Wolfgang J Weninger

List of Publications by Year
in descending order

134 papers	4,654 citations	172457 29 h-index	128289 60 g-index
139 all docs	139 docs citations	139 times ranked	7755 citing authors

#	Article	IF	Citations
1	High-throughput discovery of novel developmental phenotypes. Nature, 2016, 537, 508-514.	27.8	1,001
2	Placentation defects are highly prevalent in embryonic lethal mouse mutants. Nature, 2018, 555, 463-468.	27.8	287
3	The dynamic anatomy and patterning of skin. Experimental Dermatology, 2016, 25, 92-98.	2.9	231
4	Osteoclasts recycle via osteomorphs during RANKL-stimulated bone resorption. Cell, 2021, 184, 1330-1347.e13.	28.9	203
5	High-resolution episcopic microscopy: a rapid technique for high detailed 3D analysis of gene activity in the context of tissue architecture and morphology. Anatomy and Embryology, 2006, 211, 213-221.	1.5	147
6	Folic acid prevents exencephaly in Cited2 deficient mice. Human Molecular Genetics, 2002, 11, 283-293.	2.9	145
7	SARS-CoV-2 mutations in MHC-I-restricted epitopes evade CD8 ⁺ T cell responses. Science Immunology, 2021, 6, .	11.9	143
8	The Morphology of Heart Development in Xenopus laevis. Developmental Biology, 2000, 218, 74-88.	2.0	116
9	Cited2is required both for heart morphogenesis and establishment of the left-right axis in mouse development. Development (Cambridge), 2005, 132, 1337-1348.	2.5	113
10	External marker-based automatic congruencing: A new method of 3D reconstruction from serial sections. The Anatomical Record, 1997, 248, 583-602.	1.8	89
11	An Atypical Parvovirus Drives Chronic Tubulointerstitial Nephropathy and Kidney Fibrosis. Cell, 2018, 175, 530-543.e24.	28.9	89
12	The Extracellular Matrix in Skin Inflammation and Infection. Frontiers in Cell and Developmental Biology, 2021, 9, 682414.	3.7	84
13	Imaging heart development using high-resolution episcopic microscopy. Current Opinion in Genetics and Development, 2011, 21, 573-578.	3.3	83
14	Expression of inducible nitric oxide synthase in human breast cancer depends on tumor grade. Breast Cancer Research and Treatment, 1999, 56, 143-149.	2.5	68
15	Deciphering the Mechanisms of Developmental Disorders (DMDD): a new programme for phenotyping embryonic lethal mice. DMM Disease Models and Mechanisms, 2013, 6, 562-6.	2.4	65
16	Correlated Multimodal Imaging in Life Sciences: Expanding the Biomedical Horizon. Frontiers in Physics, 2020, 8, .	2.1	61
17	Embedding Embryos for High-Resolution Episcopic Microscopy (HREM). Cold Spring Harbor Protocols, 2012, 2012, pdb.prot069583.	0.3	54
18	Comparative study of regenerative effects of mesenchymal stem cells derived from placental amnion, chorion and umbilical cord on dermal wounds. Placenta, 2018, 65, 37-46.	1.5	46

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19	ÂµMRIâ€“HREM pipeline for highâ€throughput, highâ€resolution phenotyping of murine embryos. Journal of Anatomy, 2007, 211, 132-137.	1.5	45
20	Dual modality optical coherence and whole-body photoacoustic tomography imaging of chick embryos in multiple development stages. Biomedical Optics Express, 2014, 5, 3150.	2.9	43
21	A Specific CNOT1 Mutation Results in a Novel Syndrome of Pancreatic Agenesis and Holoprosencephaly through Impaired Pancreatic and Neurological Development. American Journal of Human Genetics, 2019, 104, 985-989.	6.2	43
22	A coming of age: advanced imaging technologies for characterising the developing mouse. Trends in Genetics, 2013, 29, 700-711.	6.7	42
23	Three-Dimensional Analysis of Molecular Signals with Episcopic Imaging Techniques. , 2007, 411, 35-46.		41
24	Visualizing Vertebrate Embryos with Episcopic 3D Imaging Techniques. Scientific World Journal, The, 2009, 9, 1423-1437.	2.1	41
25	Phenotyping structural abnormalities in mouse embryos using high-resolution episcopic microscopy. DMM Disease Models and Mechanisms, 2014, 7, 1143-1152.	2.4	41
26	A discrete subset of epigenetically primed human NK cells mediates antigen-specific immune responses. Science Immunology, 2020, 5, .	11.9	38
27	Superficial Circumflex Iliac Artery Perforator Flap: An Anatomical Study of the Correlation of the Superficial and the Deep Branches of the Artery and Evaluation of Perfusion from the Deep Branch to the Sartorius Muscle and the Iliac Bone. Plastic and Reconstructive Surgery, 2019, 143, 589-602.	1.4	35
28	The parasellar region of human infants: cavernous sinus topography and surgical approaches. Journal of Neurosurgery, 1999, 90, 484-490.	1.6	33
29	Surgical anatomy of the vascularized submental lymph node flap: Anatomic study of correlation of submental artery perforators and quantity of submental lymph node. Journal of Surgical Oncology, 2017, 115, 54-59.	1.7	32
30	Risk for development of inflammatory bowel disease under inhibition of interleukin 17: A systematic review and meta-analysis. PLoS ONE, 2020, 15, e0233781.	2.5	32
31	Episcopic Three-Dimensional Imaging of Embryos. Cold Spring Harbor Protocols, 2012, 2012, pdb.top069567.	0.3	31
32	Generation of Volume Data by Episcopic Three-Dimensional Imaging of Embryos: Figure 1.. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot069591.	0.3	29
33	Highly variable penetrance of abnormal phenotypes in embryonic lethal knockout mice. Wellcome Open Research, 2016, 1, 1.	1.8	29
34	The dermal arteries of the human thumb pad. Journal of Anatomy, 2013, 223, 603-609.	1.5	28
35	Single-Cell RNA Sequencing Reveals Tissue Compartment-Specific Plasticity of Mycosis Fungoides Tumor Cells. Frontiers in Immunology, 2021, 12, 666935.	4.8	27
36	Measurements of the diameters of the great arteries and semiâ€lunar valves of chick and mouse embryos. Journal of Microscopy, 2009, 234, 173-190.	1.8	26

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37	The surgical anatomy of the vascularized lateral thoracic artery lymph node flapâ€"A cadaver study. Journal of Surgical Oncology, 2017, 116, 1062-1068.	1.7	26
38	The surgical anatomy of the supraclavicular lymph node flap: A basis for the free vascularized lymph node transfer. Journal of Surgical Oncology, 2017, 115, 60-62.	1.7	26
39	DNA methylation signature of chronic low-grade inflammation and its role in cardio-respiratory diseases. Nature Communications, 2022, 13, 2408.	12.8	26
40	Anatomical compartments of the parasellar region: adipose tissue bodies represent intracranial continuations of extracranial spaces. Journal of Anatomy, 1997, 191, 269-275.	1.5	25
41	High-resolution Episcopic Microscopy (HREM) - Simple and Robust Protocols for Processing and Visualizing Organic Materials. Journal of Visualized Experiments, 2017, , .	0.3	25
42	A staging system for correct phenotype interpretation of mouse embryos harvested on embryonic day 14 (E14.5). Journal of Anatomy, 2017, 230, 710-719.	1.5	24
43	Single-cell RNA sequencing reveals markers of disease progression in primary cutaneous T-cell lymphoma. Molecular Cancer, 2021, 20, 124.	19.2	24
44	Some Mice Feature 5th Pharyngeal Arch Arteries and Double-Lumen Aortic Arch Malformations. Cells Tissues Organs, 2012, 196, 90-98.	2.3	23
45	Imaging the Zebrafish Dentition: From Traditional Approaches to Emerging Technologies. Zebrafish, 2015, 12, 1-10.	1.1	23
46	Intimal Hyperplasia of the Infant Parasellar Carotid Artery. Circulation Research, 1999, 85, 970-975.	4.5	22
47	Delayed antiretroviral therapy in HIV-infected individuals leads to irreversible depletion of skin- and mucosa-resident memory TÃcells. Immunity, 2021, 54, 2842-2858.e5.	14.3	22
48	High-Resolution Episcopic Microscopy (HREM): A Tool for Visualizing Skin Biopsies. Microscopy and Microanalysis, 2014, 20, 1356-1364.	0.4	21
49	Episcopic 3D Imaging Methods: Tools for Researching Gene Function. Current Genomics, 2008, 9, 282-289.	1.6	20
50	Visualising the Cardiovascular System of Embryos of Biomedical Model Organisms with High Resolution Episcopic Microscopy (HREM). Journal of Cardiovascular Development and Disease, 2018, 5, 58.	1.6	20
51	Vascular territories of the medial upper armâ€"an anatomic study of the vascular basis for individualized flap design. Microsurgery, 2017, 37, 618-623.	1.3	19
52	Use of the transverse branch of the superficial circumflex iliac artery as a landmark facilitating identification and dissection of the deep branch of the superficial circumflex iliac artery for free flap pedicle: Anatomical study and clinical applications. Microsurgery, 2019, 39, 721-729.	1.3	18
53	Morphology, topology and dimensions of the heart and arteries of genetically normal and mutant mouse embryos at stages S21â€"S23. Journal of Anatomy, 2017, 231, 600-614.	1.5	17
54	Î±Î²Î³Î´ T cells play a vital role in fetal human skin development and immunity. Journal of Experimental Medicine, 2021, 218, .	8.5	17

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55	Objective characterization of the course of the parasellar internal carotid artery using mathematical tools. Surgical and Radiologic Anatomy, 2008, 30, 519-526.	1.2	16
56	Common and distinct transcriptional signatures of mammalian embryonic lethality. Nature Communications, 2019, 10, 2792.	12.8	16
57	The intraspinal arterial collateral network: a new anatomical basis for understanding and preventing paraplegia during aortic repair. European Journal of Cardio-thoracic Surgery, 2021, 59, 137-144.	1.4	16
58	Highly variable penetrance of abnormal phenotypes in embryonic lethal knockout mice. Wellcome Open Research, 0, 1, 1.	1.8	16
59	High-Resolution Episcopic Microscopy Data-Based Measurements of the Arteries of Mouse Embryos: Evaluation of Significance and Reproducibility under Routine Conditions. Cells Tissues Organs, 2012, 195, 524-534.	2.3	15
60	Anatomical and ultrasound correlation of the superficial branch of the radial nerve. Muscle and Nerve, 2014, 50, 939-942.	2.2	15
61	High-resolution episcopic microscopy (HREM): A useful technique for research in wound care. Annals of Anatomy, 2015, 197, 3-10.	1.9	15
62	Ultrasound of the Hypoglossal Nerve in the Neck: Visualization and Initial Clinical Experience with Patients. American Journal of Neuroradiology, 2016, 37, 354-359.	2.4	14
63	High-Resolution Episcopic Microscopy (HREM): Looking Back on 13 Years of Successful Generation of Digital Volume Data of Organic Material for 3D Visualisation and 3D Display. Applied Sciences (Switzerland), 2019, 9, 3826.	2.5	14
64	Threeâ€dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. Journal of Anatomy, 2008, 212, 636-644.	1.5	13
65	Simultaneous dermal matrix and autologous splitâ€thickness skin graft transplantation in a porcine wound model: A threeâ€dimensional histological analysis of revascularization. Wound Repair and Regeneration, 2014, 22, 749-754.	3.0	13
66	Axon numbers and landmarks of trigeminal donor nerves for corneal neurotization. PLoS ONE, 2018, 13, e0206642.	2.5	13
67	Risk of Damaging Anatomical Structures During Minimally Invasive Hallux Valgus Correction (BÃ¶sch) Tj ETQq1 1 0.784314 rgBT /Ove	2.3	13
68	Cutaneous Immune Cell-Microbiota Interactions Are Controlled by Epidermal JunB/AP-1. Cell Reports, 2019, 29, 844-859.e3.	6.4	13
69	Compartments of the adult parasellar region. Journal of Anatomy, 2000, 197, 681-686.	1.5	12
70	Longitudinal Gliding of the Median Nerve in the Carpal Tunnel: Ultrasound Cadaveric Evaluation of Conventional and Novel Concepts of Nerve Mobilization. Archives of Physical Medicine and Rehabilitation, 2015, 96, 2207-2213.	0.9	12
71	Ultrasound and anatomical correlation of the radial nerve at the arcade of Frohse. Muscle and Nerve, 2015, 51, 853-858.	2.2	12
72	The Spinal Accessory Nerve for Functional Muscle Innervation in Facial Reanimation Surgery. Annals of Plastic Surgery, 2016, 77, 640-644.	0.9	12

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73	The dermal arteries in the cutaneous angiosome of the descending genicular artery. Journal of Anatomy, 2018, 232, 979-986.	1.5	12
74	The vascularized fascia lata free flap: an anatomical study and clinical considerations. European Archives of Oto-Rhino-Laryngology, 2020, 277, 1733-1739.	1.6	12
75	Ret finger protein inhibits muscle differentiation by modulating serum response factor and enhancer of polycomb1. Cell Death and Differentiation, 2012, 19, 121-131.	11.2	11
76	Metric characterization of the aortic arch of early mouse fetuses and of a fetus featuring a double lumen aortic arch malformation. Annals of Anatomy, 2013, 195, 175-182.	1.9	11
77	Platysma Motor Nerve Transfer for Restoring Marginal Mandibular Nerve Function. Plastic and Reconstructive Surgery - Global Open, 2016, 4, e1164.	0.6	11
78	The Col4a2 em1(IMPC)Wtsi mouse line â€“ lessons from the deciphering the mechanisms of developmental disorders (DMDD) program. Biology Open, 2019, 8, .	1.2	11
79	High-Resolution Episcopic Imaging for Visualization of Dermal Arteries and Nerves of the Auricular Cymba Conchae in Humans. Frontiers in Neuroanatomy, 2020, 14, 22.	1.7	11
80	Bayesian inversion for electrical-impedance tomography in medical imaging using the nonlinear Poissonâ€“Boltzmann equation. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 112959.	6.6	11
81	No functional TRPA1 in cardiomyocytes. Acta Physiologica, 2021, 232, e13659.	3.8	10
82	Three-Dimensional (3D) Visualisation of the Cardiovascular System of Mouse Embryos and Fetus. The Open Cardiovascular Imaging Journal, 2009, 1, 1-12.	0.3	10
83	Ultrasound-Guided Perineural Injection at Guyon's Tunnel: An Anatomic Feasibility Study. Ultrasound in Medicine and Biology, 2015, 41, 2119-2124.	1.5	9
84	RAB27A/Melanophilin Blocker Inhibits MelanomaÂCell Motility and Invasion. Journal of Investigative Dermatology, 2020, 140, 1470-1473.e3.	0.7	9
85	In vivo 3D analysis of the adipose tissue in the orbital apex and the compartments of the parasellar region. Clinical Anatomy, 2004, 17, 112-117.	2.7	8
86	A Head-to-Head Comparison of the Vascular Basis of the Transverse Myocutaneous Gracilis, Profunda Artery Perforator, and Fasciocutaneous Infragluteal Flaps. Plastic and Reconstructive Surgery, 2019, 143, 381-390.	1.4	8
87	Cutaneous angiosome of the chimeric SLGA perforator flap: Anatomical study and clinical considerations. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2019, 72, 1142-1149.	1.0	8
88	Mast cell granules: Modulating adaptive immune response remotely. Journal of Allergy and Clinical Immunology, 2019, 143, 1731-1733.	2.9	8
89	Smooth Muscle Specific Ablation of CXCL12 in Mice Downregulates CXCR7 Associated with Defective Coronary Arteries and Cardiac Hypertrophy. International Journal of Molecular Sciences, 2021, 22, 5908.	4.1	8
90	Cutaneous manifestations of SARS-CoV-2: A 2-center, prospective, case-controlled study. Journal of the American Academy of Dermatology, 2021, 85, 202-204.	1.2	8

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91	The venous system of E14.5 mouse embryosâ€"reference data and examples for diagnosing malformations in embryos with gene deletions. Journal of Anatomy, 2022, 240, 11-22.	1.5	8
92	Feasibility of Bone Perfusion Evaluation in Cadavers Using Indocyanine Green Fluorescence Angiography. Plastic and Reconstructive Surgery - Global Open, 2017, 5, e1570.	0.6	7
93	Anatomical Study of a Chimeric Fascio-Osteomyocutaneous Fibula Flap for Free Microvascular Tissue Transfer. Journal of Reconstructive Microsurgery, 2019, 35, 438-444.	1.8	7
94	The correlation of the perforators and the accessory saphenous vein in a profunda femoris artery perforator flap for additional venous anastomosis: A cadaveric study and clinical application. Microsurgery, 2020, 40, 200-206.	1.3	7
95	Cross-Modality Imaging of Murine Tumor Vasculatureâ€"a Feasibility Study. Molecular Imaging and Biology, 2021, 23, 874-893.	2.6	7
96	High-Resolution Episcopic Microscopy (HREM) in Multimodal Imaging Approaches. Biomedicines, 2021, 9, 1918.	3.2	7
97	Distribution and threeâ€dimensional appearance of the interstitial cells of Cajal in the rat stomach and duodenum. Microscopy Research and Technique, 2009, 72, 951-956.	2.2	6
98	A Chick Embryo With a yet Unclassified Type of Cephalothoracopagus Malformation and a Hypothesis for Explaining its Genesis. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2013, 42, 191-200.	0.7	6
99	Treatment of Cervicofacial Lymphaticovenous Malformation with Vascularized Lymph Node Transfer. Plastic and Reconstructive Surgery, 2018, 142, 425e-426e.	1.4	6
100	Hypoglossal Nerve Abnormalities as Biomarkers for Central Nervous System Defects in Mouse Lines Producing Embryonically Lethal Offspring. Frontiers in Neuroanatomy, 2021, 15, 625716.	1.7	6
101	Embedding Embryos for Episcopic Fluorescence Image Capturing (EFIC). Cold Spring Harbor Protocols, 2012, 2012, pdb.prot069575.	0.3	5
102	Visualization of Skin Perfusion by Indocyanine Green Fluorescence Angiographyâ€"A Feasibility Study. Plastic and Reconstructive Surgery - Global Open, 2017, 5, e1455.	0.6	5
103	A reliable technique for ultrasound-guided perineural injection in ulnar neuropathy at the elbow. Muscle and Nerve, 2017, 56, 237-241.	2.2	5
104	In-Silico Ear Model Based on Episcopic Images for Percutaneous Auricular Vagus Nerve Stimulation. , 2018, , .		5
105	Sacral preauricular extensions, notches, and corresponding iliac changes: New terms and the proposal of a recording system. International Journal of Osteoarchaeology, 2019, 29, 1013-1021.	1.2	5
106	Multimodality imaging beyond CLEM: Showcases of combined in-vivo preclinical imaging and ex-vivo microscopy to detect murine mural vascular lesions. Methods in Cell Biology, 2021, 162, 389-415.	1.1	5
107	Performing nasopharyngeal swabsâ€"Guidelines based on an anatomical study. Clinical Anatomy, 2021, 34, 969-975.	2.7	5
108	External markerâ€based automatic congruencing: A new method of 3D reconstruction from serial sections. The Anatomical Record, 1997, 248, 583-602.	1.8	5

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109	Artefacts in Volume Data Generated with High Resolution Episcopic Microscopy (HREM). Biomedicines, 2021, 9, 1711.	3.2	5
110	The embryogenesis of the equine femorotibial joint: The equine interzone. Equine Veterinary Journal, 2015, 47, 620-622.	1.7	4
111	Design of skin islands for a myocutaneous serratus anterior free flapâ€"An anatomical study and clinical implication for pharyngeal reconstruction after laryngopharyngectomy. Clinical Otolaryngology, 2019, 44, 227-234.	1.2	4
112	Amelanotic B16-F10 Melanoma Compatible with Advanced Three-Dimensional Imaging Modalities. Journal of Investigative Dermatology, 2021, 141, 2090-2094.e6.	0.7	4
113	Laparoscopic Sacral Mesh Fixation for Ventral Rectopexy: Clinical Implications From a Cadaver Study. Diseases of the Colon and Rectum, 2022, 65, 750-757.	1.3	4
114	Cutaneous signs and mechanisms of inflammasomopathies. Annals of the Rheumatic Diseases, 2022, 81, 454-465.	0.9	4
115	The use of Keratinocytes: Things we should keep in mind!. European Surgery - Acta Chirurgica Austriaca, 2013, 45, 154-160.	0.7	3
116	Oculoâ€zygomatic nerve transfer for facial synkinesis: An anatomical feasibility study. Microsurgery, 2019, 39, 629-633.	1.3	3
117	Serratus anterior muscle free flap for endoscopic reconstruction of large and complex skullâ€base defects. International Forum of Allergy and Rhinology, 2022, 12, 124-127.	2.8	3
118	High Resolution Episcopic Microscopy â€“ Current Applications. Current Biotechnology, 2012, 1, 281-286.	0.4	3
119	A histological comparison of non-human rib models suited for sharp force trauma analysis. Forensic Science International, 2021, 319, 110661.	2.2	2
120	Anatomical Features in Lower-Lip Depressor Muscles for Optimization of Myectomies in Marginal Mandibular Nerve Palsy. Journal of Craniofacial Surgery, 2021, 32, 2230-2232.	0.7	2
121	Dimensions of the Great Intrathoracic Arteries of Early Mouse Fetuses of the C57BL/6 Strain. The Open Anatomy Journal, 2012, 4, 1-6.	0.5	2
122	Sacral preauricular extensions and notches as parts of a â€˜Pelvic Patternâ€™ may provide information on past pregnancies and parturitions. Anthropologischer Anzeiger, 2022, 79, 183-198.	0.4	2
123	Models in researching cardiovascular morphogenesis. Birth Defects Research Part C: Embryo Today Reviews, 2012, 96, 163-175.	3.6	1
124	Deciphering the Mechanisms of Developmental Heart Disease: Research from Embryonic Knockout Mice. , 2019, , 133-145.		1
125	Hypopyon sign as an unusual complication of varicella infection in aÂgirl with atopic dermatitis. Wiener Medizinische Wochenschrift, 2021, 171, 61-64.	1.1	1
126	Cubital tunnel perfusion in different posturesâ€"An anatomical investigation. Muscle and Nerve, 2021, 64, 749-754.	2.2	1

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127	Visualizing 3D Embryo and Tissue Morphologyâ€"A Decade of Using High-Resolution Episcopic Microscopy (HREM) in Biomedical Imaging. Biomedicines, 2022, 10, 1123.	3.2	1
128	Imaging Cardiac Developmental Malformations in the Mouse Embryo. , 2010, , 779-791.		0
129	Effects and risks of performing a single incision endoscopic plantar fasciotomy â€" An anatomical study. Foot and Ankle Surgery, 2021, , .	1.7	0
130	Angiosomes of the Ulnar Nerve at the Elbow: A Cadaver Trial Using Contrast-Enhanced Ultrasound. Ultrasound in Medicine and Biology, 2021, 47, 3393-3402.	1.5	0
131	Author reply. Journal of Anatomy, 2021, , .	1.5	0
132	Embryonic Development of theÂCardiovascular System. Learning Materials in Biosciences, 2019, , 113-129.	0.4	0
133	From experimental imaging techniques to virtual embryology. History and Philosophy of the Life Sciences, 2004, 26, 355-75.	1.1	0
134	Ultrasound-Guided Injections at the Lateral Femoral Cutaneous Nerve: The Inguinal Ligament as a Barrier. Pain Physician, 2020, 23, E363-E368.	0.4	0