

Theodore L Steck

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	How Tim proteins differentially exploit membrane features to attain robust target sensitivity. <i>Biophysical Journal</i> , 2021 , 120, 4891-4902	2.9	2
68	A basic model for cell cholesterol homeostasis. <i>Traffic</i> , 2021 , 22, 471-481	5.7	0
67	Active cholesterol 20 years on. <i>Traffic</i> , 2020 , 21, 662-674	5.7	5
66	Pathway of Maternal Serotonin to the Human Embryo and Fetus. <i>Endocrinology</i> , 2018 , 159, 1609-1629	4.8	38
65	Transverse distribution of plasma membrane bilayer cholesterol: Picking sides. <i>Traffic</i> , 2018 , 19, 750-760	5.7	63
64	Active membrane cholesterol as a physiological effector. <i>Chemistry and Physics of Lipids</i> , 2016 , 199, 74-93	3.7	52
63	Host-directed antimicrobial drugs with broad-spectrum efficacy against intracellular bacterial pathogens. <i>MBio</i> , 2014 , 5, e01534-14	7.8	64
62	Molecular mechanism for differential recognition of membrane phosphatidylserine by the immune regulatory receptor Tim4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1463-72	11.5	54
61	Essentially all excess fibroblast cholesterol moves from plasma membranes to intracellular compartments. <i>PLoS ONE</i> , 2014 , 9, e98482	3.7	25
60	Stability and stoichiometry of bilayer phospholipid-cholesterol complexes: relationship to cellular sterol distribution and homeostasis. <i>Biochemistry</i> , 2013 , 52, 6950-9	3.2	39
59	How slow is the transbilayer diffusion (flip-flop) of cholesterol?. <i>Biophysical Journal</i> , 2012 , 102, 945-6; author reply 947-9	2.9	14
58	Activation mobilizes the cholesterol in the late endosomes-lysosomes of Niemann Pick type C cells. <i>PLoS ONE</i> , 2012 , 7, e30051	3.7	19
57	Cell cholesterol homeostasis: mediation by active cholesterol. <i>Trends in Cell Biology</i> , 2010 , 20, 680-7	18.3	84
56	Regulation of fibroblast mitochondrial 27-hydroxycholesterol production by active plasma membrane cholesterol. <i>Journal of Lipid Research</i> , 2009 , 50, 1881-8	6.3	35
55	Activation of membrane cholesterol by 63 amphipaths. <i>Biochemistry</i> , 2009 , 48, 8505-15	3.2	30
54	Cholesterol homeostasis and the escape tendency (activity) of plasma membrane cholesterol. <i>Progress in Lipid Research</i> , 2008 , 47, 319-32	14.3	114
53	Effectors of rapid homeostatic responses of endoplasmic reticulum cholesterol and 3-hydroxy-3-methylglutaryl-CoA reductase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 1445-1455	5.4	87

52	Scrambling of phospholipids activates red cell membrane cholesterol. <i>Biochemistry</i> , 2007 , 46, 2233-8	3.2	25
51	Cholesterol displacement from membrane phospholipids by hexadecanol. <i>Biophysical Journal</i> , 2007 , 93, 2038-47	2.9	17
50	Activation of membrane cholesterol by displacement from phospholipids. <i>Journal of Biological Chemistry</i> , 2005 , 280, 36126-31	5.4	69
49	How cholesterol homeostasis is regulated by plasma membrane cholesterol in excess of phospholipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 11664-7	11.5	128
48	Effect of protein kinase C on endoplasmic reticulum cholesterol. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 290, 488-93	3.4	12
47	Probing red cell membrane cholesterol movement with cyclodextrin. <i>Biophysical Journal</i> , 2002 , 83, 2118-25	2.5	209
46	SCAP, an ER sensor that regulates cell cholesterol. <i>Developmental Cell</i> , 2002 , 3, 306-8	10.2	10
45	Dynamics of lysosomal cholesterol in Niemann-Pick type C and normal human fibroblasts. <i>Journal of Lipid Research</i> , 2002 , 43, 198-204	6.3	39
44	Dynamics of lysosomal cholesterol in Niemann-Pick type C and normal human fibroblasts. <i>Journal of Lipid Research</i> , 2002 , 43, 198-204	6.3	38
43	Regulation of endoplasmic reticulum cholesterol by plasma membrane cholesterol. <i>Journal of Lipid Research</i> , 1999 , 40, 2264-2270	6.3	185
42	Four cholesterol-sensing proteins. <i>Current Opinion in Structural Biology</i> , 1998 , 8, 435-9	8.1	34
41	Circulation of cholesterol between lysosomes and the plasma membrane. <i>Journal of Biological Chemistry</i> , 1998 , 273, 18915-22	5.4	100
40	Quantitation of the pool of cholesterol associated with acyl-CoA:cholesterol acyltransferase in human fibroblasts. <i>Journal of Biological Chemistry</i> , 1997 , 272, 13103-8	5.4	97
39	Osmotic homeostasis in <i>Dictyostelium discoideum</i> : excretion of amino acids and ingested solutes. <i>Journal of Eukaryotic Microbiology</i> , 1997 , 44, 503-10	3.6	18
38	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. <i>European Journal of Immunology</i> , 1997 , 27, 1479-88	6.1	17
37	The role of intracellular cholesterol transport in cholesterol homeostasis. <i>Trends in Cell Biology</i> , 1996 , 6, 205-8	18.3	59
36	Analysis of successive endocytic compartments isolated from <i>Dictyostelium discoideum</i> by magnetic fractionation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1994 , 1224, 237-46	4.9	37
35	Shape determinants of McLeod acanthocytes. <i>Journal of Membrane Biology</i> , 1989 , 107, 213-8	2.3	8

34	Characterization of a vacuolar proton ATPase in Dictyostelium discoideum. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 982, 271-8	3.8	36
33	Hemolytic holes in human erythrocyte membrane ghosts. <i>Methods in Enzymology</i> , 1989 , 173, 356-67	1.7	16
32	Protein associations with band 3 at cytoplasmic surface of human erythrocyte membrane. <i>Methods in Enzymology</i> , 1989 , 173, 513-9	1.7	8
31	Red Cell Shape 1989 , 205-246		17
30	Cholesterol oxidase susceptibility of the red cell membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984 , 769, 551-62	3.8	56
29	Mechanism of red blood cell acanthocytosis and echinocytosis in vivo. <i>Journal of Membrane Biology</i> , 1984 , 77, 153-9	2.3	32
28	Role of the bilayer in the shape of the isolated erythrocyte membrane. <i>Journal of Membrane Biology</i> , 1982 , 69, 113-23	2.3	51
27	An immunological study of band 3, the anion transport protein of the human red blood cell membrane. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1980 , 623, 171-82		31
26	A system for preparative polyacrylamide gel electrophoresis in sodium dodecyl sulfate. <i>Analytical Biochemistry</i> , 1978 , 86, 78-89	3.1	30
25	The band 3 protein of the human red cell membrane: a review. <i>Journal of Supramolecular Structure</i> , 1978 , 8, 311-24		284
24	Fine structure of the band 3 protein in human red cell membranes: freeze-fracture studies. <i>Journal of Supramolecular Structure</i> , 1978 , 8, 325-35		43
23	Preparation and analysis of seven major, topographically defined fragments of band 3, the predominant transmembrane polypeptide of human erythrocyte membranes. <i>Biochemistry</i> , 1978 , 17, 1216-22	3.2	169
22	Interaction of the aldolase and the membrane of human erythrocytes. <i>Biochemistry</i> , 1977 , 16, 2966-71	3.2	138
21	Pyruvate transport into inside-out vesicles isolated from human erythrocyte membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977 , 468, 305-17	3.8	21
20	The sub-membrane reticulum of the human erythrocyte: a scanning electron microscope study. <i>Journal of Supramolecular Structure</i> , 1977 , 6, 301-11		85
19	Proteolytic dissection of band 3, the predominant transmembrane polypeptide of the human erythrocyte membrane. <i>Biochemistry</i> , 1976 , 15, 1153-61	3.2	317
18	Binding of rabbit muscle aldolase to band 3, the predominant polypeptide of the human erythrocyte membrane. <i>Biochemistry</i> , 1976 , 15, 1421-4	3.2	100
17	Pyruvate flux into resealed ghosts from human erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1976 , 433, 39-53	3.8	27

16	Heterogeneity in the conformation of different protein fractions from the human erythrocyte membrane. <i>Journal of Supramolecular Structure</i> , 1976 , 4, 161-8		14
15	The exchange of erythrocyte membrane phospholipids with rat liver extracts in vitro. <i>Journal of Supramolecular Structure</i> , 1976 , 4, 169-80		13
14	The organization of proteins in the human red blood cell membrane. A review. <i>Journal of Cell Biology</i> , 1974 , 62, 1-19	7.3	1450
13	Preparation of impermeable ghosts and inside-out vesicles from human erythrocyte membranes. <i>Methods in Enzymology</i> , 1974 , 31, 172-80	1.7	851
12	Preparation of Impermeable Inside-Out and Right-Side-Out Vesicles from Erythrocyte Membranes 1974 , 245-281		150
11	Topographical Distribution of Complex Carbohydrates in the Erythrocyte Membrane. <i>Journal of Biological Chemistry</i> , 1974 , 249, 2135-2142	5.4	269
10	Selective solubilization of proteins from red blood cell membranes by protein perturbants. <i>Journal of Supramolecular Structure</i> , 1973 , 1, 220-32		563
9	Selective solubilization of proteins and phospholipids from red blood cell membranes by nonionic detergents. <i>Journal of Supramolecular Structure</i> , 1973 , 1, 233-48		610
8	Adenosine 3',5'-monophosphate binds only to the inner surface of human erythrocyte membranes. <i>Biochemical and Biophysical Research Communications</i> , 1973 , 54, 116-22	3.4	21
7	Specificity in the Association of Glyceraldehyde 3-Phosphate Dehydrogenase with Isolated Human Erythrocyte Membranes. <i>Journal of Biological Chemistry</i> , 1973 , 248, 8457-8464	5.4	181
6	Cation-impermeable inside-out and right-side-out vesicles from human erythrocyte membranes. <i>Nature: New Biology</i> , 1972 , 240, 26-8		78
5	Selective solubilization of red blood cell membrane proteins with guanidine hydrochloride. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1972 , 255, 553-6	3.8	26
4	Cross-linking the major proteins of the isolated erythrocyte membrane. <i>Journal of Molecular Biology</i> , 1972 , 66, 295-305	6.5	416
3	Disposition of the major proteins in the isolated erythrocyte membrane. Proteolytic dissection. <i>Biochemistry</i> , 1971 , 10, 2617-24	3.2	286
2	Electrophoretic analysis of the major polypeptides of the human erythrocyte membrane. <i>Biochemistry</i> , 1971 , 10, 2606-17	3.2	7991
1	A model for the behavior of vesicles in density gradients: implications for fractionation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1970 , 203, 385-93	3.8	52