Theodore L Steck

List of Publications by Citations

69 papers	16,259 citations	38 h-index	69 g-index
69 ext. papers	16,576 ext. citations	4.9 avg, IF	6.21 L-index

#	Paper	IF	Citations
69	Electrophoretic analysis of the major polypeptides of the human erythrocyte membrane. *Biochemistry*, **1971**, 10, 2606-17	3.2	7991
68	The organization of proteins in the human red blood cell membrane. A review. *Journal of Cell Biology*, **1974**, 62, 1-19	7.3	1450
67	Preparation of impermeable ghosts and inside-out vesicles from human erythrocyte membranes. *Methods in Enzymology*, **1974**, 31, 172-80	1.7	851
66	Selective solubilization of proteins and phospholipids from red blood cell membranes by nonionic detergents. *Journal of Supramolecular Structure*, **1973**, 1, 233-48		610
65	Selective solubilization of proteins from red blood cell membranes by protein perturbants. *Journal of Supramolecular Structure*, **1973**, 1, 220-32		563
64	Cross-linking the major proteins of the isolated erythrocyte membrane. *Journal of Molecular Biology*, **1972**, 66, 295-305	6.5	416
63	Proteolytic dissection of band 3, the predominant transmembrane polypeptide of the human erythrocyte membrane. *Biochemistry*, **1976**, 15, 1153-61	3.2	317
62	Disposition of the major proteins in the isolated erythrocyte membrane. Proteolytic dissection. *Biochemistry*, **1971**, 10, 2617-24	3.2	286
61	The band 3 protein of the human red cell membrane: a review. *Journal of Supramolecular Structure*, **1978**, 8, 311-24		284
60	Topographical Distribution of Complex Carbohydrates in the Erythrocyte Membrane. *Journal of Biological Chemistry*, **1974**, 249, 2135-2142	5.4	269
59	Probing red cell membrane cholesterol movement with cyclodextrin. *Biophysical Journal*, **2002**, 83, 2118-25		209
58	Regulation of endoplasmic reticulum cholesterol by plasma membrane cholesterol. *Journal of Lipid Research*, **1999**, 40, 2264-2270	6.3	185
57	Specificity in the Association of Glyceraldehyde 3-Phosphate Dehydrogenase with Isolated Human Erythrocyte Membranes. *Journal of Biological Chemistry*, **1973**, 248, 8457-8464	5.4	181
56	Preparation and analysis of seven major, topographically defined fragments of band 3, the predominant transmembrane polypeptide of human erythrocyte membranes. *Biochemistry*, **1978**, 17, 1216-22	3.2	169
55	Preparation of Impermeable Inside-Out and Right-Side-Out Vesicles from Erythrocyte Membranes **1974**, 245-281		150
54	Interaction of the aldolase and the membrane of human erythrocytes. *Biochemistry*, **1977**, 16, 2966-71	3.2	138
53	How cholesterol homeostasis is regulated by plasma membrane cholesterol in excess of phospholipids. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 11664-7	11.5	128

52	Cholesterol homeostasis and the escape tendency (activity) of plasma membrane cholesterol. *Progress in Lipid Research*, **2008**, 47, 319-32	14.3	114
51	Circulation of cholesterol between lysosomes and the plasma membrane. *Journal of Biological Chemistry*, **1998**, 273, 18915-22	5.4	100
50	Binding of rabbit muscle aldolase to band 3, the predominant polypeptide of the human erythrocyte membrane. *Biochemistry*, **1976**, 15, 1421-4	3.2	100
49	Quantitation of the pool of cholesterol associated with acyl-CoA:cholesterol acyltransferase in human fibroblasts. *Journal of Biological Chemistry*, **1997**, 272, 13103-8	5.4	97
48	Effectors of rapid homeostatic responses of endoplasmic reticulum cholesterol and 3-hydroxy-3-methylglutaryl-CoA reductase. *Journal of Biological Chemistry*, **2008**, 283, 1445-1455	5.4	87
47	The sub-membrane reticulum of the human erythrocyte: a scanning electron microscope study. *Journal of Supramolecular Structure*, **1977**, 6, 301-11		85
46	Cell cholesterol homeostasis: mediation by active cholesterol. *Trends in Cell Biology*, **2010**, 20, 680-7	18.3	84
45	Cation-impermeable inside-out and right-side-out vesicles from human erythrocyte membranes. *Nature: New Biology*, **1972**, 240, 26-8		78
44	Activation of membrane cholesterol by displacement from phospholipids. *Journal of Biological Chemistry*, **2005**, 280, 36126-31	5.4	69
43	Host-directed antimicrobial drugs with broad-spectrum efficacy against intracellular bacterial pathogens. *MBio*, **2014**, 5, e01534-14	7.8	64
42	Transverse distribution of plasma membrane bilayer cholesterol: Picking sides. *Traffic*, **2018**, 19, 750-760	5.7	63
41	The role of intracellular cholesterol transport in cholesterol homeostasis. *Trends in Cell Biology*, **1996**, 6, 205-8	18.3	59
40	Cholesterol oxidase susceptibility of the red cell membrane. *Biochimica Et Biophysica Acta - Biomembranes*, **1984**, 769, 551-62	3.8	56
39	Molecular mechanism for differential recognition of membrane phosphatidylserine by the immune regulatory receptor Tim4. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1463-72	11.5	54
38	Active membrane cholesterol as a physiological effector. *Chemistry and Physics of Lipids*, **2016**, 199, 74-93	3.7	52
37	A model for the behavior of vesicles in density gradients: implications for fractionation. *Biochimica Et Biophysica Acta - Biomembranes*, **1970**, 203, 385-93	3.8	52
36	Role of the bilayer in the shape of the isolated erythrocyte membrane. *Journal of Membrane Biology*, **1982**, 69, 113-23	2.3	51
35	Fine structure of the band 3 protein in human red cell membranes: freeze-fracture studies. *Journal of Supramolecular Structure*, **1978**, 8, 325-35		43

34	Stability and stoichiometry of bilayer phospholipid-cholesterol complexes: relationship to cellular sterol distribution and homeostasis. *Biochemistry*, **2013**, 52, 6950-9	3.2	39
33	Dynamics of lysosomal cholesterol in Niemann-Pick type C and normal human fibroblasts. *Journal of Lipid Research*, **2002**, 43, 198-204	6.3	39
32	Pathway of Maternal Serotonin to the Human Embryo and Fetus. *Endocrinology*, **2018**, 159, 1609-1629	4.8	38
31	Dynamics of lysosomal cholesterol in Niemann-Pick type C and normal human fibroblasts. *Journal of Lipid Research*, **2002**, 43, 198-204	6.3	38
30	Analysis of successive endocytic compartments isolated from Dictyostelium discoideum by magnetic fractionation. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1994**, 1224, 237-46	4.9	37
29	Characterization of a vacuolar proton ATPase in Dictyostelium discoideum. *Biochimica Et Biophysica Acta - Biomembranes*, **1989**, 982, 271-8	3.8	36
28	Regulation of fibroblast mitochondrial 27-hydroxycholesterol production by active plasma membrane cholesterol. *Journal of Lipid Research*, **2009**, 50, 1881-8	6.3	35
27	Four cholesterol-sensing proteins. *Current Opinion in Structural Biology*, **1998**, 8, 435-9	8.1	34
26	Mechanism of red blood cell acanthocytosis and echinocytosis in vivo. *Journal of Membrane Biology*, **1984**, 77, 153-9	2.3	32
25	An immunological study of band 3, the anion transport protein of the human red blood cell membrane. *Biochimica Et Biophysica Acta (BBA) - Protein Structure*, **1980**, 623, 171-82		31
24	Activation of membrane cholesterol by 63 amphipaths. *Biochemistry*, **2009**, 48, 8505-15	3.2	30
23	A system for preparative polyacrylamide gel electrophoresis in sodium dodecyl sulfate. *Analytical Biochemistry*, **1978**, 86, 78-89	3.1	30
22	Pyruvate flux into resealed ghosts from human erythrocytes. *Biochimica Et Biophysica Acta - Biomembranes*, **1976**, 433, 39-53	3.8	27
21	Selective solubilization of red blood cell membrane proteins with guanidine hydrochloride. *Biochimica Et Biophysica Acta - Biomembranes*, **1972**, 255, 553-6	3.8	26
20	Scrambling of phospholipids activates red cell membrane cholesterol. *Biochemistry*, **2007**, 46, 2233-8	3.2	25
19	Essentially all excess fibroblast cholesterol moves from plasma membranes to intracellular compartments. *PLoS ONE*, **2014**, 9, e98482	3.7	25
18	Pyruvate transport into inside-out vesicles isolated from human erythrocyte membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **1977**, 468, 305-17	3.8	21
17	Adenosine 3\5\monophosphate binds only to the inner surface of human erythrocyte membranes. *Biochemical and Biophysical Research Communications*, **1973**, 54, 116-22	3.4	21

16	Activation mobilizes the cholesterol in the late endosomes-lysosomes of Niemann Pick type C cells. *PLoS ONE*, **2012**, 7, e30051	3.7	19
15	Osmotic homeostasis in Dictyostelium discoideum: excretion of amino acids and ingested solutes. *Journal of Eukaryotic Microbiology*, **1997**, 44, 503-10	3.6	18
14	Late events in the intracellular sorting of major histocompatibility complex class II molecules are regulated by the 80-82 segment of the class II beta chain. *European Journal of Immunology*, **1997**, 27, 1479-88	6.1	17
13	Cholesterol displacement from membrane phospholipids by hexadecanol. *Biophysical Journal*, **2007** , 93, 2038-47	2.9	17
12	Red Cell Shape **1989**, 205-246		17
11	Hemolytic holes in human erythrocyte membrane ghosts. *Methods in Enzymology*, **1989**, 173, 356-67	1.7	16
10	How slow is the transbilayer diffusion (flip-flop) of cholesterol?. *Biophysical Journal*, **2012**, 102, 945-6; author reply 947-9	2.9	14
9	Heterogeneity in the conformation of different protein fractions from the human erythrocyte membrane. *Journal of Supramolecular Structure*, **1976**, 4, 161-8		14
8	The exchange of erythrocyte membrane phospholipids with rat liver extracts in vitro. *Journal of Supramolecular Structure*, **1976**, 4, 169-80		13
7	Effect of protein kinase C on endoplasmic reticulum cholesterol. *Biochemical and Biophysical Research Communications*, **2002**, 290, 488-93	3.4	12
6	SCAP, an ER sensor that regulates cell cholesterol. *Developmental Cell*, **2002**, 3, 306-8	10.2	10
5	Shape determinants of McLeod acanthocytes. *Journal of Membrane Biology*, **1989**, 107, 213-8	2.3	8
4	Protein associations with band 3 at cytoplasmic surface of human erythrocyte membrane. *Methods in Enzymology*, **1989**, 173, 513-9	1.7	8
3	Active cholesterol 20 years on. *Traffic*, **2020**, 21, 662-674	5.7	5
2	How Tim proteins differentially exploit membrane features to attain robust target sensitivity. *Biophysical Journal*, **2021**, 120, 4891-4902	2.9	2
1	A basic model for cell cholesterol homeostasis. *Traffic*, **2021**, 22, 471-481	5.7	0