Lars Grosse-Wortmann

List of Publications by Year
in descending order

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110 papers	3,822 citations	147726 31 h-index	138417 58 g-index
112 all docs	112 docs citations	112 times ranked	4537 citing authors

#	Article	IF	Citations
1	Clinical recommendations for cardiovascular magnetic resonance mapping of T1, T2, T2* and extracellular volume: A consensus statement by the Society for Cardiovascular Magnetic Resonance (SCMR) endorsed by the European Association for Cardiovascular Imaging (EACVI). Journal of Cardiovascular Magnetic Resonance, 2017, 19, 75.	1.6	1,074
2	Aortopulmonary Collaterals After Bidirectional Cavopulmonary Connection or Fontan Completion. Circulation: Cardiovascular Imaging, 2009, 2, 219-225.	1.3	161
3	Reference Ranges of Blood Flow in the Major Vessels of the Normal Human Fetal Circulation at Term by Phase-Contrast Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2014, 7, 663-670.	1.3	132
4	Borderline hypoplasia of the left ventricle in neonates: Insights for decision-making from functional assessment with magnetic resonance imaging. Journal of Thoracic and Cardiovascular Surgery, 2008, 136, 1429-1436.	0.4	103
5	Cardiovascular MRI without sedation or general anesthesia using a feed-and-sleep technique in neonates and infants. Pediatric Radiology, 2012, 42, 183-187.	1.1	98
6	Anatomical and Functional Evaluation of Pulmonary Veins in Children by Magnetic Resonance Imaging. Journal of the American College of Cardiology, 2007, 49, 993-1002.	1.2	96
7	Impaired right and left ventricular diastolic myocardial mechanics and filling in asymptomatic children and adolescents after repair of tetralogy of Fallot. European Heart Journal Cardiovascular Imaging, 2012, 13, 905-913.	0.5	75
8	Aortopulmonary collateral flow volume affects early postoperative outcome after Fontan completion: A multimodality study. Journal of Thoracic and Cardiovascular Surgery, 2012, 144, 1329-1336.	0.4	73
9	Importance of CMR Within the TaskÂForceÂCriteria for the Diagnosis ofÂARVC in Children and Adolescents. Journal of the American College of Cardiology, 2015, 65, 987-995.	1.2	70
10	Echocardiographic Assessment of Right Ventricular Volumes after Surgical Repair of Tetralogy of Fallot: Clinical Validation of a New Echocardiographic Method. Journal of the American Society of Echocardiography, 2011, 24, 1191-1198.	1.2	69
11	Echocardiographic assessment of right ventricular volumes: a comparison of different techniques in children after surgical repair of tetralogy of Fallot. European Heart Journal Cardiovascular Imaging, 2012, 13, 596-604.	0.5	69
12	Impaired Left Ventricular Myocardial Mechanics and Their Relation to Pulmonary Regurgitation, Right Ventricular Enlargement and Exercise Capacity in Asymptomatic Children after Repair of Tetralogy of Fallot. Journal of the American Society of Echocardiography, 2012, 25, 494-503.	1.2	68
13	Diffuse myocardial fibrosis following tetralogy of Fallot repair: a T1 mapping cardiac magnetic resonance study. Pediatric Radiology, 2014, 44, 403-409.	1.1	68
14	Histological validation of cardiovascular magnetic resonance T1 mapping markers of myocardial fibrosis in paediatric heart transplant recipients. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 10.	1.6	64
15	Effect of Chronic Right Ventricular Volume Overload on Ventricular Interaction in Patients after Tetralogy of Fallot Repair. Journal of the American Society of Echocardiography, 2014, 27, 896-902.	1.2	56
16	Assessment of Diffuse Ventricular Myocardial Fibrosis Using Native T1 in Children With Repaired Tetralogy of Fallot. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	56
17	Myocardial T1 Mapping in Pediatric and Congenital Heart Disease. Circulation: Cardiovascular Imaging, 2015, 8, e002504.	1.3	55
18	Disharmonious Patterns of Heterotaxy and Isomerism. Circulation: Cardiovascular Imaging, 2018, 11, e006917.	1.3	51

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19	Longitudinal right ventricular function is a better predictor of right ventricular contribution to exercise performance than global or outflow tract ejection fraction in tetralogy of Fallot: A combined echocardiography and Magnetic Resonance Study. European Heart Journal Cardiovascular Imaging, 2013, 14, 235-239.	0.5	47
20	Prevalence of and risk factors for perioperative arrhythmias in neonates and children after cardiopulmonary bypass: continuous holter monitoring before and for three days after surgery. Journal of Cardiothoracic Surgery, 2010, 5, 85.	0.4	46
21	Increased left ventricular myocardial extracellular volume is associated with longer cardiopulmonary bypass times, biventricular enlargement and reduced exercise tolerance in children after repair of Tetralogy of Fallot. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 75.	1.6	46
22	Pediatric Fontan patients are at risk for myocardial fibrotic remodeling and dysfunction. International Journal of Cardiology, 2017, 240, 172-177.	0.8	44
23	Essential Modifiers of Double Outlet Right Ventricle. Circulation: Cardiovascular Imaging, 2018, 11, e006891.	1.3	44
24	Phaseâ€contrast magnetic resonance quantification of normal pulmonary venous return. Journal of Magnetic Resonance Imaging, 2009, 29, 588-594.	1.9	42
25	MRI reveals hemodynamic changes with acute maternal hyperoxygenation in human fetuses with and without congenital heart disease. Prenatal Diagnosis, 2016, 36, 274-281.	1.1	39
26	Understanding the mechanism for branch pulmonary artery stenosis after the arterial switch operation for transposition of the great arteries. European Heart Journal Cardiovascular Imaging, 2017, 18, 180-185.	0.5	39
27	Utility of Feed-and-Sleep Cardiovascular Magnetic Resonance in Young Infants with Complex Cardiovascular Disease. Pediatric Cardiology, 2015, 36, 809-812.	0.6	38
28	Exercise Echocardiography Demonstrates Biventricular Systolic Dysfunction and Reveals Decreased Left Ventricular Contractile Reserve in Children After Tetralogy of Fallot Repair. Journal of the American Society of Echocardiography, 2015, 28, 294-301.	1.2	37
29	Preoperative total pulmonary blood flow predicts right ventricular pressure in patients early after complete repair of tetralogy of Fallot and pulmonary atresia with major aortopulmonary collateral arteries. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 1185-1190.	0.4	36
30	Determinants and functional impact of restrictive physiology after repair of tetralogy of Fallot: New insights from magnetic resonance imaging. International Journal of Cardiology, 2013, 167, 1347-1353.	0.8	35
31	Association of Echocardiographic Parameters of Right Ventricular Remodeling and Myocardial Performance With Modified Task Force Criteria in Adolescents With Arrhythmogenic Right Ventricular Cardiomyopathy. Circulation: Cardiovascular Imaging, 2019, 12, e007693.	1.3	30
32	Late Gadolinium Enhancement of the right ventricular myocardium: Is it really different from the left ?. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 20.	1.6	29
33	Quantification of Right Ventricular Electromechanical Dyssynchrony in Relation to Right Ventricular Function and Clinical Outcomes in Children with Repaired Tetralogy of Fallot. Journal of the American Society of Echocardiography, 2018, 31, 822-830.	1.2	28
34	Magnetic Resonance Imaging Assessment of Arrhythmogenic Right Ventricular Cardiomyopathy/Dysplasia in Children. Korean Circulation Journal, 2010, 40, 357.	0.7	27
35	Acute effects of the ACE inhibitor enalaprilat on the pulmonary, cerebral and systemic blood flow and resistance after the bidirectional cavopulmonary connection. Heart, 2011, 97, 1343-1348.	1.2	27
36	Distribution of Hypertrophy and Late Gadolinium Enhancement in Children and Adolescents with Hypertrophic Cardiomyopathy. Congenital Heart Disease, 2015, 10, E258-E267.	0.0	27

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37	New advances in fetal cardiovascular magnetic resonance imaging for quantifying the distribution of blood flow and oxygen transport: Potential applications in fetal cardiovascular disease diagnosis and therapy. Echocardiography, 2017, 34, 1799-1803.	0.3	27
38	Novel approaches to the prediction, diagnosis and treatment of cardiac late effects in survivors of childhood cancer: a multi-centre observational study. BMC Cancer, 2017, 17, 519.	1.1	25
39	Left ventricular remodelling in long-term survivors after the arterial switch operation for transposition of the great arteries. European Heart Journal Cardiovascular Imaging, 2019, 20, 101-107.	0.5	24
40	Increased extracellular volume in the liver of pediatric Fontan patients. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 39.	1.6	24
41	Diffuse Myocardial Fibrosis in Children After Heart Transplantations. Transplantation, 2015, 99, 2656-2662.	0.5	23
42	Anatomical risk factors, surgical treatment, and clinical outcomes of left-sided pulmonary vein obstruction in single-ventricle patients. Journal of Thoracic and Cardiovascular Surgery, 2015, 149, 1332-1338.	0.4	23
43	Left Ventricular Function in Children and Adolescents With Arrhythmogenic Right Ventricular Cardiomyopathy. American Journal of Cardiology, 2017, 119, 778-784.	0.7	21
44	Right ventricular fibrosis is associated with cardiac remodelling after pulmonary valve replacement. Heart, 2019, 105, 855-863.	1.2	21
45	Determinants and clinical significance of flow via the fenestration in the Fontan pathway: A multimodality study. International Journal of Cardiology, 2013, 168, 811-817.	0.8	20
46	Persistent fenestration may be a marker for physiologic intolerance after Fontan completion. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 2532-2538.	0.4	20
47	MR assessment of abdominal circulation in Fontan physiology. International Journal of Cardiovascular Imaging, 2014, 30, 1065-1072.	0.7	20
48	Changes in magnetic resonance imaging scores and ventilation inhomogeneity in children with cystic fibrosis pulmonary exacerbations. European Respiratory Journal, 2017, 50, 1700244.	3.1	20
49	Assessment of pulmonary veins after atrio-pericardial anastomosis by cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 72.	1.6	19
50	Direct measurement of aortic regurgitation with phase-contrast magnetic resonance is inaccurate: proposal of an alternative method of quantification. Pediatric Radiology, 2014, 44, 1358-1369.	1.1	19
51	Diffuse Myocardial Fibrosis in Children and Adolescents With Marfan Syndrome and Loeys-Dietz Syndrome. Journal of the American College of Cardiology, 2018, 72, 2279-2281.	1.2	19
52	Effect of anthracycline therapy on myocardial function and markers of fibrotic remodelling in childhood cancer survivors. European Heart Journal Cardiovascular Imaging, 2021, 22, 435-442.	0.5	19
53	Massive systemic-to-pulmonary collateral arteries in the setting of a cavopulmonary shunt and pulmonary venous stenosis. Cardiology in the Young, 2007, 17, 548-550.	0.4	16
54	Magnetic resonance imaging of the transplanted pediatric heart as a potential predictor of rejection. World Journal of Transplantation, 2016, 6, 751.	0.6	15

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55	Early changes in right ventricular function and their clinical consequences in childhood and adolescent dilated cardiomyopathy. Cardiology in the Young, 2010, 20, 418-425.	0.4	14
56	Mesenchymal hamartoma: prenatal diagnosis by MRI. Pediatric Radiology, 2011, 41, 781-784.	1.1	14
57	Vicious circle between progressive right ventricular dilatation and pulmonary regurgitation in patients after tetralogy of Fallot repair? Right heart enlargement promotes flow reversal in the left pulmonary artery. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 34.	1.6	14
58	Myocardial Dimensions in Children With Hypertrophic Cardiomyopathy: A Comparison Between Echocardiography and Cardiac Magnetic Resonance Imaging. Canadian Journal of Cardiology, 2016, 32, 1507-1512.	0.8	14
59	Splanchnic, Thoracoabdominal, and Cerebral Blood Flow Volumes in Healthy Children and Young Adults in Fasting and Postprandial States: Determining Reference Ranges by Using Phase-Contrast MR Imaging. Radiology, 2017, 285, 231-241.	3.6	14
60	Cardiothoracic ratio on chest radiograph in pediatric heart disease: How does it correlate with heart volumes at magnetic resonance imaging?. Pediatric Radiology, 2015, 45, 1616-1623.	1.1	13
61	Arterial dissection in childhood Takayasu Arteritis: not as rare as thought. Pediatric Rheumatology, 2016, 14, 56.	0.9	13
62	Society for Cardiovascular Magnetic Resonance (SCMR) guidelines for reporting cardiovascular magnetic resonance examinations. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 29.	1.6	13
63	Normative Data for Myocardial Native T1 and Extracellular Volume Fraction in Children. Radiology: Cardiothoracic Imaging, 2020, 2, e190234.	0.9	12
64	Magnetic Resonance Lymphangiography. Radiologic Clinics of North America, 2020, 58, 693-706.	0.9	12
65	How many versus how much: comprehensive haemodynamic evaluation of partial anomalous pulmonary venous connection by cardiac MRI. European Radiology, 2018, 28, 4598-4606.	2.3	10
66	2021 Update on Safety of Magnetic Resonance Imaging: Joint Statement From Canadian Cardiovascular Society/Canadian Society for Cardiovascular Magnetic Resonance/Canadian Heart Rhythm Society. Canadian Journal of Cardiology, 2021, 37, 835-847.	0.8	10
67	Magnetic Resonance Imaging Assessment of Blood Flow Distribution in Fenestrated and Completed Fontan Circulation with Special Emphasis on Abdominal Blood Flow. Korean Journal of Radiology, 2019, 20, 1186.	1.5	10
68	Assessment of ductal blood flow in newborns with obstructive left heart lesions by cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 45.	1.6	9
69	Pulmonary artery pulsatility and effect on vessel diameter assessment in magnetic resonance imaging. European Journal of Radiology, 2014, 83, 378-383.	1.2	9
70	Evaluation of knowledge-based reconstruction for magnetic resonance volumetry of the right ventricle after arterial switch operation for dextro-transposition of the great arteries. International Journal of Cardiovascular Imaging, 2016, 32, 1415-1423.	0.7	9
71	Adverse fibrosis remodeling and aortopulmonary collateral flow are associated with poor Fontan outcomes. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 134.	1.6	9
72	Sutureless Versus Conventional Pulmonary Vein Repair: A Magnetic Resonance Pilot Study. Annals of Thoracic Surgery, 2018, 105, 1248-1254.	0.7	8

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73	Echocardiography as a Screening Test for Myocardial Scarring in Children with Hypertrophic Cardiomyopathy. International Journal of Pediatrics (United Kingdom), 2016, 2016, 1-6.	0.2	7
74	Evaluation of knowledge-based reconstruction for magnetic resonance volumetry of the right ventricle in tetralogy of Fallot. Pediatric Radiology, 2014, 44, 1532-1540.	1.1	6
75	How to Image Congenital Left Heart Obstruction in Adults. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	6
76	Abnormal Myocardial Contractility After Pediatric Heart Transplantation by Cardiac MRI. Pediatric Cardiology, 2017, 38, 1198-1205.	0.6	6
77	Right ventricular function in patients with pulmonary regurgitation with versus without tetralogy of Fallot. American Heart Journal, 2019, 213, 8-17.	1.2	6
78	Dual phase infusion with bolus tracking: technical innovation for cardiac and respiratory navigated magnetic resonance angiography using extracellular contrast. Pediatric Radiology, 2019, 49, 399-406.	1.1	6
79	Myocardial Fibrosis in Pediatric Patients With Ebsteinâ€™s Anomaly. Circulation: Cardiovascular Imaging, 2021, 14, e011136.	1.3	6
80	Pulmonary vein flow pattern in children with bidirectional cavopulmonary connection or Fontan circuit. Pediatric Radiology, 2012, 42, 211-214.	1.1	5
81	Bilateral Vertical Veins From a Common Confluence in Supracardiac Total Anomalous Pulmonary Venous Connection. Circulation, 2008, 118, e103-4.	1.6	4
82	Congenital heart disease confounding the diagnosis of arrhythmogenic right ventricular cardiomyopathy. HeartRhythm Case Reports, 2016, 2, 290-295.	0.2	4
83	Progressive right ventricular outflow tract fibrosis after repair of tetralogy of Fallot. Cardiology in the Young, 2020, 30, 1366-1367.	0.4	4
84	Patients with repaired tetralogy of Fallot and the HIF1A1744C/T variant have increased imaging markers of diffuse myocardial fibrosis. International Journal of Cardiology, 2022, 350, 33-35.	0.8	4
85	Magnetic Resonance Imaging as a Decision-Making Tool in Congenital Heart Disease Surgery. Operative Techniques in Thoracic and Cardiovascular Surgery, 2014, 19, 152-163.	0.2	3
86	Abnormal Mitral Valve Dimensions in Pediatric Patients with Hypertrophic Cardiomyopathy. Pediatric Cardiology, 2016, 37, 784-788.	0.6	3
87	Ventricular Torsion in Young Patients With Single-Ventricle Anatomy. Journal of the American Society of Echocardiography, 2018, 31, 1288-1296.	1.2	3
88	Mapping versus source methods for quantifying myocardial T1 in controls and in repaired tetralogy of Fallot: interchangeability and reproducibility in children. Pediatric Radiology, 2019, 49, 1152-1162.	1.1	3
89	Cardiopulmonary magnetic resonance imaging in children after lung transplantation: Preliminary observations. Journal of Heart and Lung Transplantation, 2011, 30, 1294-1298.	0.3	2
90	Acquired unilateral pulmonary vein atresia in a 3-year-old boy. Journal of Ultrasound, 2015, 18, 73-78.	0.7	2

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91	Catheter-Based Palliation in an Infant With Obstructed Cor Triatriatum. Canadian Journal of Cardiology, 2016, 32, 1575.e13-1575.e15.	0.8	2
92	Response to Letter Regarding Article, â€œReduced Fetal Cerebral Oxygen Consumption Is Associated With Smaller Brain Size in Fetuses With Congenital Heart Diseaseâ€• Circulation, 2016, 133, e8.	1.6	2
93	Magnetic resonance imaging of cardiovascular thrombi in children. Pediatric Radiology, 2018, 48, 722-731.	1.1	2
94	Airway Compression After Unifocalization in Pulmonary Atresia and Aortopulmonary Collateral Arteries. Annals of Thoracic Surgery, 2019, 107, 844-851.	0.7	2
95	Neonatal Myocardial Infarction in Association With Gestational Diabetes. Canadian Journal of Cardiology, 2021, , .	0.8	2
96	Social media to enhance engagement and science dissemination during in-person and virtual medical conferences: the SCMR 2020 and 2021 experiences: a report of the SCMR social media task force. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 15.	1.6	2
97	Effect of hydration status on atrial and ventricular volumes and function in healthy adult volunteers. Pediatric Radiology, 2016, 46, 1520-1527.	1.1	1
98	Is T1 Mapping Ready for Rejection Surveillance After Heart Transplantation?. JACC: Cardiovascular Imaging, 2019, 12, 1629-1631.	2.3	1
99	Congenital Heart Disease and Obesity Donâ€™t Mix. Canadian Journal of Cardiology, 2020, 36, 1336-1337.	0.8	1
100	Highlights of the 2020 23rd Society for Cardiovascular Magnetic Resonance Scientific Sessions. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 75.	1.6	1
101	Low descending aorta flow is associated with adverse feeding outcomes in neonates with small left-sided structures. International Journal of Cardiovascular Imaging, 2021, 37, 269-273.	0.7	1
102	Uso Atual de RessonÃ¢ncia MagnÃ©tica CardÃaca PediÃ¡trica no Brasil. Arquivos Brasileiros De Cardiologia, 2021, 116, 305-312.	0.3	1
103	A novel approach to cardiovascular magnetic resonance imaging in young children without sedation. European Journal of Radiology, 2021, 144, 110005.	1.2	1
104	Getting Closer to Predicting SCD in TOF. JACC: Cardiovascular Imaging, 2022, 15, 269-270.	2.3	1
105	Reply. Journal of the American College of Cardiology, 2015, 66, 874-875.	1.2	0
106	Left-to-Right Shunts. Circulation: Cardiovascular Imaging, 2016, 9, .	1.3	0
107	Magnetic Resonance Assessment of RV Remodeling and Function. , 2018, , 113-128.		0
108	Anomalies of the Systemic and Pulmonary Arteries. Medical Radiology, 2018, , 147-165.	0.0	0

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109	Form Follows Function?. Circulation: Cardiovascular Imaging, 2018, 11, e008271.	1.3	0
110	Anomalies of the Systemic and Pulmonary Veins. Medical Radiology, 2019, , 167-183.	0.0	0