# Melvin R Hayden

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/85330/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 69<br>papers | 3,345<br>citations | 159525<br>30<br>h-index | 155592<br>55<br>g-index |
| 70<br>all docs | 70<br>docs citations | 70<br>times ranked | 4500<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Uric acid: A new look at an old risk marker for cardiovascular disease, metabolic syndrome, and type 2 diabetes mellitus: The urate redox shuttle. Nutrition and Metabolism, 2004, 1, 10. | 1.3 | 310 |
| 2 | Sodium glucose transporter 2 (SGLT2) inhibition with empagliflozin improves cardiac diastolic function in a female rodent model of diabetes. Cardiovascular Diabetology, 2017, 16, 9. | 2.7 | 205 |
| 3 | Vascular ossification-calcification in metabolic syndrome, type 2 diabetes mellitus, chronic kidney disease, and calciphylaxis-calcific uremic arteriolopathy: the emerging role of sodium thiosulfate. Cardiovascular Diabetology, 2005, 4, 4. | 2.7 | 176 |
| 4 | Homocysteine and reactive oxygen species in metabolic syndrome, type 2 diabetes mellitus, and atherosclerosis: The pleiotropic effects of folate supplementation. Nutrition Journal, 2004, 3, 4. | 1.5 | 146 |
| 5 | Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. Circulation Research, 2016, 118, 935-943. | 2.0 | 142 |
| 6 | The central role of vascular extracellular matrix and basement membrane remodeling in metabolic syndrome and type 2 diabetes: the matrix preloaded. Cardiovascular Diabetology, 2005, 4, 9. | 2.7 | 126 |
| 7 | Uric Acid Promotes Left Ventricular Diastolic Dysfunction in Mice Fed a Western Diet. Hypertension, 2015, 65, 531-539. | 1.3 | 114 |
| 8 | Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. Cardiovascular Diabetology, 2018, 17, 108. | 2.7 | 112 |
| 9 | Vasa vasorum in plaque angiogenesis, metabolic syndrome, type 2 diabetes mellitus, and atherosclerosis: a malignant transformation. , 2004, 3, 1. | | 106 |
| 10 | Sodium Thiosulfate: New Hope for the Treatment of Calciphylaxis. Seminars in Dialysis, 2010, 23, 258-262. | 0.7 | 101 |
| 11 | Dipeptidyl peptidase inhibition prevents diastolic dysfunction and reduces myocardial fibrosis in a Mouse model of Western diet induced obesity. Metabolism: Clinical and Experimental, 2014, 63, 1000-1011. | 1.5 | 86 |
| 12 | Intimal redox stress: accelerated atherosclerosis in metabolic syndrome and type 2 diabetes mellitus. Atherosclerosis. , 2002, 1, 3. | | 84 |
| 13 | Bloodâ€“Brain Barrier Disruption and Neurovascular Unit Dysfunction in Diabetic Mice: Protection with the Mitochondrial Carbonic Anhydrase Inhibitor Topiramate. Journal of Pharmacology and Experimental Therapeutics, 2016, 359, 452-459. | 1.3 | 76 |
| 14 | Is type 2 diabetes mellitus a vascular disease (atherosclerosis) with hyperglycemia a late manifestation? The role of NOS, NO, and redox stress. Cardiovascular Diabetology, 2003, 2, 2. | 2.7 | 74 |
| 15 | Renal Redox Stress and Remodeling in Metabolic Syndrome, Type 2 Diabetes mellitus, and Diabetic Nephropathy: Paying Homage to the Podocyte. American Journal of Nephrology, 2005, 25, 553-569. | 1.4 | 74 |
| 16 | An Immediate and Long-Term Complication of COVID-19 May Be Type 2 Diabetes Mellitus: The Central Role of Î²-Cell Dysfunction, Apoptosis and Exploration of Possible Mechanisms. Cells, 2020, 9, 2475. | 1.8 | 68 |
| 17 | Isletopathy in Type 2 Diabetes Mellitus: Implications of Islet RAS, Islet Fibrosis, Islet Amyloid, Remodeling, and Oxidative Stress. Antioxidants and Redox Signaling, 2007, 9, 891-910. | 2.5 | 67 |
| 18 | Calciphylaxis: calcific uremic arteriolopathy and the emerging role of sodium thiosulfate. International Urology and Nephrology, 2008, 40, 443-451. | 0.6 | 67 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1126-H1135. | 1.5 | 64 |
| 20 | Attenuation of Endocrineâ€Exocrine Pancreatic Communication in Type 2 Diabetes: Pancreatic Extracellular Matrix Ultrastructural Abnormalities. Journal of the Cardiometabolic Syndrome, 2008, 3, 234-243. | 1.7 | 61 |
| 21 | Dipeptidyl peptidase-4 (DPP-4) inhibition with linagliptin reduces western diet-induced myocardial TRAF3IP2 expression, inflammation and fibrosis in female mice. Cardiovascular Diabetology, 2017, 16, 61. | 2.7 | 58 |
| 22 | Retinal Redox Stress and Remodeling in Cardiometabolic Syndrome and Diabetes. Oxidative Medicine and Cellular Longevity, 2010, 3, 392-403. | 1.9 | 55 |
| 23 | Empagliflozin Ameliorates Type 2 Diabetes-Induced Ultrastructural Remodeling of the Neurovascular Unit and Neuroglia in the Female db/db Mouse. Brain Sciences, 2019, 9, 57. | 1.1 | 53 |
| 24 | Isolated low high density lipoprotein-cholesterol (HDL-C): implications of global risk reduction. Case report and systematic scientific review. , 2005, 4, 1. | | 52 |
| 25 | Pericytopathy: Oxidative Stress and Impaired Cellular Longevity in the Pancreas and Skeletal Muscle in Metabolic Syndrome and Type 2 Diabetes. Oxidative Medicine and Cellular Longevity, 2010, 3, 290-303. | 1.9 | 49 |
| 26 | Type 2 Diabetes Mellitus Increases The Risk of Late-Onset Alzheimerâ€™s Disease: Ultrastructural Remodeling of the Neurovascular Unit and Diabetic Gliopathy. Brain Sciences, 2019, 9, 262. | 1.1 | 48 |
| 27 | Possible Mechanisms of Local Tissue Renin-Angiotensin System Activation in the Cardiorenal Metabolic Syndrome and Type 2 Diabetes Mellitus. CardioRenal Medicine, 2011, 1, 193-210. | 0.7 | 46 |
| 28 | The combination of a neprilysin inhibitor (sacubitril) and angiotensin-II receptor blocker (valsartan) attenuates glomerular and tubular injury in the Zucker Obese rat. Cardiovascular Diabetology, 2019, 18, 40. | 2.7 | 45 |
| 29 | Ultrastructure of Islet Microcirculation, Pericytes and the Islet Exocrine Interface in the HIP Rat Model of Diabetes. Experimental Biology and Medicine, 2008, 233, 1109-1123. | 1.1 | 43 |
| 30 | Endothelial activation and dysfunction in metabolic syndrome, type 2 diabetes and coronavirus disease 2019. Journal of International Medical Research, 2020, 48, 030006052093974. | 0.4 | 43 |
| 31 | Introduction: Organ Involvement in the Cardiometabolic Syndrome. Journal of the Cardiometabolic Syndrome, 2006, 1, 16-24. | 1.7 | 36 |
| 32 | Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. Cardiovascular Diabetology, 2016, 15, 94. | 2.7 | 36 |
| 33 | Type 2 diabetes mellitus as a conformational disease. JOP: Journal of the Pancreas, 2005, 6, 287-302. | 1.5 | 34 |
| 34 | Daily exercise prevents diastolic dysfunction and oxidative stress in a female mouse model of western diet induced obesity by maintaining cardiac heme oxygenase-1 levels. Metabolism: Clinical and Experimental, 2017, 66, 14-22. | 1.5 | 32 |
| 35 | Islet Amyloid and Fibrosis in the Cardiometabolic Syndrome and Type 2 Diabetes Mellitus. Journal of the Cardiometabolic Syndrome, 2007, 2, 70-75. | 1.7 | 29 |
| 36 | Myocardial Myocyte Remodeling and Fibrosis in the Cardiometabolic Syndrome. Journal of the Cardiometabolic Syndrome, 2006, 1, 326-333. | 1.7 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Proximal tubule microvilli remodeling and albuminuria in the Ren2 transgenic rat. American Journal of Physiology - Renal Physiology, 2007, 292, F861-F867. | 1.3 | 28 |
| 38 | Ultrastructural islet study of early fibrosis in the Ren2 rat model of hypertension. Emerging role of the islet pancreatic pericyte-stellate cell. JOP: Journal of the Pancreas, 2007, 8, 725-38. | 1.5 | 25 |
| 39 | Xanthine oxidase inhibition protects against Western diet-induced aortic stiffness and impaired vasorelaxation in female mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 313, R67-R77. | 0.9 | 23 |
| 40 | Deficient Leptin Cellular Signaling Plays a Key Role in Brain Ultrastructural Remodeling in Obesity and Type 2 Diabetes Mellitus. International Journal of Molecular Sciences, 2021, 22, 5427. | 1.8 | 23 |
| 41 | Pathogenesis of COVIDâ€19 described through the lens of an undersulfated and degraded epithelial and endothelial glycocalyx. FASEB Journal, 2022, 36, e22052. | 0.2 | 22 |
| 42 | Calciphylaxis and the Cardiometabolic Syndrome. Journal of the Cardiometabolic Syndrome, 2006, 1, 76-79. | 1.7 | 21 |
| 43 | Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Modelâ€“Part II: Microglia and Mitochondria. Neuroglia (Basel, Switzerland), 2018, 1, 311-326. | 0.3 | 21 |
| 44 | Treating hypertension while protecting the vulnerable islet in the cardiometabolic syndrome. Journal of the American Society of Hypertension, 2008, 2, 239-266. | 2.3 | 20 |
| 45 | Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Modelâ€”Part I: Astrocyte. Neuroglia (Basel, Switzerland), 2018, 1, 220-244. | 0.3 | 18 |
| 46 | Neural redox stress and remodeling in metabolic syndrome, type 2 diabetes mellitus, and diabetic neuropathy. Medical Science Monitor, 2004, 10, RA291-307. | 0.5 | 18 |
| 47 | Toll-Like Receptor 4 Mediated Oxidized Low-Density Lipoprotein-Induced Foam Cell Formation in Vascular Smooth Muscle Cells via Src and Sirt1/3 Pathway. Mediators of Inflammation, 2021, 2021, 1-17. | 1.4 | 17 |
| 48 | Longitudinal ultrastructure study of islet amyloid in the HIP rat model of type 2 diabetes mellitus. Experimental Biology and Medicine, 2007, 232, 772-9. | 1.1 | 17 |
| 49 | Hypothesis: Astrocyte Foot Processes Detachment from the Neurovascular Unit in Female Diabetic Mice May Impair Modulation of Information Processingâ€”Six Degrees of Separation. Brain Sciences, 2019, 9, 83. | 1.1 | 15 |
| 50 | Impaired Folate-Mediated One-Carbon Metabolism in Type 2 Diabetes, Late-Onset Alzheimerâ€™s Disease and Long COVID. Medicina (Lithuania), 2022, 58, 16. | 0.8 | 15 |
| 51 | Nebivolol Attenuates Maladaptive Proximal Tubule Remodeling in Transgenic Rats. American Journal of Nephrology, 2010, 31, 262-272. | 1.4 | 14 |
| 52 | Hypothesis: Neuroglia Activation Due to Increased Peripheral and CNS Proinflammatory Cytokines/Chemokines with Neuroinflammation May Result in Long COVID. Neuroglia (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 | 0.8 | 14 |
| 53 | The Mighty Mitochondria Are Unifying Organelles and Metabolic Hubs in Multiple Organs of Obesity, Insulin Resistance, Metabolic Syndrome, and Type 2 Diabetes: An Observational Ultrastructure Study. International Journal of Molecular Sciences, 2022, 23, 4820. | 1.8 | 13 |
| 54 | Ultrastructure Study of Transgenic Ren2 Rat Aorta â€“ Part 1: Endothelium and Intima. CardioRenal Medicine, 2012, 2, 66-82. | 0.7 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Childhood-Adolescent Obesity in the Cardiorenal Syndrome: Lessons from Animal Models. CardioRenal Medicine, 2011, 1, 75-86. | 0.7 | 10 |
| 56 | Salt Loading Promotes Kidney Injury via Fibrosis in Young Female Ren2 Rats. CardioRenal Medicine, 2014, 4, 43-52. | 0.7 | 10 |
| 57 | Calciphylaxis and the Cardiometabolic Syndrome: The Emerging Role of Sodium Thiosulfate as a Novel Treatment Option. Journal of the Cardiometabolic Syndrome, 2008, 3, 55-59. | 1.7 | 9 |
| 58 | Microalbuminuria and Proximal Tubule Remodeling in the Cardiometabolic Syndrome. Journal of the Cardiometabolic Syndrome, 2006, 1, 107-114. | 1.7 | 8 |
| 59 | Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Modelâ€”Part III: Oligodendrocyte and Myelin. Neuroglia (Basel, Switzerland), 2018, 1, 351-367. | 0.3 | 8 |
| 60 | Inhibition of sphingomyelinase attenuates diet â€“ Induced increases in aortic stiffness. Journal of Molecular and Cellular Cardiology, 2022, 167, 32-39. | 0.9 | 6 |
| 61 | Empagliflozin ameliorates tunica adiposa expansion and vascular stiffening of the descending aorta in female db/db mice: an ultrastructure study. Adipobiology, 2020, 10, 41. | 0.1 | 5 |
| 62 | Obesity and cardiovascular risk. Current Cardiovascular Risk Reports, 2008, 2, 113-119. | 0.8 | 3 |
| 63 | Subacute thyroiditis during early pregnancy: a case report and literature review. BMC Pregnancy and Childbirth, 2022, 22, 19. | 0.9 | 2 |
| 64 | Autoimmune Vasculitis and Plaque Erosion in the Cardiometabolic Syndrome and Type 2 Diabetes Mellitus. Journal of the Cardiometabolic Syndrome, 2006, 1, 228-232. | 1.7 | 1 |
| 65 | Ultrastructure study of the transgenic REN2 rat aorta â€“ part 2: media, external elastic lamina, and adventitia. Biomedical Reviews, 2020, 30, 111. | 0.6 | 1 |
| 66 | Atherogenic Dyslipidemia. Journal of the Cardiometabolic Syndrome, 2006, 1, 168-172. | 1.7 | 0 |
| 67 | Overexpression of the Tissue Reninâ€Angiotensin System Causes Pulmonary Hypertension (PH) in TG(mRen2)27 Rat. FASEB Journal, 2007, 21, A1252. | 0.2 | 0 |
| 68 | Cardioprotective role of sodium thiosulfate on chronic heart failure by modulating endogenous H2S generation. FASEB Journal, 2008, 22, . | 0.2 | 0 |
| 69 | Direct renin inhibition with Aliskiren lowers blood pressure and improves renal dysfunction in Ren2 rats. FASEB Journal, 2009, 23, 606.13. | 0.2 | 0 |