Uwe Straehle

List of Publications by Year
in descending order

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Version: 2024-02-01

76	2,961	236833	189801
papers	citations	25 h-index	50 g-index

85	85	85	4822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface functionalisation-dependent adverse effects of metal nanoparticles and nanoplastics in zebrafish embryos. Environmental Science: Nano, 2022, 9, 375-392.	2.2	10
2	Methylmercury-induced hair cell loss requires hydrogen peroxide production and leukocytes in zebrafish embryos. Toxicology Letters, 2022, 356, 151-160.	0.4	3
3	Loss of the Bardet-Biedl protein Bbs1 alters photoreceptor outer segment protein and lipid composition. Nature Communications, 2022, 13, 1282.	5.8	20
4	Mandipropamid as a chemical inducer of proximity for in vivo applications. Nature Chemical Biology, 2022, 18, 64-69.	3.9	15
5	In Vivo Behavior of the Antibacterial Peptide Cyclo[RRRWFW], Explored Using a 3-Hydroxychromone-Derived Fluorescent Amino Acid. Frontiers in Chemistry, 2021, 9, 688446.	1.8	6
6	NovelIQCEvariations confirm its role in postaxial polydactyly and cause ciliary defect phenotype in zebrafish. Human Mutation, 2020, 41, 240-254.	1.1	5
7	Differential Nanoparticle Sequestration by Macrophages and Scavenger Endothelial Cells Visualized in Vivo in Real-Time and at Ultrastructural Resolution. ACS Nano, 2020, 14, 1665-1681.	7.3	62
8	Gene duplication and functional divergence of the zebrafish otospiralin genes. Development Genes and Evolution, 2020, 230, 27-36.	0.4	0
9	Toxicity of mercury: Molecular evidence. Chemosphere, 2020, 245, 125586.	4.2	199
10	The Genetic Programs Specifying Kolmerâ€“Agduhr Interneurons. Frontiers in Neuroscience, 2020, 14, 577879.	1.4	11
11	Pcdh18a regulates endocytosis of E-cadherin during axial mesoderm development in zebrafish. Histochemistry and Cell Biology, 2020, 154, 463-480.	0.8	6
12	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. PLoS Genetics, 2020, 16, e1008774.	1.5	29
13	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. , 2020, 16, e1008774.		0
14	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. , 2020, 16, e1008774.		0
15	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. , 2020, 16, e1008774.		0
16	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. , 2020, 16, e1008774.		0
17	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. , 2020, 16, e1008774.		0
18	Pax6 organizes the anterior eye segment by guiding two distinct neural crest waves. , 2020, 16, e1008774.		0

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19	Functions of thioredoxin1 in brain development and in response to environmental chemicals in zebrafish embryos. Toxicology Letters, 2019, 314, 43-52.	0.4	5
20	Expression of adiponectin receptors in the brain of adult zebrafish and mouse: Links with neurogenic niches and brain repair. Journal of Comparative Neurology, 2019, 527, 2317-2333.	0.9	21
21	Automated Classification of Fertilized Zebrafish Embryos. Zebrafish, 2019, 16, 326-328.	0.5	6
22	The HMG box transcription factors Sox1a and b specify a new class of glycinergic interneurons in the spinal cord of zebrafish embryos. Development (Cambridge), 2019, 146, .	1.2	20
23	Supreme activity of gramicidin S against resistant, persistent and biofilm cells of staphylococci and enterococci. Scientific Reports, 2019, 9, 17938.	1.6	30
24	Oriented immobilization of a delicate glucose-sensing protein on silica nanoparticles. Biomaterials, 2019, 190-191, 76-85.	5.7	12
25	Loss of zebrafish Smyd1a interferes with myofibrillar integrity without triggering the misfolded myosin response. Biochemical and Biophysical Research Communications, 2018, 496, 339-345.	1.0	7
26	Zebrafish: A Pharmacogenetic Model for Anesthesia. Methods in Enzymology, 2018, 602, 189-209.	0.4	8
27	Fishing for contaminants: identification of three mechanism specific transcriptome signatures using Danio rerio embryos. Environmental Science and Pollution Research, 2018, 25, 4023-4036.	2.7	6
28	Mutation of a serine near the catalytic site of the choline acetyltransferase a gene almost completely abolishes motility of the zebrafish embryo. PLoS ONE, 2018, 13, e0207747.	1.1	9
29	An automated screening method for detecting compounds with goitrogenic activity using transgenic zebrafish embryos. PLoS ONE, 2018, 13, e0203087.	1.1	26
30	EmbryoMiner: A new framework for interactive knowledge discovery in large-scale cell tracking data of developing embryos. PLoS Computational Biology, 2018, 14, e1006128.	1.5	33
31	Intrinsically Fluorescent, Stealth Polypyrazoline Nanoparticles with Large Stokes Shift for In Vivo Imaging. Small, 2018, 14, e1801571.	5.2	25
32	Distinct amino acid motifs carrying multiple positive charges regulate membrane targeting of dysferlin and MG53. PLoS ONE, 2018, 13, e0202052.	1.1	9
33	Neuronal sFlt1 and Vegfaa determine venous sprouting and spinal cord vascularization. Nature Communications, 2017, 8, 13991.	5.8	53
34	Female versus male biological identities of nanoparticles determine the interaction with immune cells in fish. Environmental Science: Nano, 2017, 4, 895-906.	2.2	31
35	Archiving of zebrafish lines can reduce animal experiments in biomedical research. EMBO Reports, 2017, 18, 1-2.	2.0	26
36	Microtome-integrated microscope system for high sensitivity tracking of in-resin fluorescence in blocks and ultrathin sections for correlative microscopy. Scientific Reports, 2017, 7, 13583.	1.6	6

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37	Tracking of Indels by DEcomposition is a Simple and Effective Method to Assess Efficiency of Guide RNAs in Zebrafish. Zebrafish, 2017, 14, 586-588.	0.5	21
38	Development of Bag-1L as a therapeutic target in androgen receptor-dependent prostate cancer. ELife, 2017, 6, .	2.8	32
39	Melanosomes in pigmented epithelia maintain eye lens transparency during zebrafish embryonic development. Scientific Reports, 2016, 6, 25046.	1.6	9
40	Zebrafish biosensor for toxicant induced muscle hyperactivity. Scientific Reports, 2016, 6, 23768.	1.6	20
41	Lmx1b is required for the glutamatergic fates of a subset of spinal cord neurons. Neural Development, 2016, 11, 16.	1.1	14
42	The in vitro PIG-A gene mutation assay: glycosylphosphatidylinositol (GPI)-related genotype-to-phenotype relationship in TK6 cells. Archives of Toxicology, 2016, 90, 1729-1736.	1.9	17
43	Generating semi-synthetic validation benchmarks for embryomics. , 2016, , .		12
44	The Tetraodon nigroviridis reference transcriptome: developmental transition, length retention and microsynteny of long non-coding RNAs in a compact vertebrate genome. Scientific Reports, 2016, 6, 33210.	1.6	14
45	Dysferlin-mediated phosphatidylserine sorting engages macrophages in sarcolemma repair. Nature Communications, 2016, 7, 12875.	5.8	61
46	Automation strategies for large-scale 3D image analysis. Automatisierungstechnik, 2016, 64, 555-566.	0.4	1
47	A compact unc45b â€promoter drives muscleâ€specific expression in zebrafish and mouse. Genesis, 2016, 54, 431-438.	0.8	4
48	Whole transcriptome data analysis of zebrafish mutants affecting muscle development. Data in Brief, 2016, 8, 61-68.	0.5	7
49	Maintenance of Zebrafish Lines at the European Zebrafish Resource Center. Zebrafish, 2016, 13, S-19-S-23.	0.5	25
50	HeRBi: Helmholtz Repository of Bioparts. Zebrafish, 2016, 13, 234-235.	0.5	1
51	Loss of function of myosin chaperones triggers Hsf1-mediated transcriptional response in skeletal muscle cells. Genome Biology, 2015, 16, 267.	3.8	27
52	Red Light-Regulated Reversible Nuclear Localization of Proteins in Mammalian Cells and Zebrafish. ACS Synthetic Biology, 2015, 4, 951-958.	1.9	105
53	Fold-change threshold screening: a robust algorithm to unmask hidden gene expression patterns in noisy aggregated transcriptome data. Environmental Science and Pollution Research, 2015, 22, 16384-16392.	2.7	4
54	An ensemble-averaged, cell density-based digital model of zebrafish embryo development derived from light-sheet microscopy data with single-cell resolution. Scientific Reports, 2015, 5, 8601.	1.6	44

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55	Long-range evolutionary constraints reveal cis-regulatory interactions on the human X chromosome. Nature Communications, 2015, 6, 6904.	5.8	31
56	Differential expression of id genes and their potential regulator znf238 in zebrafish adult neural progenitor cells and neurons suggests distinct functions in adult neurogenesis. Gene Expression Patterns, 2015, 19, 1-13.	0.3	30
57	Molecular Description of Eye Defects in the Zebrafish Pax6b Mutant, sunrise, Reveals a Pax6b-Dependent Genetic Network in the Developing Anterior Chamber. PLoS ONE, 2015, 10, e0117645.	1.1	32
58	Fast Segmentation of Stained Nuclei in Terabyte-Scale, Time Resolved 3D Microscopy Image Stacks. PLoS ONE, 2014, 9, e90036.	1.1	75
59	Impacts of Different Exposure Scenarios on Transcript Abundances in Danio rerio Embryos when Investigating the Toxicological Burden of Riverine Sediments. PLoS ONE, 2014, 9, e106523.	1.1	13
60	Two independent transcription initiation codes overlap on vertebrate core promoters. Nature, 2014, 507, 381-385.	13.7	182
61	Exome sequencing of Bardetâ€“Biedl syndrome patient identifies a null mutation in the BBSome subunitBBIP1(BBS18). Journal of Medical Genetics, 2014, 51, 132-136.	1.5	124
62	Stab Wound Injury of the Zebrafish Adult Telencephalon: A Method to Investigate Vertebrate Brain Neurogenesis and Regeneration. Journal of Visualized Experiments, 2014, , e51753.	0.2	35
63	Dynamic regulation of the transcription initiation landscape at single nucleotide resolution during vertebrate embryogenesis. Genome Research, 2013, 23, 1938-1950.	2.4	119
64	Genome-wide, whole mount in situ analysis of transcriptional regulators in zebrafish embryos. Developmental Biology, 2013, 380, 351-362.	0.9	54
65	A Universal Program for Tissue Regeneration?. Developmental Cell, 2012, 23, 1123-1124.	3.1	6
66	EuFishBioMed (COST Action BM0804): A European Network to Promote the Use of Small Fishes in Biomedical Research. Zebrafish, 2012, 9, 90-93.	0.5	7
67	Zebrafish embryos as an alternative to animal experimentsâ€”A commentary on the definition of the onset of protected life stages in animal welfare regulations. Reproductive Toxicology, 2012, 33, 128-132.	1.3	491
68	The zebrafish embryo as a model for assessing off-target drug effects. DMM Disease Models and Mechanisms, 2010, 3, 689-692.	1.2	29
69	DanToxâ€”a novel joint research project using zebrafish (Danio rerio) to identify specific toxicity and molecular modes of action of sediment-bound pollutants. Journal of Soils and Sediments, 2010, 10, 714-717.	1.5	26
70	Regulatory interactions specifying Kolmer-Agduhr interneurons. Development (Cambridge), 2010, 137, 2713-2722.	1.2	66
71	Conservation of shh cis-regulatory architecture of the coelacanth is consistent with its ancestral phylogenetic position. EvoDevo, 2010, 1, 11.	1.3	15
72	gfap and nestin reporter lines reveal characteristics of neural progenitors in the adult zebrafish brain. Developmental Dynamics, 2009, 238, 475-486.	0.8	175

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73	Conserved non-coding sequences and transcriptional regulation. Brain Research Bulletin, 2008, 75, 225-230.	1.4	19
74	The TATA-binding protein regulates maternal mRNA degradation and differential zygotic transcription in zebrafish. EMBO Journal, 2007, 26, 3945-3956.	3.5	57
75	Genetic identification of AChE as a positive modulator of addiction to the psychostimulant D-amphetamine in zebrafish. Journal of Neurobiology, 2006, 66, 463-475.	3.7	93
76	A simple and efficient procedure for non-isotopic in situ hybridization to sectioned material. Trends in Genetics, 1994, 10, 75-76.	2.9	135