

# James Andrew Armitage

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4197173/publications.pdf>

Version: 2024-02-01

82  
papers

3,313  
citations

186209

28  
h-index

161767

54  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4086  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developmental programming of the metabolic syndrome by maternal nutritional imbalance: how strong is the evidence from experimental models in mammals?. <i>Journal of Physiology</i> , 2004, 561, 355-377.	1.3	474
2	Experimental models of developmental programming: consequences of exposure to an energy rich diet during development. <i>Journal of Physiology</i> , 2005, 565, 3-8.	1.3	334
3	Developmental Origins of Obesity and the Metabolic Syndrome: The Role of Maternal Obesity. , 2008, 36, 73-84.		201
4	Developmental programming of aortic and renal structure in offspring of rats fed fat-rich diets in pregnancy. <i>Journal of Physiology</i> , 2005, 565, 171-184.	1.3	163
5	Exposure to a High-Fat Diet Alters Leptin Sensitivity and Elevates Renal Sympathetic Nerve Activity and Arterial Pressure in Rabbits. <i>Hypertension</i> , 2010, 55, 862-868.	1.3	141
6	Perinatal omega-3 fatty acid deficiency affects blood pressure later in life. <i>Nature Medicine</i> , 2001, 7, 258-259.	15.2	135
7	The role of blood pressure in glaucoma. <i>Australasian journal of optometry, The</i> , 2011, 94, 133-149.	0.6	113
8	Reversal of Vascular Macrophage Accumulation and Hypertension by a CCR2 Antagonist in Deoxycorticosterone/Salt-Treated Mice. <i>Hypertension</i> , 2012, 60, 1207-1212.	1.3	103
9	Rapid Onset of Renal Sympathetic Nerve Activation in Rabbits Fed a High-Fat Diet. <i>Hypertension</i> , 2012, 60, 163-171.	1.3	103
10	Increased blood pressure later in life may be associated with perinatal n <sup>3</sup> fatty acid deficiency. <i>Lipids</i> , 2003, 38, 459-464.	0.7	90
11	MRI-based glomerular morphology and pathology in whole human kidneys. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F1381-F1390.	1.3	87
12	Exposure to a High-Fat Diet During Development Alters Leptin and Ghrelin Sensitivity and Elevates Renal Sympathetic Nerve Activity and Arterial Pressure in Rabbits. <i>Hypertension</i> , 2014, 63, 338-345.	1.3	63
13	Maternal Overnutrition Programs Changes in the Expression of Skeletal Muscle Genes That Are Associated with Insulin Resistance and Defects of Oxidative Phosphorylation in Adult Male Rat Offspring. <i>Journal of Nutrition</i> , 2014, 144, 237-244.	1.3	59
14	MicroRNA-194 Modulates Glucose Metabolism and Its Skeletal Muscle Expression Is Reduced in Diabetes. <i>PLoS ONE</i> , 2016, 11, e0155108.	1.1	58
15	Altered Ureteric Branching Morphogenesis and Nephron Endowment in Offspring of Diabetic and Insulin-Treated Pregnancy. <i>PLoS ONE</i> , 2013, 8, e58243.	1.1	55
16	The contribution of cone responses to rat electroretinograms. <i>Clinical and Experimental Ophthalmology</i> , 2001, 29, 193-196.	1.3	53
17	Retinal sensitivity loss in third-generation n-3 PUFA-deficient rats. <i>Lipids</i> , 2002, 37, 759-765.	0.7	52
18	Blood Pressure Modifies Retinal Susceptibility to Intraocular Pressure Elevation. <i>PLoS ONE</i> , 2012, 7, e31104.	1.1	52

#	ARTICLE	IF	CITATIONS
19	Developmental origins of obesity-related hypertension. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2012, 39, 799-806.	0.9	47
20	White adipocytes: More than just fat depots. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 435-440.	1.2	47
21	Extraction and modelling of oscillatory potentials. <i>Documenta Ophthalmologica</i> , 2002, 104, 17-36.	1.0	44
22	A design-based method for estimating glomerular number in the developing kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, F1448-F1453.	1.3	42
23	Estimating individual glomerular volume in the human kidney: clinical perspectives. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 1880-1888.	0.4	42
24	Omega 6 to omega 3 fatty acid imbalance early in life leads to persistent reductions in DHA levels in glycerophospholipids in rat hypothalamus even after long-term omega 3 fatty acid repletion. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2006, 74, 391-399.	1.0	40
25	IUGR in the Absence of Postnatal "Catch-Up" Growth Leads to Improved Whole Body Insulin Sensitivity in Rat Offspring. <i>Pediatric Research</i> , 2011, 70, 339-344.	1.1	40
26	Is This Mine to Keep? Three-dimensional Printing Enables Active, Personalized Learning in Anatomy. <i>Anatomical Sciences Education</i> , 2019, 12, 518-528.	2.5	40
27	Understanding the Role of Maternal Diet on Kidney Development; an Opportunity to Improve Cardiovascular and Renal Health for Future Generations. <i>Nutrients</i> , 2015, 7, 1881-1905.	1.7	39
28	Origin of Aberrant Blood Pressure and Sympathetic Regulation in Diet-Induced Obesity. <i>Hypertension</i> , 2016, 68, 491-500.	1.3	37
29	A High Fat Diet during Adolescence in Male Rats Negatively Programs Reproductive and Metabolic Function Which Is Partially Ameliorated by Exercise. <i>Frontiers in Physiology</i> , 2017, 8, 807.	1.3	30
30	Impact of maternal high fat diet on hypothalamic transcriptome in neonatal Sprague Dawley rats. <i>PLoS ONE</i> , 2017, 12, e0189492.	1.1	30
31	Haemodynamical stress in mouse aortic arch with atherosclerotic plaques: Preliminary study of plaque progression. <i>Computational and Structural Biotechnology Journal</i> , 2014, 10, 98-106.	1.9	25
32	Three-dimensional numerical simulation of blood flow in mouse aortic arch around atherosclerotic plaques. <i>Applied Mathematical Modelling</i> , 2014, 38, 4175-4185.	2.2	25
33	Estimating Nephron Number in the Developing Kidney Using the Physical Disector/Fractionator Combination. <i>Methods in Molecular Biology</i> , 2012, 886, 109-119.	0.4	25
34	Glomerular hypertrophy in subjects with low nephron number: contributions of sex, body size and race. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 1686-1695.	0.4	23
35	Programmed aortic dysfunction and reduced Na <sup>+</sup> ,K <sup>+</sup> -ATPase activity present in first generation offspring of lard-fed rats does not persist to the second generation. <i>Experimental Physiology</i> , 2007, 92, 583-589.	0.9	22
36	Impact of Axial Eye Size on Retinal Microvasculature Density in the Macular Region. <i>Journal of Clinical Medicine</i> , 2020, 9, 2539.	1.0	21

#	ARTICLE	IF	CITATIONS
37	Retinal Anatomy and Function of the Transthyretin Null Mouse. <i>Experimental Eye Research</i> , 2001, 73, 651-659.	1.2	19
38	Maternal glucose intolerance reduces offspring nephron endowment and increases glomerular volume in adult offspring. <i>Diabetes/Metabolism Research and Reviews</i> , 2016, 32, 816-826.	1.7	19
39	Maternal dietary intake during pregnancy has longstanding consequences for the health of her offspring. <i>Canadian Journal of Physiology and Pharmacology</i> , 2013, 91, 412-420.	0.7	17
40	Maternal Fat Feeding Augments Offspring Nephron Endowment in Mice. <i>PLoS ONE</i> , 2016, 11, e0161578.	1.1	17
41	Cardiovascular consequences of life-long exposure to dietary isoflavones in the rat. <i>Journal of Physiology</i> , 2006, 571, 477-487.	1.3	16
42	X-ray velocimetry within the <i>ex vivo</i> carotid artery. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 1050-1055.	1.0	15
43	The rat placental renin-angiotensin system - a gestational gene expression study. <i>Reproductive Biology and Endocrinology</i> , 2015, 13, 89.	1.4	15
44	The Effect of Gestational Age on Angiogenic Gene Expression in the Rat Placenta. <i>PLoS ONE</i> , 2013, 8, e83762.	1.1	14
45	Altered retinal function and structure after chronic placental insufficiency. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 805-12.	3.3	14
46	Comparison of blood pressure and sympathetic activity of rabbits in their home cage and the laboratory environment. <i>Experimental Physiology</i> , 2012, 97, 1263-1271.	0.9	13
47	Chronic Hypertension Increases Susceptibility to Acute IOP Challenge in Rats. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 7888-7895.	3.3	13
48	Maternal dietary supplementation with saturated, but not monounsaturated or polyunsaturated fatty acids, leads to tissue-specific inhibition of offspring Na <sup>+</sup> ,K <sup>+</sup> -ATPase. <i>Journal of Physiology</i> , 2008, 586, 5013-5022.	1.3	12
49	Reduced preprandial dipping accounts for rapid elevation of blood pressure and renal sympathetic nerve activity in rabbits fed a high-fat diet. <i>Chronobiology International</i> , 2013, 30, 726-738.	0.9	12
50	Central proopiomelanocortin but not neuropeptide Y mediates sympathoexcitation and hypertension in fat fed conscious rabbits. <i>Journal of Hypertension</i> , 2016, 34, 464-473.	0.3	12
51	Gestation Related Gene Expression of the Endocannabinoid Pathway in Rat Placenta. <i>Mediators of Inflammation</i> , 2015, 2015, 1-9.	1.4	11
52	Podocyte endowment and the impact of adult body size on kidney health. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, F322-F334.	1.3	10
53	Short term fat feeding rapidly increases plasma insulin but does not result in dyslipidaemia. <i>Frontiers in Physiology</i> , 2014, 5, 469.	1.3	9
54	Moderate Physical Training Ameliorates Cardiovascular Dysfunction Induced by High Fat Diet After Cessation of Training in Adult Rats. <i>Frontiers in Physiology</i> , 2019, 10, 170.	1.3	9

#	ARTICLE	IF	CITATIONS
55	Postnatal development of flicker sensitivity in guinea pigs. <i>Australasian journal of optometry, The</i> , 2001, 84, 270-275.	0.6	8
56	The Sankara Nethralaya Tamil Nadu Essilor Myopia (STEM) Study—Defining a Threshold for Non-Cycloplegic Myopia Prevalence in Children. <i>Journal of Clinical Medicine</i> , 2021, 10, 1215.	1.0	8
57	Prevalence of myopia among urban and suburban school children in Tamil Nadu, South India: findings from the Sankara Nethralaya Tamil Nadu Essilor Myopia (STEM) Study. <i>Ophthalmic and Physiological Optics</i> , 2022, 42, 345-357.	1.0	8
58	Electroretinography in streptozotocin diabetic rats following acute intraocular pressure elevation. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2013, 251, 529-535.	1.0	7
59	Progression of cardiovascular and endocrine dysfunction in a rabbit model of obesity. <i>Hypertension Research</i> , 2013, 36, 588-595.	1.5	7
60	Maternal high-fat diet alters expression of pathways of growth, blood supply and arachidonic acid in rat placenta. <i>Journal of Nutritional Science</i> , 2013, 2, e41.	0.7	7
61	Leptin and Melanocortin Signaling Mediates Hypertension in Offspring From Female Rabbits Fed a High-Fat Diet During Gestation and Lactation. <i>Frontiers in Physiology</i> , 2021, 12, 693157.	1.3	7
62	Multiple scan averaging to yield accurate quantitative analysis of optical coherence tomography angiograms. <i>Scientific Reports</i> , 2020, 10, 6194.	1.6	6
63	Lean in one way, in obesity another: effects of moderate exercise in brown adipose tissue of early overfed male Wistar rats. <i>International Journal of Obesity</i> , 2021, , .	1.6	6
64	Could adoption of the rural pipeline concept redress Australian optometry workforce issues?. <i>Australasian journal of optometry, The</i> , 2019, 102, 566-570.	0.6	5
65	Functional Imaging to Understand Biomechanics: A Critical Tool for the Study of Biology, Pathology and the Development of Pharmacological Solutions. <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 2128-2140.	0.9	4
66	Specific role of dietary fat in modifying cardiovascular and locomotor activity 24-h rhythms. <i>Chronobiology International</i> , 2015, 32, 668-676.	0.9	4
67	Analysis of structure and gene expression in developing kidneys of male and female rats exposed to low protein diets in utero. <i>Anatomical Record</i> , 2020, 303, 2657-2667.	0.8	4
68	The Role of Omega-3 Polyunsaturated Fatty Acids in Retinal Function. , 0, , 193-217.		4
69	Chronic intraocular pressure elevation impairs autoregulatory capacity in streptozotocin-induced diabetic rat retina. <i>Ophthalmic and Physiological Optics</i> , 2015, 35, 125-134.	1.0	3
70	Mid-to-Late Gestational Changes in Inflammatory Gene Expression in the Rat Placenta. <i>Reproductive Sciences</i> , 2018, 25, 222-229.	1.1	3
71	Normal foetal kidney volume in offspring of women treated for gestational diabetes. <i>Endocrinology, Diabetes and Metabolism</i> , 2019, 2, e00091.	1.0	3
72	Strengthening Indigenous eye care in Australia and New Zealand through a Leaders in Indigenous Optometry Education Network. <i>Australian and New Zealand Journal of Public Health</i> , 2021, 45, 89-92.	0.8	3

#	ARTICLE	IF	CITATIONS
73	The Equivalency of the Binocular Indirect Ophthalmoscope Simulator to Peer Practice. <i>Optometry and Vision Science</i> , 2021, Publish Ahead of Print, 1239-1247.	0.6	3
74	Student perspectives of extended clinical placements in optometry: a qualitative study. <i>BMC Medical Education</i> , 2022, 22, 59.	1.0	3
75	Impact of in vitro embryo culture and transfer on blood pressure regulation in the adolescent lamb. <i>Journal of Developmental Origins of Health and Disease</i> , 2020, 12, 1-7.	0.7	2
76	Experimental Models of Maternal Obesity and High-Fat Diet During Pregnancy and Programmed Obesity in the Offspring. <i>Growth Hormone</i> , 2011, , 241-259.	0.2	2
77	Protein Restriction in the Peri-Pubertal Period Induces Autonomic Dysfunction and Cardiac and Vascular Structural Changes in Adult Rats. <i>Frontiers in Physiology</i> , 2022, 13, 840179.	1.3	2
78	Management and diagnosis of recurrent anterior uveitis due to underlying HLA-B*27 positive, seronegative spondyloarthritis. <i>Australasian journal of optometry</i> , The, 2021, 104, 421-424.	0.6	1
79	Alpha melanocortin stimulating hormone actions at the ventromedial hypothalamus increase renal sympathetic nerve activity in fat fed rabbits. <i>FASEB Journal</i> , 2013, 27, 955.21.	0.2	1
80	rapid activation of renal sympathetic activity with onset of high fat diet in rabbits. <i>FASEB Journal</i> , 2011, 25, 1028.5.	0.2	0
81	Role of leptin and insulin on renal sympathetic nerve activity in high fat fed rabbits. <i>FASEB Journal</i> , 2012, 26, 705.6.	0.2	0
82	Factors influencing blood pressure and sympathetic nerve activity during a high fat diet in rabbits. <i>FASEB Journal</i> , 2013, 27, 955.20.	0.2	0