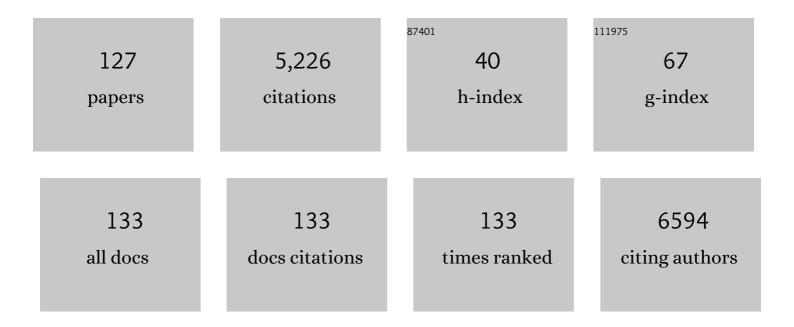
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Review and Hypothesis: A Potential Common Link Between Glial Cells, Calcium Changes, Modulation of Synaptic Transmission, Spreading Depression, Migraine, and Epilepsy—H+. Frontiers in Cellular Neuroscience, 2021, 15, 693095.	1.8	4
2	Deeply Subwavelength Topological Microscopy. , 2021, , .		0
3	Far-field unlabeled super-resolution imaging with superoscillatory illumination. APL Photonics, 2020, 5, .	3.0	25
4	Parkinson's disease protein DJ-1 regulates ATP synthase protein components to increase neuronal process outgrowth. Cell Death and Disease, 2019, 10, 469.	2.7	70
5	C <sub>60</sub> fullerene localization and membrane interactions in RAW 264.7 immortalized mouse macrophages. Nanoscale, 2016, 8, 4134-4144.	2.8	60
6	Probing the epigenetic regulation of HIF-1α transcription in developing tissue. Molecular BioSystems, 2015, 11, 2780-2785.	2.9	5
7	The Mitochondrial Complex V–Associated Large-Conductance Inner Membrane Current Is Regulated by Cyclosporine and Dexpramipexole. Molecular Pharmacology, 2015, 87, 1-8.	1.0	46
8	Expression Profiling of Primary and Metastatic Ovarian Tumors Reveals Differences Indicative of Aggressive Disease. PLoS ONE, 2014, 9, e94476.	1.1	66
9	Paper-based colorimetric enzyme linked immunosorbent assay fabricated by laser induced forward transfer. Biomicrofluidics, 2014, 8, 036502.	1.2	24
10	Quantitative exploration of the contribution of settlement, growth, dispersal and grazing to the accumulation of natural marine biofilms on antifouling and fouling-release coatings. Biofouling, 2014, 30, 223-236.	0.8	16
11	Special issue on high-resolution optical imaging. Journal of Optics (United Kingdom), 2013, 15, 090201.	1.0	3
12	Identification of Ovarian Cancer Metastatic miRNAs. PLoS ONE, 2013, 8, e58226.	1.1	78
13	Effects of dexpramipexole on brain mitochondrial conductances and cellular bioenergetic efficiency. Brain Research, 2012, 1446, 1-11.	1.1	46
14	The level of menadione redox-cycling in pancreatic β-cells is proportional to the glucose concentration: Role of NADH and consequences for insulin secretion. Toxicology and Applied Pharmacology, 2012, 258, 216-225.	1.3	15
15	Bcl-xL regulates metabolic efficiency of neurons through interaction with the mitochondrial F1FO ATP synthase. Nature Cell Biology, 2011, 13, 1224-1233.	4.6	245
16	Redox cycling and increased oxygen utilization contribute to diquat-induced oxidative stress and cytotoxicity in Chinese hamster ovary cells overexpressing NADPH-cytochrome P450 reductase. Free Radical Biology and Medicine, 2011, 50, 874-882.	1.3	64
17	Regeneration in the Era of Functional Genomics and Gene Network Analysis. Biological Bulletin, 2011, 221, 18-34.	0.7	24
18	Catechol metabolites of endogenous estrogens induce redox cycling and generate reactive oxygen species in breast epithelial cells. Carcinogenesis, 2011, 32, 1285-1293.	1.3	57

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19	Plasma membrane electron transport in pancreatic β-cells is mediated in part by NQO1. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E113-E121.	1.8	21
20	Physiological and pharmacological characterizations of the larval Anopheles albimanus rectum support a change in protein distribution and/or function in varying salinities. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 157, 55-62.	0.8	11
21	Windows to cell function and dysfunction: Signatures written in the boundary layers. BioEssays, 2010, 32, 514-523.	1.2	7
22	Release and Elementary Mechanisms of Nitric Oxide in Hair Cells. Journal of Neurophysiology, 2010, 103, 2494-2505.	0.9	16
23	Construction, Theory, and Practical Considerations for using Self-referencing of Ca2+-Selective Microelectrodes for Monitoring Extracellular Ca2+ Gradients. Methods in Cell Biology, 2010, 99, 91-111.	0.5	6
24	Role for malic enzyme, pyruvate carboxylation, and mitochondrial malate import in glucose-stimulated insulin secretion. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E1354-E1362.	1.8	43
25	Simultaneous single neuron recording of O <sub>2</sub> consumption, [Ca <sup>2+</sup> ] <sub>i</sub> and mitochondrial membrane potential in glutamate toxicity. Journal of Neurochemistry, 2009, 109, 644-655.	2.1	37
26	Ion Trapping with Fast-Response Ion-Selective Microelectrodes Enhances Detection of Extracellular Ion Channel Gradients. Biophysical Journal, 2009, 96, 1597-1605.	0.2	21
27	Glucagon-Like Peptide-1 Induced Signaling and Insulin Secretion Do Not Drive Fuel and Energy Metabolism in Primary Rodent Pancreatic I2-Cells. PLoS ONE, 2009, 4, e6221.	1.1	54
28	Characterization of optimized Na+ and Clâ^ liquid membranes for use with extracellular, self-referencing microelectrodes. Analytical and Bioanalytical Chemistry, 2008, 390, 1355-1359.	1.9	36
29	Imaging the electric field associated with mouse and human skin wounds. Wound Repair and Regeneration, 2008, 16, 432-441.	1.5	84
30	Transepithelial Projections from Basal Cells Are Luminal Sensors in Pseudostratified Epithelia. Cell, 2008, 135, 1108-1117.	13.5	145
31	Bcl-x <sub>L</sub> induces Drp1-dependent synapse formation in cultured hippocampal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2169-2174.	3.3	210
32	Paraquat Increases Cyanide-insensitive Respiration in Murine Lung Epithelial Cells by Activating an NAD(P)H:Paraquat Oxidoreductase. Journal of Biological Chemistry, 2007, 282, 7939-7949.	1.6	64
33	Relocalization of the V-ATPase B2 subunit to the apical membrane of epididymal clear cells of mice deficient in the B1 subunit. American Journal of Physiology - Cell Physiology, 2007, 293, C199-C210.	2.1	49
34	Ca2+, NAD(P)H and membrane potential changes in pancreatic β-cells by methyl succinate: comparison with glucose. Biochemical Journal, 2007, 403, 197-205.	1.7	40
35	Modulation of Extracellular Proton Fluxes from Retinal Horizontal Cells of the Catfish by Depolarization and Glutamate. Journal of General Physiology, 2007, 130, 169-182.	0.9	39
36	Measuring Extracellular Ion Gradients from Single Channels with Ion-Selective Microelectrodes. Biophysical Journal, 2007, 92, L52-L54.	0.2	10

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37	Rhythm of the β-cell oscillator is not governed by a single regulator: multiple systems contribute to oscillatory behavior. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1295-E1300.	1.8	24
38	Electrochemical Sensor Applications to the Study of Molecular Physiology and Analyte Flux in Plants. , 2006, , 73-107.		16
39	Principles, Development and Applications of Self-Referencing Electrochemical Microelectrodes to the Determination of Fluxes at Cell Membranes. Frontiers in Neuroengineering Series, 2006, , 373-406.	0.4	3
40	Monitoring Clâ^' Movement in Single Cells Exposed to Hypotonic Solution. Journal of Membrane Biology, 2005, 203, 101-110.	1.0	12
41	Physiological Increases in Uncoupling Protein 3 Augment Fatty Acid Oxidation and Decrease Reactive Oxygen Species Production Without Uncoupling Respiration in Muscle Cells. Diabetes, 2005, 54, 2343-2350.	0.3	194
42	Life at acidic pH imposes an increased energetic cost for a eukaryotic acidophile. Journal of Experimental Biology, 2005, 208, 2569-2579.	0.8	64
43	Hypoxic stress in diabetic pregnancy contributes to impaired embryo gene expression and defective development by inducing oxidative stress. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E591-E599.	1.8	98
44	Synergistic amplification of β-amyloid- and interferon-γ-induced microglial neurotoxic response by the senile plaque component chromogranin A. American Journal of Physiology - Cell Physiology, 2005, 288, C169-C175.	2.1	13
45	Modulation of the Actin Cytoskeleton via Gelsolin Regulates Vacuolar H+-ATPase Recycling. Journal of Biological Chemistry, 2005, 280, 8452-8463.	1.6	88
46	Determination of Single-Cell Oxygen Consumption with Impedance Feedback for Control of Sampleâ^'Probe Separation. Analytical Chemistry, 2005, 77, 6999-7004.	3.2	27
47	Chloride fluxes in lily pollen tubes: a critical reevaluation. Plant Journal, 2004, 40, 799-812.	2.8	30
48	Neurotransmitter modulation of extracellular H+fluxes from isolated retinal horizontal cells of the skate. Journal of Physiology, 2004, 560, 639-657.	1.3	26
49	From Genes to Genomes: Beyond Biodiversity in Spain's Rio Tinto. Biological Bulletin, 2003, 204, 205-209.	0.7	80
50	Mitochondrial respiration and Ca2+ waves are linked during fertilization and meiosis completion. Development (Cambridge), 2003, 130, 683-692.	1.2	83
51	Intracellular Release of Caged Calcium in Skate Horizontal Cells Using Fine Optical Fibers. Biological Bulletin, 2003, 205, 215-216.	0.7	0
52	Development and Characterization of a Self-Referencing Glutamate-Selective Micro-biosensor. Biological Bulletin, 2003, 205, 207-208.	0.7	3
53	Control of ascorbic acid efflux in rat luteal cells: role of intracellular calcium and oxygen radicals. American Journal of Physiology - Cell Physiology, 2003, 285, C642-C651.	2.1	23
54	A Novel Turtle Retinal Preparation for Simultaneously Measuring Light-Induced Electrical Activity and Changes in Metabolite Levels. Biological Bulletin, 2002, 203, 198-200.	0.7	0

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55	Mitochondrial dysfunction leads to telomere attrition and genomic instability. Aging Cell, 2002, 1, 40-46.	3.0	211
56	Checkpoint for DNA integrity at the first mitosis after oocyte activation. Molecular Reproduction and Development, 2002, 62, 277-288.	1.0	16
57	Apoptosis recruits two-pore domain potassium channels used for homeostatic volume regulation. American Journal of Physiology - Cell Physiology, 2002, 282, C588-C594.	2.1	77
58	Development and Application of a Self-Referencing Glucose Microsensor for the Measurement of Glucose Consumption by Pancreatic β-Cells. Analytical Chemistry, 2001, 73, 3759-3767.	3.2	30
59	Real-Time Detection of Reactive Oxygen Intermediates From Single Microglial Cells. Biological Bulletin, 2001, 201, 261-262.	0.7	16
60	Proteins and lipids define the diffusional field of nitric oxide. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 281, L904-L912.	1.3	35
61	Nerve Injury Induces a Rapid Efflux of Nitric Oxide (NO) Detected with a Novel NO Microsensor. Journal of Neuroscience, 2001, 21, 215-220.	1.7	47
62	Analysis of cellular boundary layers: application of electrochemical microsensors. Electrochimica Acta, 2001, 47, 283-292.	2.6	14
63	Minimal amidine structure for inhibition of nitric oxide biosynthesis 2 2Abbreviations: NOS1, neuronal nitric oxide synthase; NOS2, inducible nitric oxide synthase; l-NMMA, NG-monomethyl-l-arginine; and NIO, l-N5-(iminoethyl)ornithine Biochemical Pharmacology, 2001, 61, 1581-1586.	2.0	14
64	Mitochondrial modulation of calcium signaling at the initiation of development. Cell Calcium, 2001, 30, 423-433.	1.1	72
65	Cadmium Inhibits Vacuolar H+ATPase-Mediated Acidification in the Rat Epididymis1. Biology of Reproduction, 2000, 63, 599-606.	1.2	34
66	A non-invasive method for measuring preimplantation embryo physiology. Zygote, 2000, 8, 15-24.	0.5	29
67	Single-cell, real-time measurements of extracellular oxygen and proton fluxes fromSpirogyra grevilleana. Protoplasma, 2000, 212, 80-88.	1.0	25
68	Calcification and measurements of net proton and oxygen flux reveal subcellular domains in Acetabularia acetabulum. Planta, 2000, 211, 474-483.	1.6	17
69	Gravity-directed calcium current in germinating spores of Ceratopteris richardii. Planta, 2000, 210, 607-610.	1.6	55
70	Sustaining olfaction at low salinities: evidence for a paracellular route of ion movement from the hemolymph to the sensillar lymph in the olfactory sensilla of the blue crab Callinectes sapidus. Cell and Tissue Research, 2000, 301, 423-431.	1.5	11
71	Tetanus toxin-mediated cleavage of cellubrevin inhibits proton secretion in the male reproductive tract. American Journal of Physiology - Renal Physiology, 2000, 278, F717-F725.	1.3	53
72	Oxidative Phosphorylation-Dependent and -Independent Oxygen Consumption by Individual Preimplantation Mouse Embryos1. Biology of Reproduction, 2000, 62, 1866-1874.	1.2	223

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73	Development of self-referencing oxygen microsensor and its application to single pancreatic HIT cells: effects of adenylate cyclase activator forskolin on oxygen consumption. Biological Bulletin, 2000, 199, 197-198.	0.7	7
74	Hydrogen ion fluxes from isolated retinal horizontal cells: modulation by glutamate. Biological Bulletin, 2000, 199, 168-170.	0.7	3
75	Noninvasive Measurement of Potassium Efflux as an Early Indicator of Cell Death in Mouse Embryos1. Biology of Reproduction, 2000, 63, 851-857.	1.2	47
76	Oxygen consumption oscillates in single clonal pancreatic beta-cells (HIT). Diabetes, 2000, 49, 1511-1516.	0.3	60
77	Birefringence Imaging Directly Reveals Architectural Dynamics of Filamentous Actin in Living Growth Cones. Molecular Biology of the Cell, 1999, 10, 197-210.	0.9	110
78	Transmembrane Regulation of Intracellular Calcium by a Plasma Membrane Sodium/Calcium Exchanger in Mouse Ova1. Biology of Reproduction, 1999, 60, 1137-1143.	1.2	31
79	Multitip scanning bio-Kelvin probe. Review of Scientific Instruments, 1999, 70, 1842-1850.	0.6	81
80	Arrangement of radial actin bundles in the growth cone of Aplysia bag cell neurons shows the immediate past history of filopodial behavior. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7928-7931.	3.3	34
81	Self-referencing, non-invasive, ion selective electrode for single cell detection of trans-plasma membrane calcium flux. , 1999, 46, 398-417.		152
82	Oxygen-depleted zones inside reproductive structures of <i>Brassicaceae</i> : implications for oxygen control of seed development. Canadian Journal of Botany, 1999, 77, 1439-1446.	1.2	51
83	Microglia generate external proton and potassium ion gradients utilizing a member of the H/K ATPase family. Glia, 1998, 23, 339-348.	2.5	29
84	Transmembrane Calcium Flux in Pb+2-Exposed Aplysia Neurons. Biological Bulletin, 1998, 195, 201-202.	0.7	3
85	Characterization of Oxygen and Calcium Fluxes From Early Mouse Embryos and Oocytes. Biological Bulletin, 1998, 195, 208-209.	0.7	20
86	Extracellular pH Gradients Measured From Isolated Retinal Cells. Biological Bulletin, 1998, 195, 203-204.	0.7	3
87	Proton secretion in the male reproductive tract: involvement of Cl <sup>â^'</sup> -independent HCO 3 â^' transport. American Journal of Physiology - Cell Physiology, 1998, 275, C1134-C1142.	2.1	72
88	Plasma Membrane Ca <sup>2+</sup> -ATPase Extrudes Ca <sup>2+</sup> from Hair Cell Stereocilia. Journal of Neuroscience, 1998, 18, 610-624.	1.7	212
89	O <sub>2</sub> availability modulates transmembrane Ca <sup>2+</sup> flux via second-messenger pathways in anoxia-tolerant hepatocytes. Journal of Applied Physiology, 1997, 82, 776-783.	1.2	13
90	Actin Bundles in Neuronal Growth Cone Observed with the Pol-Scope. Biological Bulletin, 1997, 193, 219-220.	0.7	6

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91	Présence de cellules acidifiantes dans l'épididyme et le canal déférent: implication de la pompe Ã protons, H+ATPase Medecine/Sciences, 1997, 13, 57.	0.0	0
92	Consumption of Oxygen by Isolated Skate Retinal Photoreceptors. Biological Bulletin, 1997, 193, 231-232.	0.7	3
93	Lead Affects Learning by Hermissenda crassicornis. Biological Bulletin, 1996, 191, 260-261.	0.7	7
94	Long-term culture of fully differentiated adult insect neurons. Journal of Neuroscience Methods, 1996, 69, 113-122.	1.3	15
95	A non-invasive vibrating calcium-selective electrode measures acetylcholine-induced calcium flux across the sarcolemma of a smooth muscle. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1996, 166, 270-277.	0.7	8
96	Acidification of the male reproductive tract by a proton pumping(H+)-ATPase. Nature Medicine, 1996, 2, 470-472.	15.2	238
97	Ion Fluxes from Skate Retinal Horizontal Cells Measured Using Self-Referencing Ion-Selective Electrodes. Biological Bulletin, 1996, 191, 261-262.	0.7	1
98	Non-invasive ion probes — tools for measuring transmembrane ion flux. Nature, 1995, 378, 645-646.	13.7	63
99	Culture ofhermissenda crassicornis (mollusca) neurons. In Vitro Cellular and Developmental Biology - Animal, 1995, 31, 653-656.	0.7	5
100	Identification of Calcium Flux in Single Preimplantation Mouse Embryos with the Calcium-Sensitive Vibrating Probe. Biological Bulletin, 1995, 189, 200-200.	0.7	7
101	Effects of Exogenous Heat Shock Protein (hsp70) on Neuronal Calcium Flux. Biological Bulletin, 1995, 189, 209-210.	0.7	11
102	Suppression of Ca2+ Flux During the Transition to Anoxia in Turtle Hepatocytes Revealed by a Non-Invasive Ca2+-Selective Vibrating Probe. Biological Bulletin, 1995, 189, 228-229.	0.7	2
103	Use of a Vibrating Electrode to Measure Changes in Calcium Fluxes Across the Cell Membranes of Oxidatively ChallengedAplysiaNerve Cells. Free Radical Research, 1994, 20, 307-313.	1.5	9
104	The Vibrating Ca2+ Electrode: A New Technique for Detecting Plasma Membrane Regions of Ca2+ Influx and Efflux. Methods in Cell Biology, 1994, 40, 115-134.	0.5	70
105	Lead Toxicity in Hermissenda crassicornis Embryos and Cultured Neurons. Biological Bulletin, 1994, 187, 251-252.	0.7	8
106	Second Messenger Modulation of Steady-State Calcium Efflux in <i>Aplysia</i> Bag Cells. Biological Bulletin, 1994, 187, 270-270.	0.7	3
107	Three-Dimensional Calibration of the Non-Invasive Ion Probe, NVPi, of Steady Ionic Currents. Biological Bulletin, 1994, 187, 271-272.	0.7	1
108	Ionic Fluxes During Wound Healing Following Segment Amputation in Sabellid Fanworms. Biological Bulletin, 1994, 187, 253-254.	0.7	0

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109	A blood-derived attachment factor enhances the in vitro growth of two glial cell types from adult cockroach. Glia, 1993, 8, 33-41.	2.5	10
110	Cell specific DNA-labelling in the repairing blood-brain barrier of the insect Periplaneta americana. Cell and Tissue Research, 1992, 267, 535-543.	1.5	2
111	Neural repair and glial proliferation: Parallels with gliogenesis in insects. BioEssays, 1991, 13, 65-72.	1.2	22
112	Immunohistochemical localisation of the thymidine analogue 5-bromo-2-deoxyuridine in insect tissue: Preservation of cellular ultrastructure. Tissue and Cell, 1990, 22, 311-317.	1.0	2
113	Adult insect glial culture: Activation, substrate effects and proliferation. Tissue and Cell, 1989, 21, 759-772.	1.0	8
114	Cell recruitment during glial repair: the role of exogenous cells. Cell and Tissue Research, 1988, 251, 339-343.	1.5	11
115	Reactive Cells and Their Role in Glial Regeneration in an Insect CNS. American Zoologist, 1988, 28, 1145-1153.	0.7	6
116	Neural Repair and Regeneration in Insects. Advances in Insect Physiology, 1988, 21, 35-84.	1.1	17
117	Blood cells contribute to glial repair in an insect. Tissue and Cell, 1987, 19, 877-880.	1.0	13
118	The performance of the octopus circulatory system: A triumph of engineering over design. Experientia, 1987, 43, 487-499.	1.2	60
119	Cardiac output in the Mollusca: Scope and regulation. Experientia, 1987, 43, 956-965.	1.2	25
120	Glial repair in the cultured central nervous system of an insect. Cell and Tissue Research, 1987, 247, 111-120.	1.5	13
121	Neural repair in an insect: cell recruitment and deployment following selective glial disruption. Cell and Tissue Research, 1987, 247, 121-128.	1.5	18
122	Neural repair in an insect central nervous system: cell kinetics and proliferation after selective glial disruption. Cell and Tissue Research, 1987, 247, 129-135.	1.5	20
123	Ventilation and circulation during exercise inOctopus vulgaris. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1986, 156, 683-689.	0.7	27
124	Haemocyte involvement in the repair of the insect central nervous system after selective glial disruption. Cell and Tissue Research, 1986, 243, 367.	1.5	27
125	The effects of an anti-mitotic drug, bleomycin, on glial repair in an insect central nervous system. Cell and Tissue Research, 1986, 243, 375.	1.5	12
126	Glial repair in an insect central nervous system: effects of selective glial disruption. Journal of Neuroscience, 1984, 4, 2698-2711.	1.7	35

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127	In situ sampling of crab blood by scuba divers. Journal of Experimental Marine Biology and Ecology, 1980, 45, 219-228.	0.7	9