

Alan J Stewart

List of Publications by Year in descending order

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84
papers

4,059
citations

147566

31
h-index

128067

60
g-index

91
all docs

91
docs citations

91
times ranked

5581
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and immunologic characterization of bovine, horse, and rabbit serum albumins. <i>Molecular Immunology</i> , 2012, 52, 174-182.	1.0	756
2	Leptin and Obesity: Role and Clinical Implication. <i>Frontiers in Endocrinology</i> , 2021, 12, 585887.	1.5	363
3	Albumin as a zinc carrier: properties of its high-affinity zinc-binding site. <i>Biochemical Society Transactions</i> , 2008, 36, 1317-1321.	1.6	203
4	Changes in Plasma Free Fatty Acids Associated with Type-2 Diabetes. <i>Nutrients</i> , 2019, 11, 2022.	1.7	173
5	Interdomain zinc site on human albumin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3701-3706.	3.3	167
6	Structure, Properties, and Engineering of the Major Zinc Binding Site on Human Albumin. <i>Journal of Biological Chemistry</i> , 2009, 284, 23116-23124.	1.6	122
7	Human PHOSPHO1 exhibits high specific phosphoethanolamine and phosphocholine phosphatase activities. <i>Biochemical Journal</i> , 2004, 382, 59-65.	1.7	111
8	GPR39: a Zn ²⁺ -activated G protein-coupled receptor that regulates pancreatic, gastrointestinal and neuronal functions. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 85-95.	2.4	100
9	Role of Tyr84 in controlling the reactivity of Cys34 of human albumin. <i>FEBS Journal</i> , 2005, 272, 353-362.	2.2	97
10	PHOSPHO1: A novel phosphatase specifically expressed at sites of mineralisation in bone and cartilage. <i>Bone</i> , 2004, 34, 629-637.	1.4	89
11	The presence of PHOSPHO1 in matrix vesicles and its developmental expression prior to skeletal mineralization. <i>Bone</i> , 2006, 39, 1000-1007.	1.4	79
12	On the origin of proteins in human drusen: The meet, greet and stick hypothesis. <i>Progress in Retinal and Eye Research</i> , 2019, 70, 55-84.	7.3	77
13	Circulatory zinc transport is controlled by distinct interdomain sites on mammalian albumins. <i>Chemical Science</i> , 2016, 7, 6635-6648.	3.7	67
14	Intracellular Zinc Modulates Cardiac Ryanodine Receptor-mediated Calcium Release. <i>Journal of Biological Chemistry</i> , 2015, 290, 17599-17610.	1.6	64
15	Submicromolar Pulse Dipolar EPR Spectroscopy Reveals Increasing Cu ^{II} Labelling of Double-Histidine Motifs with Lower Temperature. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11681-11685.	7.2	61
16	Allosteric modulation of zinc speciation by fatty acids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 5456-5464.	1.1	60
17	Retention and Silencing of Prepro-GnRH-II and Type II GnRH Receptor Genes in Mammals. <i>Neuroendocrinology</i> , 2009, 90, 416-432.	1.2	58
18	Glycosaminoglycan Neutralization in Coagulation Control. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1258-1270.	1.1	54

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19	Phospholipase C-eta Enzymes as Putative Protein Kinase C and Ca ²⁺ Signalling Components in Neuronal and Neuroendocrine Tissues. <i>Neuroendocrinology</i> , 2007, 86, 243-248.	1.2	50
20	A Molecular Mechanism for Modulating Plasma Zn Speciation by Fatty Acids. <i>Journal of the American Chemical Society</i> , 2012, 134, 1454-1457.	6.6	48
21	Erythritol Attenuates Postprandial Blood Glucose by Inhibiting Î±-Glucosidase. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1401-1407.	2.4	48
22	Coagulatory Defects in Type-1 and Type-2 Diabetes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6345.	1.8	48
23	Atherosclerosis Linked to Aberrant Amino Acid Metabolism and Immunosuppressive Amino Acid Catabolizing Enzymes. <i>Frontiers in Immunology</i> , 2020, 11, 551758.	2.2	44
24	Comparative modelling of human PHOSPHO1 reveals a new group of phosphatases within the haloacid dehalogenase superfamily. <i>Protein Engineering, Design and Selection</i> , 2003, 16, 889-895.	1.0	42
25	Gonadotropin-Releasing Hormone Receptor Levels and Cell Context Affect Tumor Cell Responses to Agonist <i>In vitro</i> and <i>In vivo</i> . <i>Cancer Research</i> , 2008, 68, 6331-6340.	0.4	42
26	Ischemia-modified albumin: Crosstalk between fatty acid and cobalt binding. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2018, 135, 147-157.	1.0	39
27	Differential Expression and Functional Characterization of Luteinizing Hormone Receptor Splice Variants in Human Luteal Cells: Implications for Luteolysis. <i>Endocrinology</i> , 2009, 150, 2873-2881.	1.4	38
28	Plasma free fatty acid levels influence Zn ²⁺ -dependent histidine-rich glycoprotein-heparin interactions via an allosteric switch on serum albumin. <i>Journal of Thrombosis and Haemostasis</i> , 2015, 13, 101-110.	1.9	38
29	Total plasma magnesium, zinc, copper and selenium concentrations in type-I and type-II diabetes. <i>BioMetals</i> , 2019, 32, 123-138.	1.8	38
30	Identification of a novel class of mammalian phosphoinositol-specific phospholipase C enzymes. <i>International Journal of Molecular Medicine</i> , 2005, 15, 117-21.	1.8	38
31	Crosstalk between zinc and free fatty acids in plasma. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 532-542.	1.2	36
32	Elevated expression of hypoxia inducible factor-2Î± in terminally differentiating growth plate chondrocytes. <i>Journal of Cellular Physiology</i> , 2006, 206, 435-440.	2.0	34
33	Probing the substrate specificities of human PHOSPHO1 and PHOSPHO2. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1752, 73-82.	1.1	32
34	Crystal structure of histidine-rich glycoprotein N2 domain reveals redox activity at an interdomain disulfide bridge: implications for angiogenic regulation. <i>Blood</i> , 2014, 123, 1948-1955.	0.6	32
35	Albumin research in the 21st century. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 5351-5353.	1.1	31
36	A metalloproteomic analysis of interactions between plasma proteins and zinc: elevated fatty acid levels affect zinc distribution. <i>Metallomics</i> , 2019, 11, 1805-1819.	1.0	31

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37	Allosteric Inhibition of Cobalt Binding to Albumin by Fatty Acids: Implications for the Detection of Myocardial Ischemia. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 4425-4430.	2.9	30
38	Antiproliferative Effects of GnRH Agonists: Prospects and Problems for Cancer Therapy. <i>Neuroendocrinology</i> , 2008, 88, 67-79.	1.2	29
39	Pulse Dipolar EPR Reveals Double-Histidine Motif Cu ^{II} -NTA Spin-Labeling Robustness against Competitor Ions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2815-2819.	2.1	28
40	Phospholipase C- β 2 is activated by elevated intracellular Ca ²⁺ levels. <i>Cellular Signalling</i> , 2011, 23, 1777-1784.	1.7	27
41	Effects of obesity and estradiol on Na ⁺ /K ⁺ -ATPase and their relevance to cardiovascular diseases. <i>Journal of Endocrinology</i> , 2013, 218, R13-R23.	1.2	27
42	Fatty Acid-Mediated Inhibition of Metal Binding to the Multi-Metal Site on Serum Albumin: Implications for Cardiovascular Disease. <i>Current Topics in Medicinal Chemistry</i> , 2016, 16, 3021-3032.	1.0	27
43	In vivo effects of 17 β -estradiol on cardiac Na ⁺ /K ⁺ -ATPase expression and activity in rat heart. <i>Molecular and Cellular Endocrinology</i> , 2014, 388, 58-68.	1.6	26
44	A high fat diet induces sex-specific differences in hepatic lipid metabolism and nitrite/nitrate in rats. <i>Nitric Oxide - Biology and Chemistry</i> , 2016, 54, 51-59.	1.2	26
45	PLA ₂ and ENPP6 may act in concert to generate phosphocholine from the matrix vesicle membrane during skeletal mineralization. <i>FASEB Journal</i> , 2018, 32, 20-25.	0.2	26
46	Native electrospray mass spectrometry approaches to probe the interaction between zinc and an anti-angiogenic peptide from histidine-rich glycoprotein. <i>Scientific Reports</i> , 2018, 8, 8646.	1.6	25
47	The X Files: "The Mystery of X Chromosome Instability in Alzheimer's Disease" <i>Frontiers in Genetics</i> , 2019, 10, 1368.	1.1	25
48	A role for inositol monophosphatase 1 (IMPA1) in salinity adaptation in the euryhaline eel (<i>Anguilla</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	0.2	24
49	Plasma fatty acid levels may regulate the Zn ²⁺ -dependent activities of histidine-rich glycoprotein. <i>Biochimie</i> , 2009, 91, 1518-1522.	1.3	21
50	Submicromolar Pulse Dipolar EPR Spectroscopy Reveals Increasing Cu ^{II} -labelling of Double-Histidine Motifs with Lower Temperature. <i>Angewandte Chemie</i> , 2019, 131, 11807-11811.	1.6	21
51	Dysregulated Zn ²⁺ homeostasis impairs cardiac type-2 ryanodine receptor and mitsugumin 23 functions, leading to sarcoplasmic reticulum Ca ²⁺ leakage. <i>Journal of Biological Chemistry</i> , 2017, 292, 13361-13373.	1.6	19
52	Lipidomic profiling of plasma free fatty acids in type-1 diabetes highlights specific changes in lipid metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158823.	1.2	17
53	Identification of a Novel Ligand Binding Residue Arg38(1.35) in the Human Gonadotropin-Releasing Hormone Receptor. <i>Molecular Pharmacology</i> , 2008, 73, 75-81.	1.0	16
54	Examining a new role for zinc in regulating calcium release in cardiac muscle. <i>Biochemical Society Transactions</i> , 2015, 43, 359-363.	1.6	16

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55	Albumin-mediated alteration of plasma zinc speciation by fatty acids modulates blood clotting in type-2 diabetes. <i>Chemical Science</i> , 2021, 12, 4079-4093.	3.7	16
56	Phospholipase C- δ Activity May Contribute to Alzheimer's Disease-Associated Calciumopathy. <i>Journal of Alzheimer's Disease</i> , 2012, 30, 737-744.	1.2	15
57	Influence of a High-Fat Diet on Cardiac iNOS in Female Rats. <i>Current Vascular Pharmacology</i> , 2017, 15, 491-500.	0.8	15
58	Reduced Plasma Magnesium Levels in Type-1 Diabetes Associate with Prothrombotic Changes in Fibrin Clotting and Fibrinolysis. <i>Thrombosis and Haemostasis</i> , 2020, 120, 243-252.	1.8	13
59	A Canonical EF ϵ -Loop Directs Ca ²⁺ -Sensitivity in Phospholipase C δ 2. <i>Journal of Cellular Biochemistry</i> , 2014, 115, 557-565.	1.2	12
60	17 β -Estradiol protects against the effects of a high fat diet on cardiac glucose, lipid and nitric oxide metabolism in rats. <i>Molecular and Cellular Endocrinology</i> , 2017, 446, 12-20.	1.6	12
61	Regulation of pituitary inhibin/activin subunits and follistatin gene expression by GnRH in female rats. <i>Journal of Endocrinology</i> , 2011, 210, 71-79.	1.2	11
62	Putative roles for phospholipase C δ enzymes in neuronal Ca ²⁺ signal modulation. <i>Biochemical Society Transactions</i> , 2012, 40, 282-286.	1.6	11
63	Influence of zinc on glycosaminoglycan neutralisation during coagulation. <i>Metallomics</i> , 2018, 10, 1180-1190.	1.0	11
64	Identification of a novel class of mammalian phosphoinositol-specific phospholipase C enzymes. <i>International Journal of Molecular Medicine</i> , 2005, 15, 117.	1.8	9
65	Levothyroxine Treatment and the Risk of Cardiac Arrhythmias – Focus on the Patient Submitted to Thyroid Surgery. <i>Frontiers in Endocrinology</i> , 2021, 12, 758043.	1.5	9
66	Phospholipase C δ 2 is required for retinoic acid-stimulated neurite growth. <i>Journal of Neurochemistry</i> , 2013, 124, 632-644.	2.1	8
67	Quantitative analysis of hydroxyapatite-binding plasma proteins in genotyped individuals with late-stage age-related macular degeneration. <i>Experimental Eye Research</i> , 2018, 172, 21-29.	1.2	8
68	Prognostic features of the tumour microenvironment in oesophageal adenocarcinoma. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188598.	3.3	8
69	The influence of HLA genotype on the development of metal hypersensitivity following joint replacement. <i>Communications Medicine</i> , 2022, 2, .	1.9	8
70	Quantitative proteomic changes in LPS-activated monocyte-derived dendritic cells: A SWATH-MS study. <i>Scientific Reports</i> , 2019, 9, 4343.	1.6	6
71	The Interplay between Non-Esterified Fatty Acids and Plasma Zinc and Its Influence on Thrombotic Risk in Obesity and Type 2 Diabetes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10140.	1.8	6
72	Organism-specific differences in the binding of ketoprofen to serum albumin. <i>IUCr</i> , 2022, 9, 551-561.	1.0	6

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73	Zinc controls RyR2 activity during excitation-contraction coupling. <i>Channels</i> , 2015, 9, 227-229.	1.5	5
74	Phospholipase C- β 2 interacts with nuclear and cytoplasmic LIMK-1 during retinoic acid-stimulated neurite growth. <i>Histochemistry and Cell Biology</i> , 2016, 145, 163-173.	0.8	5
75	Fatty acids may influence insulin dynamics through modulation of albumin-Zn ²⁺ interactions. <i>BioEssays</i> , 2021, 43, e2100172.	1.2	5
76	Albumin-mediated extracellular zinc speciation drives cellular zinc uptake. <i>Chemical Communications</i> , 2022, 58, 7384-7387.	2.2	5
77	Ablation of <i>Enpp6</i> Results in Transient Bone Hypomineralization. <i>JBMR Plus</i> , 2021, 5, e10439.	1.3	4
78	Total plasma magnesium, zinc, copper and selenium concentrations in obese patients before and after bariatric surgery. <i>BioMetals</i> , 2023, 36, 241-253.	1.8	4
79	Changes in cardiac Na ⁺ /K ⁺ -ATPase expression and activity in female rats fed a high-fat diet. <i>Molecular and Cellular Biochemistry</i> , 2017, 436, 49-58.	1.4	3
80	The reduced Co ²⁺ -binding ability of ischaemia-modified albumin is unlikely to be because of oxidative modification of the N-terminus. <i>Liver International</i> , 2015, 35, 2622-2623.	1.9	1
81	Diastolic Calcium Leak and the Role of Zinc. <i>Biophysical Journal</i> , 2016, 110, 433a.	0.2	1
82	Response to Qian and Colvin: Zinc-mediated Regulation of the Cardiac Ryanodine Receptor Occurs via Multiple Binding Sites. <i>Journal of Biological Chemistry</i> , 2016, 291, 4267.	1.6	1
83	Role of free fatty acids in controlling plasma zinc dynamics and its effect on the aggregation properties of platelets. <i>Cardiovascular Research</i> , 2018, 114, S140-S140.	1.8	0
84	Exploring ICP-MS as a versatile technique: From imaging to chemical speciation analysis. <i>Comprehensive Analytical Chemistry</i> , 2022, , .	0.7	0