Alfons Lawen

List of Publications by Year
in descending order

60 papers	2,206 citations	279798 23 h-index	223800 46 g-index
60 all docs	60 docs citations	60 times ranked	2669 citing authors

#	Article	IF	Citations
1	Apoptosisâ€"an introduction. BioEssays, 2003, 25, 888-896.	2.5	381
2	Mammalian Iron Homeostasis in Health and Disease: Uptake, Storage, Transport, and Molecular Mechanisms of Action. Antioxidants and Redox Signaling, 2013, 18, 2473-2507.	5.4	172
3	Voltageâ€dependent anionâ€selective channel (VDAC) in the plasma membrane. FEBS Letters, 2010, 584, 1793-1799.	2.8	144
4	VDAC1 Is a Transplasma Membrane NADH-Ferricyanide Reductase. Journal of Biological Chemistry, 2004, 279, 4811-4819.	3.4	141
5	Two routes of iron accumulation in astrocytes: ascorbate-dependent ferrous iron uptake via the divalent metal transporter (DMT1) plus an independent route for ferric iron. Biochemical Journal, 2010, 432, 123-132.	3.7	88
6	Mitocans: Mitochondrial Targeted Anti-Cancer Drugs as Improved Therapies and Related Patent Documents. Recent Patents on Anti-Cancer Drug Discovery, 2006, 1, 327-346.	1.6	86
7	Cell-free biosynthesis of new cyclosporins.. Journal of Antibiotics, 1989, 42, 1283-1289.	2.0	83
8	Transplasma membrane electron transport: enzymes involved and biological function. Redox Report, 2003, 8, 3-21.	4.5	71
9	Ascorbate and plasma membrane electron transportâ€"Enzymes vs efflux. Free Radical Biology and Medicine, 2009, 47, 485-495.	2.9	68
10	Voltage-dependent anion-selective channel 1 (VDAC1)â€"a mitochondrial protein, rediscovered as a novel enzyme in the plasma membrane. International Journal of Biochemistry and Cell Biology, 2005, 37, 277-282.	2.8	62
11	Plasma Membrane NADH-Oxidoreductase System: A Critical Review of the Structural and Functional Data. Antioxidants and Redox Signaling, 2000, 2, 197-212.	5.4	52
12	Effectors of the mammalian plasma membrane NADH-oxidoreductase system. Short-chain ubiquinone analogues as potent stimulators. Journal of Bioenergetics and Biomembranes, 1996, 28, 531-540.	2.3	47
13	Non-transferrin Iron Reduction and Uptake Are Regulated by Transmembrane Ascorbate Cycling in K562 Cells. Journal of Biological Chemistry, 2008, 283, 12701-12708.	3.4	47
14	Involvement of Reactive Oxygen Species in Capsaicinoid-induced Apoptosis in Transformed Cells. Free Radical Research, 2003, 37, 611-619.	3.3	46
15	Cyclosporin synthetase is a 1.4 MDa multienzyme polypeptide Re-evaluation of the molecular mass of various peptide synthetases. FEBS Letters, 1992, 307, 355-360.	2.8	45
16	Cyclosporin A, an inhibitor of calcineurin, impairs memory formation in day-old chicks. Brain Research, 1996, 730, 107-117.	2.2	41
17	Mitochondrial cytochrome c release is caspase-dependent and does not involve mitochondrial permeability transition in didemnin B-induced apoptosis. Oncogene, 2001, 20, 4085-4094.	5.9	37
18	Targeting mitochondrial permeability in cancer drug development. Molecular Nutrition and Food Research, 2009, 53, 76-86.	3.3	32

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19	The Glutamate Aspartate Transporter (GLAST) Mediates l-Glutamate-Stimulated Ascorbate-Release Via Swelling-Activated Anion Channels in Cultured Neonatal Rodent Astrocytes. Cell Biochemistry and Biophysics, 2013, 65, 107-119.	1.8	32
20	New functions of an old protein: the eukaryotic porin or voltage dependent anion selective channel (VDAC). Italian Journal of Biochemistry, 2003, 52, 17-24.	0.3	29
21	Rapamycin inhibits didemnin B-induced apoptosis in human HL-60 cells: Evidence for the possible involvement of FK506-binding protein 25. Immunology and Cell Biology, 1999, 77, 242-248.	2.3	27
22	2 Biosynthesis and Mechanism of Action of Cyclosporins. Progress in Medicinal Chemistry, 1996, 33, 53-97.	10.4	25
23	Peptidyl-prolyl-cis/trans -isomerase activity may be necessary for memory formation. FEBS Letters, 1998, 431, 386-390.	2.8	25
24	Transplasma membrane electron transport comes in two flavors. BioFactors, 2008, 34, 191-200.	5.4	24
25	Non-ribosomal peptide synthetases as technological platforms for the synthesis of highly modified peptide bioeffectors â€" Cyclosporin synthetase as a complex example. Biotechnology Annual Review, 2003, 9, 151-197.	2.1	22
26	Mapping and Molecular Modeling ofS-Adenosyl-l-methionine Binding Sites inN-Methyltransferase Domains of the Multifunctional Polypeptide Cyclosporin Synthetase. Journal of Biological Chemistry, 2003, 278, 1137-1148.	3.4	22
27	Characterization of VDAC1 as a plasma membrane NADHâ€oxidoreductase. BioFactors, 2004, 21, 215-221.	5.4	21
28	Neurones express glutamine synthetase when deprived of glutamine or interaction with astrocytes. Journal of Neurochemistry, 2010, 114, 1527-1536.	3.9	21
29	Characterization of the N-Methyltransferase Activities of the Multifunctional Polypeptide Cyclosporin Synthetase. Chemistry and Biology, 2011, 18, 464-475.	6.0	21
30	Changes in phosphorylation of Ca2+/calmodulin-dependent protein kinase II (CaMKII) in processing of short-term and long-term memories after passive avoidance learning. Journal of Neuroscience Research, 1999, 55, 557-568.	2.9	20
31	A highly sensitive colorimetric microplate ferrocyanide assay applied to ascorbate-stimulated transplasma membrane ferricyanide reduction and mitochondrial succinate oxidation. Analytical Biochemistry, 2008, 373, 287-295.	2.4	19
32	Inactivation of astrocytic glutamine synthetase by hydrogen peroxide requires iron. Neuroscience Letters, 2011, 490, 27-30.	2.1	19
33	Isolation and Partial Characterization of Cyclosporin Synthetase from a Cyclosporin Non-Producing Mutant ofBeauveria nivea. Biological Chemistry Hoppe-Seyler, 1990, 371, 829-834.	1.4	18
34	Cyclosporin A, FK506 and rapamycin produce multiple, temporally distinct, effects on memory following single-trial, passive avoidance training in the chick. Brain Research, 2002, 927, 180-194.	2.2	18
35	Biosynthesis of cyclosporins and other natural peptidyl prolyl cis/trans isomerase inhibitors. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 2111-2120.	2.4	18
36	Prediction of signaling cross-talks contributing to acquired drug resistance in breast cancer cells by Bayesian statistical modeling. BMC Systems Biology, 2015, 9, 2.	3.0	16

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37	A role for Na+/H+ exchangers and intracellular pH in regulating vitamin C-driven electron transport across the plasma membrane. Biochemical Journal, 2010, 428, 191-200.	3.7	15
38	A chick embryo fibroblast protein kinase recognizing ribosomal protein S6. FEBS Letters, 1985, 185, 272-276.	2.8	14
39	Novel effects on memory observed following unilateral intracranial administration of okadaic acid, cyclosporin A, FK506 and [MeVal4]CyA. Brain Research, 2003, 988, 56-68.	2.2	13
40	Integration of intracellular signaling: Biological analogues of wires, processors and memories organized by a centrosome 3D reference system. BioSystems, 2018, 173, 191-206.	2.0	13
41	Unspecific activation of caspases during the induction of apoptosis by didemnin B in human cell lines. Journal of Cellular Biochemistry, 1999, 72, 269-278.	2.6	12
42	Bayesian model of signal rewiring reveals mechanisms of gene dysregulation in acquired drug resistance in breast cancer. PLoS ONE, 2017, 12, e0173331.	2.5	11
43	Plasma membrane NADHâ€oxidoreductase in cells carrying mitochondrial DNA G11778A mutation and in cells devoid of mitochondrial DNA (Ï⁰). BioFactors, 2004, 20, 189-198.	5.4	9
44	An improved purification procedure for cyclosporin synthetase. Protein Expression and Purification, 2006, 45, 275-287.	1.3	9
45	Transplasma membrane electron transport comes in two flavors. BioFactors, 2008, 34, 191-200.	5.4	9
46	Another piece of the puzzle of apoptotic cytochrome c release. Molecular Microbiology, 2007, 66, 553-556.	2.5	8
47	Is erythroferrone finally the long sought-after systemic erythroid regulator of iron?. World Journal of Biological Chemistry, 2015, 6, 78.	4.3	8
48	Inhibition of AÎ² aggregation and neurotoxicity by the 39â€kDa receptorâ€associated protein. Journal of Neurochemistry, 2010, 112, 1199-1209.	3.9	7
49	Photoaffinity Labeling of the N-methyltransferase Domains of Cyclosporin SynthetaseÂ¶. Photochemistry and Photobiology, 2003, 77, 129.	2.5	7
50	Mitogen-responsive S6 kinase. FEBS Journal, 1989, 183, 245-253.	0.2	5
51	Insulin-induced S6 kinase activation in HeLa cells and its reversal by hyperthermic stress. FEBS Journal, 1989, 183, 255-262.	0.2	5
52	Endothelial Cell Plasma Membrane Biomechanics Mediates Effects of Pro-Inflammatory Factors on Endothelial Mechanosensors: Vicious Circle Formation in Atherogenic Inflammation. Membranes, 2022, 12, 205.	3.0	5
53	Reversible denaturation of cyclosporin synthetase by urea. FEBS Letters, 1996, 380, 157-160.	2.8	3
54	Cyclosporines: Biosynthesis and Beyond. Fungal Biology, 2014, , 65-88.	0.6	3

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55	Two Motors and One Spring: Hypothetic Roles of Non-Muscle Myosin II and Submembrane Actin-Based Cytoskeleton in Cell Volume Sensing. International Journal of Molecular Sciences, 2021, 22, 7967.	4.1	3
56	Effects of Oxygen Depletion on Transmembrane Protein Activities. Current Organic Chemistry, 2015, 19, 2002-2010.	1.6	3
57	Pleiotropic and Potentially Beneficial Effects of Reactive Oxygen Species on the Intracellular Signaling Pathways in Endothelial Cells. Antioxidants, 2021, 10, 904.	5.1	2
58	Photoaffinity Labeling of the N-methyltransferase Domains of Cyclosporin SynthetaseÂ¶. Photochemistry and Photobiology, 2003, 77, 129-137.	2.5	1
59	A Rapid and Specific Microplate Assay for the Determination of Intra- and Extracellular Ascorbate in Cultured Cells. Journal of Visualized Experiments, 2014, , .	0.3	1
60	Bioethics needs a distinct voice if it is to aid science. Nature, 2003, 425, 763-763.	27.8	0