Darius J R Lane

List of Publications by Year
in descending order

61 papers	3,739 citations	117625 34 h-index	128289 60 g-index
62 all docs	62 docs citations	62 times ranked	5821 citing authors

#	Article	IF	Citations
1	Mitochondrial iron trafficking and the integration of iron metabolism between the mitochondrion and cytosol. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10775-10782.	7.1	413
2	Iron and Alzheimerâ€™s Disease: An Update on Emerging Mechanisms. Journal of Alzheimer's Disease, 2018, 64, S379-S395.	2.6	205
3	The active role of vitamin C in mammalian iron metabolism: Much more than just enhanced iron absorption!. Free Radical Biology and Medicine, 2014, 75, 69-83.	2.9	178
4	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
5	Roads to melanoma: Key pathways and emerging players in melanoma progression and oncogenic signaling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 770-784.	4.1	148
6	The old and new biochemistry of polyamines. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2053-2068.	2.4	145
7	Voltageâ€dependent anionâ€selective channel (VDAC) in the plasma membrane. FEBS Letters, 2010, 584, 1793-1799.	2.8	144
8	VDAC1 Is a Transplasma Membrane NADH-Ferricyanide Reductase. Journal of Biological Chemistry, 2004, 279, 4811-4819.	3.4	141
9	The renaissance of polypharmacology in the development of anti-cancer therapeutics: Inhibition of the â€œTriad of Deathâ€• in cancer by Di-2-pyridylketone thiosemicarbazones. Pharmacological Research, 2015, 100, 255-260.	7.1	127
10	Redox cycling metals: Pedaling their roles in metabolism and their use in the development of novel therapeutics. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 727-748.	4.1	111
11	Copper and conquer: copper complexes of di-2-pyridylketone thiosemicarbazones as novel anti-cancer therapeutics. Metallomics, 2016, 8, 874-886.	2.4	105
12	Duodenal Cytochrome b (DCYTB) in Iron Metabolism: An Update on Function and Regulation. Nutrients, 2015, 7, 2274-2296.	4.1	103
13	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
14	Molecular functions of the iron-regulated metastasis suppressor, NDRG1, and its potential as a molecular target for cancer therapy. Biochimica Et Biophysica Acta: Reviews on Cancer, 2014, 1845, 1-19.	7.4	88
15	Mitochondrial Mayhem: The Mitochondrion as a Modulator of Iron Metabolism and Its Role in Disease. Antioxidants and Redox Signaling, 2011, 15, 3003-3019.	5.4	84
16	The Metastasis Suppressor, N-myc Downstream-regulated Gene 1 (NDRG1), Inhibits Stress-induced Autophagy in Cancer Cells. Journal of Biological Chemistry, 2014, 289, 9692-9709.	3.4	83
17	Systematic Review: Quantitative Susceptibility Mapping (QSM) of Brain Iron Profile in Neurodegenerative Diseases. Frontiers in Neuroscience, 2021, 15, 618435.	2.8	83
18	Ascorbate and plasma membrane electron transportâ€"Enzymes vs efflux. Free Radical Biology and Medicine, 2009, 47, 485-495.	2.9	68

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19	The Metastasis Suppressor, N-MYC Downstream-regulated Gene-1 (NDRG1), Down-regulates the ErbB Family of Receptors to Inhibit Downstream Oncogenic Signaling Pathways. Journal of Biological Chemistry, 2016, 291, 1029-1052.	3.4	65
20	The proto-oncogene c-Src and its downstream signaling pathways are inhibited by the metastasis suppressor, NDRG1. Oncotarget, 2015, 6, 8851-8874.	1.8	64
21	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
22	Nitrogen Monoxide (NO) Storage and Transport by Dinitrosyl-Dithiol-Iron Complexes: Long-lived NO That Is Trafficked by Interacting Proteins. Journal of Biological Chemistry, 2012, 287, 6960-6968.	3.4	60
23	N-myc Downstream Regulated 1 (NDRG1) Is Regulated by Eukaryotic Initiation Factor 3a (eIF3a) during Cellular Stress Caused by Iron Depletion. PLoS ONE, 2013, 8, e57273.	2.5	59
24	Ferroptosis and NRF2: an emerging battlefield in the neurodegeneration of Alzheimer's disease. Essays in Biochemistry, 2021, 65, 925-940.	4.7	57
25	Transferrin iron uptake is stimulated by ascorbate via an intracellular reductive mechanism. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 1527-1541.	4.1	53
26	Turning the gun on cancer: Utilizing lysosomal P-glycoprotein as a new strategy to overcome multi-drug resistance. Free Radical Biology and Medicine, 2016, 96, 432-445.	2.9	52
27	Glucose Modulation Induces Lysosome Formation and Increases Lysosomotropic Drug Sequestration via the P-Glycoprotein Drug Transporter. Journal of Biological Chemistry, 2016, 291, 3796-3820.	3.4	51
28	Expanding horizons in iron chelation and the treatment of cancer: Role of iron in the regulation of ER stress and the epithelialâ€"mesenchymal transition. Biochimica Et Biophysica Acta: Reviews on Cancer, 2014, 1845, 166-181.	7.4	50
29	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
30	Frataxin and the molecular mechanism of mitochondrial iron-loading in Friedreich's ataxia. Clinical Science, 2016, 130, 853-870.	4.3	45
31	The molecular effect of metastasis suppressors on Src signaling and tumorigenesis: new therapeutic targets. Oncotarget, 2015, 6, 35522-35541.	1.8	43
32	Coupling of the polyamine and iron metabolism pathways in the regulation of proliferation: Mechanistic links to alterations in key polyamine biosynthetic and catabolic enzymes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2793-2813.	3.8	41
33	Novel Mechanism of Cytotoxicity for the Selective Selenosemicarbazone, 2-Acetylpyridine 4,4-Dimethyl-3-selenosemicarbazone (Ap44mSe): Lysosomal Membrane Permeabilization. Journal of Medicinal Chemistry, 2016, 59, 294-312.	6.4	39
34	Mechanism of the induction of endoplasmic reticulum stress by the anti-cancer agent, di-2-pyridylketone 4,4-dimethyl-3-thiosemicarbazone (Dp44mT): Activation of PERK/eIF2Î±, IRE1Î±, ATF6 and calmodulin kinase. Biochemical Pharmacology, 2016, 109, 27-47.	4.4	36
35	Tumor stressors induce two mechanisms of intracellular P-glycoproteinâ€"mediated resistance that are overcome by lysosomal-targeted thiosemicarbazones. Journal of Biological Chemistry, 2018, 293, 3562-3587.	3.4	36
36	Lysosomal membrane stability plays a major role in the cytotoxic activity of the anti-proliferative agent, di-2-pyridylketone 4,4-dimethyl-3-thiosemicarbazone (Dp44mT). Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1665-1681.	4.1	34

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37	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
38	Selective ferroptosis vulnerability due to familial Alzheimerâ€™s disease presenilin mutations. Cell Death and Differentiation, 2022, 29, 2123-2136.	11.2	32
39	Potentiating the cellular targeting and anti-tumor activity of Dp44mT<i>via</i>binding to human serum albumin: two saturable mechanisms of Dp44mT uptake by cells. Oncotarget, 2015, 6, 10374-10398.	1.8	28
40	Anti-plasmodial activity of aroylhydrazone and thiosemicarbazone iron chelators: Effect on erythrocyte membrane integrity, parasite development and the intracellular labile iron pool. Journal of Inorganic Biochemistry, 2013, 129, 43-51.	3.5	26
41	Transplasma membrane electron transport comes in two flavors. BioFactors, 2008, 34, 191-200.	5.4	24
42	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
43	Biochemistry of cardiomyopathy in the mitochondrial disease Friedreich's ataxia. Biochemical Journal, 2013, 453, 321-336.	3.7	19
44	Exploiting Cancer Metal Metabolism using Anti-Cancer Metal- Binding Agents. Current Medicinal Chemistry, 2019, 26, 302-322.	2.4	19
45	Chaperone turns gatekeeper: PCBP2 and DMT1 form an iron-transport pipeline. Biochemical Journal, 2014, 462, e1-e3.	3.7	17
46	Making a case for albumin â€“ a highly promising drug-delivery system. Future Medicinal Chemistry, 2015, 7, 553-556.	2.3	17
47	IRON METABOLISM AND AUTOPHAGY: A POORLY EXPLORED RELATIONSHIP THAT HAS IMPORTANT CONSEQUENCES FOR HEALTH AND DISEASE. Nagoya Journal of Medical Science, 2015, 77, 1-6.	0.3	17
48	Frataxin, a molecule of mystery: trading stability for function in its iron-binding site. Biochemical Journal, 2010, 426, e1-e3.	3.7	16
49	Bonnie and Clyde: Vitamin C and iron are partners in crime in iron deficiency anaemia and its potential role in the elderly. Aging, 2016, 8, 1150-1152.	3.1	16
50	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
51	Structure-Activity Relationships of Novel Salicylaldehyde Isonicotinoyl Hydrazone (SIH) Analogs: Iron Chelation, Anti-Oxidant and Cytotoxic Properties. PLoS ONE, 2014, 9, e112059.	2.5	15
52	Transcriptional regulation of the cyclin-dependent kinase inhibitor, p21 CIP1/WAF1 , by the chelator, Dp44mT. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 761-774.	2.4	10
53	Transplasma membrane electron transport comes in two flavors. BioFactors, 2008, 34, 191-200.	5.4	9
54	Acireductone dioxygenase 1 (ADI1) is regulated by cellular iron by a mechanism involving the iron chaperone, PCBP1, with PCBP2 acting as a potential co-chaperone. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165844.	3.8	8

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55	Hepcidin, show some self-control! How the hormone of iron metabolism regulates its own expression. Biochemical Journal, 2013, 452, e3-e5.	3.7	6
56	Letter to the Editor: â€œAnalysis of the Interaction of Dp44mT with Human Serum Albumin and Calf Thymus DNA Using Molecular Docking and Spectroscopic Techniquesâ€ International Journal of Molecular Sciences, 2016, 17, 1916.	4.1	3
57	Ascorbate and Tumor Cell Iron Metabolism: The Evolving Story and Its Link to Pathology. Antioxidants and Redox Signaling, 2020, 33, 816-838.	5.4	3
58	William Hunter and radioiodination: revolutions in the labelling of proteins with radionuclides of iodine. Biochemical Journal, 2011, 2011, c1-4.	3.7	3
59	Neuropathological Mechanisms of Î²-N-Methylamino-L-Alanine (BMAA) with a Focus on Iron Overload and Ferroptosis. Neurotoxicity Research, 2022, 40, 614-635.	2.7	2
60	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
61	Can we target the Î±2-macroglobulinâ€“hepcidin interaction to treat pathologic hypoferremia?. Future Medicinal Chemistry, 2014, 6, 13-16.	2.3	0