

# Scott E Fraser

## List of Publications by Year in descending order

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323  
papers

29,331  
citations

4960

84  
h-index

5539

163  
g-index

344  
all docs

344  
docs citations

344  
times ranked

26811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitofusins Mfn1 and Mfn2 coordinately regulate mitochondrial fusion and are essential for embryonic development. <i>Journal of Cell Biology</i> , 2003, 160, 189-200.	5.2	2,081
2	In vivo visualization of gene expression using magnetic resonance imaging. <i>Nature Biotechnology</i> , 2000, 18, 321-325.	17.5	1,097
3	Label-Free, Single-Molecule Detection with Optical Microcavities. <i>Science</i> , 2007, 317, 783-787.	12.6	1,066
4	Intracardiac fluid forces are an essential epigenetic factor for embryonic cardiogenesis. <i>Nature</i> , 2003, 421, 172-177.	27.8	943
5	Dishevelled controls cell polarity during <i>Xenopus</i> gastrulation. <i>Nature</i> , 2000, 405, 81-85.	27.8	705
6	Segmentation in the chick embryo hindbrain is defined by cell lineage restrictions. <i>Nature</i> , 1990, 344, 431-435.	27.8	669
7	Multipotent Precursors Can Give Rise to All Major Cell Types of the Frog Retina. <i>Science</i> , 1988, 239, 1142-1145.	12.6	637
8	Effects of brain-derived neurotrophic factor on optic axon branching and remodelling in vivo. <i>Nature</i> , 1995, 378, 192-196.	27.8	574
9	Cell lineage analysis reveals multipotency of some avian neural crest cells. <i>Nature</i> , 1988, 335, 161-164.	27.8	570
10	Programmable in situ amplification for multiplexed imaging of mRNA expression. <i>Nature Biotechnology</i> , 2010, 28, 1208-1212.	17.5	567
11	Convergent Extension. <i>Developmental Cell</i> , 2002, 2, 695-706.	7.0	550
12	Deep and fast live imaging with two-photon scanned light-sheet microscopy. <i>Nature Methods</i> , 2011, 8, 757-760.	19.0	453
13	Vascular remodeling of the mouse yolk sac requires hemodynamic force. <i>Development (Cambridge)</i> , 2007, 134, 3317-3326.	2.5	418
14	Planar cell polarity signalling controls cell division orientation during zebrafish gastrulation. <i>Nature</i> , 2004, 430, 689-693.	27.8	374
15	Interactions of Eph-related receptors and ligands confer rostrocaudal pattern to trunk neural crest migration. <i>Current Biology</i> , 1997, 7, 571-580.	3.9	365
16	Developmental potential of avian trunk neural crest cells in situ. <i>Neuron</i> , 1989, 3, 755-766.	8.1	325
17	Nanotools for Neuroscience and Brain Activity Mapping. <i>ACS Nano</i> , 2013, 7, 1850-1866.	14.6	323
18	Smart-Magnetic Resonance Imaging Agent That Reports on Specific Enzymatic Activity. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 726-728.	4.4	319

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19	Structure and Emergence of Specific Olfactory Glomeruli in the Mouse. <i>Journal of Neuroscience</i> , 2001, 21, 9713-9723.	3.6	314
20	Dishevelled genes mediate a conserved mammalian PCP pathway to regulate convergent extension during neurulation. <i>Development (Cambridge)</i> , 2006, 133, 1767-1778.	2.5	309
21	Tracing Transgene Expression in Living Zebrafish Embryos. <i>Developmental Biology</i> , 2001, 233, 329-346.	2.0	300
22	A Calcium-Sensitive Magnetic Resonance Imaging Contrast Agent. <i>Journal of the American Chemical Society</i> , 1999, 121, 1413-1414.	13.7	283
23	High sensitivity nanoparticle detection using optical microcavities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5976-5979.	7.1	277
24	Reversing Blood Flows Act through <i>klf2a</i> to Ensure Normal Valvulogenesis in the Developing Heart. <i>PLoS Biology</i> , 2009, 7, e1000246.	5.6	272
25	Second harmonic generating (SHG) nanoprobe for in vivo imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14535-14540.	7.1	267
26	Mapping transplanted stem cell migration after a stroke: a serial, in vivo magnetic resonance imaging study. <i>NeuroImage</i> , 2004, 21, 311-317.	4.2	261
27	The Embryonic Vertebrate Heart Tube Is a Dynamic Suction Pump. <i>Science</i> , 2006, 312, 751-753.	12.6	260
28	Dishevelled phosphorylation, subcellular localization and multimerization regulate its role in early embryogenesis. <i>EMBO Journal</i> , 2000, 19, 1010-1022.	7.8	258
29	Tracking Transplanted Stem Cell Migration Using Bifunctional, Contrast Agent-Enhanced, Magnetic Resonance Imaging. <i>NeuroImage</i> , 2002, 17, 803-811.	4.2	257
30	Imaging in Systems Biology. <i>Cell</i> , 2007, 130, 784-795.	28.9	244
31	Phase-Variance Optical Coherence Tomography. <i>Ophthalmology</i> , 2014, 121, 180-187.	5.2	238
32	Selective disruption of gap junctional communication interferes with a patterning process in hydra. <i>Science</i> , 1987, 237, 49-55.	12.6	230
33	Mobility and transverse flow visualization using phase variance contrast with spectral domain optical coherence tomography. <i>Optics Express</i> , 2007, 15, 12636.	3.4	229
34	In vivo volumetric imaging of human retinal circulation with phase-variance optical coherence tomography. <i>Biomedical Optics Express</i> , 2011, 2, 1504.	2.9	218
35	Macrophages directly contribute collagen to scar formation during zebrafish heart regeneration and mouse heart repair. <i>Nature Communications</i> , 2020, 11, 600.	12.8	216
36	Oct4 kinetics predict cell lineage patterning in the early mammalian embryo. <i>Nature Cell Biology</i> , 2011, 13, 117-123.	10.3	214

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37	Digitizing life at the level of the cell: high-performance laser-scanning microscopy and image analysis for in toto imaging of development. <i>Mechanisms of Development</i> , 2003, 120, 1407-1420.	1.7	206
38	Volumetric microvascular imaging of human retina using optical coherence tomography with a novel motion contrast technique. <i>Optics Express</i> , 2009, 17, 22190.	3.4	198
39	Mapping a multiplexed zoo of mRNA expression. <i>Development (Cambridge)</i> , 2016, 143, 3632-3637.	2.5	198
40	Cell lineage analysis reveals multipotent precursors in the ciliary margin of the frog retina. <i>Developmental Biology</i> , 1989, 136, 254-263.	2.0	192
41	Optical imaging of the chorioretinal vasculature in the living human eye. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14354-14359.	7.1	189
42	Fluorescently Detectable Magnetic Resonance Imaging Agents. <i>Bioconjugate Chemistry</i> , 1998, 9, 242-249.	3.6	188
43	Resolution of multiple green fluorescent protein color variants and dyes using two-photon microscopy and imaging spectroscopy. <i>Journal of Biomedical Optics</i> , 2001, 6, 311.	2.6	179
44	Assembly of $\alpha 4 \beta 2$ Nicotinic Acetylcholine Receptors Assessed with Functional Fluorescently Labeled Subunits: Effects of Localization, Trafficking, and Nicotine-Induced Upregulation in Clonal Mammalian Cells and in Cultured Midbrain Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 11554-11567.	3.6	176
45	Macrophage Epithelial Reprogramming Underlies Mycobacterial Granuloma Formation and Promotes Infection. <i>Immunity</i> , 2016, 45, 861-876.	14.3	176
46	Magnetic Resonance Microscopy of Embryonic Cell Lineages and Movements. <i>Science</i> , 1994, 263, 681-684.	12.6	175
47	Dynamic changes in optic fiber terminal arbors lead to retinotopic map formation: An in vivo confocal microscopic study. <i>Neuron</i> , 1990, 5, 159-171.	8.1	162
48	Measuring hemodynamic changes during mammalian development. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H1561-H1569.	3.2	158
49	Technicolour transgenics: imaging tools for functional genomics in the mouse. <i>Nature Reviews Genetics</i> , 2003, 4, 613-625.	16.3	157
50	Dynamic Analysis of Vascular Morphogenesis Using Transgenic Quail Embryos. <i>PLoS ONE</i> , 2010, 5, e12674.	2.5	153
51	Neural Crest Cell Dynamics Revealed by Time-Lapse Video Microscopy of Whole Embryo Chick Explant Cultures. <i>Developmental Biology</i> , 1998, 204, 327-344.	2.0	151
52	Rapid remodeling of retinal arbors in the tectum with and without blockade of synaptic transmission. <i>Neuron</i> , 1994, 12, 921-934.	8.1	148
53	A cell lineage analysis of segmentation in the chick embryo. <i>Development (Cambridge)</i> , 1988, 104, 231-244.	2.5	148
54	Four-dimensional cardiac imaging in living embryos via postacquisition synchronization of nongated slice sequences. <i>Journal of Biomedical Optics</i> , 2005, 10, 054001.	2.6	147

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55	Calcium signaling during convergent extension in <i>Xenopus</i> . <i>Current Biology</i> , 2001, 11, 652-661.	3.9	141
56	Dynamic Analyses of <i>Drosophila</i> Gastrulation Provide Insights into Collective Cell Migration. <i>Science</i> , 2008, 322, 1546-1550.	12.6	141
57	BDNF in the development of the visual system of <i>Xenopus</i> . <i>Neuron</i> , 1994, 12, 747-761.	8.1	139
58	Tools for the Microbiome: Nano and Beyond. <i>ACS Nano</i> , 2016, 10, 6-37.	14.6	137
59	Specification of the Zebrafish Nervous System by Nonaxial Signals. <i>Science</i> , 1997, 277, 254-257.	12.6	135
60	Rapid three-dimensional imaging and analysis of the beating embryonic heart reveals functional changes during development. <i>Developmental Dynamics</i> , 2006, 235, 2940-2948.	1.8	134
61	A dual embryonic origin for vertebrate mechanoreceptors. <i>Science</i> , 1994, 264, 426-430.	12.6	131
62	FGF receptor signalling is required to maintain neural progenitors during Hensen's node progression. <i>Nature Cell Biology</i> , 2001, 3, 559-566.	10.3	131
63	Cell Dynamics During Somite Boundary Formation Revealed by Time-Lapse Analysis. <i>Science</i> , 2002, 298, 991-995.	12.6	128
64	Direct imaging of in vivo neuronal migration in the developing cerebellum. <i>Current Biology</i> , 2001, 11, 1858-1863.	3.9	126
65	Imaging of the cross-presenting dendritic cell subsets in the skin-draining lymph node. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1044-1049.	7.1	125
66	Dynamic in vivo imaging of postimplantation mammalian embryos using whole embryo culture. <i>Genesis</i> , 2002, 34, 228-235.	1.6	124
67	Hyperspectral phasor analysis enables multiplexed 5D in vivo imaging. <i>Nature Methods</i> , 2017, 14, 149-152.	19.0	124
68	Magnetic resonance microscopy: recent advances and applications. <i>Current Opinion in Biotechnology</i> , 2005, 16, 93-99.	6.6	118
69	Imaging Cells in the Developing Nervous System with Retrovirus Expressing Modified Green Fluorescent Protein. <i>Experimental Neurology</i> , 1999, 156, 394-406.	4.1	113
70	Intravital imaging of green fluorescent protein using two-photon laser-scanning microscopy. <i>Gene</i> , 1996, 173, 25-31.	2.2	112
71	A versatile gene trap to visualize and interrogate the function of the vertebrate proteome. <i>Genes and Development</i> , 2011, 25, 2306-2320.	5.9	111
72	The dynein regulatory complex is required for ciliary motility and otolith biogenesis in the inner ear. <i>Nature</i> , 2009, 457, 205-209.	27.8	110

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73	A differential adhesion approach to the patterning of nerve connections. <i>Developmental Biology</i> , 1980, 79, 453-464.	2.0	109
74	Multiphoton excitation spectra in biological samples. <i>Journal of Biomedical Optics</i> , 2003, 8, 329.	2.6	109
75	Retinotectal Specificity: Models and Experiments in Search of a Mapping Function. <i>Annual Review of Neuroscience</i> , 1980, 3, 319-352.	10.7	107
76	Alteration of the retinotectal map in <i>Xenopus</i> by antibodies to neural cell adhesion molecules.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984, 81, 4222-4226.	7.1	107
77	Competitive and positional cues in the patterning of nerve connections. <i>Journal of Neurobiology</i> , 1990, 21, 51-72.	3.6	105
78	Dynamic aspects of retinotectal map formation revealed by a vital-dye fiber-tracing technique. <i>Developmental Biology</i> , 1986, 114, 265-276.	2.0	102
79	An optical coherence microscope for 3-dimensional imaging in developmental biology. <i>Optics Express</i> , 2000, 6, 136.	3.4	100
80	Quantum dots are powerful multipurpose vital labeling agents in zebrafish embryos. <i>Developmental Dynamics</i> , 2005, 234, 670-681.	1.8	100
81	Noninvasive Imaging of the Foveal Avascular Zone with High-Speed, Phase-Variance Optical Coherence Tomography. , 2012, 53, 85.		97
82	Tracking transplanted stem cell migration using bifunctional, contrast agent-enhanced, magnetic resonance imaging. <i>NeuroImage</i> , 2002, 17, 803-11.	4.2	94
83	Tracing the lineage of tracing cell lineages. <i>Nature Cell Biology</i> , 2001, 3, E216-E218.	10.3	91
84	The neuronal naturalist: watching neurons in their native habitat. <i>Nature Neuroscience</i> , 2001, 4, 1215-1220.	14.8	89
85	Nanobody-targeted E3-ubiquitin ligase complex degrades nuclear proteins. <i>Scientific Reports</i> , 2015, 5, 14269.	3.3	88
86	The Cellular Patterns of BDNF and trkB Expression Suggest Multiple Roles for BDNF during <i>Xenopus</i> Visual System Development. <i>Developmental Biology</i> , 1996, 179, 102-115.	2.0	86
87	A model for MRI contrast enhancement using T1 agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 8443-8448.	7.1	86
88	MR microscopy of transgenic mice that spontaneously acquire experimental allergic encephalomyelitis. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 119-132.	3.0	85
89	Stereotypical Cell Division Orientation Controls Neural Rod Midline Formation in Zebrafish. <i>Current Biology</i> , 2010, 20, 1966-1972.	3.9	85
90	Surface imaging microscopy, an automated method for visualizing whole embryo samples in three dimensions at high resolution. <i>Developmental Dynamics</i> , 2002, 225, 369-375.	1.8	84

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91	Quantitating intracellular transport of polyplexes by spatio-temporal image correlation spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7523-7528.	7.1	84
92	Specification of the Hindbrain Fate in the Zebrafish. Developmental Biology, 1998, 197, 283-296.	2.0	81
93	bullwinkle is required for epithelial morphogenesis during Drosophila oogenesis. Developmental Biology, 2004, 267, 320-341.	2.0	81
94	SHG nanoprobe: Advancing harmonic imaging in biology. BioEssays, 2012, 34, 351-360.	2.5	81
95	Mapping of neural crest pathways in Xenopus laevis using inter- and intra-specific cell markers. Developmental Biology, 1988, 127, 119-132.	2.0	80
96	Axon fasciculation and differences in midline kinetics between pioneer and follower axons within commissural fascicles. Development (Cambridge), 2003, 130, 4999-5008.	2.5	80
97	In Vivo Imaging of Transplanted Islets with <sup>64</sup> Cu-DO3A-VS-Cys <sup>40</sup> -Exendin-4 by Targeting GLP-1 Receptor. Bioconjugate Chemistry, 2011, 22, 1587-1594.	3.6	80
98	In Vivo Human Choroidal Vascular Pattern Visualization Using High-Speed Swept-Source Optical Coherence Tomography at 1060 nm. , 2012, 53, 2337.		80
99	Embryonic Origins of Auditory Brain-Stem Nuclei in the Chick Hindbrain. Developmental Biology, 2000, 224, 138-151.	2.0	78
100	Fast fluorescence microscopy for imaging the dynamics of embryonic development. HFSP Journal, 2008, 2, 143-155.	2.5	76
101	Looking deeper into vertebrate development. Trends in Cell Biology, 1999, 9, 73-76.	7.9	75
102	Distinct modes of floor plate induction in the chick embryo. Development (Cambridge), 2003, 130, 4809-4821.	2.5	75
103	Receptor-targeted co-transport of DNA and magnetic resonance contrast agents. Chemistry and Biology, 1995, 2, 615-620.	6.0	74
104	Phase-Contrast OCT Imaging of Transverse Flows in the Mouse Retina and Choroid. , 2008, 49, 5055.		74
105	Regional requirements for Dishevelled signaling during Xenopus gastrulation: separable effects on blastopore closure, mesendoderm internalization and archenteron formation. Development (Cambridge), 2004, 131, 6195-6209.	2.5	73
106	The FaceBase Consortium: A comprehensive program to facilitate craniofacial research. Developmental Biology, 2011, 355, 175-182.	2.0	72
107	Zebrafish Neural Tube Morphogenesis Requires Scribble-Dependent Oriented Cell Divisions. Current Biology, 2011, 21, 79-86.	3.9	72
108	Intercellular Bridges in Vertebrate Gastrulation. PLoS ONE, 2011, 6, e20230.	2.5	72

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109	An All-Optical Approach for Probing Microscopic Flows in Living Embryos. <i>Biophysical Journal</i> , 2008, 95, L29-L31.	0.5	71
110	Surface functionalization of barium titanate SHG nanoprobe for in vivo imaging in zebrafish. <i>Nature Protocols</i> , 2012, 7, 1618-1633.	12.0	68
111	Synaptic dynamics at the neuromuscular junction: Mechanisms and models. <i>Journal of Neurobiology</i> , 1990, 21, 223-249.	3.6	67
112	The Grueneberg ganglion projects to the olfactory bulb. <i>NeuroReport</i> , 2005, 16, 1929-1932.	1.2	66
113	Single Cell Kinetics of Intracellular, Nonviral, Nucleic Acid Delivery Vehicle Acidification and Trafficking. <i>Bioconjugate Chemistry</i> , 2005, 16, 986-994.	3.6	65
114	New transgenic reporters identify somatosensory neuron subtypes in larval zebrafish. <i>Developmental Neurobiology</i> , 2013, 73, 152-167.	3.0	64
115	Modulation of neuronal activity and plasma membrane properties with low-power millimeter waves in organotypic cortical slices. <i>Journal of Neural Engineering</i> , 2010, 7, 045003.	3.5	63
116	Fate map and morphogenesis of presumptive neural crest and dorsal neural tube. <i>Developmental Biology</i> , 2009, 330, 221-236.	2.0	60
117	Alterations in the <i>Xenopus</i> retinotectal projection by antibodies to <i>Xenopus</i> N-CAM. <i>Developmental Biology</i> , 1988, 129, 217-230.	2.0	59
118	Fate maps of the zebrafish embryo. <i>Current Opinion in Genetics and Development</i> , 1995, 5, 439-443.	3.3	59
119	Logarithmic intensity and speckle-based motion contrast methods for human retinal vasculature visualization using swept source optical coherence tomography. <i>Biomedical Optics Express</i> , 2012, 3, 503.	2.9	59
120	Defective gap-junctional communication associated with imaginal disc overgrowth and degeneration caused by mutations of the <i>dco</i> gene in <i>Drosophila</i> . <i>Developmental Biology</i> , 1990, 140, 413-429.	2.0	58
121	FGF Signaling Mediates Regeneration of the Differentiating Cerebellum through Repatterning of the Anterior Hindbrain and Reinitiation of Neuronal Migration. <i>Journal of Neuroscience</i> , 2006, 26, 7293-7304.	3.6	58
122	Fluorescent in situ hybridization employing the conventional NBT/BCIP chromogenic stain. <i>BioTechniques</i> , 2007, 42, 756-759.	1.8	58
123	Quantitative imaging of collective cell migration during <i>Drosophila</i> gastrulation: multiphoton microscopy and computational analysis. <i>Nature Protocols</i> , 2009, 4, 1397-1412.	12.0	58
124	Fiber optic mapping of the <i>Xenopus</i> visual system: Shift in the retinotectal projection during development. <i>Developmental Biology</i> , 1983, 95, 505-511.	2.0	57
125	Multidimensional quantitative analysis of mRNA expression within intact vertebrate embryos. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	56
126	Wound healing, cell communication, and DNA synthesis during imaginal disc regeneration in <i>Drosophila</i> . <i>Developmental Biology</i> , 1988, 127, 197-208.	2.0	54



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127	Gruneberg ganglion olfactory subsystem employs a cGMP signaling pathway. <i>Journal of Comparative Neurology</i> , 2009, 516, 36-48.	1.6	53
128	Building Enhancers from the Ground Up: A Synthetic Biology Approach. <i>Cell</i> , 2011, 146, 105-118.	28.9	53
129	Segregation of oral from aboral ectoderm precursors is completed at fifth cleavage in the embryogenesis of <i>Strongylocentrotus purpuratus</i> . <i>Developmental Biology</i> , 1990, 137, 77-85.	2.0	52
130	Acetylcholine receptors and concanavalin A-binding sites on cultured <i>Xenopus</i> muscle cells: electrophoresis, diffusion, and aggregation [corrected and republished article originally printed in <i>J Cell Biol</i> 1988 May;106(5):1723-34]. <i>Journal of Cell Biology</i> , 1988, 107, 1397-1408.	5.2	51
131	The Molecular Metamorphosis of Experimental Embryology. <i>Cell</i> , 2000, 100, 41-55.	28.9	51
132	Transgenic quail to dynamically image amniote embryogenesis. <i>Development (Cambridge)</i> , 2015, 142, 2850-9.	2.5	50
133	Structural and Functional Characterization of Human Stem-Cell-Derived Retinal Organoids by Live Imaging. , 2017, 58, 3311-3318.		50
134	Cytoskeletal polarity mediates localized induction of the heart progenitor lineage. <i>Nature Cell Biology</i> , 2011, 13, 952-957.	10.3	49
135	Genetic and neuronal regulation of sleep by neuropeptide VF. <i>ELife</i> , 2017, 6, .	6.0	49
136	Digital Three-Dimensional Atlas of Quail Development Using High-Resolution MRI. <i>Scientific World Journal, The</i> , 2007, 7, 592-604.	2.1	47
137	Mechanistic Basis of Otolith Formation during Teleost Inner Ear Development. <i>Developmental Cell</i> , 2011, 20, 271-278.	7.0	47
138	Eph-ephrin signaling modulated by polymerization and condensation of receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13188-13193.	7.1	47
139	The year(s) of the contrast agent “micro-MRI in the new millennium. <i>Current Opinion in Immunology</i> , 2003, 15, 385-392.	5.5	46
140	PhOTO Zebrafish: A Transgenic Resource for In Vivo Lineage Tracing during Development and Regeneration. <i>PLoS ONE</i> , 2012, 7, e32888.	2.5	44
141	An E3-ligase-based method for ablating inhibitory synapses. <i>Nature Methods</i> , 2016, 13, 673-678.	19.0	43
142	Biotagging of Specific Cell Populations in Zebrafish Reveals Gene Regulatory Logic Encoded in the Nuclear Transcriptome. <i>Cell Reports</i> , 2017, 19, 425-440.	6.4	43
143	Formation and removal of alkylthiolate self-assembled monolayers on gold in aqueous solutions. <i>Lab on A Chip</i> , 2006, 6, 289.	6.0	41
144	Intracellular Transport Dynamics of Endosomes Containing DNA Polyplexes along the Microtubule Network. <i>Biophysical Journal</i> , 2006, 90, L42-L44.	0.5	40

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145	Eye dominance columns from an isogenic double-nasal frog eye. <i>Science</i> , 1983, 221, 293-295.	12.6	39
146	Dynamic imaging of the growth plate cartilage reveals multiple contributors to skeletal morphogenesis. <i>Nature Communications</i> , 2015, 6, 6798.	12.8	39
147	Patterns of dye coupling in the imaginal wing disk of <i>Drosophila melanogaster</i> . <i>Nature</i> , 1985, 317, 533-536.	27.8	38
148	Electrophoretic repatterning of charged cytoplasmic molecules within tissues coupled by gap junctions by externally applied electric fields. <i>Developmental Biology</i> , 1989, 132, 179-188.	2.0	38
149	Temporal and spatial distributions of red cell velocity in capillaries of resting skeletal muscle, including estimates of red cell transit times. <i>Microvascular Research</i> , 1981, 22, 14-31.	2.5	37
150	Imaging neuronal development with magnetic resonance imaging (NMR) microscopy. <i>Journal of Neuroscience Methods</i> , 1994, 54, 189-196.	2.5	37
151	High-contrast, synchronous volumetric imaging with selective volume illumination microscopy. <i>Communications Biology</i> , 2020, 3, 74.	4.4	37
152	Response to change in the number of visual stimuli in zebrafish: A behavioural and molecular study. <i>Scientific Reports</i> , 2020, 10, 5769.	3.3	37
153	Transgenic quail as a model for research in the avian nervous system: A comparative study of the auditory brainstem. <i>Journal of Comparative Neurology</i> , 2013, 521, 5-23.	1.6	36
154	Using enhanced number and brightness to measure protein oligomerization dynamics in live cells. <i>Nature Protocols</i> , 2019, 14, 616-638.	12.0	36
155	Cell lineage analysis of the avian neural crest. <i>Development (Cambridge)</i> , 1991, 113, 17-22.	2.5	36
156	Chapter 3 Development, Maintenance, and Modulation of Patterned Membrane Topography: Models Based on the Acetylcholine Receptor. <i>Current Topics in Developmental Biology</i> , 1982, 17, 77-100.	2.2	35
157	Biological Systems from an Engineer's Point of View. <i>PLoS Biology</i> , 2009, 7, e1000021.	5.6	35
158	The Herpes Virus Fc Receptor gE-gI Mediates Antibody Bipolar Bridging to Clear Viral Antigens from the Cell Surface. <i>PLoS Pathogens</i> , 2014, 10, e1003961.	4.7	35
159	Myelin deficiencies visualized in vivo: Visually evoked potentials and T2-weighted magnetic resonance images of shiverer mutant and wild-type mice. <i>Journal of Neuroscience Research</i> , 2006, 84, 1716-1726.	2.9	33
160	Circumferential strain in the wall of the common carotid artery: Comparing displacement-encoded and cine MRI in volunteers. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 8-13.	3.0	33
161	Airway branching has conserved needs for local parasympathetic innervation but not neurotransmission. <i>BMC Biology</i> , 2014, 12, 92.	3.8	33
162	Combinatorial Analysis of mRNA Expression Patterns in Mouse Embryos Using Hybridization Chain Reaction. <i>Cold Spring Harbor Protocols</i> , 2015, 2015, pdb.prot083832.	0.3	33

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163	Dynamic structure and protein expression of the live embryonic heart captured by 2-photon light sheet microscopy and retrospective registration. <i>Biomedical Optics Express</i> , 2015, 6, 2056.	2.9	33
164	Inhibition of nucleotide synthesis promotes replicative senescence of human mammary epithelial cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 10564-10578.	3.4	33
165	Differentiation of the vertebrate neural tube. <i>Current Opinion in Cell Biology</i> , 1997, 9, 885-891.	5.4	32
166	In Ovo Live Imaging of Avian Embryos: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5446.	0.3	32
167	Wnt signaling components in the chicken intestinal tract. <i>Developmental Biology</i> , 2003, 256, 18-33.	2.0	31
168	Enhancer and gene traps for molecular imaging and genetic analysis in zebrafish. <i>Development Growth and Differentiation</i> , 2013, 55, 434-445.	1.5	31
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