

William S Davidson

List of Publications by Citations

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93
papers

6,094
citations

36
h-index

77
g-index

100
ext. papers

6,909
ext. citations

6.6
avg, IF

5.51
L-index

#	Paper	IF	Citations
93	Stabilization of alpha-synuclein secondary structure upon binding to synthetic membranes. <i>Journal of Biological Chemistry</i> , 1998 , 273, 9443-9	5.4	1165
92	Cholesterol efflux and atheroprotection: advancing the concept of reverse cholesterol transport. <i>Circulation</i> , 2012 , 125, 1905-19	16.7	614
91	Proteomic analysis of defined HDL subpopulations reveals particle-specific protein clusters: relevance to antioxidative function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 870-6	9.4	317
90	Proteomic diversity of high density lipoproteins: our emerging understanding of its importance in lipid transport and beyond. <i>Journal of Lipid Research</i> , 2013 , 54, 2575-85	6.3	253
89	High-density lipoproteins: a consensus statement from the National Lipid Association. <i>Journal of Clinical Lipidology</i> , 2013 , 7, 484-525	4.9	215
88	Apolipoprotein A-I structural organization in high-density lipoproteins isolated from human plasma. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 416-22	17.6	177
87	Proteomic characterization of human plasma high density lipoprotein fractionated by gel filtration chromatography. <i>Journal of Proteome Research</i> , 2010 , 9, 5239-49	5.6	177
86	Structure of apolipoprotein A-I in spherical high density lipoproteins of different sizes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12176-81	11.5	166
85	The structure of apolipoprotein A-I in high density lipoproteins. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22249-53	5.4	159
84	Structure of HDL: particle subclasses and molecular components. <i>Handbook of Experimental Pharmacology</i> , 2015 , 224, 3-51	3.2	130
83	The effect of high density lipoprotein phospholipid acyl chain composition on the efflux of cellular free cholesterol. <i>Journal of Biological Chemistry</i> , 1995 , 270, 5882-90	5.4	119
82	High density lipoprotein: it's not just about lipid transport anymore. <i>Trends in Endocrinology and Metabolism</i> , 2011 , 22, 9-15	8.8	116
81	ABCA1-induced cell surface binding sites for ApoA-I. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1603-9	9.4	111
80	Apolipoprotein A-IV inhibits experimental colitis. <i>Journal of Clinical Investigation</i> , 2004 , 114, 260-269	15.9	110
79	Effects of acceptor particle size on the efflux of cellular free cholesterol. <i>Journal of Biological Chemistry</i> , 1995 , 270, 17106-113	5.4	105
78	The role of apolipoprotein A-I helix 10 in apolipoprotein-mediated cholesterol efflux via the ATP-binding cassette transporter ABCA1. <i>Journal of Biological Chemistry</i> , 2002 , 277, 39477-84	5.4	99
77	A mass spectrometric determination of the conformation of dimeric apolipoprotein A-I in discoidal high density lipoproteins. <i>Biochemistry</i> , 2005 , 44, 8600-7	3.2	97

76	A three-dimensional molecular model of lipid-free apolipoprotein A-I determined by cross-linking/mass spectrometry and sequence threading. <i>Biochemistry</i> , 2005 , 44, 2759-69	3.2	91
75	The spatial organization of apolipoprotein A-I on the edge of discoidal high density lipoprotein particles: a mass spectrometry study. <i>Journal of Biological Chemistry</i> , 2003 , 278, 27199-207	5.4	91
74	Loss of microRNA-128 promotes cardiomyocyte proliferation and heart regeneration. <i>Nature Communications</i> , 2018 , 9, 700	17.4	79
73	Apolipoprotein A-IV improves glucose homeostasis by enhancing insulin secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9641-6	11.5	76
72	Apolipoprotein A-I adopts a belt-like orientation in reconstituted high density lipoproteins. <i>Journal of Biological Chemistry</i> , 2001 , 276, 42965-70	5.4	69
71	Apolipoprotein A-IV inhibits experimental colitis. <i>Journal of Clinical Investigation</i> , 2004 , 114, 260-9	15.9	69
70	Structural organization of the N-terminal domain of apolipoprotein A-I: studies of tryptophan mutants. <i>Biochemistry</i> , 1999 , 38, 14387-95	3.2	68
69	Ceramide enhances cholesterol efflux to apolipoprotein A-I by increasing the cell surface presence of ATP-binding cassette transporter A1. <i>Journal of Biological Chemistry</i> , 2003 , 278, 40121-7	5.4	67
68	Apolipoprotein structural organization in high density lipoproteins: belts, bundles, hinges and hairpins. <i>Current Opinion in Lipidology</i> , 2005 , 16, 295-300	4.4	67
67	Helix orientation of the functional domains in apolipoprotein e in discoidal high density lipoprotein particles. <i>Journal of Biological Chemistry</i> , 2004 , 279, 14273-9	5.4	66
66	Identification and structural ramifications of a hinge domain in apolipoprotein A-I discoidal high-density lipoproteins of different size. <i>Biochemistry</i> , 2004 , 43, 11717-26	3.2	61
65	The effects of type 2 diabetes on lipoprotein composition and arterial stiffness in male youth. <i>Diabetes</i> , 2013 , 62, 2958-67	0.9	55
64	Multi-dimensional co-separation analysis reveals protein-protein interactions defining plasma lipoprotein subspecies. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 3123-34	7.6	53
63	A comparison of the mouse and human lipoproteome: suitability of the mouse model for studies of human lipoproteins. <i>Journal of Proteome Research</i> , 2015 , 14, 2686-95	5.6	51
62	An amphipathic helical region of the N-terminal barrel of phospholipid transfer protein is critical for ABCA1-dependent cholesterol efflux. <i>Journal of Biological Chemistry</i> , 2008 , 283, 11541-9	5.4	44
61	Distinct Proteomic Signatures in 16 HDL (High-Density Lipoprotein) Subspecies. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 2827-2842	9.4	44
60	Red Blood Cell Dysfunction Induced by High-Fat Diet: Potential Implications for Obesity-Related Atherosclerosis. <i>Circulation</i> , 2015 , 132, 1898-908	16.7	42
59	The effects of apolipoprotein B depletion on HDL subspecies composition and function. <i>Journal of Lipid Research</i> , 2016 , 57, 674-86	6.3	40

58	Apolipoprotein A-IV binds $\alpha\text{IIb}\beta\text{3}$ integrin and inhibits thrombosis. <i>Nature Communications</i> , 2018 , 9, 3608	17.4	38
57	A consensus model of human apolipoprotein A-I in its monomeric and lipid-free state. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 1093-1099	17.6	36
56	Apolipoprotein A-IV reduces hepatic gluconeogenesis through nuclear receptor NR1D1. <i>Journal of Biological Chemistry</i> , 2014 , 289, 2396-404	5.4	34
55	The structure of dimeric apolipoprotein A-IV and its mechanism of self-association. <i>Structure</i> , 2012 , 20, 767-79	5.2	34
54	Apolipoprotein A-II alters the proteome of human lipoproteins and enhances cholesterol efflux from ABCA1. <i>Journal of Lipid Research</i> , 2017 , 58, 1374-1385	6.3	32
53	A thumbwheel mechanism for APOA1 activation of LCAT activity in HDL. <i>Journal of Lipid Research</i> , 2018 , 59, 1244-1255	6.3	32
52	Characterization of homodimer interfaces with cross-linking mass spectrometry and isotopically labeled proteins. <i>Nature Protocols</i> , 2018 , 13, 431-458	18.8	31
51	A three-dimensional homology model of lipid-free apolipoprotein A-IV using cross-linking and mass spectrometry. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17314-23	5.4	31
50	Structure of human apolipoprotein A-IV: a distinct domain architecture among exchangeable apolipoproteins with potential functional implications. <i>Biochemistry</i> , 2004 , 43, 10719-29	3.2	31
49	The structure of apolipoprotein A-II in discoidal high density lipoproteins. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9713-9721	5.4	29
48	High density lipoproteins selectively promote the survival of human regulatory T cells. <i>Journal of Lipid Research</i> , 2017 , 58, 1514-1523	6.3	28
47	High-Density Lipoprotein Proteomics: Identifying New Drug Targets and Biomarkers by Understanding Functionality. <i>Current Cardiovascular Risk Reports</i> , 2010 , 4, 1-8	0.9	28
46	Purification of recombinant apolipoproteins A-I and A-IV and efficient affinity tag cleavage by tobacco etch virus protease. <i>Journal of Lipid Research</i> , 2009 , 50, 1497-504	6.3	26
45	Enterically derived high-density lipoprotein restrains liver injury through the portal vein. <i>Science</i> , 2021 , 373,	33.3	23
44	The structure of human apolipoprotein A-IV as revealed by stable isotope-assisted cross-linking, molecular dynamics, and small angle x-ray scattering. <i>Journal of Biological Chemistry</i> , 2014 , 289, 5596-608	5.4	22
43	A proteolytic method for distinguishing between lipid-free and lipid-bound apolipoprotein A-I. <i>Journal of Lipid Research</i> , 2001 , 42, 864-872	6.3	22
42	Modulation of apolipoprotein A-IV lipid binding by an interaction between the N and C termini. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28385-28394	5.4	21
41	Bacterial expression and characterization of mature apolipoprotein A-I. <i>Protein Expression and Purification</i> , 2002 , 25, 353-61	2	21

40	Mapping Atheroprotective Functions and Related Proteins/Lipoproteins in Size Fractionated Human Plasma. <i>Molecular and Cellular Proteomics</i> , 2017 , 16, 680-693	7.6	20
39	Specific sequences in the N and C termini of apolipoprotein A-IV modulate its conformation and lipid association. <i>Journal of Biological Chemistry</i> , 2005 , 280, 38576-82	5.4	19
38	Ceramide structural features required to stimulate ABCA1-mediated cholesterol efflux to apolipoprotein A-I. <i>Journal of Lipid Research</i> , 2006 , 47, 2781-8	6.3	16
37	Network-Based Analysis on Orthogonal Separation of Human Plasma Uncovers Distinct High Density Lipoprotein Complexes. <i>Journal of Proteome Research</i> , 2015 , 14, 3082-94	5.6	15
36	Protein-Defined Subspecies of HDLs (High-Density Lipoproteins) and Differential Risk of Coronary Heart Disease in 4 Prospective Studies. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 2714-2727	9.4	15
35	Obesity is associated with an altered HDL subspecies profile among adolescents with metabolic disease. <i>Journal of Lipid Research</i> , 2017 , 58, 1916-1923	6.3	14
34	Interaction of ApoA-IV with NR4A1 and NR1D1 Represses G6Pase and PEPCCK Transcription: Nuclear Receptor-Mediated Downregulation of Hepatic Gluconeogenesis in Mice and a Human Hepatocyte Cell Line. <i>PLoS ONE</i> , 2015 , 10, e0142098	3.7	14
33	An Evaluation of the Crystal Structure of C-terminal Truncated Apolipoprotein A-I in Solution Reveals Structural Dynamics Related to Lipid Binding. <i>Journal of Biological Chemistry</i> , 2016 , 291, 5439-5454	5.4	13
32	The biotin-capture lipid affinity assay: a rapid method for determining lipid binding parameters for apolipoproteins. <i>Journal of Lipid Research</i> , 2006 , 47, 440-9	6.3	13
31	The role of hydrophobic and negatively charged surface patches of lipid-free apolipoprotein A-I in lipid binding and ABCA1-mediated cholesterol efflux. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 64-9	5	12
30	High yield expression and purification of recombinant human apolipoprotein A-II in Escherichia coli. <i>Journal of Lipid Research</i> , 2012 , 53, 1708-15	6.3	12
29	Diabetes Impairs Cellular Cholesterol Efflux From ABCA1 to Small HDL Particles. <i>Circulation Research</i> , 2020 , 127, 1198-1210	15.7	11
28	Albuminuria, the High-Density Lipoprotein Proteome, and Coronary Artery Calcification in Type 1 Diabetes Mellitus. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 1483-1491	9.4	10
27	Role of Conserved Proline Residues in Human Apolipoprotein A-IV Structure and Function. <i>Journal of Biological Chemistry</i> , 2015 , 290, 10689-702	5.4	10
26	Superiority of lipoprotein particle number to detect associations with arterial thickness and stiffness in obese youth with and without prediabetes. <i>Journal of Clinical Lipidology</i> , 2016 , 10, 610-8	4.9	10
25	Small-angle X-ray scattering of apolipoprotein A-IV reveals the importance of its termini for structural stability. <i>Journal of Biological Chemistry</i> , 2013 , 288, 4854-66	5.4	10
24	High-Density Lipoprotein Subspecies in Health and Human Disease: Focus on Type 2 Diabetes. <i>Methodist DeBakey Cardiovascular Journal</i> , 2019 , 15, 55-61	2.1	8
23	Specific sequences in N termini of apolipoprotein A-IV modulate its anorectic effect. <i>Physiology and Behavior</i> , 2013 , 120, 136-42	3.5	7

22	A Comparison of Methods To Enhance Protein Detection of Lipoproteins by Mass Spectrometry. <i>Journal of Proteome Research</i> , 2015 , 14, 2943-50	5.6	7
21	Characterization of LP-Z Lipoprotein Particles and Quantification in Subjects with Liver Disease Using a Newly Developed NMR-Based Assay. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	6
20	The Difference Between High Density Lipoprotein Subfractions and Subspecies: an Evolving Model in Cardiovascular Disease and Diabetes. <i>Current Atherosclerosis Reports</i> , 2021 , 23, 23	6	6
19	Impact of genetic deletion of platform apolipoproteins on the size distribution of the murine lipoproteome. <i>Journal of Proteomics</i> , 2016 , 146, 184-94	3.9	6
18	Modified sites and functional consequences of 4-oxo-2-nonenal adducts in HDL that are elevated in familial hypercholesterolemia. <i>Journal of Biological Chemistry</i> , 2019 , 294, 19022-19033	5.4	6
17	Apolipoprotein A-IV Enhances Fatty Acid Uptake by Adipose Tissues of Male Mice via Sympathetic Activation. <i>Endocrinology</i> , 2020 , 161,	4.8	5
16	Effects of Multiple Freeze/Thaw Cycles on Measurements of Potential Novel Biomarkers Associated With Adverse Pregnancy Outcomes 2017 , 2,		4
15	Studies in genetically modified mice implicate maternal HDL as a mediator of fetal growth. <i>FASEB Journal</i> , 2018 , 32, 717-727	0.9	3
14	Low-density lipoprotein receptor-related protein 1 (LRP1) is a novel receptor for apolipoprotein A4 (APOA4) in adipose tissue. <i>Scientific Reports</i> , 2021 , 11, 13289	4.9	3
13	Pregnancy is accompanied by larger high density lipoprotein particles and compositionally distinct subspecies. <i>Journal of Lipid Research</i> , 2021 , 62, 100107	6.3	3
12	The HDL Proteome Watch: Compilation of studies leads to new insights on HDL function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021 , 1867, 159072	5	2
11	Functional recombinant apolipoprotein A5 that is stable at high concentrations at physiological pH. <i>Journal of Lipid Research</i> , 2020 , 61, 244-251	6.3	2
10	Highly conserved amino acid residues in apolipoprotein A1 discordantly induce high density lipoprotein assembly in vitro and in vivo. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020 , 1865, 158794	5	2
9	Apolipoprotein A-IV enhances cholecystokinin secretion. <i>Physiology and Behavior</i> , 2018 , 188, 11-17	3.5	2
8	Conformational Flexibility of Apolipoprotein A-I amino- and carboxy-Termini is necessary for Lipid Binding but not Cholesterol Efflux.. <i>Journal of Lipid Research</i> , 2022 , 100168	6.3	1
7	Niacin Increases Atherogenic Proteins in High-Density Lipoprotein of Statin-Treated Subjects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 2330-2341	9.4	1
6	Apolipoprotein A-I modulates HDL particle size in the absence of apolipoprotein A-II. <i>Journal of Lipid Research</i> , 2021 , 62, 100099	6.3	1
5	Pulmonary Surfactant Protein B Carried by HDL Predicts Incident Cardiovascular Disease in Patients with Type 1 Diabetes.. <i>Journal of Lipid Research</i> , 2022 , 100196	6.3	1

4	Apolipoprotein E Content of Very Low-density Lipoprotein Limits Lipoprotein Lipase-mediated Triglyceride Hydrolysis. <i>Journal of Lipid Research</i> , 2021 , 100157	6.3	o
3	Structure of dimeric apoA-IV: basis for HDL model. <i>FASEB Journal</i> , 2011 , 25, 938.1	0.9	
2	Red Blood Cells As a Novel Mediator of Chronic Inflammation in Diet-Induced Obesity: Implications for Atherosclerosis. <i>Blood</i> , 2012 , 120, 3198-3198	2.2	
1	High-Density Lipoproteins-Associated Proteins and Subspecies Related to Arterial Stiffness in Young Adults with Type 2 Diabetes Mellitus. <i>Complexity</i> , 2018 , 2018, 1-14	1.6	