Thomas D Scholz

List of Publications by Year
in descending order

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82	2,447	186265	223800
papers	citations	28 h-index	46 g-index

86	86	86	3161
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ANG II modulation of cardiac growth and remodeling in immature fetal sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R965-R972.	1.8	9
2	Angiotensin IIâ€“induced cardiovascular load regulates cardiac remodeling and related gene expression in late-gestation fetal sheep. Pediatric Research, 2014, 75, 689-696.	2.3	8
3	Joiner et al. reply. Nature, 2014, 513, E3-E3.	27.8	9
4	Novel percutaneous transcatheter intervention for refractory active endocarditis as a bridge to surgeryâ€“angiovac aspiration system. Catheterization and Cardiovascular Interventions, 2013, 81, 1008-1012.	1.7	62
5	Thyroid hormone is required for growth adaptation to pressure load in the ovine fetal heart. Experimental Physiology, 2013, 98, 722-733.	2.0	28
6	Sex-specific programming of hypertension in offspring of late-gestation diabetic rats. Pediatric Research, 2012, 72, 352-361.	2.3	39
7	Maternal Hyperglycemia Disrupts Histone 3 Lysine 36 Trimethylation of the IGF-1 Gene. Journal of Nutrition and Metabolism, 2012, 2012, 1-7.	1.8	29
8	CaMKII determines mitochondrial stress responses in heart. Nature, 2012, 491, 269-273.	27.8	340
9	The effect of adrenalectomy on the cardiac response to subacute fetal anemia. Canadian Journal of Physiology and Pharmacology, 2011, 89, 79-88.	1.4	8
10	Transfusion Effects on Cardiomyocyte Growth and Proliferation in Fetal Sheep After Chronic Anemia. Pediatric Research, 2011, 69, 485-490.	2.3	15
11	Programming of Adult Cardiovascular Disease following Exposure to Late-Gestation Hyperglycemia. Neonatology, 2011, 100, 198-205.	2.0	20
12	Quantitative assessment of the entire thoracic aorta from magnetic resonance images. Cardiology in the Young, 2011, 21, 170-177.	0.8	4
13	Maternal antioxidant blocks programmed cardiovascular and behavioural stress responses in adult mice. Clinical Science, 2011, 121, 427-436.	4.3	26
14	Automated analysis of four-dimensional magnetic resonance images of the human aorta. International Journal of Cardiovascular Imaging, 2010, 26, 571-578.	1.5	8
15	4-D Cardiac MR Image Analysis: Left and Right Ventricular Morphology and Function. IEEE Transactions on Medical Imaging, 2010, 29, 350-364.	8.9	143
16	Three-dimensional thrombus segmentation in abdominal aortic aneurysms using graph search based on a triangular mesh. Computers in Biology and Medicine, 2010, 40, 271-278.	7.0	30
17	Essential Roles of an Intercalated Disc Protein, mXinÎ², in Postnatal Heart Growth and Survival. Circulation Research, 2010, 106, 1468-1478.	4.5	38
18	Coronary endothelial function and vascular smooth muscle proliferation are programmed by early-gestation dexamethasone exposure in sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1607-R1614.	1.8	6

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19	Vascular nitric oxide and superoxide anion contribute to sex-specific programmed cardiovascular physiology in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R651-R662.	1.8	47
20	Cardiomyopathy in offspring of diabetic rats is associated with activation of the MAPK and apoptotic pathways. Cardiovascular Diabetology, 2009, 8, 43.	6.8	31
21	Congenital aortic disease: 4D magnetic resonance segmentation and quantitative analysis. Medical Image Analysis, 2009, 13, 483-493.	11.6	58
22	Fetal programming alters reactive oxygen species production in sheep cardiac mitochondria. Clinical Science, 2009, 116, 659-668.	4.3	16
23	Programming of growth, insulin resistance and vascular dysfunction in offspring of late gestation diabetic rats. Clinical Science, 2009, 117, 129-138.	4.3	39
24	Coronary Constriction to Angiotensin II Is Enhanced by Endothelial Superoxide Production in Sheep Programmed by Dexamethasone. Pediatric Research, 2008, 63, 370-374.	2.3	10
25	Endothelial Superoxide Production Is Altered in Sheep Programmed by Early Gestation Dexamethasone Exposure. Neonatology, 2008, 93, 19-27.	2.0	22
26	Activation of the Mitogen-Activated Protein Kinases and Akt in Response to Pulmonary Artery Banding in the Fetal Sheep Heart Is Developmentally Regulated. Neonatology, 2008, 93, 145-152.	2.0	5
27	Maternal Low Protein Diet and Fetal Glucocorticoid Exposure Program Adult Murine Cardiovascular and Endocrine Status. FASEB Journal, 2008, 22, 947.10.	0.5	0
28	Recruitment of NADH shuttling in pressure-overloaded and hypertrophic rat hearts. American Journal of Physiology - Cell Physiology, 2007, 292, C1880-C1886.	4.6	29
29	Four-dimensional functional analysis of left and right ventricles using MR images and active appearance models. , 2007, , .		1
30	Murine aortic reactivity is programmed equally by maternal low protein diet or late gestation dexamethasone. Journal of Maternal-Fetal and Neonatal Medicine, 2007, 20, 833-841.	1.5	18
31	Norwood modification in a patient with hypoplastic left heart and a right aortic arch. Journal of Thoracic and Cardiovascular Surgery, 2007, 134, 1065-1066.	0.8	7
32	Quantitative analysis of two-phase 3D+time aortic MR images. , 2006, , .		4
33	Analysis of four-dimensional cardiac ventricular magnetic resonance images using statistical models of ventricular shape and cardiac motion. , 2006, , .		1
34	Mitogen-activated protein kinase activation and regulation in the pressure-loaded fetal ovine heart. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1587-H1595.	3.2	13
35	Early gestation dexamethasone alters baroreflex and vascular responses in newborn lambs before hypertension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R481-R488.	1.8	38
36	The Mitogen-Activated Protein Kinases and Akt Are Developmentally Regulated in the Chronically Anemic Fetal Sheep Heart. Journal of the Society for Gynecologic Investigation, 2006, 13, 157-165.	1.7	11

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37	Detection of Connective Tissue Disorders from 3D Aortic MR Images Using Independent Component Analysis. Lecture Notes in Computer Science, 2006, , 13-24.	1.3	4
38	Newborn lamb coronary artery reactivity is programmed by early gestation dexamethasone before the onset of systemic hypertension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R1169-R1176.	1.8	38
39	Correlation between myocardial malate/aspartate shuttle activity and EAAT1 protein expression in hyper- and hypothyroidism. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2521-H2526.	3.2	26
40	Early gestation dexamethasone programs enhanced postnatal ovine coronary artery vascular reactivity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R46-R53.	1.8	36
41	Myocardial vascular and metabolic adaptations in chronically anemic fetal sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R1736-R1745.	1.8	26
42	Regulation of Myocardial Glucose Transporters GLUT1 and GLUT4 in Chronically Anemic Fetal Lambs. Pediatric Research, 2005, 58, 713-718.	2.3	10
43	Rapid full volume data acquisition by real-time 3-dimensional echocardiography for assessment of left ventricular indexes in children: A validation study compared with magnetic resonance imaging. Journal of the American Society of Echocardiography, 2005, 18, 299-305.	2.8	79
44	Characterization of embryonic cardiac pacemaker and atrioventricular conduction physiology in Xenopus laevis using noninvasive imaging. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H2035-H2041.	3.2	13
45	Late-gestation betamethasone enhances coronary artery responsiveness to angiotensin II in fetal sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R80-R88.	1.8	20
46	Ontogeny of Vascular Growth Factors in Perinatal Sheep Myocardium. Journal of the Society for Gynecologic Investigation, 2004, 11, 503-510.	1.7	3
47	Neonatal vulnerability to ischemia and reperfusion: cardioplegic arrest causes greater myocardial apoptosis in neonatal lambs than in mature lambs. Journal of Thoracic and Cardiovascular Surgery, 2004, 127, 490-497.	0.8	41
48	Localization and function of the brain excitatory amino acid transporter type 1Bin cardiac mitochondria. Journal of Molecular and Cellular Cardiology, 2004, 37, 33-41.	1.9	45
49	Apoptosis-related mitochondrial dysfunction in the early postoperative neonatal lamb heart. Annals of Thoracic Surgery, 2004, 78, 948-955.	1.3	24
50	Myocardial apoptosis after cardioplegic arrest in the neonatal lamb. Journal of Thoracic and Cardiovascular Surgery, 2003, 125, 1268-1273.	0.8	14
51	UCP2-dependent Proton Leak in Isolated Mammalian Mitochondria. Journal of Biological Chemistry, 2002, 277, 3918-3925.	3.4	65
52	Metabolic Adaptation of the Fetal and Postnatal Ovine Heart: Regulatory Role of Hypoxia-Inducible Factors and Nuclear Respiratory Factor-1. Pediatric Research, 2002, 52, 269-278.	2.3	46
53	Effects of gestational age on myocardial blood flow and coronary flow reserve in pressure-loaded ovine fetal hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1359-H1369.	3.2	17
54	Metabolic Adaptation of the Fetal and Postnatal Ovine Heart: Regulatory Role of Hypoxia-Inducible Factors and Nuclear Respiratory Factor-1. Pediatric Research, 2002, 52, 269-278.	2.3	3

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55	Angiotensin II in cardiac pressure-overload hypertrophy in fetal sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R2037-R2047.	1.8	30
56	Pediatric Tele-Echocardiography: Evaluation of Transmission Modalities. Telemedicine Journal and E-Health, 2001, 7, 17-25.	2.8	16
57	Anatomical Modeling with Fuzzy Implicit Surface Templates: Application to Automated Localization of the Heart and Lungs in Thoracic MR Volumes. Computer Vision and Image Understanding, 2000, 80, 1-20.	4.7	15
58	Balloon aortic valvuloplasty in a 1,600-gram infant. Catheterization and Cardiovascular Interventions, 2000, 50, 322-325.	1.7	12
59	Thyroid Hormone Regulation of the NADH Shuttles in Liver and Cardiac Mitochondria. Journal of Molecular and Cellular Cardiology, 2000, 32, 1-10.	1.9	39
60	Metabolic Adaptation of the Hypertrophied Heart: Role of the Malate/Aspartate and Î± -Glycerophosphate Shuttles. Journal of Molecular and Cellular Cardiology, 2000, 32, 2287-2297.	1.9	37
61	Optimizing utilization of pediatric echocardiography and implications for telemedicine11The content of this article does not necessarily reflect the views or policies of the Department of Health and Human Services, nor does mention of trade names commercial products, or organizations imply endorsement by the U.S. government.. American Journal of Cardiology, 1999, 83, 1645-1648.	1.6	22
62	Ontogeny of malate-aspartate shuttle capacity and gene expression in cardiac mitochondria. American Journal of Physiology - Cell Physiology, 1998, 274, C780-C788.	4.6	50
63	Developmental Regulation of the Î±-Glycerophosphate Shuttle in Porcine Myocardium. Journal of Molecular and Cellular Cardiology, 1997, 29, 1605-1613.	1.9	19
64	Angiotensin AT1receptor blockade fails to attenuate pressure-overload cardiac hypertrophy in fetal sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 273, R1501-R1508.	1.8	26
65	Water-Macromolecular Proton Magnetization Transfer in Infarcted Myocardium: A Method to Enhance Magnetic Resonance Image Contrast. Magnetic Resonance in Medicine, 1995, 33, 178-184.	3.0	23
66	Measurement of kinetic perfusion parameters of gadoteridol in intact myocardium: Effects of ischemia/reperfusion and coronary vasodilation. Magnetic Resonance Imaging, 1995, 13, 799-806.	1.8	14
67	Reducing Equivalent Shuttles in Developing Porcine Myocardium: Enhanced Capacity in the Newborn Heart. Pediatric Research, 1995, 38, 221-227.	2.3	33
68	Reduction in myocardial high energy phosphate spin lattice relaxation times using manganese. NMR in Biomedicine, 1994, 7, 137-140.	2.8	6
69	Magnetization transfer characterization of hypertensive cardiomyopathy: Significance of tissue water content. Magnetic Resonance in Medicine, 1993, 29, 352-357.	3.0	40
70	Monoselenophosphate: Synthesis, characterization, and identity with the prokaryotic biological selenium donor, compound SePX. Biochemistry, 1993, 32, 12555-12559.	2.5	160
71	NMR relaxation times in acute myocardial infarction: Relative influence of changes in tissue water and fat content. Magnetic Resonance in Medicine, 1992, 23, 89-95.	3.0	36
72	Automated Identification of Left Ventricular Borders from Spin-Echo Magnetic Resonance Images Experimental and Clinical Feasibility Studies. Investigative Radiology, 1991, 26, 295-303.	6.2	49

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73	Myocardial Collagen Concentration and Nuclear Magnetic Resonance Relaxation Times in the Spontaneously Hypertensive Rat. Investigative Radiology, 1991, 26, 227-232.	6.2	24
74	Magnetic Resonance Characterization of Blood Coagulation In Vitro. Investigative Radiology, 1991, 26, 343-347.	6.2	1
75	Interventricular differences in myocardial T2 measurements: Experimental and clinical studies. Journal of Magnetic Resonance Imaging, 1991, 1, 513-520.	3.4	3
76	Tissue Characterization of Chronic Myocardial Infarction. Investigative Radiology, 1990, 25, 1120-1124.	6.2	5
77	Effect of tissue fat and water content on nuclear magnetic resonance relaxation times of cardiac and skeletal muscle. Magnetic Resonance Imaging, 1990, 8, 605-611.	1.8	25
78	in vitro NMR characterization of mammalian myocardium: Effect of specimen integrity on relaxation times. Magnetic Resonance in Medicine, 1989, 11, 367-370.	3.0	2
79	Nuclear magnetic resonance relaxometry of the normal heart: Relationship between collagen content and relaxation times of the four chambers. Magnetic Resonance Imaging, 1989, 7, 643-648.	1.8	32
80	Tissue Determinants of Nuclear Magnetic Resonance Relaxation Times. Investigative Radiology, 1989, 24, 893-898.	6.2	26
81	Localized Intestinal Perforation Following Intravenous Indomethacin for Patent Ductus Arterious. Journal of Pediatric Gastroenterology and Nutrition, 1988, 7, 773-775.	1.8	18
82	Nutrition and somatomedin. X. Comparison of insulin-like activity of somatomedins extracted from liver and serum. Metabolism: Clinical and Experimental, 1984, 33, 34-41.	3.4	0