

William S Davidson

List of Publications by Year in descending order

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97
papers

7,661
citations

71102

41
h-index

51608

86
g-index

100
all docs

100
docs citations

100
times ranked

8276
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilization of Î±-Synuclein Secondary Structure upon Binding to Synthetic Membranes. <i>Journal of Biological Chemistry</i> , 1998, 273, 9443-9449.	3.4	1,376
2	Cholesterol Efflux and Atheroprotection. <i>Circulation</i> , 2012, 125, 1905-1919.	1.6	772
3	Proteomic Analysis of Defined HDL Subpopulations Reveals Particle-Specific Protein Clusters. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 870-876.	2.4	375
4	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, 2575-2585.	4.2	302
5	High-density lipoproteins: A consensus statement from the National Lipid Association. <i>Journal of Clinical Lipidology</i> , 2013, 7, 484-525.	1.5	276
6	Proteomic Characterization of Human Plasma High Density Lipoprotein Fractionated by Gel Filtration Chromatography. <i>Journal of Proteome Research</i> , 2010, 9, 5239-5249.	3.7	213
7	Apolipoprotein A-I structural organization in high-density lipoproteins isolated from human plasma. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 416-422.	8.2	207
8	Structure of HDL: Particle Subclasses and Molecular Components. <i>Handbook of Experimental Pharmacology</i> , 2015, 224, 3-51.	1.8	184
9	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, 12176-12181.	7.1	182
10	The Structure of Apolipoprotein A-I in High Density Lipoproteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 22249-22253.	3.4	176
11	High density lipoprotein: it's not just about lipid transport anymore. <i>Trends in Endocrinology and Metabolism</i> , 2011, 22, 9-15.	7.1	142
12	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, 5882-5890.	3.4	139
13	Apolipoprotein A-IV inhibits experimental colitis. <i>Journal of Clinical Investigation</i> , 2004, 114, 260-269.	8.2	129
14	Loss of microRNA-128 promotes cardiomyocyte proliferation and heart regeneration. <i>Nature Communications</i> , 2018, 9, 700.	12.8	124
15	ABCA1-Induced Cell Surface Binding Sites for ApoA-I. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1603-1609.	2.4	122
16	Effects of Acceptor Particle Size on the Efflux of Cellular Free Cholesterol. <i>Journal of Biological Chemistry</i> , 1995, 270, 17106-17113.	3.4	116
17	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, 39477-39484.	3.4	110
18	A Mass Spectrometric Determination of the Conformation of Dimeric Apolipoprotein A-I in Discoidal High Density Lipoproteins. <i>Biochemistry</i> , 2005, 44, 8600-8607.	2.5	103

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19	Apolipoprotein A-IV improves glucose homeostasis by enhancing insulin secretion. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9641-9646.	7.1	99
20	A Three-Dimensional Molecular Model of Lipid-Free Apolipoprotein A-I Determined by Cross-Linking/Mass Spectrometry and Sequence Threading. Biochemistry, 2005, 44, 2759-2769.	2.5	98
21	The Spatial Organization of Apolipoprotein A-I on the Edge of Discoidal High Density Lipoprotein Particles. Journal of Biological Chemistry, 2003, 278, 27199-27207.	3.4	94
22	Enterically derived high-density lipoprotein restrains liver injury through the portal vein. Science, 2021, 373, .	12.6	87
23	Apolipoprotein A-IV inhibits experimental colitis. Journal of Clinical Investigation, 2004, 114, 260-269.	8.2	84
24	A Comparison of the Mouse and Human Lipoproteome: Suitability of the Mouse Model for Studies of Human Lipoproteins. Journal of Proteome Research, 2015, 14, 2686-2695.	3.7	83
25	Helix Orientation of the Functional Domains in Apolipoprotein E in Discoidal High Density Lipoprotein Particles. Journal of Biological Chemistry, 2004, 279, 14273-14279.	3.4	79
26	Ceramide Enhances Cholesterol Efflux to Apolipoprotein A-I by Increasing the Cell Surface Presence of ATP-binding Cassette Transporter A1. Journal of Biological Chemistry, 2003, 278, 40121-40127.	3.4	75
27	Distinct Proteomic Signatures in 16 HDL (High-Density Lipoprotein) Subspecies. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 2827-2842.	2.4	75
28	Apolipoprotein A-IV binds β_3 integrin and inhibits thrombosis. Nature Communications, 2018, 9, 3608.	12.8	75
29	Apolipoprotein A-I Adopts a Belt-like Orientation in Reconstituted High Density Lipoproteins. Journal of Biological Chemistry, 2001, 276, 42965-42970.	3.4	74
30	Structural Organization of the N-Terminal Domain of Apolipoprotein A-I: Studies of Tryptophan Mutants. Biochemistry, 1999, 38, 14387-14395.	2.5	73
31	Red Blood Cell Dysfunction Induced by High-Fat Diet. Circulation, 2015, 132, 1898-1908.	1.6	71
32	Apolipoprotein structural organization in high density lipoproteins: belts, bundles, hinges and hairpins. Current Opinion in Lipidology, 2005, 16, 295-300.	2.7	70
33	The Effects of Type 2 Diabetes on Lipoprotein Composition and Arterial Stiffness in Male Youth. Diabetes, 2013, 62, 2958-2967.	0.6	64
34	Identification and Structural Ramifications of a Hinge Domain in Apolipoprotein A-I Discoidal High-density Lipoproteins of Different Size. Biochemistry, 2004, 43, 11717-11726.	2.5	62
35	Multi-dimensional Co-separation Analysis Reveals Protein-Protein Interactions Defining Plasma Lipoprotein Subspecies. Molecular and Cellular Proteomics, 2013, 12, 3123-3134.	3.8	62
36	A thumbwheel mechanism for APOA1 activation of LCAT activity in HDL[S]. Journal of Lipid Research, 2018, 59, 1244-1255.	4.2	59

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37	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.	8.2	54
38	The effects of apolipoprotein B depletion on HDL subspecies composition and function. <i>Journal of Lipid Research</i> , 2016, 57, 674-686.	4.2	52
39	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, 11541-11549.	3.4	50
40	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.	4.2	50
41	Apolipoprotein A-IV Reduces Hepatic Gluconeogenesis through Nuclear Receptor NR1D1. <i>Journal of Biological Chemistry</i> , 2014, 289, 2396-2404.	3.4	48
42	Characterization of homodimer interfaces with cross-linking mass spectrometry and isotopically labeled proteins. <i>Nature Protocols</i> , 2018, 13, 431-458.	12.0	47
43	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> , 2022, 1867, 159072.	2.4	42
44	Diabetes Impairs Cellular Cholesterol Efflux From ABCA1 to Small HDL Particles. <i>Circulation Research</i> , 2020, 127, 1198-1210.	4.5	41
45	High density lipoproteins selectively promote the survival of human regulatory T cells. <i>Journal of Lipid Research</i> , 2017, 58, 1514-1523.	4.2	40
46	The Structure of Dimeric Apolipoprotein A-IV and Its Mechanism of Self-Association. <i>Structure</i> , 2012, 20, 767-779.	3.3	39
47	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.	2.4	38
48	Structure of Human Apolipoprotein A-IV: A Distinct Domain Architecture among Exchangeable Apolipoproteins with Potential Functional Implications. <i>Biochemistry</i> , 2004, 43, 10719-10729.	2.5	33
49	The Structure of Apolipoprotein A-II in Discoidal High Density Lipoproteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 9713-9721.	3.4	33
50	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, 17314-17323.	3.4	33
51	High-Density Lipoprotein Proteomics: Identifying New Drug Targets and Biomarkers by Understanding Functionality. <i>Current Cardiovascular Risk Reports</i> , 2010, 4, 1-8.	2.0	32
52	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, 1497-1504.	4.2	29
53	Mapping Atheroprotective Functions and Related Proteins/Lipoproteins in Size Fractionated Human Plasma. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 680-693.	3.8	28
54	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, 5596-5608.	3.4	26

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55	A proteolytic method for distinguishing between lipid-free and lipid-bound apolipoprotein A-I. <i>Journal of Lipid Research</i> , 2001, 42, 864-872.	4.2	25
56	HDL-C vs HDL-P: How Changing One Letter Could Make a Difference in Understanding the Role of High-Density Lipoprotein in Disease. <i>Clinical Chemistry</i> , 2014, 60, e1-e3.	3.2	24
57	Bacterial expression and characterization of mature apolipoprotein A-I. <i>Protein Expression and Purification</i> , 2002, 25, 353-361.	1.3	23
58	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.	3.4	23
59	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.	4.8	21
60	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, 38576-38582.	3.4	20
61	Obesity is associated with an altered HDL subspecies profile among adolescents with metabolic disease. <i>Journal of Lipid Research</i> , 2017, 58, 1916-1923.	4.2	20
62	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.	2.4	20
63	High-Density Lipoprotein Subspecies in Health and Human Disease: Focus on Type 2 Diabetes. <i>Methodist DeBakey Cardiovascular Journal</i> , 2021, 15, 55.	1.0	20
64	Ceramide structural features required to stimulate ABCA1-mediated cholesterol efflux to apolipoprotein A-I. <i>Journal of Lipid Research</i> , 2006, 47, 2781-2788.	4.2	19
65	Interaction of ApoA-IV with NR4A1 and NR1D1 Represses G6Pase and PEPCK Transcription: Nuclear Receptor-Mediated Downregulation of Hepatic Gluconeogenesis in Mice and a Human Hepatocyte Cell Line. <i>PLoS ONE</i> , 2015, 10, e0142098.	2.5	19
66	Network-Based Analysis on Orthogonal Separation of Human Plasma Uncovers Distinct High Density Lipoprotein Complexes. <i>Journal of Proteome Research</i> , 2015, 14, 3082-3094.	3.7	19
67	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, 2915.	2.4	18
68	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, 5439-5451.	3.4	16
69	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.	3.4	16
70	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.	3.3	16
71	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, 610-618.	1.5	15
72	The biotin-capture lipid affinity assay: a rapid method for determining lipid binding parameters for apolipoproteins. <i>Journal of Lipid Research</i> , 2006, 47, 440-449.	4.2	14

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73	Niacin Increases Atherogenic Proteins in High-Density Lipoprotein of Statin-Treated Subjects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2330-2341.	2.4	14
74	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, 64-69.	2.4	13
75	Pregnancy is accompanied by larger high density lipoprotein particles and compositionally distinct subspecies. <i>Journal of Lipid Research</i> , 2021, 62, 100107.	4.2	13
76	High yield expression and purification of recombinant human apolipoprotein A-II in <i>Escherichia coli</i> . <i>Journal of Lipid Research</i> , 2012, 53, 1708-1715.	4.2	12
77	Role of Conserved Proline Residues in Human Apolipoprotein A-IV Structure and Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 10689-10702.	3.4	11
78	Specific sequences in N termini of apolipoprotein A-IV modulate its anorectic effect. <i>Physiology and Behavior</i> , 2013, 120, 136-142.	2.1	10
79	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, 4854-4866.	3.4	10
80	Apolipoprotein A-I modulates HDL particle size in the absence of apolipoprotein A-II. <i>Journal of Lipid Research</i> , 2021, 62, 100099.	4.2	10
81	A Comparison of Methods To Enhance Protein Detection of Lipoproteins by Mass Spectrometry. <i>Journal of Proteome Research</i> , 2015, 14, 2943-2950.	3.7	9
82	Apolipoprotein E content of VLDL limits LPL-mediated triglyceride hydrolysis. <i>Journal of Lipid Research</i> , 2022, 63, 100157.	4.2	9
83	Impact of genetic deletion of platform apolipoproteins on the size distribution of the murine lipoproteome. <i>Journal of Proteomics</i> , 2016, 146, 184-194.	2.4	8
84	Apolipoprotein A-IV Enhances Fatty Acid Uptake by Adipose Tissues of Male Mice via Sympathetic Activation. <i>Endocrinology</i> , 2020, 161, .	2.8	7
85	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, 63, 100168.	4.2	7
86	Pulmonary surfactant protein B carried by HDL predicts incident CVD in patients with type 1 diabetes. <i>Journal of Lipid Research</i> , 2022, 63, 100196.	4.2	7
87	Effects of Multiple Freeze/Thaw Cycles on Measurements of Potential Novel Biomarkers Associated With Adverse Pregnancy Outcomes. <i>Journal of Clinical and Laboratory Medicine</i> , 2017, 2, .	0.1	6
88	Functional recombinant apolipoprotein A5 that is stable at high concentrations at physiological pH. <i>Journal of Lipid Research</i> , 2020, 61, 244-251.	4.2	4
89	Studies in genetically modified mice implicate maternal HDL as a mediator of fetal growth. <i>FASEB Journal</i> , 2018, 32, 717-727.	0.5	4
90	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.	2.4	3

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91	Apolipoprotein A-IV enhances cholecystokinin secretion. <i>Physiology and Behavior</i> , 2018, 188, 11-17.	2.1	2
92	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	0
93	Structure of dimeric apoA-IV: basis for HDL model. <i>FASEB Journal</i> , 2011, 25, 938.1.	0.5	0
94	Abstract 411: An Anion-Exchange Chromatography Isolated Subfraction of Mouse Apolipoprotein A-I Is Unable to Activate Cellular Cholesterol Release from Mouse Peritoneal Macrophage Foam Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, .	2.4	0
95	Red Blood Cells As a Novel Mediator of Chronic Inflammation in Diet-Induced Obesity: Implications for Atherosclerosis. <i>Blood</i> , 2012, 120, 3198-3198.	1.4	0
96	The structure of apoA-II on HDL reveals novel insights into its regulation of lipoprotein composition and function. <i>FASEB Journal</i> , 2019, 33, .	0.5	0
97	Abstract 114: Correlation of Specific HDL Subspecies with Arterial Stiffness in Youth with Type 2 Diabetes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, .	2.4	0