Seungryong Cho

List of Publications by Year
in descending order

69 papers	817 citations	623734 14 h-index	552781 26 g-index
69 all docs	69 docs citations	69 times ranked	864 citing authors

#	Article	IF	Citations
1	Deep-Neural-Network-Based Sinogram Synthesis for Sparse-View CT Image Reconstruction. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 109-119.	3.7	152
2	Endodontic Treatment of an Anomalous Anterior Tooth with the Aid of a 3-dimensional Printed Physical Tooth Model. Journal of Endodontics, 2015, 41, 961-965.	3.1	63
3	Effects of sparse sampling schemes on image quality in lowâ€dose CT. Medical Physics, 2013, 40, 111915.	3.0	54
4	Regionâ€ofâ€interest image reconstruction with intensity weighting in circular coneâ€beam CT for imageâ€guided radiation therapy. Medical Physics, 2009, 36, 1184-1192.	3.0	34
5	A Feasibility Study of Low-Dose Single-Scan Dual-Energy Cone-Beam CT in Many-View Under-Sampling Framework. IEEE Transactions on Medical Imaging, 2017, 36, 2578-2587.	8.9	31
6	Fluence-map generation for prostate intensity-modulated radiotherapy planning using a deep-neural-network. Scientific Reports, 2019, 9, 15671.	3.3	30
7	Feasibility study on many-view under-sampling technique for low-dose computed tomography. Optical Engineering, 2012, 51, 080501.	1.0	27
8	Convolutional neural network-based approach to estimate bulk optical properties in diffuse optical tomography. Applied Optics, 2020, 59, 1461.	1.8	27
9	Lymphocyte dynamics during and after chemo-radiation correlate to dose and outcome in stage III NSCLC patients undergoing maintenance immunotherapy. Radiotherapy and Oncology, 2022, 168, 1-7.	0.6	25
10	Regionâ€ofâ€interest image reconstruction in circular coneâ€beam microCT. Medical Physics, 2007, 34, 4923-4933.	3.0	24
11	Exact reconstruction of volumetric images in reverse helical cone-beam CT. Medical Physics, 2008, 35, 3030-3040.	3.0	20
12	Development of digital breast tomosynthesis and diffuse optical tomography fusion imaging for breast cancer detection. Scientific Reports, 2020, 10, 13127.	3.3	20
13	Fully iterative scatter corrected digital breast tomosynthesis using GPUâ€based fast Monte Carlo simulation and composition ratio update. Medical Physics, 2015, 42, 5342-5355.	3.0	19
14	A BPFâ€FBP tandem algorithm for image reconstruction in reverse helical coneâ€beam CT. Medical Physics, 2010, 37, 32-39.	3.0	15
15	Analytic image reconstruction from partial data for a singleâ€scan coneâ€beam CT with scatter correction. Medical Physics, 2015, 42, 6625-6640.	3.0	14
16	Moving Beam-Blocker-Based Low-Dose Cone-Beam CT. IEEE Transactions on Nuclear Science, 2016, 63, 2540-2549.	2.0	14
17	Super-sparsely view-sampled cone-beam CT by incorporating prior data. Journal of X-Ray Science and Technology, 2013, 21, 71-83.	1.0	13
18	Reconstruction of implanted marker trajectories from cone-beam CT projection images using interdimensional correlation modeling. Medical Physics, 2016, 43, 4643-4654.	3.0	11

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19	IMAGING DOSE OF HUMAN ORGANS FROM kV-CBCT IN IMAGE-GUIDED RADIATION THERAPY. Radiation Protection Dosimetry, 2017, 175, 194-200.	0.8	11
20	Characterization of on-site digital mammography systems: Direct versus indirect conversion detectors. Journal of the Korean Physical Society, 2015, 66, 1926-1935.	0.7	10
21	Enhancement of soft-tissue contrast in cone-beam CT using an anti-scatter grid with a sparse sampling approach. Physica Medica, 2020, 70, 1-9.	0.7	10
22	Image reconstruction in reduced circular sinusoidal cone-beam CT. Journal of X-Ray Science and Technology, 2009, 17, 189-205.	1.0	9
23	Three-compartment-breast (3CB) prior-guided diffuse optical tomography based on dual-energy digital breast tomosynthesis (DBT). Biomedical Optics Express, 2021, 12, 4837.	2.9	9
24	A dual-energy material decomposition method for high-energy X-ray cargo inspection. Journal of the Korean Physical Society, 2012, 61, 821-824.	0.7	8
25	Sparse-view computed laminography with a spherical sinusoidal scan for nondestructive testing. Optics Express, 2014, 22, 17745.	3.4	8
26	An Image-Based Reduction of Metal Artifacts in Computed Tomography. Journal of Computer Assisted Tomography, 2016, 40, 131-141.	0.9	8
27	A Pilot Study of Chronological Microbiota Changes in a Rat Apical Periodontitis Model. Microorganisms, 2020, 8, 1174.	3.6	8
28	Sampling scheme optimization for diffuse optical tomography based on data and image space rankings. Journal of Biomedical Optics, 2016, 21, 106004.	2.6	7
29	Optimal dose reduction algorithm using an attenuation-based tube current modulation method for cone-beam CT imaging. PLoS ONE, 2018, 13, e0192933.	2.5	7
30	Backprojection Filtration Image Reconstruction Approach for Reducing High-Density Object Artifacts in Digital Breast Tomosynthesis. IEEE Transactions on Medical Imaging, 2019, 38, 1161-1171.	8.9	7
31	An additional tiltedâ€scanâ€based <scp>CT</scp> metalâ€artifactâ€reduction method for radiation therapy planning. Journal of Applied Clinical Medical Physics, 2019, 20, 237-249.	1.9	7
32	A Novel Low-Dose Dual-Energy Imaging Method for a Fast-Rotating Gantry-Type CT Scanner. IEEE Transactions on Medical Imaging, 2021, 40, 1007-1020.	8.9	7
33	Backprojectionâ€filtration reconstruction without invoking a spatially varying weighting factor. Medical Physics, 2010, 37, 1201-1209.	3.0	6
34	Characterization of Screen-Printed Mercuric Iodide Photoconductors for Mammography. IEEE Transactions on Nuclear Science, 2015, 62, 3288-3296.	2.0	6
35	A novel preâ€processing technique for improving image quality in digital breast tomosynthesis. Medical Physics, 2017, 44, 417-425.	3.0	6
36	Selective morphological analysis of cerium metal in electrodeposit recovered from molten LiCl-KCl eutectic by radiography and computed tomography. Scientific Reports, 2019, 9, 1346.	3.3	6

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37	Geometric and dosimetric verification of a recurrent neural network algorithm to compensate for respiratory motion using an articulated robotic couch. Journal of the Korean Physical Society, 2021, 78, 64-72.	0.7	6
38	Data-specific mask-guided image reconstruction for diffuse optical tomography. Applied Optics, 2020, 59, 9328.	1.8	6
39	Dual-energy technique at low tube voltages for small animal imaging. Tsinghua Science and Technology, 2010, 15, 79-86.	6.1	5
40	Sparse-view image reconstruction in prospectively gated micro-CT for fast and low-dose imaging. Journal of the Korean Physical Society, 2012, 60, 1157-1160.	0.7	5
41	Fourier analysis of the imaging characteristics of a CMOS active pixel detector for mammography by using a linearization method. Journal of the Korean Physical Society, 2014, 65, 770-777.	0.7	5
42	Sparseâ€view proton computed tomography using modulated proton beams. Medical Physics, 2015, 42, 1129-1137.	3.0	5
43	Improvement of the Bonding Properties of Mineral Trioxide Aggregate by Elastin-Like Polypeptide Supplementation. Scanning, 2019, 2019, 1-8.	1.5	5
44	Differential X-ray phase-contrast imaging with a grating interferometer using a laboratory X-ray micro-focus tube. Journal of the Korean Physical Society, 2014, 65, 2111-2116.	0.7	4
45	Fast and low-dose computed laminography using compressive sensing based technique. AIP Conference Proceedings, 2015, , .	0.4	4
46	The adaptation method in the Monte Carlo simulation for computed tomography. Nuclear Engineering and Technology, 2015, 47, 472-478.	2.3	4
47	Investigation on Beam-Blocker-Based Scatter Correction Method for Improving CT Number Accuracy. IEEE Transactions on Nuclear Science, 2017, 64, 908-914.	2.0	4
48	Evaluation of delivered dose to a moving target by 4D dose reconstruction in gated volumetric modulated arc therapy. PLoS ONE, 2018, 13, e0202765.	2.5	4
49	A weighted rebinned backprojectionâ€filtration algorithm from partially beamâ€blocked data for a singleâ€scan coneâ€beam CT with hybrid type scatter correction. Medical Physics, 2019, 46, 1182-1197.	3.0	4
50	A synthesizing method for signal-enhanced and artifact-reduced mammogram from digital breast tomosynthesis. Physics in Medicine and Biology, 2020, 65, 215026.	3.0	4
51	Half-Fan-Based Intensity-Weighted Region-of-Interest Imaging for Low-Dose Cone-Beam CT in Image-Guided Radiation Therapy. Healthcare Informatics Research, 2016, 22, 316.	1.9	3
52	Efficient digitalization method for dental restorations using micro-CT data. Scientific Reports, 2017, 7, 44577.	3.3	3
53	Effective noise reduction algorithm for material decomposition in dual-energy X-ray inspection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 968, 163930.	1.6	3
54	Review of the Existing Relative Biological Effectiveness Models for Carbon Ion Beam Therapy. Progress in Medical Physics, 2020, 31, 1-7.	0.3	3

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55	Mathematical Methods and Applications in Medical Imaging. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-2.	1.3	2
56	Deepâ€learningâ€based projectionâ€domain breast thickness estimation for shapeâ€prior iterative image reconstruction in digital breast tomosynthesis. Medical Physics, 2022, , .	3.0	2
57	Improving image quality of a mobile Cone-Beam CT by use of scatter and beam-hardening corrections. , 2013, , .		1
58	A generalized simultaneous algebraic reconstruction technique (GSART) for dual-energy X-ray computed tomography. Journal of X-Ray Science and Technology, 2022, , 1-18.	1.0	1
59	A feasibility study of dual-energy digital breast tomosynthesis for three-compartment-breast imaging. , 2022, , .		1
60	Preliminary investigation of dose allocation in low-dose cone-beam CT. , 2010, , .		0
61	Low dose CT technique using prior image knowledge. , 2011, , .		0
62	Bunched sparse-view CT using a moving multi-slit collimator. , 2012, , .		0
63	Effects of discrete versus continuous prior image in sparse-view CT. , 2012, , .		0
64	An image-based approach for reducing metal artifacts in CT. , 2014, , .		0
65	X-ray inspection system with two flat panel detectors for extra-large object inspection. , 2015, , .		0
66	Test measurements and evaluations of industrial three-dimensional high-penetration tomography. Journal of the Korean Physical Society, 2015, 66, 518-520.	0.7	0
67	Novel methods for metal artifact reduction in x-ray tomography. , 2018, , .		0
68	Clinical implementation of a wide-field electron arc technique with a scatterer for widespread Kaposiâ€™s sarcoma in the distal extremities. Scientific Reports, 2020, 10, 9693.	3.3	0
69	A beam-filter-based low-dose imaging for multi-detector-row helical CT. , 2022, , .		0