

Georg R Zoidl

List of Publications by Year in descending order

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73
papers

2,436
citations

172457

29
h-index

214800

47
g-index

77
all docs

77
docs citations

77
times ranked

2530
citing authors

#	ARTICLE	IF	CITATIONS
1	Site-specific and developmental expression of pannexin1 in the mouse nervous system. <i>European Journal of Neuroscience</i> , 2005, 21, 3277-3290.	2.6	192
2	Major occurrence of the new β isoform of NO-sensitive guanylyl cyclase in brain. <i>Cellular Signalling</i> , 2003, 15, 189-195.	3.6	151
3	Pannexin1 Stabilizes Synaptic Plasticity and Is Needed for Learning. <i>PLoS ONE</i> , 2012, 7, e51767.	2.5	121
4	A Phosphodiesterase 2A Isoform Localized to Mitochondria Regulates Respiration. <i>Journal of Biological Chemistry</i> , 2011, 286, 30423-30432.	3.4	115
5	The neuronal connexin36 interacts with and is phosphorylated by CaMKII in a way similar to CaMKII interaction with glutamate receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20964-20969.	7.1	110
6	Synaptic Transmission from Horizontal Cells to Cones Is Impaired by Loss of Connexin Hemichannels. <i>PLoS Biology</i> , 2011, 9, e1001107.	5.6	83
7	Expression of neural connexins and pannexin1 in the hippocampus and inferior olive: a quantitative approach. <i>Molecular Brain Research</i> , 2005, 133, 102-109.	2.3	72
8	Pannexin 1 Constitutes the Large Conductance Cation Channel of Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2011, 286, 290-298.	3.4	67
9	Pannexin expression in the cerebellum. <i>Cerebellum</i> , 2006, 5, 189-192.	2.5	65
10	Reduced presynaptic efficiency of excitatory synaptic transmission impairs LTP in the visual cortex of BDNF-heterozygous mice. <i>European Journal of Neuroscience</i> , 2006, 24, 3519-3531.	2.6	58
11	Gap junctions in inherited human disease. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 451-466.	2.8	57
12	Dual Acylation of PDE2A Splice Variant 3. <i>Journal of Biological Chemistry</i> , 2009, 284, 25782-25790.	3.4	54
13	Proteomic analysis of astroglial connexin43 silencing uncovers a cytoskeletal platform involved in process formation and migration. <i>Glia</i> , 2010, 58, 494-505.	4.9	52
14	Mechanisms of pannexin1 channel gating and regulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 65-71.	2.6	52
15	Internal Ribosomal Entry Site (IRES) Activity Generates Endogenous Carboxyl-terminal Domains of Cx43 and Is Responsive to Hypoxic Conditions. <i>Journal of Biological Chemistry</i> , 2014, 289, 20979-20990.	3.4	51
16	The potassium channel subunit Kv1.3 interacts with pannexin 1 and attenuates its sensitivity to changes in redox potentials. <i>FEBS Journal</i> , 2009, 276, 6258-6270.	4.7	50
17	Loss of connexin36 increases retinal cell vulnerability to secondary cell loss. <i>European Journal of Neuroscience</i> , 2005, 22, 605-616.	2.6	49
18	Developmental regulation and overexpression of the transcription factor AP-2, a potential regulator of the timing of Schwann cell generation. <i>European Journal of Neuroscience</i> , 2001, 14, 363-372.	2.6	48

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19	Molecular Cloning and Functional Expression of zCx52.6. <i>Journal of Biological Chemistry</i> , 2004, 279, 2913-2921.	3.4	48
20	Retinal horizontal cell-specific promoter activity and protein expression of zebrafish connexin 52.6 and connexin 55.5. <i>Journal of Comparative Neurology</i> , 2007, 501, 765-779.	1.6	48
21	Genes controlling multiple functional pathways are transcriptionally regulated in connexin43 null mouse heart. <i>Physiological Genomics</i> , 2005, 20, 211-223.	2.3	46
22	Calmodulin dependent protein kinase increases conductance at gap junctions formed by the neuronal gap junction protein connexin36. <i>Brain Research</i> , 2012, 1487, 69-77.	2.2	44
23	Gap junction modulation and its implications for heart function. <i>Frontiers in Physiology</i> , 2014, 5, 82.	2.8	44
24	Pannexin1 Channel Proteins in the Zebrafish Retina Have Shared and Unique Properties. <i>PLoS ONE</i> , 2013, 8, e77722.	2.5	41
25	Studies on the effects of altered PMP22 expression during myelination in vitro. , 1997, 48, 31-42.		39
26	Pannexin-1 channels in epilepsy. <i>Neuroscience Letters</i> , 2019, 695, 71-75.	2.1	36
27	Intracellular Cysteine 346 Is Essentially Involved in Regulating Panx1 Channel Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 38444-38452.	3.4	35
28	On the search for the electrical synapse: a glimpse at the future. <i>Cell and Tissue Research</i> , 2002, 310, 137-142.	2.9	32
29	Replacement of a single cysteine in the fourth transmembrane region of zebrafish pannexin1 alters hemichannel gating behavior. <i>Experimental Brain Research</i> , 2009, 199, 255-264.	1.5	32
30	Dexamethasone prevents LPS-induced microglial activation and astroglial impairment in an experimental bacterial meningitis co-culture model. <i>Brain Research</i> , 2010, 1329, 45-54.	2.2	32
31	Molecular Diversity of Connexin and Pannexin Genes in the Retina of the Zebrafish <i>Danio rerio</i> . <i>Cell Communication and Adhesion</i> , 2008, 15, 169-183.	1.0	31
32	Single Cysteines in the Extracellular and Transmembrane Regions Modulate Pannexin 1 Channel Function. <i>Journal of Membrane Biology</i> , 2011, 244, 21-33.	2.1	31
33	A microfluidic device for partial immobilization, chemical exposure and behavioural screening of zebrafish larvae. <i>Lab on A Chip</i> , 2017, 17, 4048-4058.	6.0	25
34	ATOX8, a regulator of skeletal myogenesis in the hypaxial myotome of the trunk. <i>Histochemistry and Cell Biology</i> , 2014, 141, 289-300.	1.7	24
35	Investigation of olfactory function in a Panx1 knock out mouse model. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 266.	3.7	23
36	Identification and Characterization of ZFP-57, a Novel Zinc Finger Transcription Factor in the Mammalian Peripheral Nervous System. <i>Journal of Biological Chemistry</i> , 2004, 279, 25653-25664.	3.4	21

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37	Structural and Functional Consequences of Connexin 36 (Cx36) Interaction with Calmodulin. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 120.	2.9	21
38	Hippocampal hyperexcitability in fetal alcohol spectrum disorder: Pathological sharp waves and excitatory/inhibitory synaptic imbalance. <i>Experimental Neurology</i> , 2016, 280, 70-79.	4.1	21
39	Unified patch clamp protocol for the characterization of Pannexin 1 channels in isolated cells and acute brain slices. <i>Journal of Neuroscience Methods</i> , 2011, 199, 15-25.	2.5	20
40	Pannexin-1 Deficiency Decreases Epileptic Activity in Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7510.	4.1	19
41	Emerging functions of pannexin 1 in the eye. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 263.	3.7	17
42	Identification of a Potential Regulator of the Gap Junction Protein Pannexin1. <i>Cell Communication and Adhesion</i> , 2005, 12, 231-236.	1.0	16
43	Phenotypic chemical and mutant screening of zebrafish larvae using an on-demand response to electric stimulation. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 373-383.	1.3	16
44	Pannexin 1 Is Critically Involved in Feedback from Horizontal Cells to Cones. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 403.	2.9	15
45	A Potential Compensatory Role of Panx3 in the VNO of a Panx1 Knock Out Mouse Model. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 135.	2.9	15
46	Wnt11 Is Required for Oriented Migration of Dermogenic Progenitor Cells from the Dorsomedial Lip of the Avian Dermomyotome. <i>PLoS ONE</i> , 2014, 9, e92679.	2.5	14
47	A microfluidic device to study electrotaxis and dopaminergic system of zebrafish larvae. <i>Biomicrofluidics</i> , 2018, 12, 014113.	2.4	14
48	Tubulin-Dependent Transport of Connexin-36 Potentiates the Size and Strength of Electrical Synapses. <i>Cells</i> , 2019, 8, 1146.	4.1	13
49	Localization of Retinal Ca ²⁺ /Calmodulin-Dependent Kinase II- \hat{I}^2 (CaMKII- \hat{I}^2) at Bipolar Cell Gap Junctions and Cross-Reactivity of a Monoclonal Anti-CaMKII- \hat{I}^2 Antibody With Connexin36. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 206.	2.9	12
50	An Energy-Efficient Optically-Enhanced Highly-Linear Implantable Wirelessly-Powered Bidirectional Optogenetic Neuro-Stimulator. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 1274-1286.	4.0	12
51	A new mode of SAM domain mediated oligomerization observed in the CASKIN2 neuronal scaffolding protein. <i>Cell Communication and Signaling</i> , 2016, 14, 17.	6.5	11
52	Endocytosis of Connexin 36 is Mediated by Interaction with Caveolin-1. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5401.	4.1	11
53	Connexins and Cap-independent translation: Role of internal ribosome entry sites. <i>Brain Research</i> , 2012, 1487, 99-106.	2.2	10
54	Characterization of cytoplasmic polyadenylation element binding 2 protein expression and its RNA binding activity. <i>Hippocampus</i> , 2015, 25, 630-642.	1.9	10

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55	A microfluidic device for quantitative investigation of zebrafish larvae's rheotaxis. <i>Biomedical Microdevices</i> , 2017, 19, 99.	2.8	10
56	Differential expression of astrocytic connexins in a mouse model of prenatal alcohol exposure. <i>Neurobiology of Disease</i> , 2016, 91, 83-93.	4.4	8
57	Multi-phenotypic and bi-directional behavioral screening of zebrafish larvae. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 211-220.	1.3	7
58	Visuomotor deficiency in panx1a knockout zebrafish is linked to dopaminergic signaling. <i>Scientific Reports</i> , 2020, 10, 9538.	3.3	7
59	The Roles of Calmodulin and CaMKII in Cx36 Plasticity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4473.	4.1	7
60	Pannexins in vision, hearing, olfaction and taste. <i>Neuroscience Letters</i> , 2019, 695, 32-39.	2.1	6
61	Microfluidic devices for behavioral screening of multiple Zebrafish Larvae: Design investigation process. <i>Biotechnology Journal</i> , 2021, , 2100076.	3.5	6
62	Panx1 channels promote both anti- and pro-seizure-like activities in the zebrafish via p2rx7 receptors and ATP signaling. <i>Communications Biology</i> , 2022, 5, 472.	4.4	6
63	Deletion of the $\hat{1}^2$ -turn/ $\hat{1}\pm$ -helix motif at the exon 2/3 boundary of human c-Myc leads to the loss of its immortalizing function. <i>Gene</i> , 1993, 131, 269-274.	2.2	5
64	Transcriptional and Translational Regulation of Zebrafish Connexin 55.5 (zf.Cx.55.5) and Connexin 52.6 (zf.Cx52.6). <i>Cell Communication and Adhesion</i> , 2003, 10, 227-231.	1.0	5
65	A Multidisciplinary Approach toward High Throughput Label-Free Cytotoxicity Monitoring of Superparamagnetic Iron Oxide Nanoparticles. <i>Bioengineering</i> , 2019, 6, 52.	3.5	5
66	Role of an Aromatic "Aromatic Interaction in the Assembly and Trafficking of the Zebrafish Panx1a Membrane Channel. <i>Biomolecules</i> , 2020, 10, 272.	4.0	4
67	Zebrafish larva's response and habituation to electric signal: Effects of voltage, current and pulsation studied in a microfluidic device. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113070.	4.1	4
68	Convergent NMDA receptor "Pannexin1 signaling pathways regulate the interaction of CaMKII with Connexin-36. <i>Communications Biology</i> , 2021, 4, 702.	4.4	3
69	Gap junctional communication in health and disease. <i>Frontiers in Physiology</i> , 2014, 5, 442.	2.8	2
70	Panx1b Modulates the Luminance Response and Direction of Locomotion in the Zebrafish. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11750.	4.1	2
71	Transcriptional and translational regulation of zebrafish connexin 55.5 (zf.Cx.55.5) and connexin 52.6 (zf.Cx52.6). <i>Cell Communication and Adhesion</i> , 2003, 10, 227-31.	1.0	1
72	Towards Label-Free Platform for Monitoring Interaction Between Cells and Superparamagnetic Iron Oxide Nanoparticles. , 2018, , .		0

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73	Dopaminergic signaling regulates zebrafish larvae's response to electricity. <i>Biotechnology Journal</i> , 2022, , 2100561.	3.5	0