

Karen Buch

List of Publications by Year in descending order

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82
papers

1,330
citations

430442

18
h-index

414034

32
g-index

83
all docs

83
docs citations

83
times ranked

2117
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Texture Analysis to Determine Human Papillomavirus Status of Oropharyngeal Squamous Cell Carcinomas on CT. American Journal of Neuroradiology, 2015, 36, 1343-1348.	1.2	122
2	Using texture analyses of contrast enhanced CT to assess hepatic fibrosis. European Journal of Radiology, 2016, 85, 511-517.	1.2	89
3	Difference Between HPV-Positive and HPV-Negative Non-Oropharyngeal Head and Neck Cancer. Journal of Computer Assisted Tomography, 2016, 40, 43-47.	0.5	88
4	Quantitative variations in texture analysis features dependent on <scp>MRI</scp> scanning parameters: A phantom model. Journal of Applied Clinical Medical Physics, 2018, 19, 253-264.	0.8	60
5	Quantifying liver fibrosis through the application of texture analysis to diffusion weighted imaging. Magnetic Resonance Imaging, 2014, 32, 84-90.	1.0	59
6	Leukoencephalopathy Associated with Severe COVID-19 Infection: Sequela of Hypoxemia?. American Journal of Neuroradiology, 2020, 41, 1641-1645.	1.2	52
7	Quantitative Assessment of Variation in CT Parameters on Texture Features: Pilot Study Using a Nonanatomic Phantom. American Journal of Neuroradiology, 2017, 38, 981-985.	1.2	46
8	Paraspinal Myositis in Patients with COVID-19 Infection. American Journal of Neuroradiology, 2020, 41, 1949-1952.	1.2	45
9	Global and Regional Brain Assessment with Quantitative MR Imaging in Patients with Prior Exposure to Linear Gadolinium-based Contrast Agents. Radiology, 2017, 283, 195-204.	3.6	40
10	Visualization of the Peripheral Branches of the Mandibular Division of the Trigeminal Nerve on 3D Double-Echo Steady-State with Water Excitation Sequence. American Journal of Neuroradiology, 2015, 36, 1333-1337.	1.2	39
11	Utility of texture analysis for quantifying hepatic fibrosis on proton density MRI. Journal of Magnetic Resonance Imaging, 2015, 42, 1259-1265.	1.9	38
12	Analysis of Stroke Detection during the COVID-19 Pandemic Using Natural Language Processing of Radiology Reports. American Journal of Neuroradiology, 2021, 42, 429-434.	1.2	30
13	Association between cervical spine and skull-base fractures and blunt cerebrovascular injury. European Radiology, 2016, 26, 524-531.	2.3	29
14	Clinical and Neuroimaging Correlation in Patients with COVID-19. American Journal of Neuroradiology, 2020, 41, 1791-1796.	1.2	29
15	Using texture analysis of head CT images to differentiate osteoporosis from normal bone density. European Journal of Radiology, 2019, 116, 212-218.	1.2	26
16	The Value of Imaging Part II: Value beyond Image Interpretation. Academic Radiology, 2016, 23, 23-29.	1.3	22
17	Structural MRI profiles and tau correlates of atrophy in autopsy-confirmed CTE. Alzheimer's Research and Therapy, 2021, 13, 193.	3.0	22
18	Nasopharyngeal Cystic Lesions. Journal of Computer Assisted Tomography, 2014, 38, 9-13.	0.5	21

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19	Balanced Steady-State Free Precession Sequence (CISS/FIESTA/3D Driven Equilibrium Radiofrequency) Tj ETQq1 1 American Journal of Neuroradiology, 2018, 39, 1355-1361.	0.784314 1.2	14 20
20	Evaluating the accuracy of perfusion/metabolism (SPET/PET) ratio in seizure localization. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 579-588.	3.3	18
21	Imaging characteristics of metastatic nodes and outcomes by <scp>HPV</scp> status in head and neck cancers. Laryngoscope, 2016, 126, 392-398.	1.1	18
22	Value of Imaging Part I:. Academic Radiology, 2016, 23, 18-22.	1.3	17
23	Variability in the Cross-Sectional Area and Narrowing of the Internal Jugular Vein in Patients Without Multiple Sclerosis. American Journal of Roentgenology, 2016, 206, 1082-1086.	1.0	16
24	Stereotactic core needle breast biopsy marker migration: An analysis of factors contributing to immediate marker migration. European Radiology, 2017, 27, 4797-4803.	2.3	15
25	Diagnosing acute appendicitis using a nonoral contrast CT protocol in patients with a BMI of less than 25. Emergency Radiology, 2016, 23, 455-462.	1.0	14
26	Macromolecular photoinitiators enhance the hydrophilicity and lubricity of natural rubber. Journal of Applied Polymer Science, 2016, 133, .	1.3	14
27	Emergent spinal MRI in IVDU patients presenting with back pain: do we need an MRI in every case?. Emergency Radiology, 2018, 25, 247-256.	1.0	14
28	Longitudinal MRI findings in patient with <i>SLC25A12</i> pathogenic variants inform disease progression and classification. American Journal of Medical Genetics, Part A, 2019, 179, 2284-2291.	0.7	14
29	Association Between Antemortem FLAIR White Matter Hyperintensities and Neuropathology in Brain Donors Exposed to Repetitive Head Impacts. Neurology, 2022, 98, .	1.5	14
30	The Prevalence of High-Riding Jugular Bulb in Patients with Suspected Endolymphatic Hydrops. Journal of Neurological Surgery, Part B: Skull Base, 2015, 76, 471-474.	0.4	13
31	Clinical associations of incidentally detected parotid gland calcification on <scp>CT</scp>. Laryngoscope, 2015, 125, 1360-1365.	1.1	13
32	Quantitative Analysis of Extracranial Arterial Tortuosity in Patients with Sickle Cell Disease. Journal of Neuroimaging, 2017, 27, 421-427.	1.0	13
33	Noncontrast vestibular schwannoma surveillance imaging including an MR cisternographic sequence: is there a need for postcontrast imaging?. Journal of Neurosurgery, 2019, 131, 549-554.	0.9	13
34	Head and neck injuries from the Boston Marathon bombing at four hospitals. Emergency Radiology, 2015, 22, 527-532.	1.0	12
35	Wellness Program Implementation in an Academic Radiology Department: Determination of Need, Organizational Buy-in, and Outcomes. Journal of the American College of Radiology, 2021, 18, 663-668.	0.9	12
36	Surveillance of Probably Benign (BI-RADS 3) Lesions in Mammography: What Is The Right Follow-Up Protocol?. Breast Journal, 2015, 21, 168-174.	0.4	11

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37	Optimization of Quantitative Dynamic Postgadolinium MRI Technique Using Normalized Ratios for the Evaluation of Temporomandibular Joint Synovitis in Patients with Juvenile Idiopathic Arthritis. American Journal of Neuroradiology, 2017, 38, 2344-2350.	1.2	11
38	Clinical Significance of Trochlear Calcifications in the Orbit. American Journal of Neuroradiology, 2014, 35, 573-577.	1.2	10
39	Using CT texture analysis to differentiate between nasopharyngeal carcinoma and age-matched adenoid controls. European Journal of Radiology, 2018, 108, 208-214.	1.2	10
40	Etiology-Specific Mineralization Patterns in Patients with Labyrinthitis Ossificans. American Journal of Neuroradiology, 2019, 40, 551-557.	1.2	10
41	Risk of Acute Cerebrovascular Events in Patients with COVID-19 Infection. American Journal of Neuroradiology, 2020, 41, E92-E93.	1.2	10
42	Severity of Chest Imaging is Correlated with Risk of Acute Neuroimaging Findings among Patients with COVID-19. American Journal of Neuroradiology, 2021, 42, 831-837.	1.2	10
43	Unifocal versus multifocal mandibular fractures and injury location. Emergency Radiology, 2016, 23, 161-167.	1.0	9
44	Prolapse of Orbital Fat through the Inferior Orbital Fissure: Description, Prevalence, and Assessment of Possible Pathologic Associations. American Journal of Neuroradiology, 2019, 40, 1388-1391.	1.2	9
45	Quantitative Magnetic Resonance Imaging Analysis of the Lacrimal Gland in Sickle Cell Disease. Journal of Computer Assisted Tomography, 2014, 38, 674-680.	0.5	8
46	MR relaxometry for the facial ageing assessment: the preliminary study of the age dependency in the MR relaxometry parameters within the facial soft tissue. Dentomaxillofacial Radiology, 2015, 44, 20150047.	1.3	8
47	MR Imaging Evaluation of Pediatric Neck Masses:. Magnetic Resonance Imaging Clinics of North America, 2019, 27, 173-199.	0.6	8
48	Improved dosimetry in prostate brachytherapy using high resolution contrast enhanced magnetic resonance imaging: a feasibility study. Journal of Contemporary Brachytherapy, 2014, 4, 337-343.	0.4	7
49	Assessment of Relationships Between Implant Insertion Torque and Cortical Shape of the Mandible Using Panoramic Radiography: Preliminary Study. International Journal of Oral and Maxillofacial Implants, 2014, 29, 622-626.	0.6	7
50	Balanced Steady-State Free Precession Techniques Improve Detection of Residual Germ Cell Tumor for Treatment Planning. American Journal of Neuroradiology, 2020, 41, 898-903.	1.2	7
51	CT-based assessment of laryngeal fracture patterns and associated soft tissue abnormality. European Radiology, 2021, 31, 5212-5221.	2.3	7
52	Prevalence of Temporal Bone Fractures in Patients with Mandibular Fractures Using Multidetector-Row CT. Clinical Neuroradiology, 2015, 25, 137-141.	1.0	6
53	Quantitative MR imaging of intra-orbital structures: Tissue-specific measurements and age dependency compared to extra-orbital structures using multispectral quantitative MR imaging. Orbit, 2017, 36, 189-196.	0.5	6
54	Regional differences in temporomandibular joint inflammation in patients with juvenile idiopathic arthritis: a dynamic post-contrast magnetic resonance imaging study. International Journal of Oral and Maxillofacial Surgery, 2020, 49, 1210-1216.	0.7	6

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55	Long-term neuroimaging follow-up of COVID-19-related leukoencephalopathy. <i>Neuroradiology</i> , 2021, 63, 2153-2156.	1.1	6
56	Clinical utility of arterial spin labeling perfusion images in the emergency department for the work-up of stroke-like symptoms. <i>Neuroradiology</i> , 2022, 64, 925-934.	1.1	6
57	Extramedullary duodenal plasmacytoma presenting with gastric outlet obstruction and painless jaundice. <i>Journal of Radiology Case Reports</i> , 2010, 4, 22-8.	0.2	5
58	Case 31-2019: A 45-Year-Old Woman with Headache and Somnolence. <i>New England Journal of Medicine</i> , 2019, 381, 1459-1470.	13.9	5
59	Case 8-2019: A 58-Year-Old Woman with Vision Loss, Headaches, and Oral Ulcers. <i>New England Journal of Medicine</i> , 2019, 380, 1062-1071.	13.9	5
60	Lung apical findings in coronavirus disease (COVID-19) infection on neck and cervical spine CT. <i>Emergency Radiology</i> , 2020, 27, 731-735.	1.0	5
61	Comparison between computed tomography and ultrasound for presurgical evaluation of oral tongue squamous cell carcinoma tumor thickness. <i>American Journal of Otolaryngology - Head and Neck Medicine and Surgery</i> , 2021, 42, 103089.	0.6	5
62	Spinal Vascular Shunts: A Patterned Approach. <i>American Journal of Neuroradiology</i> , 2021, 42, 2110-2118.	1.2	5
63	Clinical Significance of Incidentally Detected Torus Tubarius Calcification. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 828-832.	0.5	4
64	Friction-lowering capabilities and human subject preferences for a hydrophilic surface coating on latex substrates: implications for increasing condom usage. <i>Royal Society Open Science</i> , 2018, 5, 180291.	1.1	4
65	Imaging manifestations of immune-related adverse effects in checkpoint inhibitor therapies: A primer for the radiologist. <i>Clinical Imaging</i> , 2020, 63, 35-49.	0.8	3
66	Case 4-2020: A 52-Year-Old Woman with Seizure Disorder and Wide-Complex Tachycardia. <i>New England Journal of Medicine</i> , 2020, 382, 457-467.	13.9	3
67	Changes in the Jugular Bulb Associated With Sacrifice of the Internal Jugular Vein. <i>Otology and Neurotology</i> , 2015, 36, 146-150.	0.7	3
68	Peering Into Peer Review: <i>AJR</i> Neuroradiology Reviewers Discuss Their Approaches to Assessing a Manuscript. <i>American Journal of Roentgenology</i> , 2020, 214, 45-49.	1.0	2
69	The Global Reading Room: Imaging of Posttraumatic Headache. <i>American Journal of Roentgenology</i> , 2022, 218, 382-383.	1.0	1
70	Editorial Comment: Crucial Role of the Radiologist in the Preoperative Evaluation of Patients Undergoing Facial Feminization Surgery. <i>American Journal of Roentgenology</i> , 2021, 217, 717-717.	1.0	1
71	Magnetization Transfer Imaging in Treatment-resistant Depression: Structural Evidence of a Functional Derangement That Might Help Guide Therapy?. <i>Radiology</i> , 2017, 284, 313-315.	3.6	0
72	Value of additional axial imaging in magnetic resonance imaging of the temporomandibular joint to identify extra-articular diseases. <i>Oral Radiology</i> , 2017, 33, 140-146.	0.9	0

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73	<i>Reply</i> . American Journal of Neuroradiology, 2019, 40, E21-E21.	1.2	0
74	Chest CT Scanning in Suspected Stroke: Not Always Worth the Extra Mile. American Journal of Neuroradiology, 2020, 41, E86-E87.	1.2	0
75	When real life conditions do not follow textbook diagnosis: A diagnostic challenge from a neuropsychiatric clinic. International Journal of Psychiatry in Medicine, 2021, 56, 459-469.	0.8	0
76	Invited Commentary: A Framework for the Differential Diagnosis of Benign and Malignant Intramedullary Tumors. Radiographics, 2020, 40, 1146-1147.	1.4	0
77	Neuropsychiatry, Palliative Care, and Culture. primary care companion for CNS disorders, The, 2021, 23, .	0.2	0
78	Invited Commentary: Differential Diagnosis for Radiopaque Jaw Lesions—An Algorithmic Approach. Radiographics, 2021, 41, 210034.	1.4	0
79	The Prevalence of High-Riding Jugular Bulb in Patients with Endolymphatic Hydrops. Journal of Neurological Surgery, Part B: Skull Base, 2014, 75, .	0.4	0
80	Dementia Unspecified. primary care companion for CNS disorders, The, 2020, 22, .	0.2	0
81	Cases of Neuroinfectious Disease Highlighting Frontotemporal Neurocircuitry in Cognitive and Affective Processing. primary care companion for CNS disorders, The, 2021, 23, .	0.2	0
82	eP175: Recurrent SMAD4 gain-of-function pathogenic variants cause brain and spine abnormalities in 40 patients followed in the MGH Myhre Syndrome Clinic. Genetics in Medicine, 2022, 24, S106-S107.	1.1	0