Kristen W Yeom

List of Publications by Year
in descending order

100 papers	4,350 citations	236925 25 h-index	123424 61 g-index
102 all docs	102 docs citations	102 times ranked	7166 citing authors

#	Article	IF	Citations
1	Deep learning for chest radiograph diagnosis: A retrospective comparison of the CheXNeXt algorithm to practicing radiologists. PLoS Medicine, 2018, 15, e1002686.	8.4	773
2	Deep-learning-assisted diagnosis for knee magnetic resonance imaging: Development and retrospective validation of MRNet. PLoS Medicine, 2018, 15, e1002699.	8.4	409
3	Susceptibility-weighted imaging and quantitative susceptibility mapping in the brain. Journal of Magnetic Resonance Imaging, 2015, 42, 23-41.	3.4	407
4	GD2-CAR T cell therapy for H3K27M-mutated diffuse midline gliomas. Nature, 2022, 603, 934-941.	27.8	339
5	Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors, and Machine-Learning Approaches. American Journal of Neuroradiology, 2018, 39, 208-216.	2.4	281
6	Magnetic resonance image features identify glioblastoma phenotypic subtypes with distinct molecular pathway activities. Science Translational Medicine, 2015, 7, 303ra138.	12.4	227
7	Deep Learningâ€“Assisted Diagnosis of Cerebral Aneurysms Using the HeadXNet Model. JAMA Network Open, 2019, 2, e195600.	5.9	163
8	Response assessment in paediatric low-grade glioma: recommendations from the Response Assessment in Pediatric Neuro-Oncology (RAPNO) working group. Lancet Oncology, The, 2020, 21, e305-e316.	10.7	115
9	Clinical applications of iron oxide nanoparticles for magnetic resonance imaging of brain tumors. Nanomedicine, 2015, 10, 993-1018.	3.3	98
10	Distinctive MRI Features of Pediatric Medulloblastoma Subtypes. American Journal of Roentgenology, 2013, 200, 895-903.	2.2	91
11	MR Imagingâ€“Based Radiomic Signatures of Distinct Molecular Subgroups of Medulloblastoma. American Journal of Neuroradiology, 2019, 40, 154-161.	2.4	87
12	Comparison of Readout-Segmented Echo-Planar Imaging (EPI) and Single-Shot EPI in Clinical Application of Diffusion-Weighted Imaging of the Pediatric Brain. American Journal of Roentgenology, 2013, 200, W437-W443.	2.2	69
13	End-to-end automatic differentiation of the coronavirus disease 2019 (COVID-19) from viral pneumonia based on chest CT. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2516-2524.	6.4	64
14	Revealing subâ€voxel motions of brain tissue using phaseâ€based amplified MRI (aMRI). Magnetic Resonance in Medicine, 2018, 80, 2549-2559.	3.0	61
15	Quantification of Macrophages in High-Grade Gliomas by Using Ferumoxytol-enhanced MRI: A Pilot Study. Radiology, 2019, 290, 198-206.	7.3	61
16	The role of angiogenesis in Group 3 medulloblastoma pathogenesis and survival. Neuro-Oncology, 2017, 19, 1217-1227.	1.2	53
17	Neonatal brain microstructure correlates of neurodevelopment and gait in preterm children 18â€“22 mo of age: an MRI and DTI study. Pediatric Research, 2015, 78, 700-708.	2.3	45
18	Learning-based single-step quantitative susceptibility mapping reconstruction without brain extraction. NeuroImage, 2019, 202, 116064.	4.2	44

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19	Artificial intelligence in stroke imaging: Current and future perspectives. Clinical Imaging, 2021, 69, 246-254.	1.5	43
20	Clinical Evaluation of Silent T1-Weighted MRI and Silent MR Angiography of the Brain. American Journal of Roentgenology, 2018, 210, 404-411.	2.2	35
21	Deep COVID DeteCT: an international experience on COVID-19 lung detection and prognosis using chest CT. Npj Digital Medicine, 2021, 4, 11.	10.9	34
22	Radiomics of Pediatric Low-Grade Gliomas: Toward a Pretherapeutic Differentiation of BRAF-Mutated and BRAF-Fused Tumors. American Journal of Neuroradiology, 2021, 42, 759-765.	2.4	32
23	Prediction of cognitive and motor development in preterm children using exhaustive feature selection and cross-validation of near-term white matter microstructure. NeuroImage: Clinical, 2018, 17, 667-679.	2.7	31
24	Deep Learning for Pediatric Posterior Fossa Tumor Detection and Classification: A Multi-Institutional Study. American Journal of Neuroradiology, 2020, 41, 1718-1725.	2.4	31
25	Sclerotherapy for lymphatic malformations of the head and neck in the pediatric population. Journal of NeuroInterventional Surgery, 2017, 9, 1023-1026.	3.3	29
26	Development of an optogenetic toolkit for neural circuit dissection in squirrel monkeys. Scientific Reports, 2018, 8, 6775.	3.3	28
27	Tract Profiles of the Cerebellar White Matter Pathways in Children and Adolescents. Cerebellum, 2015, 14, 613-623.	2.5	27
28	Computational Identification of Tumor Anatomic Location Associated with Survival in 2 Large Cohorts of Human Primary Glioblastomas. American Journal of Neuroradiology, 2016, 37, 621-628.	2.4	27
29	MRI Radiogenomics of Pediatric Medulloblastoma: A Multicenter Study. Radiology, 2022, 304, 406-416.	7.3	27
30	Association of Pediatric Acute-Onset Neuropsychiatric Syndrome With Microstructural Differences in Brain Regions Detected via Diffusion-Weighted Magnetic Resonance Imaging. JAMA Network Open, 2020, 3, e204063.	5.9	25
31	Multi-classifier-based identification of COVID-19 from chest computed tomography using generalizable and interpretable radiomics features. European Journal of Radiology, 2021, 136, 109552.	2.6	25
32	Semiautomatic segmentation and follow-up of multicomponent low-grade tumors in longitudinal brain MRI studies. Medical Physics, 2014, 41, 052303.	3.0	23
33	Age-Dependent White Matter Characteristics of the Cerebellar Peduncles from Infancy Through Adolescence. Cerebellum, 2019, 18, 372-387.	2.5	23
34	Neonatal Brain Microstructure and Machine-Learning-Based Prediction of Early Language Development in Children Born VeryÂPreterm. Pediatric Neurology, 2020, 108, 86-92.	2.1	23
35	Gray Matter Growth Is Accompanied by Increasing Blood Flow and Decreasing Apparent Diffusion Coefficient during Childhood. American Journal of Neuroradiology, 2016, 37, 1738-1744.	2.4	21
36	Brain Perfusion and Diffusion Abnormalities in Children Treated for Posterior Fossa Brain Tumors. Journal of Pediatrics, 2017, 185, 173-180.e3.	1.8	21

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37	Molecular correlates of cerebellar mutism syndrome in medulloblastoma. Neuro-Oncology, 2020, 22, 290-297.	1.2	21
38	Framework for shape analysis of white matter fiber bundles. NeuroImage, 2018, 167, 466-477.	4.2	20
39	Arterial spin-labeling cerebral perfusion changes after revascularization surgery in pediatric moyamoya disease and syndrome. Journal of Neurosurgery: Pediatrics, 2019, 23, 486-492.	1.3	19
40	Artificial intelligence for automatic cerebral ventricle segmentation and volume calculation: a clinical tool for the evaluation of pediatric hydrocephalus. Journal of Neurosurgery: Pediatrics, 2021, 27, 131-138.	1.3	17
41	High-resolution 3D volumetric contrast-enhanced MR angiography with a blood pool agent (ferumoxytol) for diagnostic evaluation of pediatric brain arteriovenous malformations. Journal of Neurosurgery: Pediatrics, 2018, 22, 251-260.	1.3	15
42	Deep Learning for Automated Classification ofÂInferior Vena Cava Filter Types on Radiographs. Journal of Vascular and Interventional Radiology, 2020, 31, 66-73.	0.5	15
43	Attention-guided deep learning for gestational age prediction using fetal brain MRI. Scientific Reports, 2022, 12, 1408.	3.3	15
44	Citrate concentrations increase with hypoperfusion in pediatric diffuse intrinsic pontine glioma. Journal of Neuro-Oncology, 2015, 122, 383-389.	2.9	14
45	Focal Cerebral Arteriopathy: The Face With Many Names. Pediatric Neurology, 2015, 53, 247-252.	2.1	14
46	MRI-based radiomics for prognosis of pediatric diffuse intrinsic pontine glioma: an international study. Neuro-Oncology Advances, 2021, 3, vdab042.	0.7	14
47	Automatic Lung Nodule Segmentation and Intra-Nodular Heterogeneity Image Generation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2570-2581.	6.3	13
48	Children with epilepsy demonstrate macro- and microstructural changes in the thalamus, putamen, and amygdala. Neuroradiology, 2020, 62, 389-397.	2.2	12
49	Radiomic Phenotypes Distinguish Atypical Teratoid/Rhabdoid Tumors from Medulloblastoma. American Journal of Neuroradiology, 2021, 42, 1702-1708.	2.4	12
50	Rapid-sequence brain magnetic resonance imaging for Chiari I abnormality. Journal of Neurosurgery: Pediatrics, 2018, 22, 158-164.	1.3	11
51	A Review of Chronic Leukoencephalopathy among Survivors of Childhood Cancer. Pediatric Neurology, 2019, 101, 2-10.	2.1	11
52	A PET/MR Imaging Approach for the Integrated Assessment of Chemotherapy-induced Brain, Heart, and Bone Injuries in Pediatric Cancer Survivors: A Pilot Study. Radiology, 2017, 285, 971-979.	7.3	9
53	Brain Diffusion Abnormalities in Children with Tension-Type and Migraine-Type Headaches. American Journal of Neuroradiology, 2018, 39, 935-941.	2.4	9
54	Early Diffusion Magnetic Resonance Imaging Changes in Normal-Appearing Brain in Pediatric Moyamoya Disease. Neurosurgery, 2020, 86, 530-537.	1.1	9

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55	Prediction of Gait Impairment in Toddlers Born Preterm From Near-Term Brain Microstructure Assessed With DTI, Using Exhaustive Feature Selection and Cross-Validation. Frontiers in Human Neuroscience, 2019, 13, 305.	2.0	9
56	Radiology artificial intelligence, a systematic evaluation of methods (RAISE): a systematic review protocol. Insights Into Imaging, 2020, 11, 133.	3.4	9
57	MR Imaging of Pediatric Brain Tumors. Diagnostics, 2022, 12, 961.	2.6	9
58	The Utility of Collaterals as a Biomarker in Pediatric Unilateral Intracranial Arteriopathy. Pediatric Neurology, 2018, 78, 27-34.	2.1	8
59	Machine Assist for Pediatric Posterior Fossa Tumor Diagnosis: A Multinational Study. Neurosurgery, 2021, 89, 892-900.	1.1	8
60	Machine learning approach to differentiation of peripheral schwannomas and neurofibromas: A multi-center study. Neuro-Oncology, 2022, 24, 601-609.	1.2	8
61	Radiomic signatures of posterior fossa ependymoma: Molecular subgroups and risk profiles. Neuro-Oncology, 2022, 24, 986-994.	1.2	8
62	Safety of Dynamic Magnetic Resonance Imaging of the Cervical Spine in Children Performed without Neurosurgical Supervision. World Neurosurgery, 2018, 116, e1188-e1193.	1.3	7
63	Cerebral volume and diffusion MRI changes in children with sensorineural hearing loss. NeuroImage: Clinical, 2020, 27, 102328.	2.7	7
64	Machine-Learning Approach to Differentiation of Benign and Malignant Peripheral Nerve Sheath Tumors: A Multicenter Study. Neurosurgery, 2021, 89, 509-517.	1.1	7
65	Abstract CT031: GD2 CAR T cells mediate clinical activity and manageable toxicity in children and young adults with DIPG and H3K27M-mutated diffuse midline gliomas. , 2021, , .		7
66	Listening to Mom in the NICU: effects of increased maternal speech exposure on language outcomes and white matter development in infants born very preterm. Trials, 2021, 22, 444.	1.6	7
67	Congenital Brain Malformations in the Neonatal and Early Infancy Period. Seminars in Ultrasound, CT and MRI, 2015, 36, 97-119.	1.5	6
68	Brain Iron Assessment after Ferumoxytol-enhanced MRI in Children and Young Adults with Arteriovenous Malformations: A Case-Control Study. Radiology, 2020, 297, 438-446.	7.3	6
69	EPCT-14. GD2 CAR T-CELLS MEDIATE CLINICAL ACTIVITY AND MANAGEABLE TOXICITY IN CHILDREN AND YOUNG ADULTS WITH H3K27M-MUTATED DIPG AND SPINAL CORD DMG. Neuro-Oncology, 2021, 23, i49-i50.	1.2	6
70	Deep Learning for Automated Delineation of Pediatric Cerebral Arteries on Pre-operative Brain Magnetic Resonance Imaging. Frontiers in Surgery, 2020, 7, 517375.	1.4	6
71	Acetazolamide-Challenged Arterial Spin Labeling Detects Augmented Cerebrovascular Reserve After Surgery for Moyamoya. Stroke, 2022, 53, 1354-1362.	2.0	6
72	Effect of Number of Acquisitions in Diffusion Tensor Imaging of the Pediatric Brain: Optimizing Scan Time and Diagnostic Experience. Journal of Neuroimaging, 2015, 25, 296-302.	2.0	5

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73	Case Series: Fractional Anisotropy Profiles of the Cerebellar Peduncles in Adolescents Born Preterm With Ventricular Dilation. Journal of Child Neurology, 2016, 31, 321-327.	1.4	5
74	Chemoradiation impairs normal developmental cortical thinning in medulloblastoma. Journal of Neuro-Oncology, 2017, 133, 429-434.	2.9	5
75	Isolated Intraorbital Frontosphenoidal Synostosis. Journal of Craniofacial Surgery, 2018, 29, 82-87.	0.7	5
76	Decoding and Systematization of Medical Imaging Features of Multiple Human Malignancies. Radiology Imaging Cancer, 2020, 2, e190079.	1.6	5
77	Utilization of Novel High-Resolution, MRI-Based Vascular Imaging Modality for Preoperative Stereoelectroencephalography Planning in Children: A Technical Note. Stereotactic and Functional Neurosurgery, 2020, 98, 1-7.	1.5	5
78	Current Perspectives of Artificial Intelligence in Pediatric Neuroradiology: An Overview. Frontiers in Radiology, 2021, 1, .	2.0	5
79	Clinical Artificial Intelligence Applications in Radiology. Radiologic Clinics of North America, 2021, 59, 1003-1012.	1.8	5
80	Radiomics Can Distinguish Pediatric Supratentorial Embryonal Tumors, High-Grade Gliomas, and Ependymomas. American Journal of Neuroradiology, 2022, 43, 603-610.	2.4	5
81	Reduced field of view echo-planar imaging diffusion tensor MRI for pediatric spinal tumors. Journal of Neurosurgery: Spine, 2019, 31, 607-615.	1.7	4
82	Ferumoxytol-enhanced MRI for surveillance of pediatric cerebral arteriovenous malformations. Journal of Neurosurgery: Pediatrics, 2019, 24, 407-414.	1.3	4
83	Tectal pineal cyst in a 1-year-old girl. Human Pathology, 2014, 45, 653-656.	2.0	3
84	Long-Term Supratentorial Radiologic Effects of Surgery and Local Radiation in Children with Infratentorial Ependymoma. World Neurosurgery, 2019, 122, e1300-e1304.	1.3	3
85	Neonatal genetic epilepsies display convergent white matter microstructural abnormalities. Epilepsia, 2020, 61, e192-e197.	5.1	3
86	ADC Histogram Analysis of Pediatric Low-Grade Glioma Treated with Selumetinib: A Report from the Pediatric Brain Tumor Consortium. American Journal of Neuroradiology, 2022, 43, 455-461.	2.4	3
87	Spatiotemporal changes in along-tract profilometry of cerebellar peduncles in cerebellar mutism syndrome. NeuroImage: Clinical, 2022, 35, 103000.	2.7	3
88	Congenital Hearing Loss Is Associated With a High Incidence of Central Nervous System Abnormalities. Otology and Neurotology, 2020, 41, 1397-1405.	1.3	2
89	Simultaneous time of flight-MRA and T2* imaging for cerebrovascular MRI. Neuroradiology, 2021, 63, 243-251.	2.2	2
90	Diffusion tensor magnetic resonance imaging of the optic nerves in pediatric hydrocephalus. Neurosurgical Focus, 2019, 47, E16.	2.3	2

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91	MRI Correlates of Ototoxicity in the Auditory Pathway in Children Treated for Medulloblastoma. Otology and Neurotology, 2022, 43, e97-e104.	1.3	2
92	Improved prediction of postoperative pediatric cerebellar mutism syndrome using an artificial neural network. Neuro-Oncology Advances, 2022, 4, vdac003.	0.7	2
93	Intensity-Corrected Dual-Echo Echo-Planar Imaging (DE-EPI) for Improved Pediatric Brain Diffusion Imaging. PLoS ONE, 2015, 10, e0129325.	2.5	1
94	RADI-03. ASL PERFUSION IMAGING OF THE FRONTAL LOBES PREDICTS THE OCCURRENCE AND RESOLUTION OF POSTERIOR FOSSA SYNDROME. Neuro-Oncology, 2018, 20, i170-i170.	1.2	1
95	Altered cerebral perfusion in children with Langerhans cell histiocytosis after chemotherapy. Pediatric Blood and Cancer, 2020, 67, e28104.	1.5	1
96	Variable Refocusing Flip Angle Single-Shot Imaging for Sedation-Free Fast Brain MRI. American Journal of Neuroradiology, 2020, 41, 1256-1262.	2.4	1
97	Age-dependent Intracranial Artery Morphology in Healthy Children. Clinical Neuroradiology, 2022, 32, 49-56.	1.9	1
98	Successful Treatment with Temozolomide Combined with Chemoradiotherapy and Surgery of a Metastatic Undifferentiated Soft Tissue Sarcoma with Relapse in the Central Nervous System of a Young Adult. Journal of Adolescent and Young Adult Oncology, 2014, 3, 100-103.	1.3	0
99	IMG-03. RESPONSE ASSESSMENT IN PEDIATRIC LOW-GRADE GLIOMA: RECOMMENDATIONS FROM THE RESPONSE ASSESSMENT IN PEDIATRIC NEURO-ONCOLOGY (RAPNO) WORKING GROUP. Neuro-Oncology, 2020, 22, iii355-iii355.	1.2	0
100	IMG-02. Improved prediction of postoperative paediatric cerebellar mutism syndrome using an artificial neural network. Neuro-Oncology, 2022, 24, i76-i77.	1.2	0