

Sepand Rastegar

List of Publications by Year in descending order

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63
papers

2,942
citations

159358

30
h-index

174990

52
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71
all docs

71
docs citations

71
times ranked

3753
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface functionalisation-dependent adverse effects of metal nanoparticles and nanoplastics in zebrafish embryos. <i>Environmental Science: Nano</i> , 2022, 9, 375-392.	2.2	10
2	A Homozygous Missense Variant in <i>PPP1R1B/DARPP32</i> Is Associated With Generalized Complex Dystonia. <i>Movement Disorders</i> , 2022, 37, 365-374.	2.2	7
3	Two plus one is almost three: A fast approximation for multi-view deconvolution. <i>Biomedical Optics Express</i> , 2022, 13, 147-158.	1.5	2
4	<i>mdka</i> Expression Is Associated with Quiescent Neural Stem Cells during Constitutive and Reactive Neurogenesis in the Adult Zebrafish Telencephalon. <i>Brain Sciences</i> , 2022, 12, 284.	1.1	2
5	Multiomic atlas with functional stratification and developmental dynamics of zebrafish cis-regulatory elements. <i>Nature Genetics</i> , 2022, 54, 1037-1050.	9.4	26
6	Cellular Mechanisms Participating in Brain Repair of Adult Zebrafish and Mammals after Injury. <i>Cells</i> , 2021, 10, 391.	1.8	22
7	HDL biodistribution and brain receptors in zebrafish, using HDLs as vectors for targeting endothelial cells and neural progenitors. <i>Scientific Reports</i> , 2021, 11, 6439.	1.6	7
8	Multi-Dimensional Transcriptome Analysis Reveals Modulation of Cholesterol Metabolism as Highly Integrated Response to Brain Injury. <i>Frontiers in Neuroscience</i> , 2021, 15, 671249.	1.4	8
9	In Vivo Behavior of the Antibacterial Peptide Cyclo[RRRWFW], Explored Using a 3-Hydroxychromone-Derived Fluorescent Amino Acid. <i>Frontiers in Chemistry</i> , 2021, 9, 688446.	1.8	6
10	Neuron-Radial Glial Cell Communication via BMP/Id1 Signaling Is Key to Long-Term Maintenance of the Regenerative Capacity of the Adult Zebrafish Telencephalon. <i>Cells</i> , 2021, 10, 2794.	1.8	11
11	Gene duplication and functional divergence of the zebrafish <i>otospiralin</i> genes. <i>Development Genes and Evolution</i> , 2020, 230, 27-36.	0.4	0
12	Common and Distinct Features of Adult Neurogenesis and Regeneration in the Telencephalon of Zebrafish and Mammals. <i>Frontiers in Neuroscience</i> , 2020, 14, 568930.	1.4	49
13	<i>Pax6</i> organizes the anterior eye segment by guiding two distinct neural crest waves. <i>PLoS Genetics</i> , 2020, 16, e1008774.	1.5	29
14	Bone morphogenetic protein signaling regulates Id1-mediated neural stem cell quiescence in the adult zebrafish brain via a phylogenetically conserved enhancer module. <i>Stem Cells</i> , 2020, 38, 875-889.	1.4	15
15	Expression of adiponectin receptors in the brain of adult zebrafish and mouse: Links with neurogenic niches and brain repair. <i>Journal of Comparative Neurology</i> , 2019, 527, 2317-2333.	0.9	21
16	The HMG box transcription factors <i>Sox1a</i> and <i>b</i> specify a new class of glycinergic interneurons in the spinal cord of zebrafish embryos. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	20
17	Expression and activity profiling of the steroidogenic enzymes of glucocorticoid biosynthesis and the <i>coactivator</i> factors in zebrafish. <i>Journal of Neuroendocrinology</i> , 2018, 30, e12586.	1.2	14
18	Protein-Functionalized DNA Nanostructures as Tools to Control Transcription in Zebrafish Embryos. <i>ChemistryOpen</i> , 2017, 6, 33-39.	0.9	9

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19	Melanosomes in pigmented epithelia maintain eye lens transparency during zebrafish embryonic development. <i>Scientific Reports</i> , 2016, 6, 25046.	1.6	9
20	Zebrafish biosensor for toxicant induced muscle hyperactivity. <i>Scientific Reports</i> , 2016, 6, 23768.	1.6	20
21	The Zebrafish as Model for Deciphering the Regulatory Architecture of Vertebrate Genomes. <i>Advances in Genetics</i> , 2016, 95, 195-216.	0.8	1
22	Dysferlin-mediated phosphatidylserine sorting engages macrophages in sarcolemma repair. <i>Nature Communications</i> , 2016, 7, 12875.	5.8	61
23	HeRBI: Helmholtz Repository of Bioparts. <i>Zebrafish</i> , 2016, 13, 234-235.	0.5	1
24	Comprehensive expression map of transcription regulators in the adult zebrafish telencephalon reveals distinct neurogenic niches. <i>Journal of Comparative Neurology</i> , 2015, 523, 1202-1221.	0.9	50
25	An ensemble-averaged, cell density-based digital model of zebrafish embryo development derived from light-sheet microscopy data with single-cell resolution. <i>Scientific Reports</i> , 2015, 5, 8601.	1.6	44
26	Long-range evolutionary constraints reveal cis-regulatory interactions on the human X chromosome. <i>Nature Communications</i> , 2015, 6, 6904.	5.8	31
27	Differential expression of id genes and their potential regulator znf238 in zebrafish adult neural progenitor cells and neurons suggests distinct functions in adult neurogenesis. <i>Gene Expression Patterns</i> , 2015, 19, 1-13.	0.3	30
28	The Helix-Loop-Helix Protein Id1 Controls Stem Cell Proliferation During Regenerative Neurogenesis in the Adult Zebrafish Telencephalon. <i>Stem Cells</i> , 2015, 33, 892-903.	1.4	69
29	Molecular Description of Eye Defects in the Zebrafish Pax6b Mutant, sunrise, Reveals a Pax6b-Dependent Genetic Network in the Developing Anterior Chamber. <i>PLoS ONE</i> , 2015, 10, e0117645.	1.1	32
30	Automated prior knowledge-based quantification of neuronal patterns in the spinal cord of zebrafish. <i>Bioinformatics</i> , 2014, 30, 726-733.	1.8	7
31	Gene transcription in the zebrafish embryo: regulators and networks. <i>Briefings in Functional Genomics</i> , 2014, 13, 131-143.	1.3	14
32	Stab Wound Injury of the Zebrafish Adult Telencephalon: A Method to Investigate Vertebrate Brain Neurogenesis and Regeneration. <i>Journal of Visualized Experiments</i> , 2014, , e51753.	0.2	35
33	Dynamic regulation of the transcription initiation landscape at single nucleotide resolution during vertebrate embryogenesis. <i>Genome Research</i> , 2013, 23, 1938-1950.	2.4	119
34	Gene Responses in the Central Nervous System of Zebrafish Embryos Exposed to the Neurotoxicant Methyl Mercury. <i>Environmental Science & Technology</i> , 2013, 47, 3316-3325.	4.6	69
35	Genome-wide, whole mount in situ analysis of transcriptional regulators in zebrafish embryos. <i>Developmental Biology</i> , 2013, 380, 351-362.	0.9	54
36	Real-time in vivo monitoring of circadian E-box enhancer activity: A robust and sensitive zebrafish reporter line for developmental, chemical and neural biology of the circadian clock. <i>Developmental Biology</i> , 2013, 380, 259-273.	0.9	48

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37	Zebrafish embryos as an alternative to animal experimentsâ€”A commentary on the definition of the onset of protected life stages in animal welfare regulations. <i>Reproductive Toxicology</i> , 2012, 33, 128-132.	1.3	491
38	Regenerative response following stab injury in the adult zebrafish telencephalon. <i>Developmental Dynamics</i> , 2011, 240, 2221-2231.	0.8	169
39	DanToxâ€”a novel joint research project using zebrafish (<i>Danio rerio</i>) to identify specific toxicity and molecular modes of action of sediment-bound pollutants. <i>Journal of Soils and Sediments</i> , 2010, 10, 714-717.	1.5	26
40	Expression of the transcription factor Olig2 in proliferating cells in the adult zebrafish telencephalon. <i>Developmental Dynamics</i> , 2010, 239, 3336-3349.	0.8	41
41	Regulatory interactions specifying Kolmer-Agduhr interneurons. <i>Development (Cambridge)</i> , 2010, 137, 2713-2722.	1.2	66
42	Sequential and cooperative action of Fgfs and Shh in the zebrafish retina. <i>Developmental Biology</i> , 2008, 314, 200-214.	0.9	33
43	The words of the regulatory code are arranged in a variable manner in highly conserved enhancers. <i>Developmental Biology</i> , 2008, 318, 366-377.	0.9	52
44	Conserved non-coding sequences and transcriptional regulation. <i>Brain Research Bulletin</i> , 2008, 75, 225-230.	1.4	19
45	Cooperation of sonic hedgehog enhancers in midline expression. <i>Developmental Biology</i> , 2007, 301, 578-589.	0.9	78
46	Distribution of cannabinoid receptor 1 in the CNS of zebrafish. <i>Neuroscience</i> , 2006, 138, 83-95.	1.1	93
47	Monorail/Foxa2 regulates floorplate differentiation and specification of oligodendrocytes, serotonergic raphe-neurons and cranial motoneurons. <i>Development (Cambridge)</i> , 2005, 132, 645-658.	1.2	81
48	Expression Profiling and Comparative Genomics Identify a Conserved Regulatory Region Controlling Midline Expression in the Zebrafish Embryo. <i>Genome Research</i> , 2004, 14, 228-238.	2.4	34
49	Conserved and acquired features of neurogenin1 regulation. <i>Development (Cambridge)</i> , 2004, 131, 5627-5637.	1.2	59
50	Her5 acts as a prepattern factor that blocks neurogenin1 and coe2 expression upstream of Notch to inhibit neurogenesis at the midbrain-hindbrain boundary. <i>Development (Cambridge)</i> , 2004, 131, 1993-2006.	1.2	64
51	Vertebrate floor-plate specification: variations on common themes. <i>Trends in Genetics</i> , 2004, 20, 155-162.	2.9	83
52	Parapineal specific expression of gf1 in the zebrafish epithalamus. <i>Gene Expression Patterns</i> , 2004, 4, 53-57.	0.3	36
53	Autoregulation of Xvent-2B; Direct Interaction and Functional Cooperation of Xvent-2 and Smad1. <i>Journal of Biological Chemistry</i> , 2002, 277, 2097-2103.	1.6	40
54	A Floor Plate Enhancer of the Zebrafish netrin1 Gene Requires Cyclops (Nodal) Signalling and the Winged Helix Transcription Factor FoxA2. <i>Developmental Biology</i> , 2002, 252, 1-14.	0.9	42

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55	Expression of the helix-loop-helix gene id3 in the zebrafish embryo. <i>Mechanisms of Development</i> , 2002, 113, 99-102.	1.7	19
56	Expression of brain subtype creatine kinase in the zebrafish embryo. <i>Mechanisms of Development</i> , 2001, 109, 409-412.	1.7	21
57	Expression of the anti-dorsalizing morphogenetic protein gene in the zebrafish embryo. <i>Development Genes and Evolution</i> , 2001, 211, 568-572.	0.4	12
58	Smad1 and Smad4 Are Components of the Bone Morphogenetic Protein-4 (BMP-4)-induced Transcription Complex of the Xvent-2B Promoter. <i>Journal of Biological Chemistry</i> , 2000, 275, 21827-21835.	1.6	73
59	Transcriptional regulation of Xvent homeobox genes. <i>Mechanisms of Development</i> , 1999, 81, 139-149.	1.7	73
60	Characterization of zebrafish smad1, smad2 and smad5: the amino-terminus of Smad1 and Smad5 is required for specific function in the embryo. <i>Mechanisms of Development</i> , 1999, 88, 73-88.	1.7	43
61	Xvent-1 mediates BMP-4-induced suppression of the dorsal-lip-specific early response gene XFD-1' in <i>Xenopus</i> embryos. <i>EMBO Journal</i> , 1998, 17, 2298-2307.	3.5	46
62	Cleavage of the BMP-4 Antagonist Chordin by Zebrafish Tolloid. <i>Science</i> , 1997, 278, 1937-1940.	6.0	187
63	Monitoring glucocorticoid signaling and circadian clock function with transgenic zebrafish reporter lines. <i>Endocrine Abstracts</i> , 0, , 1-1.	0.0	0