

Knirsch Walter

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

1,617
citations

304602

22
h-index

345118

36
g-index

72
all docs

72
docs citations

72
times ranked

1740
citing authors

#	ARTICLE	IF	CITATIONS
1	Infective endocarditis in congenital heart disease. <i>European Journal of Pediatrics</i> , 2011, 170, 1111-1127.	1.3	136
2	Severe Congenital Heart Defects Are Associated with Global Reduction of Neonatal Brain Volumes. <i>Journal of Pediatrics</i> , 2015, 167, 1259-1263.e1.	0.9	99
3	Cardiac output measurement in children: comparison of the Ultrasound Cardiac Output Monitor with thermodilution cardiac output measurement. <i>Intensive Care Medicine</i> , 2008, 34, 1060-1064.	3.9	78
4	Assessment of Myocardial Function in Pediatric Patients with Operated Tetralogy of Fallot: Preliminary Results with 2D Strain Echocardiography. <i>Pediatric Cardiology</i> , 2008, 29, 718-725.	0.6	70
5	Mortality and neurodevelopmental outcome at 1 year of age comparing hybrid and Norwood procedures. <i>European Journal of Cardio-thoracic Surgery</i> , 2012, 42, 33-39.	0.6	62
6	White matter injury in term neonates with congenital heart diseases: Topology & comparison with preterm newborns. <i>NeuroImage</i> , 2019, 185, 742-749.	2.1	60
7	Neurodevelopmental Profiles of Children with Congenital Heart Disease at School Age. <i>Journal of Pediatrics</i> , 2017, 188, 75-81.	0.9	59
8	Cognitive and Executive Function in Congenital Heart Disease: A Meta-analysis. <i>Pediatrics</i> , 2021, 148, .	1.0	53
9	Hybrid approach for hypoplastic left heart syndrome and its variants: the fate of the pulmonary arteries. <i>European Journal of Cardio-thoracic Surgery</i> , 2014, 46, 14-19.	0.6	51
10	Delayed cortical gray matter development in neonates with severe congenital heart disease. <i>Pediatric Research</i> , 2016, 80, 668-674.	1.1	48
11	Hippocampal volume reduction is associated with intellectual functions in adolescents with congenital heart disease. <i>Pediatric Research</i> , 2016, 80, 531-537.	1.1	43
12	Interventions Using Foreign Material to Treat Congenital Heart Disease in Children Increase the Risk for Infective Endocarditis. <i>Pediatric Infectious Disease Journal</i> , 2008, 27, 544-550.	1.1	41
13	Catheter interventional treatment of congenital portosystemic venous shunts in childhood. <i>Catheterization and Cardiovascular Interventions</i> , 2016, 87, 1281-1292.	0.7	35
14	Postoperative brain volumes are associated with one-year neurodevelopmental outcome in children with severe congenital heart disease. <i>Scientific Reports</i> , 2019, 9, 10885.	1.6	35
15	Postoperative Amplitude-Integrated Electroencephalography Predicts Four-Year Neurodevelopmental Outcome in Children with Complex Congenital Heart Disease. <i>Journal of Pediatrics</i> , 2016, 178, 55-60.e1.	0.9	34
16	Interventional Closure of Secundum Type Atrial Septal Defects in Infants Less Than 10 Kilograms: Indications and Procedural Outcome. <i>Journal of Interventional Cardiology</i> , 2016, 29, 646-653.	0.5	34
17	Normal values of the sagittal diameter of the lumbar spine (vertebral body and dural sac) in children measured by MRI. <i>Pediatric Radiology</i> , 2005, 35, 419-424.	1.1	33
18	Reduction of brain volumes after neonatal cardiopulmonary bypass surgery in single-ventricle congenital heart disease before Fontan completion. <i>Pediatric Research</i> , 2018, 83, 63-70.	1.1	32

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19	Delayed maturation of the structural brain connectome in neonates with congenital heart disease. <i>Brain Communications</i> , 2020, 2, fcaa209.	1.5	29
20	Femoral Arterial Thrombosis After Cardiac Catheterization In Infancy: Impact of Doppler Ultrasound for Diagnosis. <i>Pediatric Cardiology</i> , 2013, 34, 530-535.	0.6	28
21	VAD as Bridge to Recovery in Anthracycline-Induced Cardiomyopathy and HHV6 Myocarditis. <i>Pediatrics</i> , 2014, 134, e894-e899.	1.0	28
22	Aortic sinus-left atrial fistula after interventional closure of atrial septal defect. <i>Catheterization and Cardiovascular Interventions</i> , 2005, 66, 10-13.	0.7	27
23	Stent implantation and balloon angioplasty for treatment of branch pulmonary artery stenosis in children. <i>Clinical Research in Cardiology</i> , 2008, 97, 310-317.	1.5	24
24	Plasma B β -type natriuretic peptide levels in children with heart disease. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2011, 100, 1213-1216.	0.7	22
25	Regional Microstructural and Volumetric Magnetic Resonance Imaging (MRI) Abnormalities in the Corpus Callosum of Neonates With Congenital Heart Defect Undergoing Cardiac Surgery. <i>Journal of Child Neurology</i> , 2016, 31, 300-308.	0.7	22
26	Neurodevelopmental Outcome and Health-related Quality of Life in Children With Single-ventricle Heart Disease Before Fontan Procedure. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2017, 29, 504-513.	0.4	22
27	Left temporal plane growth predicts language development in newborns with congenital heart disease. <i>Brain</i> , 2019, 142, 1270-1281.	3.7	22
28	A Uniform Description of Perioperative Brain MRI Findings in Infants with Severe Congenital Heart Disease: Results of a European Collaboration. <i>American Journal of Neuroradiology</i> , 2021, 42, 2034-2039.	1.2	21
29	Predictors of quality of life in young adults with congenital heart disease. <i>European Heart Journal Quality of Care & Clinical Outcomes</i> , 2019, 5, 161-168.	1.8	20
30	Determinants of body weight gain and association with neurodevelopmental outcome in infants operated for congenital heart disease. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2010, 10, 377-382.	0.5	19
31	Closure of coronary artery fistula in childhood: treatment techniques and long-term follow-up. <i>Clinical Research in Cardiology</i> , 2017, 106, 211-218.	1.5	19
32	Structural brain abnormalities in adults with congenital heart disease: Prevalence and association with estimated intelligence quotient. <i>International Journal of Cardiology</i> , 2020, 306, 61-66.	0.8	18
33	Clinical Course and Interstage Monitoring After the Norwood and Hybrid Procedures for Hypoplastic Left Heart Syndrome. <i>Pediatric Cardiology</i> , 2014, 35, 851-856.	0.6	17
34	Balloon valvuloplasty of aortic valve stenosis in childhood: early and medium term results. <i>Clinical Research in Cardiology</i> , 2008, 97, 587-593.	1.5	16
35	Role of sevoflurane in organ protection during cardiac surgery in children: a randomized controlled trial. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2015, 20, 157-165.	0.5	16
36	Neurodevelopmental Outcome of Children with Hypoplastic Left Heart Syndrome at One and Four Years of Age Comparing Hybrid and Norwood Procedure. <i>Annals of Thoracic and Cardiovascular Surgery</i> , 2016, 22, 375-377.	0.3	16

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37	Comparison of automated brain volumetry methods with stereology in children aged 2 to 3 years. <i>Neuroradiology</i> , 2016, 58, 901-910.	1.1	14
38	Psychosocial impact on families with an infant with a hypoplastic left heart syndrome during and after the interstage monitoring period – a prospective mixed-method study. <i>Journal of Clinical Nursing</i> , 2017, 26, 3363-3370.	1.4	14
39	Growth and Intellectual Abilities of Six-Year-Old Children with Congenital Heart Disease. <i>Journal of Pediatrics</i> , 2019, 204, 24-30.e10.	0.9	13
40	A Valveless Pulsatile Pump for the Treatment of Heart Failure with Preserved Ejection Fraction: A Simulation Study. <i>Cardiovascular Engineering and Technology</i> , 2019, 10, 69-79.	0.7	13
41	Monitoring aspirin therapy in children after interventional cardiac catheterization: laboratory measures, dose response, and clinical outcomes. <i>European Journal of Pediatrics</i> , 2015, 174, 933-941.	1.3	12
42	Persistence of visuo-constructional and executive deficits in adolescents after open-heart surgery. <i>Research in Developmental Disabilities</i> , 2015, 36, 303-310.	1.2	12
43	First-in-man pulmonary artery stenting in children using the Bentley® BeGrow™ stent system for newborns and infants. <i>International Journal of Cardiology</i> , 2019, 276, 107-109.	0.8	12
44	Structural cerebral abnormalities and neurodevelopmental status in single ventricle congenital heart disease before Fontan procedure. <i>European Journal of Cardio-thoracic Surgery</i> , 2017, 51, ezw399.	0.6	11
45	Effectiveness of Angiotensin-Converting Enzyme Inhibitors in Pediatric Patients with Mid to Severe Aortic Valve Regurgitation. <i>Pediatric Cardiology</i> , 2008, 29, 906-909.	0.6	10
46	Neurocognitive outcome of school-aged children with congenital heart disease who underwent cardiopulmonary bypass surgery: a systematic review protocol. <i>Systematic Reviews</i> , 2019, 8, 236.	2.5	10
47	Interrelationship Between Hemodynamics, Brain Volumes, and Outcome in Hypoplastic Left Heart Syndrome. <i>Annals of Thoracic Surgery</i> , 2019, 107, 1838-1844.	0.7	10
48	Percutaneous closure of patent ductus arteriosus in small infants of less than 8½kg body weight using different devices. <i>European Journal of Pediatrics</i> , 2004, 163, 619-21.	1.3	9
49	Aortopulmonary collaterals in neonates with d-transposition of the great arteries – Clinical significance early after arterial switch operation. <i>International Journal of Cardiology</i> , 2018, 258, 237-242.	0.8	9
50	Reduced Systolic Function and Not Genetic Variants Determine Outcome in Pediatric and Adult Left Ventricular Noncompaction Cardiomyopathy. <i>Frontiers in Pediatrics</i> , 2021, 9, 722926.	0.9	8
51	Postoperative Improvement of Brain Maturation in Infants With Congenital Heart Disease. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2022, 34, 251-259.	0.4	8
52	Neuromonitoring, neuroimaging, and neurodevelopmental follow-up practices in neonatal congenital heart disease: a European survey. <i>Pediatric Research</i> , 2023, 93, 168-175.	1.1	7
53	Ductus arteriosus-associated infective endarteritis: Lessons from the past, future perspective. <i>Congenital Heart Disease</i> , 2019, 14, 671-677.	0.0	6
54	Establishing a pre-clinical growing animal model to test a tissue engineered valved pulmonary conduit. <i>Journal of Thoracic Disease</i> , 2020, 12, 1070-1078.	0.6	6

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55	Angiotensin-converting Enzyme Inhibitors in Pediatric Patients with Mitral Valve Regurgitation-Case-control Study and Review of the Literature. <i>Congenital Heart Disease</i> , 2010, 5, 278-284.	0.0	5
56	Children and Adolescents Show Altered Visual Working Memory Related Brain Activity More Than One Decade After Arterial Switch Operation for D-Transposition of the Great Arteries. <i>Developmental Neuropsychology</i> , 2016, 41, 261-267.	1.0	5
57	Factors Influencing ACT After Intravenous Bolus Administration of 100 IU/kg of Unfractionated Heparin During Cardiac Catheterization in Children. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2017, 23, 740-747.	0.7	5
58	Risk factor analysis for a complicated postoperative course after neonatal arterial switch operation: The role of troponin T. <i>Congenital Heart Disease</i> , 2018, 13, 594-601.	0.0	5
59	Smaller brain volumes at two years of age in patients with hypoplastic left heart syndrome - Impact of surgical approach. <i>International Journal of Cardiology</i> , 2019, 291, 42-44.	0.8	4
60	Health-related quality of life in pre-school age children with single-ventricle CHD. <i>Cardiology in the Young</i> , 2019, 29, 162-168.	0.4	4
61	Effectiveness of Balloon Angioplasty in Children With Recurrent Aortic Coarctation Depends on the Type of Aortic Arch Pathology. <i>Journal of Interventional Cardiology</i> , 2016, 29, 414-423.	0.5	3
62	Cerebral desaturation during neonatal congenital heart surgery is associated with perioperative brain structure alterations but not with neurodevelopmental outcome at 1 year. <i>European Journal of Cardio-thoracic Surgery</i> , 2022, 62, .	0.6	3
63	Interventional closure of RPA-to-LA communication in an oligosymptomatic neonate. <i>European Journal of Pediatrics</i> , 2014, 173, 1703-1705.	1.3	2
64	Surgical technique: establishing a pre-clinical large animal model to test aortic valve leaflet substitute. <i>Journal of Thoracic Disease</i> , 2016, 8, 3733-3738.	0.6	2
65	Time-trend population analysis of the clinical and epidemiologic effect on pediatric infective endocarditis after change of antibiotic prophylaxis guidelines. <i>Infection</i> , 2020, 48, 671-678.	2.3	2
66	Infective endocarditis: prevention and antibiotic prophylaxis. <i>Swiss Medical Weekly</i> , 2021, 151, w20473.	0.8	2
67	Long-term follow-up of interventional closure of atrial septal defect using the Solysafeâ„¢ Septal Occluder. <i>International Journal of Cardiology</i> , 2016, 223, 645-646.	0.8	1
68	Newborn girl with coarctation of the aorta and anomalous left coronary artery from pulmonary artery, with retrograde perfusion of left circumflex artery: a case report. <i>European Heart Journal - Case Reports</i> , 2019, 3, 1-4.	0.3	1
69	Corrigendum to "Comparison of surgical and interventional therapy of native and recurrent aortic coarctation regarding different age groups during childhood" [Eur. J. Cardiothorac. Surg. 39 (2011) 898-904]. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 40, 1035-1035.	0.6	0
70	Reply to Shanmugam and Maharajh. <i>European Journal of Cardio-thoracic Surgery</i> , 2012, 41, 723-724.	0.6	0
71	Comparing acute and long-term outcome of critical neonatal native aortic coarctation treated by combined stent-surgery approach or by primary surgery. <i>International Journal of Cardiology Congenital Heart Disease</i> , 2021, 4, 100170.	0.2	0