

Thomas D Scholz

List of Publications by Year in descending order

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82
papers

2,447
citations

186265

28
h-index

223800

46
g-index

86
all docs

86
docs citations

86
times ranked

3161
citing authors

#	ARTICLE	IF	CITATIONS
1	CaMKII determines mitochondrial stress responses in heart. <i>Nature</i> , 2012, 491, 269-273.	27.8	340
2	Monoselenophosphate: Synthesis, characterization, and identity with the prokaryotic biological selenium donor, compound SePX. <i>Biochemistry</i> , 1993, 32, 12555-12559.	2.5	160
3	4-D Cardiac MR Image Analysis: Left and Right Ventricular Morphology and Function. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 350-364.	8.9	143
4	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. <i>Journal of the American Society of Echocardiography</i> , 2005, 18, 299-305.	2.8	79
5	UCP2-dependent Proton Leak in Isolated Mammalian Mitochondria. <i>Journal of Biological Chemistry</i> , 2002, 277, 3918-3925.	3.4	65
6	Novel percutaneous transcatheter intervention for refractory active endocarditis as a bridge to surgery—angiovac aspiration system. <i>Catheterization and Cardiovascular Interventions</i> , 2013, 81, 1008-1012.	1.7	62
7	Congenital aortic disease: 4D magnetic resonance segmentation and quantitative analysis. <i>Medical Image Analysis</i> , 2009, 13, 483-493.	11.6	58
8	Ontogeny of malate-aspartate shuttle capacity and gene expression in cardiac mitochondria. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C780-C788.	4.6	50
9	Automated Identification of Left Ventricular Borders from Spin-Echo Magnetic Resonance Images Experimental and Clinical Feasibility Studies. <i>Investigative Radiology</i> , 1991, 26, 295-303.	6.2	49
10	Vascular nitric oxide and superoxide anion contribute to sex-specific programmed cardiovascular physiology in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R651-R662.	1.8	47
11	Metabolic Adaptation of the Fetal and Postnatal Ovine Heart: Regulatory Role of Hypoxia-Inducible Factors and Nuclear Respiratory Factor-1. <i>Pediatric Research</i> , 2002, 52, 269-278.	2.3	46
12	Localization and function of the brain excitatory amino acid transporter type 1 in cardiac mitochondria. <i>Journal of Molecular and Cellular Cardiology</i> , 2004, 37, 33-41.	1.9	45
13	Neonatal vulnerability to ischemia and reperfusion: cardioplegic arrest causes greater myocardial apoptosis in neonatal lambs than in mature lambs. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004, 127, 490-497.	0.8	41
14	Magnetization transfer characterization of hypertensive cardiomyopathy: Significance of tissue water content. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 352-357.	3.0	40
15	Thyroid Hormone Regulation of the NADH Shuttles in Liver and Cardiac Mitochondria. <i>Journal of Molecular and Cellular Cardiology</i> , 2000, 32, 1-10.	1.9	39
16	Programming of growth, insulin resistance and vascular dysfunction in offspring of late gestation diabetic rats. <i>Clinical Science</i> , 2009, 117, 129-138.	4.3	39
17	Sex-specific programming of hypertension in offspring of late-gestation diabetic rats. <i>Pediatric Research</i> , 2012, 72, 352-361.	2.3	39
18	Newborn lamb coronary artery reactivity is programmed by early gestation dexamethasone before the onset of systemic hypertension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1169-R1176.	1.8	38

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19	Early gestation dexamethasone alters baroreflex and vascular responses in newborn lambs before hypertension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R481-R488.	1.8	38
20	Essential Roles of an Intercalated Disc Protein, mXin ² , in Postnatal Heart Growth and Survival. <i>Circulation Research</i> , 2010, 106, 1468-1478.	4.5	38
21	Metabolic Adaptation of the Hypertrophied Heart: Role of the Malate/Aspartate and $\hat{\pm}$ -Glycerophosphate Shuttles. <i>Journal of Molecular and Cellular Cardiology</i> , 2000, 32, 2287-2297.	1.9	37
22	NMR relaxation times in acute myocardial infarction: Relative influence of changes in tissue water and fat content. <i>Magnetic Resonance in Medicine</i> , 1992, 23, 89-95.	3.0	36
23	Early gestation dexamethasone programs enhanced postnatal ovine coronary artery vascular reactivity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R46-R53.	1.8	36
24	Reducing Equivalent Shuttles in Developing Porcine Myocardium: Enhanced Capacity in the Newborn Heart. <i>Pediatric Research</i> , 1995, 38, 221-227.	2.3	33
25	Nuclear magnetic resonance relaxometry of the normal heart: Relationship between collagen content and relaxation times of the four chambers. <i>Magnetic Resonance Imaging</i> , 1989, 7, 643-648.	1.8	32
26	Cardiomyopathy in offspring of diabetic rats is associated with activation of the MAPK and apoptotic pathways. <i>Cardiovascular Diabetology</i> , 2009, 8, 43.	6.8	31
27	Angiotensin II in cardiac pressure-overload hypertrophy in fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R2037-R2047.	1.8	30
28	Three-dimensional thrombus segmentation in abdominal aortic aneurysms using graph search based on a triangular mesh. <i>Computers in Biology and Medicine</i> , 2010, 40, 271-278.	7.0	30
29	Recruitment of NADH shuttling in pressure-overloaded and hypertrophic rat hearts. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C1880-C1886.	4.6	29
30	Maternal Hyperglycemia Disrupts Histone 3 Lysine 36 Trimethylation of the IGF-1 Gene. <i>Journal of Nutrition and Metabolism</i> , 2012, 2012, 1-7.	1.8	29
31	Thyroid hormone is required for growth adaptation to pressure load in the ovine fetal heart. <i>Experimental Physiology</i> , 2013, 98, 722-733.	2.0	28
32	Tissue Determinants of Nuclear Magnetic Resonance Relaxation Times. <i>Investigative Radiology</i> , 1989, 24, 893-898.	6.2	26
33	Angiotensin AT1receptor blockade fails to attenuate pressure-overload cardiac hypertrophy in fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1997, 273, R1501-R1508.	1.8	26
34	Correlation between myocardial malate/aspartate shuttle activity and EAAT1 protein expression in hyper- and hypothyroidism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H2521-H2526.	3.2	26
35	Myocardial vascular and metabolic adaptations in chronically anemic fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1736-R1745.	1.8	26
36	Maternal antioxidant blocks programmed cardiovascular and behavioural stress responses in adult mice. <i>Clinical Science</i> , 2011, 121, 427-436.	4.3	26

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37	Effect of tissue fat and water content on nuclear magnetic resonance relaxation times of cardiac and skeletal muscle. <i>Magnetic Resonance Imaging</i> , 1990, 8, 605-611.	1.8	25
38	Myocardial Collagen Concentration and Nuclear Magnetic Resonance Relaxation Times in the Spontaneously Hypertensive Rat. <i>Investigative Radiology</i> , 1991, 26, 227-232.	6.2	24
39	Apoptosis-related mitochondrial dysfunction in the early postoperative neonatal lamb heart. <i>Annals of Thoracic Surgery</i> , 2004, 78, 948-955.	1.3	24
40	Water-Macromolecular Proton Magnetization Transfer in Infarcted Myocardium: A Method to Enhance Magnetic Resonance Image Contrast. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 178-184.	3.0	23
41	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.. <i>American Journal of Cardiology</i> , 1999, 83, 1645-1648.	1.6	22
42	Endothelial Superoxide Production Is Altered in Sheep Programmed by Early Gestation Dexamethasone Exposure. <i>Neonatology</i> , 2008, 93, 19-27.	2.0	22
43	Late-gestation betamethasone enhances coronary artery responsiveness to angiotensin II in fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 286, R80-R88.	1.8	20
44	Programming of Adult Cardiovascular Disease following Exposure to Late-Gestation Hyperglycemia. <i>Neonatology</i> , 2011, 100, 198-205.	2.0	20
45	Developmental Regulation of the $\hat{\pm}$ -Glycerophosphate Shuttle in Porcine Myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 1997, 29, 1605-1613.	1.9	19
46	Localized Intestinal Perforation Following Intravenous Indomethacin for Patent Ductus Arteriosus. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 1988, 7, 773-775.	1.8	18
47	Murine aortic reactivity is programmed equally by maternal low protein diet or late gestation dexamethasone. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2007, 20, 833-841.	1.5	18
48	Effects of gestational age on myocardial blood flow and coronary flow reserve in pressure-loaded ovine fetal hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 282, H1359-H1369.	3.2	17
49	Pediatric Tele-Echocardiography: Evaluation of Transmission Modalities. <i>Telemedicine Journal and E-Health</i> , 2001, 7, 17-25.	2.8	16
50	Fetal programming alters reactive oxygen species production in sheep cardiac mitochondria. <i>Clinical Science</i> , 2009, 116, 659-668.	4.3	16
51	Anatomical Modeling with Fuzzy Implicit Surface Templates: Application to Automated Localization of the Heart and Lungs in Thoracic MR Volumes. <i>Computer Vision and Image Understanding</i> , 2000, 80, 1-20.	4.7	15
52	Transfusion Effects on Cardiomyocyte Growth and Proliferation in Fetal Sheep After Chronic Anemia. <i>Pediatric Research</i> , 2011, 69, 485-490.	2.3	15
53	Measurement of kinetic perfusion parameters of gadoteridol in intact myocardium: Effects of ischemia/reperfusion and coronary vasodilation. <i>Magnetic Resonance Imaging</i> , 1995, 13, 799-806.	1.8	14
54	Myocardial apoptosis after cardioplegic arrest in the neonatal lamb. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003, 125, 1268-1273.	0.8	14

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55	Characterization of embryonic cardiac pacemaker and atrioventricular conduction physiology in <i>Xenopus laevis</i> using noninvasive imaging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H2035-H2041.	3.2	13
56	Mitogen-activated protein kinase activation and regulation in the pressure-loaded fetal ovine heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H1587-H1595.	3.2	13
57	Balloon aortic valvuloplasty in a 1,600-gram infant. <i>Catheterization and Cardiovascular Interventions</i> , 2000, 50, 322-325.	1.7	12
58	The Mitogen-Activated Protein Kinases and Akt Are Developmentally Regulated in the Chronically Anemic Fetal Sheep Heart. <i>Journal of the Society for Gynecologic Investigation</i> , 2006, 13, 157-165.	1.7	11
59	Regulation of Myocardial Glucose Transporters GLUT1 and GLUT4 in Chronically Anemic Fetal Lambs. <i>Pediatric Research</i> , 2005, 58, 713-718.	2.3	10
60	Coronary Constriction to Angiotensin II Is Enhanced by Endothelial Superoxide Production in Sheep Programmed by Dexamethasone. <i>Pediatric Research</i> , 2008, 63, 370-374.	2.3	10
61	Joiner et al. reply. <i>Nature</i> , 2014, 513, E3-E3.	27.8	9
62	ANG II modulation of cardiac growth and remodeling in immature fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R965-R972.	1.8	9
63	Automated analysis of four-dimensional magnetic resonance images of the human aorta. <i>International Journal of Cardiovascular Imaging</i> , 2010, 26, 571-578.	1.5	8
64	The effect of adrenalectomy on the cardiac response to subacute fetal anemia. <i>Canadian Journal of Physiology and Pharmacology</i> , 2011, 89, 79-88.	1.4	8
65	Angiotensin II-induced cardiovascular load regulates cardiac remodeling and related gene expression in late-gestation fetal sheep. <i>Pediatric Research</i> , 2014, 75, 689-696.	2.3	8
66	Norwood modification in a patient with hypoplastic left heart and a right aortic arch. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007, 134, 1065-1066.	0.8	7
67	Reduction in myocardial high energy phosphate spin lattice relaxation times using manganese. <i>NMR in Biomedicine</i> , 1994, 7, 137-140.	2.8	6
68	Coronary endothelial function and vascular smooth muscle proliferation are programmed by early-gestation dexamethasone exposure in sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R1607-R1614.	1.8	6
69	Tissue Characterization of Chronic Myocardial Infarction. <i>Investigative Radiology</i> , 1990, 25, 1120-1124.	6.2	5
70	Activation of the Mitogen-Activated Protein Kinases and Akt in Response to Pulmonary Artery Banding in the Fetal Sheep Heart Is Developmentally Regulated. <i>Neonatology</i> , 2008, 93, 145-152.	2.0	5
71	Quantitative analysis of two-phase 3D+time aortic MR images. , 2006, , .		4
72	Quantitative assessment of the entire thoracic aorta from magnetic resonance images. <i>Cardiology in the Young</i> , 2011, 21, 170-177.	0.8	4

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73	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
74	Interventricular differences in myocardial T2 measurements: Experimental and clinical studies. Journal of Magnetic Resonance Imaging, 1991, 1, 513-520.	3.4	3
75	Ontogeny of Vascular Growth Factors in Perinatal Sheep Myocardium. Journal of the Society for Gynecologic Investigation, 2004, 11, 503-510.	1.7	3
76	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
77	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
78	Magnetic Resonance Characterization of Blood Coagulation In Vitro. Investigative Radiology, 1991, 26, 343-347.	6.2	1
79	Analysis of four-dimensional cardiac ventricular magnetic resonance images using statistical models of ventricular shape and cardiac motion. , 2006, , .		1
80	Four-dimensional functional analysis of left and right ventricles using MR images and active appearance models. , 2007, , .		1
81	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
82	Maternal Low Protein Diet and Fetal Glucocorticoid Exposure Program Adult Murine Cardiovascular and Endocrine Status. FASEB Journal, 2008, 22, 947.10.	0.5	0