

James Sharpe

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2200164/james-sharpe-publications-by-year.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	5,843 citations	39 h-index	75 g-index
104 ext. papers	7,071 ext. citations	8.2 avg, IF	5.84 L-index

#	Paper	IF	Citations
93	Arrested coalescence of multicellular aggregates.. <i>Soft Matter</i> , 2022 , 18, 3771-3780	3.6	1
92	Salivary gland macrophages and tissue-resident CD8 T cells cooperate for homeostatic organ surveillance. <i>Science Immunology</i> , 2020 , 5,	28	28
91	Topologically selective islet vulnerability and self-sustained downregulation of markers for β cell maturity in streptozotocin-induced diabetes. <i>Communications Biology</i> , 2020 , 3, 541	6.7	10
90	ViceCT and whiceCT for simultaneous high-resolution visualization of craniofacial, brain and ventricular anatomy from micro-computed tomography. <i>Scientific Reports</i> , 2020 , 10, 18772	4.9	0
89	ya a: GPU-Powered Spheroid Models for Mesenchyme and Epithelium. <i>Cell Systems</i> , 2019 , 8, 261-266.e310.6	10.6	15
88	Toward Controllable Morphogenesis in Large Robot Swarms. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 3386-3393	4.2	5
87	Wolpert@ French Flag: what@ the problem?. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	18
86	Sequences Generated by Powers of the kth-order Fibonacci Recurrence Relation. <i>American Mathematical Monthly</i> , 2018 , 125, 443-446	0.3	
85	A quantitative method for staging mouse embryos based on limb morphometry. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	6
84	The Rho regulator Myosin IXb enables nonlymphoid tissue seeding of protective CD8 T cells. <i>Journal of Experimental Medicine</i> , 2018 , 215, 1869-1890	16.6	15
83	Quantification of gene expression patterns to reveal the origins of abnormal morphogenesis. <i>ELife</i> , 2018 , 7,	8.9	5
82	Attenuation artifacts in light sheet fluorescence microscopy corrected by OPTiSPIM. <i>Light: Science and Applications</i> , 2018 , 7, 70	16.7	18
81	Perspective: The promise of multi-cellular engineered living systems. <i>APL Bioengineering</i> , 2018 , 2, 040906.6	10.6	74
80	Synthetic circuits reveal how mechanisms of gene regulatory networks constrain evolution. <i>Molecular Systems Biology</i> , 2018 , 14, e8102	12.2	15
79	A spectrum of modularity in multi-functional gene circuits. <i>Molecular Systems Biology</i> , 2017 , 13, 925	12.2	33
78	Antigen Availability and DOCK2-Driven Motility Govern CD4 T Cell Interactions with Dendritic Cells In Vivo. <i>Journal of Immunology</i> , 2017 , 199, 520-530	5.3	9
77	Migratory appendicular muscles precursor cells in the common ancestor to all vertebrates. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1731-1736	12.3	16

76	Computer modeling in developmental biology: growing today, essential tomorrow. <i>Development (Cambridge)</i> , 2017 , 144, 4214-4225	6.6	54
75	The fin-to-limb transition as the re-organization of a Turing pattern. <i>Nature Communications</i> , 2016 , 7, 11582	17.4	60
74	pMHC affinity controls duration of CD8+ T cell-DC interactions and imprints timing of effector differentiation versus expansion. <i>Journal of Experimental Medicine</i> , 2016 , 213, 2811-2829	16.6	56
73	Light sheet fluorescence microscopy for in situ cell interaction analysis in mouse lymph nodes. <i>Journal of Immunological Methods</i> , 2016 , 431, 1-10	2.5	23
72	Geometric Morphometrics on Gene Expression Patterns Within Phenotypes: A Case Example on Limb Development. <i>Systematic Biology</i> , 2016 , 65, 194-211	8.4	11
71	High-throughput mathematical analysis identifies Turing networks for patterning with equally diffusing signals. <i>ELife</i> , 2016 , 5,	8.9	72
70	A Local, Self-Organizing Reaction-Diffusion Model Can Explain Somite Patterning in Embryos. <i>Cell Systems</i> , 2015 , 1, 257-69	10.6	53
69	Data-driven modelling of a gene regulatory network for cell fate decisions in the growing limb bud. <i>Molecular Systems Biology</i> , 2015 , 11, 815	12.2	29
68	Decrease in Cell Volume Generates Contractile Forces Driving Dorsal Closure. <i>Developmental Cell</i> , 2015 , 33, 611-21	10.2	69
67	Positional information and reaction-diffusion: two big ideas in developmental biology combine. <i>Development (Cambridge)</i> , 2015 , 142, 1203-11	6.6	221
66	Dynamics of gene circuits shapes evolvability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2103-8	11.5	31
65	A shift in anterior-posterior positional information underlies the fin-to-limb evolution. <i>ELife</i> , 2015 , 4,	8.9	38
64	Design principles of stripe-forming motifs: the role of positive feedback. <i>Scientific Reports</i> , 2014 , 4, 5003	4.9	14
63	Immobilized chicks as a model system for early-onset developmental dysplasia of the hip. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 777-85	3.8	39
62	Joint shape morphogenesis precedes cavitation of the developing hip joint. <i>Journal of Anatomy</i> , 2014 , 224, 482-9	2.9	19
61	Developmental biology: Cells unite by trapping a signal. <i>Nature</i> , 2014 , 515, 41-2	50.4	
60	OPTiSPIM: integrating optical projection tomography in light sheet microscopy extends specimen characterization to nonfluorescent contrasts. <i>Optics Letters</i> , 2014 , 39, 1053-6	3	35
59	A unified design space of synthetic stripe-forming networks. <i>Nature Communications</i> , 2014 , 5, 4905	17.4	80

58	ESCRT-II/Vps25 constrains digit number by endosome-mediated selective modulation of FGF-SHH signaling. <i>Cell Reports</i> , 2014 , 9, 674-87	10.6	8
57	On the concept of mechanism in development 2014 , 56-78		23
56	Senescence is a developmental mechanism that contributes to embryonic growth and patterning. <i>Cell</i> , 2013 , 155, 1119-30	56.2	657
55	Naive B-cell trafficking is shaped by local chemokine availability and LFA-1-independent stromal interactions. <i>Blood</i> , 2013 , 121, 4101-9	2.2	28
54	A GDF5 point mutation strikes twice--causing BDA1 and SYNS2. <i>PLoS Genetics</i> , 2013 , 9, e1003846	6	28
53	Near infrared optical projection tomography for assessments of cell mass distribution in diabetes research. <i>Journal of Visualized Experiments</i> , 2013 , e50238	1.6	28
52	Mechanistic explanations for restricted evolutionary paths that emerge from gene regulatory networks. <i>PLoS ONE</i> , 2013 , 8, e61178	3.7	8
51	Intravital imaging of hair-cell development and regeneration in the zebrafish. <i>Frontiers in Neuroanatomy</i> , 2013 , 7, 33	3.6	15
50	Image processing assisted algorithms for optical projection tomography. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1-15	11.7	38
49	Hox genes regulate digit patterning by controlling the wavelength of a Turing-type mechanism. <i>Science</i> , 2012 , 338, 1476-80	33.3	247
48	Turing patterns in development: what about the horse part?. <i>Current Opinion in Genetics and Development</i> , 2012 , 22, 578-84	4.9	62
47	A global "imaging" view on systems approaches in immunology. <i>European Journal of Immunology</i> , 2012 , 42, 3116-25	6.1	26
46	Quantitative measurements in 3-dimensional datasets of mouse lymph nodes resolve organ-wide functional dependencies. <i>Computational and Mathematical Methods in Medicine</i> , 2012 , 2012, 128431	2.8	13
45	Image formation by linear and nonlinear digital scanned light-sheet fluorescence microscopy with Gaussian and Bessel beam profiles. <i>Biomedical Optics Express</i> , 2012 , 3, 1492-505	3.5	58
44	In-silico organogenesis: measuring and modelling vertebrate limb development. <i>FASEB Journal</i> , 2012 , 26, 337.3	0.9	
43	Two ways to use imaging: focusing directly on mechanism, or indirectly via behaviour?. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 523-9	4.9	4
42	Budding behaviors: Growth of the limb as a model of morphogenesis. <i>Developmental Dynamics</i> , 2011 , 240, 1054-62	2.9	39
41	Control of pelvic girdle development by genes of the Pbx family and Emx2. <i>Developmental Dynamics</i> , 2011 , 240, 1173-89	2.9	22

40	A landmark-free morphometric staging system for the mouse limb bud. <i>Development (Cambridge)</i> , 2011 , 138, 1227-34	6.6	25
39	N-myc controls proliferation, morphogenesis, and patterning of the inner ear. <i>Journal of Neuroscience</i> , 2011 , 31, 7178-89	6.6	44
38	Optical projection tomography of vertebrate embryo development. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 586-94	1.2	19
37	A computational clonal analysis of the developing mouse limb bud. <i>PLoS Computational Biology</i> , 2011 , 7, e1001071	5	25
36	Preparation of mouse embryos for optical projection tomography imaging. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 664-9	1.2	17
35	Scapula development is governed by genetic interactions of Pbx1 with its family members and with Emx2 via their cooperative control of Alx1. <i>Development (Cambridge)</i> , 2010 , 137, 2559-69	6.6	53
34	Quantification and three-dimensional imaging of the insulinitis-induced destruction of beta-cells in murine type 1 diabetes. <i>Diabetes</i> , 2010 , 59, 1756-64	0.9	70
33	The role of spatially controlled cell proliferation in limb bud morphogenesis. <i>PLoS Biology</i> , 2010 , 8, e1000420	9.7	143
32	An atlas of gene regulatory networks reveals multiple three-gene mechanisms for interpreting morphogen gradients. <i>Molecular Systems Biology</i> , 2010 , 6, 425	12.2	124
31	Mechanobiology of embryonic skeletal development: Insights from animal models. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2010 , 90, 203-13		109
30	Clonal analysis in mice underlines the importance of rhombomeric boundaries in cell movement restriction during hindbrain segmentation. <i>PLoS ONE</i> , 2010 , 5, e10112	3.7	28
29	Genetic background influences embryonic lethality and the occurrence of neural tube defects in Men1 null mice: relevance to genetic modifiers. <i>Journal of Endocrinology</i> , 2009 , 203, 133-42	4.7	36
28	Gene expression analysis of canonical Wnt pathway transcriptional regulators during early morphogenesis of the facial region in the mouse embryo. <i>Gene Expression Patterns</i> , 2009 , 9, 296-305	1.5	12
27	Evidence that Fgf10 contributes to the skeletal and visceral defects of an Apert syndrome mouse model. <i>Developmental Dynamics</i> , 2009 , 238, 376-85	2.9	38
26	Live optical projection tomography. <i>Organogenesis</i> , 2009 , 5, 211-6	1.7	37
25	Optical Projection Tomography 2009 , 199-224		2
24	In vitro whole-organ imaging: 4D quantification of growing mouse limb buds. <i>Nature Methods</i> , 2008 , 5, 609-12	21.6	72
23	3D representation of Wnt and Frizzled gene expression patterns in the mouse embryo at embryonic day 11.5 (Ts19). <i>Gene Expression Patterns</i> , 2008 , 8, 331-48	1.5	67

22	Localization and fate of Fgf10-expressing cells in the adult mouse brain implicate Fgf10 in control of neurogenesis. <i>Molecular and Cellular Neurosciences</i> , 2008 , 37, 857-68	4.8	37
21	High-resolution three-dimensional imaging of islet-infiltrate interactions based on optical projection tomography assessments of the intact adult mouse pancreas. <i>Journal of Biomedical Optics</i> , 2008 , 13, 054070	3.5	41
20	Fluorescence lifetime optical projection tomography. <i>Journal of Biophotonics</i> , 2008 , 1, 390-4	3.1	33
19	FishNet: an online database of zebrafish anatomy. <i>BMC Biology</i> , 2007 , 5, 34	7.3	47
18	Tomographic molecular imaging and 3D quantification within adult mouse organs. <i>Nature Methods</i> , 2007 , 4, 31-3	21.6	152
17	Cell tracing reveals a dorsoventral lineage restriction plane in the mouse limb bud mesenchyme. <i>Development (Cambridge)</i> , 2007 , 134, 3713-22	6.6	55
16	Resolution improvement in emission optical projection tomography. <i>Physics in Medicine and Biology</i> , 2007 , 52, 2775-90	3.8	67
15	Three-dimensional imaging of <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2007 , 2, e834	3.7	54
14	Spleen versus pancreas: strict control of organ interrelationship revealed by analyses of Bapx1 ^{-/-} mice. <i>Genes and Development</i> , 2006 , 20, 2208-13	12.6	60
13	Visualizing plant development and gene expression in three dimensions using optical projection tomography. <i>Plant Cell</i> , 2006 , 18, 2145-56	11.6	113
12	3D modelling, gene expression mapping and post-mapping image analysis in the developing human brain. <i>Brain Research Bulletin</i> , 2005 , 66, 449-53	3.9	24
11	Correction of artefacts in optical projection tomography. <i>Physics in Medicine and Biology</i> , 2005 , 50, 4645-58	3.8	75
10	3 dimensional modelling of early human brain development using optical projection tomography. <i>BMC Neuroscience</i> , 2004 , 5, 27	3.2	56
9	Optical projection tomography. <i>Annual Review of Biomedical Engineering</i> , 2004 , 6, 209-28	12	136
8	EMAP and EMAGE: a framework for understanding spatially organized data. <i>Neuroinformatics</i> , 2003 , 1, 309-25	3.2	95
7	Optical projection tomography as a new tool for studying embryo anatomy. <i>Journal of Anatomy</i> , 2003 , 202, 175-81	2.9	124
6	Optical projection tomography as a tool for 3D microscopy and gene expression studies. <i>Science</i> , 2002 , 296, 541-5	33.3	897
5	3D confocal reconstruction of gene expression in mouse. <i>Mechanisms of Development</i> , 2001 , 100, 59-63	1.7	40

4	Identification of sonic hedgehog as a candidate gene responsible for the polydactylous mouse mutant Sasquatch. <i>Current Biology</i> , 1999 , 9, 97-100	6.3	115
3	Reprogramming Hox expression in the vertebrate hindbrain: influence of paraxial mesoderm and rhombomere transposition. <i>Neuron</i> , 1996 , 16, 487-500	13.9	176
2	Other Organs311-332		
1	Cellular mechanisms of chick limb bud morphogenesis		1