Darryl H Hwang

List of Publications by Year
in descending order

54 papers	1,600 citations	331670 21 h-index	315739 38 g-index
54 all docs	54 docs citations	54 times ranked	2890 citing authors

#	Article	IF	Citations
1	Personalized 3D printed model of kidney and tumor anatomy: a useful tool for patient education. World Journal of Urology, 2016, 34, 337-345.	2.2	258
2	Texture Analysis of Imaging: What Radiologists Need to Know. American Journal of Roentgenology, 2019, 212, 520-528.	2.2	157
3	Clinical Applications of Diffusion Tensor Imaging. World Neurosurgery, 2014, 82, 96-109.	1.3	102
4	Low-tech solutions for the COVID-19 supply chain crisis. Nature Reviews Materials, 2020, 5, 403-406.	48.7	89
5	Novel diffusion tensor imaging methodology to detect and quantify injured regions and affected brain pathways in traumatic brain injury. Magnetic Resonance Imaging, 2010, 28, 22-40.	1.8	84
6	Objective risk stratification of prostate cancer using machine learning and radiomics applied to multiparametric magnetic resonance images. Scientific Reports, 2019, 9, 1570.	3.3	60
7	The <scp>ENIGMA</scp> Stroke Recovery Working Group: Big data neuroimaging to study brainâ€"behavior relationships after stroke. Human Brain Mapping, 2022, 43, 129-148.	3.6	54
8	Cortical Activation Associated with Muscle Synergies of the Human Male Pelvic Floor. Journal of Neuroscience, 2014, 34, 13811-13818.	3.6	52
9	Reliability of CTâ€"based texture features: Phantom study. Journal of Applied Clinical Medical Physics, 2019, 20, 155-163.	1.9	51
10	Differentiation of Predominantly Solid Enhancing Lipid-Poor Renal Cell Masses by Use of Contrast-Enhanced CT: Evaluating the Role of Texture in Tumor Subtyping. American Journal of Roentgenology, 2018, 211, W288-W296.	2.2	45
11	Shape and texture-based radiomics signature on CT effectively discriminates benign from malignant renal masses. European Radiology, 2021, 31, 1011-1021.	4.5	40
12	Neuroimaging Changes in the Brain in Contact versus Noncontact Sport Athletes Using Diffusion Tensor Imaging. World Neurosurgery, 2013, 80, 824-828.	1.3	39
13	Quantitative assessment of solid renal masses by contrast-enhanced ultrasound with timeâ€"intensity curves: how we do it. Abdominal Imaging, 2015, 40, 2461-2471.	2.0	38
14	Predicting Meningioma Consistency on Preoperative Neuroimaging Studies. Neurosurgery Clinics of North America, 2016, 27, 145-154.	1.7	37
15	CT-based radiomics stratification of tumor grade and TNM stage of clear cell renal cell carcinoma. European Radiology, 2022, 32, 2552-2563.	4.5	36
16	Accuracy of Contrast-Enhanced Ultrasound Compared With Magnetic Resonance Imaging in Assessing the Tumor Response After Neoadjuvant Chemotherapy for Breast Cancer. Journal of Ultrasound in Medicine, 2017, 36, 901-911.	1.7	35
17	CT prediction of the Fuhrman grade of clear cell renal cell carcinoma (RCC): towards the development of computer-assisted diagnostic method. Abdominal Imaging, 2015, 40, 3168-3174.	2.0	33
18	Improved Glioma Grading Using Deep Convolutional Neural Networks. American Journal of Neuroradiology, 2021, 42, 233-239.	2.4	29

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19	Computed tomography-based texture analysis of bladder cancer: differentiating urothelial carcinoma from micropapillary carcinoma. Abdominal Radiology, 2019, 44, 201-208.	2.1	26
20	Quantitative Contour Analysis as an Image-based Discriminator Between Benign and Malignant Renal Tumors. Urology, 2018, 114, 121-127.	1.0	23
21	Deep learning based classification of solid lipid-poor contrast enhancing renal masses using contrast enhanced CT. British Journal of Radiology, 2020, 93, 20200002.	2.2	23
22	Whole lesion quantitative CT evaluation of renal cell carcinoma: differentiation of clear cell from papillary renal cell carcinoma. SpringerPlus, 2015, 4, 66.	1.2	22
23	Voxel-based whole-lesion enhancement parameters: a study of its clinical value in differentiating clear cell renal cell carcinoma from renal oncocytoma. Abdominal Radiology, 2017, 42, 552-560.	2.1	21
24	Brain Segmentation From Computed Tomography of Healthy Aging and Geriatric Concussion at Variable Spatial Resolutions. Frontiers in Neuroinformatics, 2019, 13, 9.	2.5	20
25	Identification of robust and reproducible CT‐texture metrics using a customized 3D‐printed texture phantom. Journal of Applied Clinical Medical Physics, 2021, 22, 98-107.	1.9	19
26	Whole-tumor 3D volumetric MRI-based radiomics approach for distinguishing between benign and malignant soft tissue tumors. European Radiology, 2021, 31, 8522-8535.	4.5	19
27	Co‐registration of in vivo human MRI brain images to postmortem histological microscopic images. International Journal of Imaging Systems and Technology, 2008, 18, 325-335.	4.1	17
28	A Radiomic-based Machine Learning Algorithm to Reliably Differentiate Benign Renal Masses from Renal Cell Carcinoma. European Urology Focus, 2022, 8, 988-994.	3.1	15
29	Image Coregistration: Quantitative Processing Framework for the Assessment of Brain Lesions. Journal of Digital Imaging, 2014, 27, 369-379.	2.9	13
30	Strategies for Disseminating Information on Biomedical Research on Autism to Hispanic Parents. Journal of Autism and Developmental Disorders, 2016, 46, 1038-1050.	2.7	13
31	Quantitative magnetic resonance imaging (q-MRI) for the assessment of soft-tissue sarcoma treatment response: a narrative case review of technique development. Clinical Imaging, 2020, 63, 83-93.	1.5	13
32	Differentiating solid, non-macroscopic fat containing, enhancing renal masses using fast Fourier transform analysis of multiphase CT. British Journal of Radiology, 2018, 91, 20170789.	2.2	11
33	Juxtatumoral perinephric fat analysis in clear cell renal cell carcinoma. Abdominal Radiology, 2019, 44, 1470-1480.	2.1	11
34	Benchmarking Various Radiomic Toolkit Features While Applying the Image Biomarker Standardization Initiative toward Clinical Translation of Radiomic Analysis. Journal of Digital Imaging, 2021, 34, 1156-1170.	2.9	11
35	Contrast‐Enhanced Sonography for Monitoring Neoadjuvant Chemotherapy in Soft Tissue Sarcomas. Journal of Ultrasound in Medicine, 2015, 34, 1489-1499.	1.7	9
36	Perioperative Outcome of Suprarenal Resection of Vena Cava Without Reconstruction in Urologic Malignancies: A Case Series and Review of the Literature. Urology, 2020, 142, 146-154.	1.0	9

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37	Brain cortical structural differences between non-central nervous system cancer patients treated with and without chemotherapy compared to non-cancer controls: a cross-sectional pilot MRI study using clinically indicated scans. , 2017, 10572, .		9
38	Radiomics and Bladder Cancer: Current Status. Bladder Cancer, 2020, 6, 343-362.	0.4	8
39	PNPLA3 Genotype, Arachidonic Acid Intake, and Unsaturated Fat Intake Influences Liver Fibrosis in Hispanic Youth with Obesity. Nutrients, 2021, 13, 1621.	4.1	8
40	Early Adiposity Rebound Predicts Obesity and Adiposity in Youth with Congenital Adrenal Hyperplasia. Hormone Research in Paediatrics, 2020, 93, 609-615.	1.8	8
41	Smaller spared subcortical nuclei are associated with worse post-stroke sensorimotor outcomes in 28 cohorts worldwide. Brain Communications, 2021, 3, fcab254.	3.3	7
42	Objective risk stratification of prostate cancer using machine learning and radiomics applied to multiparametric magnetic resonance images. , 2020, , .		5
43	Frame to Improve the Fit of N95 Filtering Face Mask Respirators. Journal of Occupational and Environmental Medicine, 2021, 63, e362-e366.	1.7	4
44	Statistical Analysis of Relative Pose of the Thalamus in Preterm Neonates. Lecture Notes in Computer Science, 2014, 8361, 1-9.	1.3	4
45	5-Aminolevulinic acid–enhanced fluorescence-guided treatment of high-grade glioma using angled endoscopic blue light visualization: technical case series with preliminary follow-up. Journal of Neurosurgery, 2022, 137, 1378-1386.	1.6	4
46	Liver Fat Reduction After Gastric Banding and Associations with Changes in Insulin Sensitivity and β‐Cell Function. Obesity, 2021, 29, 1155-1163.	3.0	2
47	3D pre- versus post-season comparisons of surface and relative pose of the corpus callosum in contact sport athletes. Proceedings of SPIE, 2014, , .	0.8	1
48	Multidimensional Interactive Radiology Report and Analysis: standardization of workflow and reporting for renal mass tracking and quantification. , 2015, 9681, .		1
49	EdgeRunner: a novel shape-based pipeline for tumours analysis and characterisation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 84-92.	1.9	1
50	Physicochemical Investigation into Major League Baseballs in the Era of Unprecedented Rise in Home Runs. ACS Omega, 2019, 4, 20109-20117.	3.5	1
51	Evaluation of Knee Cartilage Diurnal, Activity, and BMI-Related Variations Using Quantitative T2 Mapping MRI and Fitbit Activity Tracking. Journal of Knee Surgery, 2021, 34, 251-257.	1.6	1
52	Weight Loss During Topiramate Treatment in a Severely Obese Adolescent with Congenital Adrenal Hyperplasia and Migraine. JCRPE Journal of Clinical Research in Pediatric Endocrinology, 2023, 15, 81-85.	0.9	1
53	An 82-year-old female with chest pain radiating to the back and flank. Urology Case Reports, 2020, 32, 101220.	0.3	1
54	Coincident intrasellar persistent trigeminal artery and craniopharyngioma: case report and implications for transsphenoidal surgery. Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2014, 1, 91-93.	0.3	0