## Byoung Wook Choi

List of Publications by Year in descending order

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293460 299063 2,280 115 24 42 citations g-index h-index papers 116 116 116 3733 docs citations citing authors all docs times ranked

#	Article	IF	CITATIONS
1	Radiomics Feature Analysis Using Native T1 Mapping for Discriminating Between Cardiac Tumors and Thrombi. Academic Radiology, 2022, 29, S1-S8.	1.3	8
2	Synthetic Extracellular Volume Fraction Derived Using Virtual Unenhanced Attenuation of Blood on Contrast-Enhanced Cardiac Dual-Energy CT in Nonischemic Cardiomyopathy. American Journal of Roentgenology, 2022, 218, 454-461.	1.0	15
3	Evaluation of the Ostium in Anomalous Origin of the Right Coronary Artery with an Interarterial Course Using Dynamic Cardiac CT and Implications of Ostial Findings. Korean Journal of Radiology, 2022, 23, 172.	1.5	4
4	Quality of science and reporting for radiomics in cardiac magnetic resonance imaging studies: a systematic review. European Radiology, 2022, 32, 4361-4373.	2.3	7
5	The image quality and diagnostic accuracy of T1-mapping-based synthetic late gadolinium enhancement imaging: comparison with conventional late gadolinium enhancement imaging in real-life clinical situation. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 28.	1.6	1
6	Relationship between Coronary Artery Calcification and Central Chorioretinal Thickness in Patients with Subclinical Atherosclerosis. Ophthalmologica, 2021, 244, 18-26.	1.0	4
7	Machine learning in cardiovascular radiology: ESCR position statement on design requirements, quality assessment, current applications, opportunities, and challenges. European Radiology, 2021, 31, 3909-3922.	2.3	19
8	Differentiation of left atrial appendage thrombus from circulatory stasis using cardiac CT radiomics in patients with valvular heart disease. European Radiology, 2021, 31, 1130-1139.	2.3	18
9	Reliability of Coronary Artery Calcium Severity Assessment on Non-Electrocardiogram-Gated CT: A Meta-Analysis. Korean Journal of Radiology, 2021, 22, 1034.	1.5	7
10	Performance of Prediction Models for Diagnosing Severe Aortic Stenosis Based on Aortic Valve Calcium on Cardiac Computed Tomography: Incorporation of Radiomics and Machine Learning. Korean Journal of Radiology, 2021, 22, 334.	1.5	13
11	Regional Amyloid Burden Differences Evaluated Using Quantitative Cardiac MRI in Patients with Cardiac Amyloidosis. Korean Journal of Radiology, 2021, 22, 880.	1.5	2
12	Use of Artificial Intelligence-Based Software as Medical Devices for Chest Radiography: A Position Paper from the Korean Society of Thoracic Radiology. Korean Journal of Radiology, 2021, 22, 1743.	1.5	29
13	High-resolution T1 MRI via renally clearable dextran nanoparticles with an iron oxide shell. Nature Biomedical Engineering, 2021, 5, 252-263.	11.6	53
14	Comparison of artery-based methods for ordinal grading of coronary artery calcium on low-dose chest computed tomography. European Radiology, 2021, 31, 8108-8115.	2.3	5
15	Development of a deep learning-based algorithm for the automatic detection and quantification of aortic valve calcium. European Journal of Radiology, 2021, 137, 109582.	1.2	13
16	Serial T1 mapping of right ventricle in pulmonary hypertension: comparison with histology in an animal study. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 64.	1.6	5
17	Ultrahigh-field cardiovascular magnetic resonance T1 and T2 mapping for the assessment of anthracycline-induced cardiotoxicity in rat models: validation against histopathologic changes. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 76.	1.6	10
18	Deep Convolutional Neural Network–based Software Improves Radiologist Detection of Malignant Lung Nodules on Chest Radiographs. Radiology, 2020, 294, 199-209.	3.6	164

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19	Role of Cardiac Computed Tomography for Etiology Evaluation of Newly Diagnosed Heart Failure with Reduced Ejection Fraction. Journal of Clinical Medicine, 2020, 9, 2270.	1.0	9
20	Cardiotoxicity evaluation using magnetic resonance imaging in breast Cancer patients (CareBest): study protocol for a prospective trial. BMC Cardiovascular Disorders, 2020, 20, 264.	0.7	8
21	Utility of CT radiomics for prediction of PD‣1 expression in advanced lung adenocarcinomas. Thoracic Cancer, 2020, 11, 993-1004.	0.8	56
22	Cardiac CT for Measurement of Right Ventricular Volume and Function in Comparison with Cardiac MRI: A Meta-Analysis. Korean Journal of Radiology, 2020, 21, 450.	1.5	19
23	Prognostic Value of Dual-Energy CT-Based Iodine Quantification versus Conventional CT in Acute Pulmonary Embolism: A Propensity-Match Analysis. Korean Journal of Radiology, 2020, 21, 1095.	1.5	9
24	Study Design and Rationale of Cardiac Computed Tomography Angiography and MRI in Patients with Type 2 Diabetes for Detection of Unrecognized Myocardial Scar in Subclinical Coronary Atherosclerosis (ACCREDIT Study). Cardiovascular Imaging Asia, 2020, 4, 45.	0.1	0
25	Benefit of Four-Dimensional Computed Tomography Derived Ejection Fraction of the Left Atrial Appendage to Predict Thromboembolic Risk in the Patients with Valvular Heart Disease. Korean Circulation Journal, 2019, 49, 173.	0.7	5
26	Prognostic value of coronary artery disease-reporting and data system (CAD-RADS) score for cardiovascular events in ischemic stroke. Atherosclerosis, 2019, 287, 1-7.	0.4	17
27	Exploiting the Vulnerability of Deep Learning-Based Artificial Intelligence Models in Medical Imaging: Adversarial Attacks. Journal of the Korean Society of Radiology, 2019, 80, 259.	0.1	23
28	Utility of Cardiac CT for Preoperative Evaluation of Mitral Regurgitation: Morphological Evaluation of Mitral Valve and Prediction of Valve Replacement. Korean Journal of Radiology, 2019, 20, 352.	1.5	6
29	Tricuspid annular diameter and right ventricular volume on preoperative cardiac CT can predict postoperative right ventricular dysfunction in patients who undergo tricuspid valve surgery. International Journal of Cardiology, 2019, 288, 44-50.	0.8	4
30	Diagnostic Value of Advanced ImagingÂModalities for the DetectionÂandÂDifferentiation of Prosthetic ValveÂObstruction. JACC: Cardiovascular Imaging, 2019, 12, 2182-2192.	2.3	17
31	Biases in the Assessment of Left Ventricular Function by Compressed Sensing Cardiovascular Cine MRI. Investigative Magnetic Resonance Imaging, 2019, 23, 114.	0.2	6
32	Value of Computed Tomography Radiomic Features for Differentiation of Periprosthetic Mass in Patients With Suspected Prosthetic Valve Obstruction. Circulation: Cardiovascular Imaging, 2019, 12, e009496.	1.3	21
33	Lung cancer detected on coronary artery calcium scoring computed tomography: factors delaying diagnosis and predictors of survival. Acta Radiologica, 2019, 60, 1118-1126.	0.5	0
34	Predictive factors for treatment response using dual-energy computed tomography in patients with advanced lung adenocarcinoma. European Journal of Radiology, 2018, 101, 118-123.	1.2	17
35	Diagnostic Performance of a Novel Coronary CT Angiography Algorithm: Prospective Multicenter Validation of an Intracycle CT Motion Correction Algorithm for Diagnostic Accuracy. American Journal of Roentgenology, 2018, 210, 1208-1215.	1.0	6
36	Myocardial Extracellular Volume Fraction and Change in Hematocrit Level: MR Evaluation by Using T1 Mapping in an Experimental Model of Anemia. Radiology, 2018, 288, 93-98.	3.6	13

3

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37	Effects of bismuth breast shielding on iodine quantification in dual-energy computed tomography: an experimental phantom study. Acta Radiologica, 2018, 59, 1475-1481.	0.5	2
38	Utility of Dual-Energy CT-based Monochromatic Imaging in the Assessment of Myocardial Delayed Enhancement in Patients with Cardiomyopathy. Radiology, 2018, 287, 442-451.	3.6	37
39	Adverse Prognostic CT Findings for Patients With Advanced Lung Adenocarcinoma Receiving First-Line Epidermal Growth Factor Receptor–Tyrosine Kinase Inhibitor Therapy. American Journal of Roentgenology, 2018, 210, 43-51.	1.0	3
40	Accuracy of computed tomography for selecting the revascularization method based on SYNTAX score II. European Radiology, 2018, 28, 2151-2158.	2.3	6
41	Feasibility of a single-beat prospective ECG-gated cardiac CT for comprehensive evaluation of aortic valve disease using a 256-detector row wide-volume CT scanner: an initial experience. International Journal of Cardiovascular Imaging, 2018, 34, 293-300.	0.7	5
42	Quantitative Analysis of a Whole Cardiac Mass Using Dual-Energy Computed Tomography: Comparison with Conventional Computed Tomography and Magnetic Resonance Imaging. Scientific Reports, 2018, 8, 15334.	1.6	16
43	Clinical Implications of Moderate Coronary Stenosis on Coronary Computed Tomography Angiography in Patients with Stable Angina. Yonsei Medical Journal, 2018, 59, 937.	0.9	4
44	Deep-learned 3D black-blood imaging using automatic labelling technique and 3D convolutional neural networks for detecting metastatic brain tumors. Scientific Reports, 2018, 8, 9450.	1.6	36
45	Altered myocardial characteristics of the preexcited segment in Wolff-Parkinson-White syndrome: A pilot study with cardiac magnetic resonance imaging. PLoS ONE, 2018, 13, e0198218.	1.1	7
46	Effectiveness of automatic tube potential selection with tube current modulation in coronary CT angiography for obese patients: Comparison with a body mass index-based protocol using the propensity score matching method. PLoS ONE, 2018, 13, e0190584.	1.1	6
47	Absolute-Delay Multiphase Reconstruction Reduces Prosthetic Valve–Related and Atrial Fibrillation–Related Artifacts at Cardiac CT. American Journal of Roentgenology, 2017, 208, W160-W167.	1.0	9
48	Contrast-enhanced T1 mapping-based extracellular volume fraction independently predicts clinical outcome in patients with non-ischemic dilated cardiomyopathy: a prospective cohort study. European Radiology, 2017, 27, 3924-3933.	2.3	44
49	Cardiac CT Imaging for Ischemic Stroke: Current and Evolving Clinical Applications. Radiology, 2017, 283, 14-28.	3.6	25
50	Myocardial segmentation based on coronary anatomy using coronary computed tomography angiography: Development and validation in a pig model. European Radiology, 2017, 27, 4044-4053.	2.3	10
51	Reliability of Measurement of Chemical Exchange Saturation Transfer Effects for Lung Lesions. Radiology, 2017, 282, 922-923.	3.6	0
52	Assessment of myocardial delayed enhancement with cardiac computed tomography in cardiomyopathies: a prospective comparison with delayed enhancement cardiac magnetic resonance imaging. International Journal of Cardiovascular Imaging, 2017, 33, 577-584.	0.7	26
53	The clinical significance of perivalvular pannus in prosthetic mitral valves: Can cardiac CT be helpful?. International Journal of Cardiology, 2017, 249, 344-348.	0.8	12
54	A whole-heart motion-correction algorithm: Effects on CT image quality and diagnostic accuracy of mechanical valve prosthesis abnormalities. Journal of Cardiovascular Computed Tomography, 2017, 11, 474-481.	0.7	9

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55	Acute Pulmonary Embolism: Retrospective Cohort Study of the Predictive Value of Perfusion Defect Volume Measured With Dual-Energy CT. American Journal of Roentgenology, 2017, 209, 1015-1022.	1.0	21
56	Early Detection and Serial Monitoring of Anthracycline-Induced Cardiotoxicity Using T1-mapping Cardiac Magnetic Resonance Imaging: An Animal Study. Scientific Reports, 2017, 7, 2663.	1.6	42
57	Coronary Atherosclerosis T1-Weighed Characterization With Integrated Anatomical Reference. JACC: Cardiovascular Imaging, 2017, 10, 637-648.	2.3	43
58	Comparative Effectiveness and Safety of Preoperative Lung Localization for Pulmonary Nodules. Chest, 2017, 151, 316-328.	0.4	211
59	Volume-based quantification using dual-energy computed tomography in the differentiation of thymic epithelial tumours: an initial experience. European Radiology, 2017, 27, 1992-2001.	2.3	25
60	Myocardial T1 and T2 Mapping: Techniques and Clinical Applications. Korean Journal of Radiology, 2017, 18, 113.	1.5	147
61	Technological Improvements in Cardiac Thrombus Diagnosis. Cardiovascular Imaging Asia, 2017, 1, 166.	0.1	4
62	Comparison of Iohexol-380 and Iohexol-350 for Coronary CT Angiography: A Multicenter, Randomized, Double-Blind Phase 3 Trial. Korean Journal of Radiology, 2016, 17, 330.	1.5	5
63	Coronary Computed Tomographic Angiography Does Not Accurately Predict the Need of Coronary Revascularization in Patients with Stable Angina. Yonsei Medical Journal, 2016, 57, 1079.	0.9	2
64	Predictors of False-Negative Results from Percutaneous Transthoracic Fine-Needle Aspiration Biopsy: An Observational Study from a Retrospective Cohort. Yonsei Medical Journal, 2016, 57, 1243.	0.9	7
65	How to Develop, Validate, and Compare Clinical Prediction Models Involving Radiological Parameters: Study Design and Statistical Methods. Korean Journal of Radiology, 2016, 17, 339.	1.5	127
66	Comparison of coronary computed tomography angiography image quality with high- and low-concentration contrast agents (CONCENTRATE): study protocol for a randomized controlled trial. Trials, 2016, 17, 315.	0.7	3
67	Detecting Regional Myocardial Abnormalities in Patients With Wolff-Parkinson-White Syndrome With the Use of ECG-Gated Cardiac MDCT. American Journal of Roentgenology, 2016, 206, 719-725.	1.0	10
68	Reply to letter "Prognostic value of computed tomography based SYNTAX score in coronary artery disease― International Journal of Cardiology, 2016, 203, 1013.	0.8	0
69	Added value of cardiac computed tomography for evaluation of mechanical aortic valve: Emphasis on evaluation of pannus with surgical findings as standard reference. International Journal of Cardiology, 2016, 214, 454-460.	0.8	26
70	Incremental prognostic value of computed tomography in stroke: rationale and design of the IMPACTS study. International Journal of Cardiovascular Imaging, 2016, 32, 83-89.	0.7	1
71	Dual-energy CT-based iodine quantification for differentiating pulmonary artery sarcoma from pulmonary thromboembolism: a pilot study. European Radiology, 2016, 26, 3162-3170.	2.3	31
72	Factors affecting computed tomography image quality for assessment of mechanical aortic valves. International Journal of Cardiovascular Imaging, 2016, 32, 63-71.	0.7	3

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73	Semiquantitative assessment of tibial artery calcification by computed tomography angiography and its ability to predict infrapopliteal angioplasty outcomes. Journal of Vascular Surgery, 2016, 64, 1335-1343.	0.6	33
74	Time, Dose, and Volume Responses in a Mouse Pulmonary Injury Model Following Ablative Irradiation. Lung, 2016, 194, 81-90.	1.4	13
75	Assessment of Mitral Paravalvular Leakage After Mitral Valve Replacement Using Cardiac Computed Tomography. Circulation: Cardiovascular Imaging, 2016, 9, .	1.3	29
76	Myocardial Extracellular Volume Fraction with Dual-Energy Equilibrium Contrast-enhanced Cardiac CT in Nonischemic Cardiomyopathy: A Prospective Comparison with Cardiac MR Imaging. Radiology, 2016, 280, 49-57.	3.6	125
77	Feasibility of Single Scan for Simultaneous Evaluation of Regional Krypton and Iodine Concentrations with Dual-Energy CT: An Experimental Study. Radiology, 2016, 281, 597-605.	3.6	8
78	Myocardial Characterization UsingÂDual-Energy CT in Doxorubicin-Induced DCM. JACC: Cardiovascular Imaging, 2016, 9, 836-845.	2.3	48
79	Prognostic impact of cytological fluid tumor markers in non-small cell lung cancer. Tumor Biology, 2016, 37, 3205-3213.	0.8	3
80	Correlation between EGFR gene mutation, cytologic tumor markers, 18F-FDG uptake in non-small cell lung cancer. BMC Cancer, 2016, 16, 224.	1.1	54
81	Lipiodol lOcalization for Ground-glass opacity mlnimal Surgery: Rationale and design of the LOGIS trial. Contemporary Clinical Trials, 2015, 43, 194-199.	0.8	11
82	Measurement of Opening and Closing Angles of Aortic Valve Prostheses <i>In Vivo</i> Using Dual-Source Computed Tomography: Comparison with Those of Manufacturers' in 10 Different Types. Korean Journal of Radiology, 2015, 16, 1012.	1.5	15
83	Relationship between Myocardial Extracellular Space Expansion Estimated with Post-Contrast T1 Mapping MRI and Left Ventricular Remodeling and Neurohormonal Activation in Patients with Dilated Cardiomyopathy. Korean Journal of Radiology, 2015, 16, 1153.	1.5	9
84	Differential Prognostic Value of Coronary Computed Tomography Angiography in Relation to Exercise Electrocardiography in Asymptomatic Subjects. Journal of Cardiovascular Imaging, 2015, 23, 244.	0.8	4
85	Predictors of Recurrent Stroke in Patients with Ischemic Stroke: Comparison Study between Transesophageal Echocardiography and Cardiac CT. Radiology, 2015, 276, 381-389.	3.6	20
86	Prognostic value of SYNTAX score based on coronary computed tomography angiography. International Journal of Cardiology, 2015, 199, 460-466.	0.8	15
87	Accuracy of CT for Selecting Candidates for Coronary Artery Bypass Graft Surgery: Combination with the SYNTAX Score. Radiology, 2015, 276, 390-399.	3.6	23
88	Native T $1$ Mapping by $3$ -T CMR Imaging Âfor ÂCharacterization of Chronic Myocardial Infarctions. JACC: Cardiovascular Imaging, $2015$ , $8$ , $1019$ - $1030$ .	2.3	75
89	Prognostic value of coronary computed tomography angiography in stroke patients. Atherosclerosis, 2015, 238, 271-277.	0.4	25
90	Respiratory dynamic magnetic resonance imaging for determining aortic invasion of thoracic neoplasms. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 644-650.	0.4	16

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91	Aortic Unfolding Determined Using Non-Contrast Cardiac Computed Tomography: Correlations with Age and Coronary Artery Calcium Score. PLoS ONE, 2014, 9, e95887.	1.1	7
92	Usefulness of Multidetector Row Computed Tomography for Predicting Cardiac Events in Asymptomatic Chronic Kidney Disease Patients at the Initiation of Renal Replacement Therapy. Scientific World Journal, The, 2013, 2013, 1-6.	0.8	5
93	Korean Society of Cardiovascular Imaging Guidelines for Cardiac Computed Tomography. Journal of the Korean Society of Radiology, 2011, 65, 303.	0.1	2
94	Cardiac Computed Tomographic Angiography for Detection of Cardiac Sources of Embolism in Stroke Patients. Stroke, 2009, 40, 2073-2078.	1.0	70
95	Notes From the 2007 Annual Meeting of the Korean Society of Thoracic Radiology. Journal of Thoracic Imaging, 2009, 24, 73-78.	0.8	0
96	MDCT Application for Coronary Artery Intervention. Journal of the Korean Medical Association, 2007, 50, 134.	0.1	0
97	Abstract 1978: Patterns of Late Gadolinium Enhancement are Associated with Ventricular Stiffness in Patients with Advanced Non-Ischemic Dilated Cardiomyopathy. Circulation, 2007, 116, .	1.6	0
98	Pulmonary Arteriovenous Malformations. Journal of the Korean Society of Echocardiography, 2005, 13, 3.	0.0	1
99	Magnetic Resonance Imaging in Thorax. Tuberculosis and Respiratory Diseases, 2004, 56, 571.	0.2	0
100	Patency of cavopulmonary connection studied by single phase electron beam computed tomography. International Journal of Cardiovascular Imaging, 2003, 19, 447-455.	0.2	8
101	Evaluation of the Post-Shunt Status with Electron Beam Computed Tomography in Cyanotic Congenital Heart Disease. Yonsei Medical Journal, 2003, 44, 249.	0.9	7
102	Assessment of Coronary Artery Bypass Graft Patency by Multislice Computed Tomography. Yonsei Medical Journal, 2003, 44, 438.	0.9	17
103	A Case of the Bleomycin-Induced Bronchiolitis Obliterans Organizing Pneumonia. Tuberculosis and Respiratory Diseases, 2003, 55, 311.	0.2	0
104	Characterization of the Pulmonary Circulation According to Hemodynamic Changes by Computed Tomography. Yonsei Medical Journal, 2003, 44, 968.	0.9	2
105	A Case of Mediastinal Pancreatic Pseudocyst. Tuberculosis and Respiratory Diseases, 2002, 52, 271.	0.2	1
106	A Case of Tracheal Bronchus Associated with Bilateral Superior Vena Cava Anomaly. Tuberculosis and Respiratory Diseases, 2002, 53, 337.	0.2	1
107	Coronary Artery Calcium Score using Electron Beam Tomography in the Patients with Acute Obstructive Coronary Arterial Disease: Comparative Study with Asymptomatic High-Risk Group of Atherosclerosis and Chronic Obstructive Coronary Arterial Disease Group. Journal of the Korean Radiological Society, 2001, 44, 453.	0.0	0
108	Prevalence of Antibodies to PPD and Lipoarabinomannan of Mycobacterium tuberculosisamong Patients with an Indication of Fine Needle Aspiration Biopsy. Yonsei Medical Journal, 2001, 42, 324.	0.9	1

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109	Using Electron Beam CT to Evaluate Conotruncal Anomalies in Pediatric and Adult Patients. American Journal of Roentgenology, 2001, 177, 1045-1049.	1.0	17
110	Radiologic findings of Mirizzi syndrome with emphasis on MRI. Yonsei Medical Journal, 2000, 41, 144.	0.9	36
111	Visceral Pleural Invasion And Bronchovascular Bundle Thickening To The Same Lobe In NSCLC: Diagnostic Usefulness And Clinical Significance Using HRCT. Tuberculosis and Respiratory Diseases, 1999, 47, 66.	0.2	0
112	Effect of Angulation between Aorta and Renal Artery on Signal Void of Proximal Renal Artery on MR Angiography:Phantom Study. Journal of the Korean Radiological Society, 1999, 40, 317.	0.0	0
113	Volumetric measurement of the inflamed synovium of rheumatoid wrist joint for the evaluation of synovitis and remission. Journal of the Korean Radiological Society, 1997, 36, 509.	0.0	0
114	Role of Mammography in Evaluating Residual Cancer after Neo-adjuvant Chemotherapy of Locally Advanced Breast Carcinoma: Compared with Clinical Examination. Journal of the Korean Radiological Society, 1997, 36, 1081.	0.0	0
115	Utility of Quantification of Coronary Artery Calcification Using Spiral CT. Journal of the Korean Radiological Society, 1996, 35, 27.	0.0	0