

# Matthew J Durand

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3073377/publications.pdf>

Version: 2024-02-01

38  
papers

1,017  
citations

516710

16  
h-index

477307

29  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1585  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The Human Microcirculation. <i>Circulation Research</i> , 2016, 118, 157-172.  | 4.5 | 222       |
| 2  | Diversity in Mechanisms of Endothelium-Dependent Vasodilation in Health and Disease. <i>Microcirculation</i> , 2013, 20, 239-247.  | 1.8 | 147       |
| 3  | Critical Role for Telomerase in the Mechanism of Flow-Mediated Dilatation in the Human Microcirculation. <i>Circulation Research</i> , 2016, 118, 856-866.   | 4.5 | 88        |
| 4  | Vascular Actions of Angiotensin 1-7 in the Human Microcirculation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1254-1262.  | 2.4 | 55        |
| 5  | An acute rise in intraluminal pressure shifts the mediator of flow-mediated dilation from nitric oxide to hydrogen peroxide in human arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1587-H1593.  | 3.2 | 54        |
| 6  | Acute Exertion Elicits a H <sub>2</sub> O <sub>2</sub> -Dependent Vasodilator Mechanism in the Microvasculature of Exercise-Trained but Not Sedentary Adults. <i>Hypertension</i> , 2015, 65, 140-145.   | 2.7 | 48        |
| 7  | Angiotensin-(1-7) and low-dose angiotensin II infusion reverse salt-induced endothelial dysfunction via different mechanisms in rat middle cerebral arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1024-H1033.   | 3.2 | 45        |
| 8  | Exercise and vascular function: how much is too much?. <i>Canadian Journal of Physiology and Pharmacology</i> , 2014, 92, 551-557.   | 1.4 | 42        |
| 9  | PGC-1 $\alpha$ (Peroxisome Proliferator-Activated Receptor $\gamma$ Coactivator 1- $\alpha$ ) Overexpression in Coronary Artery Disease Recruits NO and Hydrogen Peroxide During Flow-Mediated Dilatation and Protects Against Increased Intraluminal Pressure. <i>Hypertension</i> , 2017, 70, 166-173. | 2.7 | 41        |
| 10 | Low-Dose Angiotensin II Infusion Restores Vascular Function in Cerebral Arteries of High Salt-Fed Rats by Increasing Copper/Zinc Superoxide Dismutase Expression. <i>American Journal of Hypertension</i> , 2013, 26, 739-747.   | 2.0 | 36        |
| 11 | Ischemic conditioning increases strength and voluntary activation of paretic muscle in chronic stroke: a pilot study. <i>Journal of Applied Physiology</i> , 2018, 124, 1140-1147.   | 2.5 | 33        |
| 12 | Two weeks of ischemic conditioning improves walking speed and reduces neuromuscular fatigability in chronic stroke survivors. <i>Journal of Applied Physiology</i> , 2019, 126, 755-763.   | 2.5 | 26        |
| 13 | Impaired relaxation of cerebral arteries in the absence of elevated salt intake in normotensive congenic rats carrying the Dahl salt-sensitive renin gene. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1865-H1874.  | 3.2 | 25        |
| 14 | Visualization and quantification of mitochondrial structure in the endothelium of intact arteries. <i>Cardiovascular Research</i> , 2019, 115, 1546-1556.  | 3.8 | 21        |
| 15 | Introgression of the Brown Norway Renin Allele Onto the Dahl Salt-Sensitive Genetic Background Increases Cu/Zn SOD Expression in Cerebral Arteries. <i>American Journal of Hypertension</i> , 2011, 24, 563-568.   | 2.0 | 19        |
| 16 | The vascular renin-angiotensin system contributes to blunted vasodilation induced by transient high pressure in human adipose microvessels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H25-H32.   | 3.2 | 18        |
| 17 | Mitochondria-regulated formation of endothelium-derived extracellular vesicles shifts the mediator of flow-induced vasodilation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1096-H1104.  | 3.2 | 17        |
| 18 | Stroke increases ischemia-related decreases in motor unit discharge rates. <i>Journal of Neurophysiology</i> , 2018, 120, 3246-3256.   | 1.8 | 13        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Microvascular Adaptations to Exercise: Protective Effect of PGC-1 Alpha. American Journal of Hypertension, 2018, 31, 240-246.  | 2.0 | 11        |
| 20 | Impaired Hyperemic Response to Exercise Post Stroke. PLoS ONE, 2015, 10, e0144023.   | 2.5 | 11        |
| 21 | Comparing pain relief and functional improvement between methylprednisolone and dexamethasone lumbosacral transforaminal epidural steroid injections: a self-controlled study. Korean Journal of Pain, 2020, 33, 192-198.                    | 2.2 | 11        |
| 22 | The Relationship Between Blood Flow and Motor Unit Firing Rates in Response to Fatiguing Exercise Post-stroke. Frontiers in Physiology, 2019, 10, 545.   | 2.8 | 10        |
| 23 | Regenerative Angiogenesis. Circulation Research, 2017, 120, 1379-1380.   | 4.5 | 6         |
| 24 | BCRâ€ABL tyrosine kinase inhibitors promote pathological changes in dilator phenotype in the human microvasculature. Microcirculation, 2020, 27, e12625.   | 1.8 | 6         |
| 25 | Two weeks of remote ischemic conditioning improves brachial artery flow mediated dilation in chronic stroke survivors. Journal of Applied Physiology, 2020, 129, 1348-1354.  | 2.5 | 5         |
| 26 | You Are Only as Frail as Your Arteries: Prehabilitation of Elderly Surgical Patients. Current Anesthesiology Reports, 2019, 9, 380-386.  | 2.0 | 3         |
| 27 | Identifying High-Attenuating and Low-Attenuating Muscle Using Computerized Tomography and Exploring Its Impact on Physical Function and Muscle Strength in Obese Critically Ill Patients. Nutrition in Clinical Practice, 2020, 35, 133-141. | 2.4 | 2         |
| 28 | Pain relief following genicular nerve radiofrequency ablation: does knee compartment matter?. Pain Management, 2021, 11, 705-714.  | 1.5 | 1         |
| 29 | Vasodilator and Vasoprotective Actions of Angiotensin 1â€7 in the Human Microcirculation â€ Role of Telomerase. FASEB Journal, 2015, 29, 789.3.  | 0.5 | 1         |
| 30 | Evaluation of Vascular Control Mechanisms Utilizing Video Microscopy of Isolated Resistance Arteries of Rats. Journal of Visualized Experiments, 2017, , .   | 0.3 | 0         |
| 31 | There is no way to sugar coat it, you are getting older. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H632-H633.  | 3.2 | 0         |
| 32 | Restoration of Vascular Relaxation in Cerebral Arteries of Congenic Dahl Rats Receiving the Brown Norway (BN) Renin Gene. FASEB Journal, 2008, 22, 1142.5.   | 0.5 | 0         |
| 33 | Suppressed Plasma Angiotensin II and Reduced Antioxidant Enzyme Expression Contribute to Impaired Vascular Relaxation in Dahl Saltâ€Sensitive Rats. FASEB Journal, 2009, 23, 1017.14.  | 0.5 | 0         |
| 34 | Introgession of the Brown Norway Renin Gene onto the Dahl Salt Sensitive Genetic Background Restores Endotheliumâ€Dependent Vascular Relaxation by Reducing Oxidative Stress in the Cerebral Vasculature. FASEB Journal, 2010, 24, 776.1.    | 0.5 | 0         |
| 35 | The Vascular Renin Angiotensin System Contributes to Endothelial Dysfunction Induced by Acute High Pressure in Human Adipose Microvessels. FASEB Journal, 2012, 26, 676.8.   | 0.5 | 0         |
| 36 | Plasticity in the Microvasculature of Conditioned Weight Lifters After Acute High Pressure Stress. FASEB Journal, 2013, 27, 1136.1.  | 0.5 | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Inhibition of the vascular renin-angiotensin system preserves nitric oxide-mediated vasodilation in human adipose arterioles after transient high pressure stress (676.9). FASEB Journal, 2014, 28, 676.9.                                     | 0.5 | 0         |
| 38 | Take charge during treatment: A planned exercise protocol to evaluate disparities and cardiovascular outcomes in Black and White patients with breast cancer undergoing treatment.. Journal of Clinical Oncology, 2022, 40, TPS12138-TPS12138. | 1.6 | 0         |