

# Hyosung Cho

## List of Publications by Year in descending order

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45  
papers

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citations

1684188

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h-index

1588992

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docs citations

46  
times ranked

109  
citing authors

#	ARTICLE	IF	CITATIONS
1	A software-based method for eliminating grid artifacts of a crisscrossed grid by mixed-norm and group-sparsity regularization in digital radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1025, 166048.	1.6	1
2	Quantification of dark-field effects in single-shot grid-based x-ray imaging. Journal of Optics (United Kingdom), 2021, 23, 105605.	2.2	3
3	Low-density foreign body detection in food products using single-shot grid-based dark-field X-ray imaging. Journal of Food Engineering, 2022, 335, 111189.	5.2	4
4	An X-ray spectrum estimation method from transmission measurement combined with scatter correction. Physica Medica, 2021, 84, 178-185.	0.7	2
5	Improvement of megavoltage computed tomography image quality for adaptive helical tomotherapy using cycleGAN-based image synthesis with small datasets. Medical Physics, 2021, 48, 5593-5610.	3.0	5
6	Quantification of the effects of grid angulation on image quality in single-grid-based phase-contrast x-ray imaging. Journal of Optics (United Kingdom), 2021, 23, 105605.	2.2	2
7	A Metal Artifact Reduction Method Using a Fully Convolutional Network in the Sinogram and Image Domains for Dental Computed Tomography. Journal of Digital Imaging, 2020, 33, 538-546.	2.9	9
8	Dynamically-Collimated Digital Tomosynthesis Reconstruction by Using a Compressed-Sensing Based Algorithm. Journal of the Korean Physical Society, 2020, 76, 66-72.	0.7	0
9	Four-Dimensional CBCT Reconstruction Based on a Residual Convolutional Neural Network for Improving Image Quality. Journal of the Korean Physical Society, 2019, 75, 73-79.	0.7	1
10	Wide Image Stitching Based on Software Exposure Compensation in Digital Radiography. Journal of the Korean Physical Society, 2019, 74, 1067-1072.	0.7	2
11	Single-Energy Material Decomposition in Radiography Using a Three-Dimensional Laser Scanner. Journal of the Korean Physical Society, 2019, 75, 153-159.	0.7	5
12	Model-Based Noise Reduction in Scatter Correction Using a Deep Convolutional Neural Network for Radiography. Journal of the Korean Physical Society, 2019, 75, 160-166.	0.7	3
13	Feasibility of two-dimensional dose distribution deconvolution using convolution neural networks. Medical Physics, 2019, 46, 5833-5847.	3.0	6
14	Sparse-View Reconstruction in Dental Computed Tomography by Using a Dictionary-Learning Based Method. Journal of the Korean Physical Society, 2019, 74, 57-62.	0.7	0
15	Implementation of the Weighted L1-Norm Scatter Correction Scheme in Dual-Energy Radiography. Journal of the Korean Physical Society, 2019, 74, 414-420.	0.7	3
16	A Normalized Metal Artifact Reduction Method Using an Artifact-Reduced Prior for Dental Computed Tomography. Journal of the Korean Physical Society, 2019, 74, 298-304.	0.7	2
17	Projection-based dual-energy digital tomosynthesis and its image characteristics. Instrumentation Science and Technology, 2019, 47, 248-263.	1.8	3
18	A Compressed-Sensing Based Blind Deconvolution Method for Image Deblurring in Dental Cone-Beam Computed Tomography. Journal of Digital Imaging, 2019, 32, 478-488.	2.9	1

#	ARTICLE	IF	CITATIONS
19	Simulation of Single Grid-based Phase-contrast Digital Tomosynthesis (PC-DTS). Journal of the Korean Physical Society, 2018, 72, 436-443.	0.7	0
20	Feasibility Study for Improving the Image Characteristics in Digital Tomosynthesis (DTS) Using a Compressed-Sensing (Cs)-Based Pre-Deblurring Scheme. Research in Nondestructive Evaluation, 2018, 29, 109-121.	1.1	0
21	A New Voxelization Strategy in Compressed-Sensing (CS)-Based Iterative CT Reconstruction for Reducing Computational Cost: Simulation and Experimental Studies. Journal of Medical and Biological Engineering, 2018, 38, 129-137.	1.8	5
22	Iterative Interior Digital Tomosynthesis Reconstruction Using a Dual-Resolution Voxelation Method. Journal of the Korean Physical Society, 2018, 73, 355-360.	0.7	2
23	Soft-compression Mammography Based on Weighted l1-norm Scatter Correction Scheme for Reducing Patient Pain during Breast Examination. Journal of the Korean Physical Society, 2018, 72, 811-817.	0.7	5
24	Analytic Computed Tomography Reconstruction in Sparse-Angular Sampling Using a Sinogram-Normalization Interpolation Method. Journal of the Korean Physical Society, 2018, 73, 361-367.	0.7	3
25	Industrial x-ray inspection system with improved image characterization using blind deblurring based on compressed-sensing scheme. Instrumentation Science and Technology, 2017, 45, 248-258.	1.8	8
26	Image reconstruction in region-of-interest (or interior) digital tomosynthesis (DTS) based on compressed-sensing (CS). Computer Methods and Programs in Biomedicine, 2017, 151, 151-158.	4.7	2
27	X-Ray grid. Journal of the Korean Physical Society, 2017, 71, 722-726.	0.7	3
28	Mammography image restoration based on a radiographic scattering model from a single projection: Experimental study. Journal of the Korean Physical Society, 2017, 70, 640-646.	0.7	0
29	Numerical Modeling and Experiment for Single Grid-Based Phase-Contrast X-Ray Imaging. Progress in Medical Physics, 2017, 28, 83.	0.3	0
30	Improvement of image characteristics in high-voltage computed tomography (CT) by applying a compressed-sensing (CS)-based image deblurring scheme. NDT and E International, 2016, 84, 11-19.	3.7	5
31	Metal artifact removal (MAR) analysis for the security inspections using the X-ray computed tomography. Radiation Physics and Chemistry, 2016, 127, 42-47.	2.8	4
32	Improvement of image performance in digital breast tomosynthesis (DBT) by incorporating a compressed-sensing (CS)-based deblurring scheme. Radiation Physics and Chemistry, 2016, 127, 147-154.	2.8	1
33	Investigation of reconstruction quality in digital breast tomosynthesis (DBT) based on compressed-sensing algorithm and synthesized 2D breast image. , 2015, , .		0
34	Experimental setup and the system performance for single-grid-based phase-contrast x-ray imaging (PCXI) with a microfocus x-ray tube. Optics Communications, 2015, 348, 85-89.	2.1	10
35	Feasibility study for image reconstruction in circular digital tomosynthesis (CDTS) from limited-scan angle data based on compressed-sensing theory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 777, 161-166.	1.6	12
36	A new voxelation scheme for iterative CBCT reconstruction with less computational cost: Polar voxel design of an isosceles-triangle shape. Journal of the Korean Physical Society, 2014, 65, 1128-1133.	0.7	0

#	ARTICLE	IF	CITATIONS
37	Image reconstruction for digital breast tomosynthesis (DBT) by using projection-angle-dependent filter functions. Journal of the Korean Physical Society, 2014, 65, 763-769.	0.7	0
38	Investigation of proper imaging conditions in the moving grid technique for a reduction of grid line artifacts. Journal of the Korean Physical Society, 2014, 65, 1462-1467.	0.7	0
39	Application of a dual-resolution voxellation scheme to small ROI reconstruction in iterative CBCT for the reduction of computational cost. Journal of the Korean Physical Society, 2014, 65, 1468-1474.	0.7	1
40	Compressed-sensing (CS)-based digital breast tomosynthesis (DBT) reconstruction for low-dose, accurate 3D breast X-ray imaging. Journal of the Korean Physical Society, 2014, 65, 565-571.	0.7	2
41	Dental cone-beam CT reconstruction from limited-angle view data based on compressed-sensing (CS) theory for fast, low-dose X-ray imaging. Journal of the Korean Physical Society, 2014, 64, 1907-1911.	0.7	5
42	Experimental study on the application of a compressed-sensing (CS) algorithm to dental cone-beam CT (CBCT) for accurate, low-dose image reconstruction. Journal of the Korean Physical Society, 2013, 62, 834-838.	0.7	3
43	Volumetric image reconstruction in a dental panoramic imaging system with a limited-angle zigzag scan geometry. Journal of the Korean Physical Society, 2013, 62, 333-338.	0.7	0
44	Study of Radiation Hardness of Silicon Pixel Detectors after Neutron and Proton Irradiations. Journal of Nuclear Science and Technology, 2004, 41, 361-4.	1.3	0
45	Operating characteristics of radiation-hardened silicon pixel detectors for the CMS experiment. IEEE Transactions on Nuclear Science, 2002, 49, 1733-1736.	2.0	0