 , 8,	8.9	35	
188	3D texture analysis for classification of second harmonic generation images of human ovarian cancer. <i>Scientific Reports</i> , 2016 , 6, 35734	4.9	34	
187	Resveratrol metabolites do not elicit early pro-apoptotic mechanisms in neuroblastoma cells. Journal of Agricultural and Food Chemistry, 2011 , 59, 4979-86	5.7	34	
186	Visualization approaches for multidimensional biological image data. <i>BioTechniques</i> , 2007 , 43, 31, 33-6	2.5	34	
185	SORCS1 is necessary for normal insulin secretory granule biogenesis in metabolically stressed acells. <i>Journal of Clinical Investigation</i> , 2014 , 124, 4240-56	15.9	34	
184	Mesenchymal stem cell interactions with 3D ECM modules fabricated via multiphoton excited photochemistry. <i>Biomacromolecules</i> , 2012 , 13, 2917-25	6.9	33	
183	Goniometric measurements of thick tissue using Monte Carlo simulations to obtain the single scattering anisotropy coefficient. <i>Biomedical Optics Express</i> , 2012 , 3, 2707-19	3.5	33	
182	Lactation opposes pappalysin-1-driven pregnancy-associated breast cancer. <i>EMBO Molecular Medicine</i> , 2016 , 8, 388-406	12	32	
181	GSK3lRegulates Brain Energy Metabolism. Cell Reports, 2018, 23, 1922-1931.e4	10.6	32	
180	Damage-induced reactive oxygen species regulate and dynamic collagen-based projections to mediate wound repair. <i>ELife</i> , 2018 , 7,	8.9	32	
179	SHARPIN regulates collagen architecture and ductal outgrowth in the developing mouse mammary gland. <i>EMBO Journal</i> , 2017 , 36, 165-182	13	31	
178	Unifying Biological Image Formats with HDF5. Communications of the ACM, 2009, 52, 42-47	2.5	30	
177	Quantification of collagen organization in histopathology samples using liquid crystal based polarization microscopy. <i>Biomedical Optics Express</i> , 2017 , 8, 4243-4256	3.5	29	
176	VisBio: a computational tool for visualization of multidimensional biological image data. <i>Traffic</i> , 2004 , 5, 411-7	5.7	29	
175	Dual-stream Multiple Instance Learning Network for Whole Slide Image Classification with Self-supervised Contrastive Learning <i>IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops</i> , 2021 , 2021, 14318-14328	1.3	29	
174	Cortex-wide neural interfacing via transparent polymer skulls. <i>Nature Communications</i> , 2019 , 10, 1500	17.4	28	

173	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-	- <i>63</i> 75	28
172	ECM-incorporated hydrogels cross-linked via native chemical ligation to engineer stem cell microenvironments. <i>Biomacromolecules</i> , 2013 , 14, 3102-11	6.9	28
171	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	4.6	28
170	Human pancreatic stellate cells modulate 3D collagen alignment to promote the migration of pancreatic ductal adenocarcinoma cells. <i>Biomedical Microdevices</i> , 2016 , 18, 105	3.7	27
169	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, 1688-99, S1-3	3.5	26
168	Engineering three-dimensional collagen matrices to provide contact guidance during 3D cell migration. <i>Current Protocols in Cell Biology</i> , 2010 , Chapter 10, Unit 10.17	2.3	26
167	Lrrc10 is required for early heart development and function in zebrafish. <i>Developmental Biology</i> , 2007 , 308, 494-506	3.1	26
166	Blue Light Modulates Murine Microglial Gene Expression in the Absence of Optogenetic Protein Expression. <i>Scientific Reports</i> , 2016 , 6, 21172	4.9	26
165	Enriching Islet Phospholipids With Eicosapentaenoic Acid Reduces Prostaglandin E Signaling and Enhances Diabetic Ecell Function. <i>Diabetes</i> , 2017 , 66, 1572-1585	0.9	25
164	A nondenatured, noncrosslinked collagen matrix to deliver stem cells to the heart. <i>Regenerative Medicine</i> , 2011 , 6, 569-82	2.5	25
163	Applications of combined spectral lifetime microscopy for biology. <i>BioTechniques</i> , 2006 , 41, 249, 251, 253 passim	2.5	25
162	Tools for visualizing multidimensional images from living specimens. <i>Photochemistry and Photobiology</i> , 2005 , 81, 1116-22	3.6	25
161	Applying multiphoton imaging to the study of membrane dynamics in living cells. <i>Traffic</i> , 2001 , 2, 775-8	0 5.7	25
160	Administration of Non-Torsadogenic human Ether-Ego-go-Related Gene Inhibitors Is Associated with Better Survival for High hERG-Expressing Glioblastoma Patients. <i>Clinical Cancer Research</i> , 2017 , 23, 73-80	12.9	24
159	Chemically Derived Kirigami of WSe. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10980-10987	16.4	23
158	Syndecan-1 induction in lung microenvironment supports the establishment of breast tumor metastases. <i>Breast Cancer Research</i> , 2018 , 20, 66	8.3	23
157	Experimental and simulation study of the wavelength dependent second harmonic generation of collagen in scattering tissues. <i>Optics Letters</i> , 2014 , 39, 1897-900	3	22
156	The ImageJ ecosystem: Open-source software for image visualization, processing, and analysis. <i>Protein Science</i> , 2021 , 30, 234-249	6.3	22

(2014-2018)

155	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	4.3	21	
154	Imaging cardiac extracellular matrices: a blueprint for regeneration. <i>Trends in Biotechnology</i> , 2012 , 30, 233-40	15.1	21	
153	Open-source deep-learning software for bioimage segmentation. <i>Molecular Biology of the Cell</i> , 2021 , 32, 823-829	3.5	21	
152	Regional metabolic heterogeneity of the hippocampus is nonuniformly impacted by age and caloric restriction. <i>Aging Cell</i> , 2016 , 15, 100-10	9.9	20	
151	Stromal alterations in ovarian cancers via wavelength dependent Second Harmonic Generation microscopy and optical scattering. <i>BMC Cancer</i> , 2017 , 17, 102	4.8	19	
150	Collagen organization of renal cell carcinoma differs between low and high grade tumors. <i>BMC Cancer</i> , 2019 , 19, 490	4.8	19	
149	zWEDGI: Wounding and Entrapment Device for Imaging Live Zebrafish Larvae. Zebrafish, 2017, 14, 42-50)2	19	
148	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	6.1	19	
147	Image-inspired 3D multiphoton excited fabrication of extracellular matrix structures by modulated raster scanning. <i>Optics Express</i> , 2013 , 21, 25346-55	3.3	19	
146	Three-dimensional surface profiling and optical characterization of liquid microlens using a Shack-Hartmann wave front sensor. <i>Applied Physics Letters</i> , 2011 , 98, 171104	3.4	18	
145	Opportunities for multiple-beam synchrotron-based mid-infrared imaging at IRENI. <i>Vibrational Spectroscopy</i> , 2012 , 60, 10-15	2.1	17	
144	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, 352-64	3.5	17	
143	Association of cellular and molecular responses in the rat mammary gland to 17 stradiol with susceptibility to mammary cancer. <i>BMC Cancer</i> , 2013 , 13, 573	4.8	17	
142	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, 14207-21	6.6	17	
141	Multiphoton flow cytometry to assess intrinsic and extrinsic fluorescence in cellular aggregates: applications to stem cells. <i>Microscopy and Microanalysis</i> , 2011 , 17, 540-54	0.5	17	
140	Pycro-Manager: open-source software for customized and reproducible microscope control. <i>Nature Methods</i> , 2021 , 18, 226-228	21.6	17	
139	SCIFIO: an extensible framework to support scientific image formats. <i>BMC Bioinformatics</i> , 2016 , 17, 521	3.6	16	
138	Advanced Materials for Neural Surface Electrodes. <i>Current Opinion in Solid State and Materials Science</i> , 2014 , 18, 301-307	12	16	

137	Validation of an arterial constitutive model accounting for collagen content and crosslinking. <i>Acta Biomaterialia</i> , 2016 , 31, 276-287	10.8	16
136	Molecular and Functional Networks Linked to Sarcopenia Prevention by Caloric Restriction in Rhesus Monkeys. <i>Cell Systems</i> , 2020 , 10, 156-168.e5	10.6	15
135	Quantitative phase imaging of stromal prognostic markers in pancreatic ductal adenocarcinoma. <i>Biomedical Optics Express</i> , 2020 , 11, 1354-1364	3.5	15
134	Integration of the ImageJ Ecosystem in the KNIME Analytics Platform. <i>Frontiers in Computer Science</i> , 2020 , 2,	3.4	14
133	Endogenous fluorescence signatures in living pluripotent stem cells change with loss of potency. <i>PLoS ONE</i> , 2012 , 7, e43708	3.7	14
132	Prolactin signaling through focal adhesion complexes is amplified by stiff extracellular matrices in breast cancer cells. <i>Oncotarget</i> , 2016 , 7, 48093-48106	3.3	14
131	Quantitative Histopathology of Stained Tissues using Color Spatial Light Interference Microscopy (cSLIM). <i>Scientific Reports</i> , 2019 , 9, 14679	4.9	13
130	Using fluorescence lifetime microscopy to study the subcellular localization of anthocyanins. <i>Plant Journal</i> , 2016 , 88, 895-903	6.9	13
129	Patterned optogenetic modulation of neurovascular and metabolic signals. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 140-7	7.3	12
128	ImageJ-MATLAB: a bidirectional framework for scientific image analysis interoperability. <i>Bioinformatics</i> , 2017 , 33, 629-630	7.2	12
127	Simultaneous determination of the second-harmonic generation emission directionality and reduced scattering coefficient from three-dimensional imaging of thick tissues. <i>Journal of Biomedical Optics</i> , 2013 , 18, 116008	3.5	12
126	Navigating the Collagen Jungle: The Biomedical Potential of Fiber Organization in Cancer. <i>Bioengineering</i> , 2021 , 8,	5.3	12
125	Harnessing non-destructive 3D pathology. <i>Nature Biomedical Engineering</i> , 2021 , 5, 203-218	19	12
124	Fibrillar Collagen Quantification With Curvelet Transform Based Computational Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 198	5.8	11
123	Nonlinear optical microscopy and computational analysis of intrinsic signatures in breast cancer. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009 , 2009, 4077-80	0.9	11
122	Scientific Community Image Forum: A discussion forum for scientific image software. <i>PLoS Biology</i> , 2019 , 17, e3000340	9.7	10
121	Three-Dimensional Surface Profile Measurement of Microlenses Using the ShackHartmann Wavefront Sensor. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 530-540	2.5	10
120	Super-resolution recurrent convolutional neural networks for learning with multi-resolution whole slide images. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-15	3.5	10

119	Review of quantitative multiscale imaging of breast cancer. Journal of Medical Imaging, 2018, 5, 010901	2.6	10
118	Intensity-based registration of bright-field and second-harmonic generation images of histopathology tissue sections. <i>Biomedical Optics Express</i> , 2020 , 11, 160-173	3.5	10
117	TRIM32 cooperates with glycolytic enzymes to promote cell growth. <i>ELife</i> , 2020 , 9,	8.9	10
116	Non-disruptive collagen characterization in clinical histopathology using cross-modality image synthesis. <i>Communications Biology</i> , 2020 , 3, 414	6.7	10
115	Optimization of interstrand interactions enables burn detection with a collagen-mimetic peptide. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 9906-9912	3.9	10
114	Convolutional neural networks for whole slide image superresolution. <i>Biomedical Optics Express</i> , 2018 , 9, 5368-5386	3.5	10
113	Automated and Robust Quantification of Colocalization in Dual-Color Fluorescence Microscopy: A Nonparametric Statistical Approach. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 622-636	8.7	9
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111	Bimolecular fluorescence complementation analysis of eukaryotic fusion products. <i>Biology of the Cell</i> , 2010 , 102, 525-37	3.5	9
110	Machine Learning Methods for Fluorescence Lifetime Imaging (FLIM) Based Label-Free Detection of Microglia. <i>Frontiers in Neuroscience</i> , 2020 , 14, 931	5.1	9
109	Transglutaminase-2 Mediates the Biomechanical Properties of the Colorectal Cancer Tissue Microenvironment that Contribute to Disease Progression. <i>Cancers</i> , 2019 , 11,	6.6	8
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104	A novel bioreactor for combined magnetic resonance spectroscopy and optical imaging of metabolism in 3D cell cultures. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3379-3391	4.4	8
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99	ImageJ for the Next Generation of Scientific Image Data. <i>Microscopy and Microanalysis</i> , 2019 , 25, 142-1	43 .5	7
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97	Distinct Tissue Damage and Microbial Cues Drive Neutrophil and Macrophage Recruitment to Thermal Injury. <i>IScience</i> , 2020 , 23, 101699	6.1	7
96	Optical imaging of collagen fiber damage to assess thermally injured human skin. <i>Wound Repair and Regeneration</i> , 2020 , 28, 848-855	3.6	7
95	Spatially Adaptive Colocalization Analysis in Dual-Color Fluorescence Microscopy. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	6
94	Multi-view second-harmonic generation imaging of mouse tail tendon via reflective micro-prisms. <i>Optics Letters</i> , 2015 , 40, 3201-4	3	6
93	The ImageJ Ecosystem: An Open and Extensible Platform for Biomedical Image Analysis <i>Microscopy and Microanalysis</i> , 2017 , 23, 226-227	0.5	6
92	FLIMJ: An open-source ImageJ toolkit for fluorescence lifetime image data analysis. <i>PLoS ONE</i> , 2020 , 15, e0238327	3.7	6
91	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	15.4	6
90	A semi-automated machine-learning based workflow for ellipsoid zone analysis in eyes with macular edema: SCORE2 pilot study. <i>PLoS ONE</i> , 2020 , 15, e0232494	3.7	5
89	Changes in Cutaneous Gene Expression after Microvascular Free Tissue Transfer in Parry-Romberg Syndrome. <i>Plastic and Reconstructive Surgery</i> , 2018 , 142, 303e-309e	2.7	5
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84	ImageJ and CellProfiler: Complements in Open-Source Bioimage Analysis. <i>Current Protocols</i> , 2021 , 1, e89		5

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83	Radiation Promptly Alters Cancer Live Cell Metabolic Fluxes: An In Vitro Demonstration. <i>Radiation Research</i> , 2016 , 185, 496-504	3.1	5
82	Expression of the Drosophila homeobox gene, Distal-less, supports an ancestral role in neural development. <i>Developmental Dynamics</i> , 2016 , 245, 87-95	2.9	5
81	Impact of tissue preservation on collagen fiber architecture. <i>Biotechnic and Histochemistry</i> , 2019 , 94, 134-144	1.8	5
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58	3-D-Printed Registration Phantom for Combined Ultrasound and Optical Imaging of Biological Tissues. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 1808-1814	3.5	2
57	An open source, 3D printed preclinical MRI phantom for repeated measures of contrast agents and reference standards. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4,	1.5	2
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51	Author response: Distinct inflammatory and wound healing responses to complex caudal fin injuries of larval zebrafish 2019 ,		2
50	Fluorescence lifetime-based intrinsic metabolic signatures of microglia cell (Conference Presentation) 2019 ,		2
49	Ellipsoid Zone Defects in Retinal Vein Occlusion Correlates With Visual Acuity Prognosis: SCORE2 Report 14. <i>Translational Vision Science and Technology</i> , 2021 , 10, 31	3.3	2
48	Joint regression-classification deep learning framework for analyzing fluorescence lifetime images using NADH and FAD. <i>Biomedical Optics Express</i> , 2021 , 12, 2703-2719	3.5	2

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33	Hyperspectral Multi-Point Confocal Microscope 2013,		1
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10	Exposure to Optogenetic Blue Light Attenuates Inflammatory Gene Expression in Non-transgenic Murine Microglia. <i>FASEB Journal</i> , 2015 , 29, 835.5	0.9
9	Sonification of hyperspectral fluorescence microscopy datasets. F1000Research, 5, 2572	3.6
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6	Challenges of conducting quantitative ultrasound with a multimodal optical imaging system. <i>Physics in Medicine and Biology</i> , 2021 , 66, 035008	3.8
5	Open Source Remote Monitoring of Research Lasers. Optics and Laser Technology, 2021, 143, 107363-	107,3263
4	FLIMJ: An open-source ImageJ toolkit for fluorescence lifetime image data analysis 2020 , 15, e023832	7
3	FLIMJ: An open-source ImageJ toolkit for fluorescence lifetime image data analysis 2020 , 15, e023832	7
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