Christopher Kelly

List of Publications by Year
in descending order

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26 papers	4,349 citations	471509 17 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	5623 citing authors

#	Article	IF	Citations
1	International evaluation of an AI system for breast cancer screening. Nature, 2020, 577, 89-94.	27.8	1,458
2	Key challenges for delivering clinical impact with artificial intelligence. BMC Medicine, 2019, 17, 195.	5.5	968
3	Reporting guidelines for clinical trial reports for interventions involving artificial intelligence: the CONSORT-AI extension. Nature Medicine, 2020, 26, 1364-1374.	30.7	353
4	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. NeuroImage, 2018, 173, 88-112.	4.2	315
5	Predicting conversion to wet age-related macular degeneration using deep learning. Nature Medicine, 2020, 26, 892-899.	30.7	178
6	Clinically Applicable Segmentation of Head and Neck Anatomy for Radiotherapy: Deep Learning Algorithm Development and Validation Study. Journal of Medical Internet Research, 2021, 23, e26151.	4.3	142
7	Guidelines for clinical trial protocols for interventions involving artificial intelligence: the SPIRIT-AI extension. The Lancet Digital Health, 2020, 2, e549-e560.	12.3	135
8	Reporting guidelines for clinical trial reports for interventions involving artificial intelligence: the CONSORT-AI extension. The Lancet Digital Health, 2020, 2, e537-e548.	12.3	112
9	Rapid advances in auto-segmentation of organs at risk and target volumes in head and neck cancer. Radiotherapy and Oncology, 2019, 135, 130-140.	0.6	86
10	Different patterns of cortical maturation before and after 38 weeks gestational age demonstrated by diffusion MRI in vivo. NeuroImage, 2019, 185, 764-775.	4.2	73
11	Quantitative Analysis of OCT for Neovascular Age-Related Macular Degeneration Using Deep Learning. Ophthalmology, 2021, 128, 693-705.	5.2	64
12	Impaired development of the cerebral cortex in infants with congenital heart disease is correlated to reduced cerebral oxygen delivery. Scientific Reports, 2017, 7, 15088.	3.3	60
13	Neuroimaging, cardiovascular physiology, and functional outcomes in infants with congenital heart disease. Developmental Medicine and Child Neurology, 2017, 59, 894-902.	2.1	46
14	Recent advances in diffusion neuroimaging: applications in the developing preterm brain. F1000Research, 2018, 7, 1326.	1.6	45
15	Neuroimaging findings in newborns with congenital heart disease prior to surgery: an observational study. Archives of Disease in Childhood, 2019, 104, 1042-1048.	1.9	37
16	Promoting innovation in healthcare. Future Hospital Journal, 2017, 4, 121-125.	0.2	35
17	Validation and Clinical Applicability of Whole-Volume Automated Segmentation of Optical Coherence Tomography in Retinal Disease Using Deep Learning. JAMA Ophthalmology, 2021, 139, 964.	2.5	23
18	Cognitive function in toddlers with congenital heart disease: The impact of a stimulating home environment. Infancy, 2021, 26, 184-199.	1.6	21

#	Article	IF	Citations
19	A Uniform Description of Perioperative Brain MRI Findings in Infants with Severe Congenital Heart Disease: Results of a European Collaboration. American Journal of Neuroradiology, 2021, 42, 2034-2039.	2.4	21
20	Individualized brain development and cognitive outcome in infants with congenital heart disease. Brain Communications, 2021, 3, fcab046.	3.3	19
21	Investigating altered brain development in infants with congenital heart disease using tensor-based morphometry. Scientific Reports, 2020, 10, 14909.	3.3	17
22	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. NeuroImage: Clinical, 2020, 28, 102423.	2.7	14
23	Advances in neonatal MRI of the brain: from research to practice. Archives of Disease in Childhood: Education and Practice Edition, 2019, 104, 106-110.	0.5	8
24	MRI studies of brain size and growth in individuals with congenital heart disease. Translational Pediatrics, 2021, 10, 2171-2181.	1.2	3
25	Artificial Intelligence in Pediatrics. , 2021, , 1-18.		2
26	Artificial Intelligence in Pediatrics. , 2022, , 1029-1045.		0