# Peter B Noël

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 163 papers | 4,131 citations | 147566<br>31 h-index | 161609<br>54 g-index |
| 177 all docs | 177 docs citations | 177 times ranked | 4371 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Combined inhibition of BET family proteins and histone deacetylases as a potential epigenetics-based therapy for pancreatic ductal adenocarcinoma. Nature Medicine, 2015, 21, 1163-1171. | 15.2 | 349 |
| 2 | The evolution of image reconstruction for CT—from filtered back projection to artificial intelligence. European Radiology, 2019, 29, 2185-2195. | 2.3 | 335 |
| 3 | Initial Performance Characterization of a Clinical Noise–Suppressing Reconstruction Algorithm for MDCT. American Journal of Roentgenology, 2011, 197, 1404-1409. | 1.0 | 138 |
| 4 | Dual-energy CT: a phantom comparison of different platforms for abdominal imaging. European Radiology, 2018, 28, 2745-2755. | 2.3 | 114 |
| 5 | Spectral Photon-counting CT: Initial Experience with Dual–Contrast Agent K-Edge Colonography. Radiology, 2017, 283, 723-728. | 3.6 | 111 |
| 6 | In-vivo X-ray Dark-Field Chest Radiography of a Pig. Scientific Reports, 2017, 7, 4807. | 1.6 | 83 |
| 7 | Dual-layer spectral computed tomography: Virtual non-contrast in comparison to true non-contrast images. European Journal of Radiology, 2018, 104, 108-114. | 1.2 | 83 |
| 8 | Experimental feasibility of spectral photon-counting computed tomography with two contrast agents for the detection of endoleaks following endovascular aortic repair. European Radiology, 2018, 28, 3318-3325. | 2.3 | 79 |
| 9 | X-ray dark-field imaging of the human lung—A feasibility study on a deceased body. PLoS ONE, 2018, 13, e0204565. | 1.1 | 76 |
| 10 | Nanoparticle contrast agents for X-ray imaging applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1642. | 3.3 | 69 |
| 11 | Assessment of quantification accuracy and image quality of a full-body dual-layer spectral <scp>CT</scp> system. Journal of Applied Clinical Medical Physics, 2018, 19, 204-217. | 0.8 | 65 |
| 12 | Spectral photon-counting CT in cardiovascular imaging. Journal of Cardiovascular Computed Tomography, 2021, 15, 218-225. | 0.7 | 65 |
| 13 | GPU-based cone beam computed tomography. Computer Methods and Programs in Biomedicine, 2010, 98, 271-277. | 2.6 | 63 |
| 14 | Joint Statistical Iterative Material Image Reconstruction for Spectral Computed Tomography Using a Semi-Empirical Forward Model. IEEE Transactions on Medical Imaging, 2018, 37, 68-80. | 5.4 | 63 |
| 15 | Does Iterative Reconstruction Lower CT Radiation Dose: Evaluation of 15,000 Examinations. PLoS ONE, 2013, 8, e81141. | 1.1 | 63 |
| 16 | Simultaneous dual-contrast multi-phase liver imaging using spectral photon-counting computed tomography: a proof-of-concept study. European Radiology Experimental, 2017, 1, 25. | 1.7 | 61 |
| 17 | Spectral Photon-Counting Computed Tomography (SPCCT): in-vivo single-acquisition multi-phase liver imaging with a dual contrast agent protocol. Scientific Reports, 2019, 9, 8458. | 1.6 | 56 |
| 18 | Technical background of a novel detector-based approach to dual-energy computed tomography. Diagnostic and Interventional Radiology, 2020, 26, 68-71. | 0.7 | 54 |

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|---|---------|-----|-----------|
| 19 | Accuracy of iodine quantification in dual-layer spectral CT: Influence of iterative reconstruction, patient habitus and tube parameters. European Journal of Radiology, 2018, 102, 83-88. | 1.2 | 53 |
| 20 | Evaluation of a preclinical photon-counting CT prototype for pulmonary imaging. Scientific Reports, 2018, 8, 17386. | 1.6 | 53 |
| 21 | Is multidetector CT-based bone mineral density and quantitative bone microstructure assessment at the spine still feasible using ultra-low tube current and sparse sampling?. European Radiology, 2017, 27, 5261-5271. | 2.3 | 47 |
| 22 | Bone mineral density measurements derived from dual-layer spectral CT enable opportunistic screening for osteoporosis. European Radiology, 2019, 29, 6355-6363. | 2.3 | 46 |
| 23 | Synovitis in Patients with Early Inflammatory Arthritis Monitored with Quantitative Analysis of Dynamic Contrast-enhanced Optical Imaging and MR Imaging. Radiology, 2014, 270, 176-185. | 3.6 | 45 |
| 24 | Detection of synovitis in the hands of patients with rheumatologic disorders: Diagnostic performance of optical imaging in comparison with magnetic resonance imaging. Arthritis and Rheumatism, 2012, 64, 2489-2498. | 6.7 | 44 |
| 25 | Statistical iterative reconstruction algorithm for X-ray phase-contrast CT. Scientific Reports, 2015, 5, 10452. | 1.6 | 43 |
| 26 | Ultra Low Dose CT Pulmonary Angiography with Iterative Reconstruction. PLoS ONE, 2016, 11, e0162716. | 1.1 | 42 |
| 27 | Large field-of-view tiled grating structures for X-ray phase-contrast imaging. Review of Scientific Instruments, 2017, 88, 015104. | 0.6 | 38 |
| 28 | Non-invasive Differentiation of Kidney Stone Types using X-ray Dark-Field Radiography. Scientific Reports, 2015, 5, 9527. | 1.6 | 37 |
| 29 | Quantitative imaging using high-energy X-ray phase-contrast CT with a 70 kVp polychromatic X-ray spectrum. Optics Express, 2015, 23, 523. | 1.7 | 35 |
| 30 | Simultaneous wood and metal particle detection on dark-field radiography. European Radiology Experimental, 2018, 2, 1. | 1.7 | 35 |
| 31 | Reduction of Metal Artifact in Single Photon-Counting Computed Tomography by Spectral-Driven Iterative Reconstruction Technique. PLoS ONE, 2015, 10, e0124831. | 1.1 | 33 |
| 32 | Object Specific Trajectory Optimization for Industrial X-ray Computed Tomography. Scientific Reports, 2016, 6, 19135. | 1.6 | 32 |
| 33 | Bone mineral density measurements in vertebral specimens and phantoms using dual-layer spectral computed tomography. Scientific Reports, 2017, 7, 17519. | 1.6 | 32 |
| 34 | Evaluation of MR-derived CT-like images and simulated radiographs compared to conventional radiography in patients with benign and malignant bone tumors. European Radiology, 2019, 29, 13-21. | 2.3 | 32 |
| 35 | Imaging Liver Lesions Using Grating-Based Phase-Contrast Computed Tomography with Bi-Lateral Filter Post-Processing. PLoS ONE, 2014, 9, e83369. | 1.1 | 31 |
| 36 | Automatic detection of osteoporotic vertebral fractures in routine thoracic and abdominal MDCT. European Radiology, 2014, 24, 872-880. | 2.3 | 31 |

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|---|---------|----|-----------|
| 37 | In-Vivo Assessment of Femoral Bone Strength Using Finite Element Analysis (FEA) Based on Routine MDCT Imaging: A Preliminary Study on Patients with Vertebral Fractures. PLoS ONE, 2015, 10, e0116907. | 1.1 | 31 |
| 38 | Depiction of pneumothoraces in a large animal model using x-ray dark-field radiography. Scientific Reports, 2018, 8, 2602. | 1.6 | 31 |
| 39 | Grating-based phase-contrast and dark-field computed tomography: a single-shot method. Scientific Reports, 2017, 7, 7476. | 1.6 | 30 |
| 40 | Direct quantitative material decomposition employing grating-based X-ray phase-contrast CT. Scientific Reports, 2018, 8, 16394. | 1.6 | 30 |
| 41 | Correlation of X-Ray Vector Radiography to Bone Micro-Architecture. Scientific Reports, 2014, 4, 3695. | 1.6 | 29 |
| 42 | Penalized maximum likelihood reconstruction for x-ray differential phase-contrast tomography. Medical Physics, 2015, 43, 188-194. | 1.6 | 28 |
| 43 | Accuracy of Calcium Scoring calculated from contrast-enhanced Coronary Computed Tomography Angiography using a dual-layer spectral CT: A comparison of Calcium Scoring from real and virtual non-contrast data. PLoS ONE, 2018, 13, e0208588. | 1.1 | 28 |
| 44 | Trabecular bone anisotropy imaging with a compact laser-undulator synchrotron x-ray source. Scientific Reports, 2017, 7, 14477. | 1.6 | 26 |
| 45 | Differentiation between blood and iodine in a bovine brain—Initial experience with Spectral Photon-Counting Computed Tomography (SPCCT). PLoS ONE, 2019, 14, e0212679. | 1.1 | 26 |
| 46 | Validation of a Low Dose Simulation Technique for Computed Tomography Images. PLoS ONE, 2014, 9, e107843. | 1.1 | 25 |
| 47 | Phase-Contrast Hounsfield Units of Fixated and Non-Fixated Soft-Tissue Samples. PLoS ONE, 2015, 10, e0137016. | 1.1 | 25 |
| 48 | Generalized ComBat harmonization methods for radiomic features with multi-modal distributions and multiple batch effects. Scientific Reports, 2022, 12, 4493. | 1.6 | 25 |
| 49 | Three‐dimensional printing of patient‐specific lung phantoms for CT imaging: Emulating lung tissue with accurate attenuation profiles and textures. Medical Physics, 2022, 49, 825-835. | 1.6 | 25 |
| 50 | Coherent Superposition in Grating-Based Directional Dark-Field Imaging. PLoS ONE, 2013, 8, e61268. | 1.1 | 24 |
| 51 | EVALUATION OF DOSE REDUCTION POTENTIALS OF A NOVEL SCATTER CORRECTION SOFTWARE FOR BEDSIDE CHEST X-RAY IMAGING. Radiation Protection Dosimetry, 2016, 169, 60-67. | 0.4 | 24 |
| 52 | Multidetector Computed Tomography Imaging. Journal of Computer Assisted Tomography, 2018, 42, 441-447. | 0.5 | 24 |
| 53 | Analysis and correction of bias induced by phase stepping jitter in grating-based X-ray phase-contrast imaging. Optics Express, 2018, 26, 12707. | 1.7 | 23 |
| 54 | Liquid Embolic Agents in Spectral X-Ray Photon-Counting Computed Tomography using Tantalum K-Edge Imaging. Scientific Reports, 2019, 9, 5268. | 1.6 | 23 |

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|---|---------|----|-----------|
| 55 | Imaging of Hsp70-positive tumors with cmHsp70.1 antibody-conjugated gold nanoparticles. International Journal of Nanomedicine, 2015, 10, 5687. | 3.3 | 22 |
| 56 | Filtered region of interest cone–beam rotational angiography. Medical Physics, 2010, 37, 694-703. | 1.6 | 21 |
| 57 | Cardioprotective C-kit+ Bone Marrow Cells Attenuate Apoptosis after Acute Myocardial Infarction in Mice - In-vivo Assessment with Fluorescence Molecular Imaging. Theranostics, 2013, 3, 903-913. | 4.6 | 21 |
| 58 | Dual-layer spectral computed tomography: measuring relative electron density. European Radiology Experimental, 2018, 2, 20. | 1.7 | 21 |
| 59 | Three-material decomposition with dual-layer spectral CT compared to MRI for the detection of bone marrow edema in patients with acute vertebral fractures. Skeletal Radiology, 2018, 47, 1533-1540. | 1.2 | 21 |
| 60 | Imaging features in post-mortem x-ray dark-field chest radiographs and correlation with conventional x-ray and CT. European Radiology Experimental, 2019, 3, 25. | 1.7 | 21 |
| 61 | Multi-detector CT imaging: impact of virtual tube current reduction and sparse sampling on detection of vertebral fractures. European Radiology, 2019, 29, 3606-3616. | 2.3 | 21 |
| 62 | Evaluation of guidewire path reproducibility. Medical Physics, 2008, 35, 1884-1892. | 1.6 | 20 |
| 63 | Effects of dose reduction on bone strength prediction using finite element analysis. Scientific Reports, 2016, 6, 38441. | 1.6 | 20 |
| 64 | Radioprotective Garment-Inspired Biodegradable Polymetal Nanoparticles for Enhanced CT Contrast Production. Chemistry of Materials, 2020, 32, 381-391. | 3.2 | 20 |
| 65 | First-generation clinical dual-source photon-counting CT: ultra-low-dose quantitative spectral imaging. European Radiology, 2022, 32, 8579-8587. | 2.3 | 20 |
| 66 | CT pulmonary angiography: dose reduction via a next generation iterative reconstruction algorithm. Acta Radiologica, 2019, 60, 478-487. | 0.5 | 19 |
| 67 | Joint learning of ultrasonic backscattering statistical physics and signal confidence primal for characterizing atherosclerotic plaques using intravascular ultrasound. Medical Image Analysis, 2014, 18, 103-117. | 7.0 | 18 |
| 68 | Improved detection rates and treatment planning of head and neck cancer using dual-layer spectral CT. European Radiology, 2018, 28, 4925-4931. | 2.3 | 18 |
| 69 | Dual layer computed tomography: Reduction of metal artefacts from posterior spinal fusion using virtual monoenergetic imaging. European Journal of Radiology, 2018, 105, 195-203. | 1.2 | 18 |
| 70 | DXA-equivalent quantification of bone mineral density using dual-layer spectral CT scout scans. European Radiology, 2019, 29, 4624-4634. | 2.3 | 18 |
| 71 | Dynamic CT Perfusion Imaging of the Myocardium: A Technical Note on Improvement of Image Quality. PLoS ONE, 2013, 8, e75263. | 1.1 | 18 |
| 72 | Evaluation of an iterative model–based reconstruction algorithm for low-tube-voltage (80 kVp) computed tomography angiography. Journal of Medical Imaging, 2014, 1, 033501. | 0.8 | 17 |

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|---|---------|----|-----------| 
| 73 | <scp>CNN</scp> as model observer in a liver lesion detection task for x‑ray computed tomography: A phantom study. Medical Physics, 2018, 45, 4439-4447. | 1.6 | 17 |
| 74 | Quantitative Three-Dimensional Imaging of Lipid, Protein, and Water Contents via X-Ray Phase-Contrast Tomography. PLoS ONE, 2016, 11, e0151889. | 1.1 | 17 |
| 75 | Evaluation of an iterative model-based CT reconstruction algorithm by intra-patient comparison of standard and ultra-low-dose examinations. Acta Radiologica, 2018, 59, 1225-1231. | 0.5 | 16 |
| 76 | Spectral Angiography Material Decomposition Using an Empirical Forward Model and a Dictionary-Based Regularization. IEEE Transactions on Medical Imaging, 2018, 37, 2298-2309. | 5.4 | 16 |
| 77 | Acute infarction after mechanical thrombectomy is better delineable in virtual non-contrast compared to conventional images using a dual-layer spectral CT. Scientific Reports, 2018, 8, 9329. | 1.6 | 16 |
| 78 | MRI-derived porosity index is associated with whole-bone stiffness and mineral density in human cadaveric femora. Bone, 2021, 143, 115774. | 1.4 | 16 |
| 79 | Planning image-guided endovascular interventions: guidewire simulation using shortest path algorithms. , 2007, , . | | 15 |
| 80 | Simulated Cystic Renal Lesions: Quantitative X-ray Phase-Contrast CT—An in Vitro Phantom Study. Radiology, 2014, 272, 739-748. | 3.6 | 15 |
| 81 | Quantitative dual-energy micro-CT with a photon-counting detector for material science and non-destructive testing. PLoS ONE, 2019, 14, e0219659. | 1.1 | 15 |
| 82 | Liver lesion localisation and classification with convolutional neural networks: a comparison between conventional and spectral computed tomography. Biomedical Physics and Engineering Express, 2020, 6, 015038. | 0.6 | 15 |
| 83 | Opportunistic osteoporosis screening: contrast-enhanced dual-layer spectral CT provides accurate measurements of vertebral bone mineral density. European Radiology, 2021, 31, 3147-3155. | 2.3 | 15 |
| 84 | Coronary CT angiography in step-and-shoot technique with 256-slice CT: Impact of the field of view on image quality, craniocaudal coverage, and radiation exposure. European Journal of Radiology, 2012, 81, 1562-1568. | 1.2 | 14 |
| 85 | Real-time endovascular guidewire position simulation using shortest path algorithms. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 597-608. | 1.7 | 13 |
| 86 | Evaluation of the potential of phase-contrast computed tomography for improved visualization of cancerous human liver tissue. Zeitschrift Fur Medizinische Physik, 2013, 23, 204-211. | 0.6 | 13 |
| 87 | X-ray Dark-Field Vector Radiography—A Novel Technique for Osteoporosis Imaging. Journal of Computer Assisted Tomography, 2015, 39, 286-289. | 0.5 | 13 |
| 88 | X‑ray computed tomography using curvelet sparse regularization. Medical Physics, 2015, 42, 1555-1565. | 1.6 | 13 |
| 89 | Combining radiomic phenotypes of non-small cell lung cancer with liquid biopsy data may improve prediction of response to EGFR inhibitors. Scientific Reports, 2021, 11, 9984. | 1.6 | 13 |
| 90 | A versatile tomographic forward- and back-projection approach on multi-GPUs. , 2014, , . | | 12 |

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|---|---------|-----|-----------|
| 91 | Nonlinear statistical iterative reconstruction for propagation-based phase-contrast tomography. APL Bioengineering, 2018, 2, 016105. | 3.3 | 12 |
| 92 | Hunting for necrosis in the shadows of intravascular ultrasound. Computerized Medical Imaging and Graphics, 2014, 38, 104-112. | 3.5 | 11 |
| 93 | A post-processing algorithm for spectral CT material selective images using learned dictionaries. Biomedical Physics and Engineering Express, 2017, 3, 025009. | 0.6 | 11 |
| 94 | MDCT-based Finite Element Analysis of Vertebral Fracture Risk: What Dose is Needed?. Clinical Neuroradiology, 2019, 29, 645-651. | 1.0 | 11 |
| 95 | Low-dose and sparse sampling MDCT-based femoral bone strength prediction using finite element analysis. Archives of Osteoporosis, 2020, 15, 17. | 1.0 | 11 |
| 96 | Predicting Vertebral Bone Strength Using Finite Element Analysis for Opportunistic Osteoporosis Screening in Routine Multidetector Computed Tomography Scans—A Feasibility Study. Frontiers in Endocrinology, 2020, 11, 526332. | 1.5 | 11 |
| 97 | Prediction of Vertebral Failure Load by Using X-Ray Vector Radiographic Imaging. Radiology, 2015, 275, 553-561. | 3.6 | 10 |
| 98 | X-ray deconvolution microscopy. Biomedical Optics Express, 2016, 7, 1227. | 1.5 | 10 |
| 99 | Spectral Computed Tomography Angiography With a Gadolinium-based Contrast Agent. Journal of Thoracic Imaging, 2018, 33, 246-253. | 0.8 | 10 |
| 100 | CTPA with a conventional CT at 100 kVp vs. a spectral-detector CT at 120 kVp: Comparison of radiation exposure, diagnostic performance and image quality. European Journal of Radiology Open, 2020, 7, 100234. | 0.7 | 10 |
| 101 | In-vivo X-ray dark-field computed tomography for the detection of radiation-induced lung damage in mice. Physics and Imaging in Radiation Oncology, 2021, 20, 11-16. | 1.2 | 10 |
| 102 | Optimizing radiation exposure for CT localizer radiographs. Zeitschrift Fur Medizinische Physik, 2017, 27, 145-158. | 0.6 | 9 |
| 103 | Effect of radiation dose reduction on texture measures of trabecular bone microstructure: an in vitro study. Journal of Bone and Mineral Metabolism, 2018, 36, 323-335. | 1.3 | 9 |
| 104 | 3D grating-based X-ray phase-contrast computed tomography for high-resolution quantitative assessment of cartilage: An experimental feasibility study with 3T MRI, 7T MRI and biomechanical correlation. PLoS ONE, 2019, 14, e0212106. | 1.1 | 9 |
| 105 | Assessment of femoral neck bone metabolism using 18F-sodium fluoride PET/CT imaging. Bone, 2020, 136, 115351. | 1.4 | 9 |
| 106 | Dosimetry on first clinical dark-field chest radiography. Medical Physics, 2021, 48, 6152-6159. | 1.6 | 9 |
| 107 | Wound ballistic evaluation of the TASER® XREP ammunition. International Journal of Legal Medicine, 2013, 127, 119-126. | 1.2 | 8 |
| 108 | Effect of Low-Dose MDCT and Iterative Reconstruction on Trabecular Bone Microstructure Assessment. PLoS ONE, 2016, 11, e0159903. | 1.1 | 8 |

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|---|---------|----|-----------|
| 109 | Advanced Non-Destructive Ocular Visualization Methods by Improved X-Ray Imaging Techniques. PLoS ONE, 2017, 12, e0170633. | 1.1 | 8 |
| 110 | Perfusion-ventilation CT via three-material differentiation in dual-layer CT: a feasibility study. Scientific Reports, 2019, 9, 5837. | 1.6 | 8 |
| 111 | A comparison of material decomposition techniques for dual-energy CT colonography. Proceedings of SPIE, 2015, 9412, . | 0.8 | 7 |
| 112 | A Monte Carlo software bench for simulation of spectral k-edge CT imaging: Initial results. Physica Medica, 2015, 31, 398-405. | 0.4 | 7 |
| 113 | Dose reduction in abdominal CT: The road to submillisievert imaging. European Radiology, 2018, 28, 2743-2744. | 2.3 | 7 |
| 114 | Finite Element Analysis-Based Vertebral Bone Strength Prediction Using MDCT Data: How Low Can We Go?. Frontiers in Endocrinology, 2020, 11, 442. | 1.5 | 7 |
| 115 | Radiomic Phenotypes for Improving Early Prediction of Survival in Stage III Non-Small Cell Lung Cancer Adenocarcinoma after Chemoradiation. Cancers, 2022, 14, 700. | 1.7 | 7 |
| 116 | PixelPrint: three-dimensional printing of realistic patient-specific lung phantoms for CT imaging. , 2022, , . | | 7 |
| 117 | Optimization of three-dimensional angiographic data obtained by self-calibration of multiview imaging. Medical Physics, 2006, 33, 3901-3911. | 1.6 | 6 |
| 118 | Dictionary-based image denoising for dual energy computed tomography. Proceedings of SPIE, 2016, , . | 0.8 | 6 |
| 119 | Effect of Statistically Iterative Image Reconstruction on Vertebral Bone Strength Prediction Using Bone Mineral Density and Finite Element Modeling. Journal of Computer Assisted Tomography, 2019, 43, 61-65. | 0.5 | 6 |
| 120 | Systematic Evaluation of Low-dose MDCT for Planning Purposes of Lumbosacral Periradicular Infiltrations. Clinical Neuroradiology, 2020, 30, 749-759. | 1.0 | 6 |
| 121 | Grating-based phase-contrast CT (PCCT): histopathological correlation of human liver cirrhosis and hepatocellular carcinoma specimen. Journal of Clinical Pathology, 2020, 73, 483-487. | 1.0 | 6 |
| 122 | Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on the detection of degenerative spine diseases. European Radiology, 2021, 31, 2590-2600. | 2.3 | 6 |
| 123 | Spectral CT quantification stability and accuracy for pediatric patients: A phantom study. Journal of Applied Clinical Medical Physics, 2021, 22, 16-26. | 0.8 | 6 |
| 124 | Potential of dual-layer spectral CT for the differentiation between hemorrhage and iodinated contrast medium in the brain after endovascular treatment of ischemic stroke patients. Clinical Imaging, 2021, 79, 158-164. | 0.8 | 6 |
| 125 | 3D reconstruction of the carotid artery from two views using a single centerline. International Congress Series, 2004, 1268, 177-182. | 0.2 | 5 |
| 126 | Regularized iterative integration combined with non-linear diffusion filtering for phase-contrast x-ray computed tomography. Optics Express, 2014, 22, 32107. | 1.7 | 5 |

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|---|---------|-----|-----------|
| 127 | Metric-guided regularisation parameter selection for statistical iterative reconstruction in computed tomography. Scientific Reports, 2019, 9, 6016. | 1.6 | 5 |
| 128 | Low-Dose MDCT of Patients With Spinal Instrumentation Using Sparse Sampling: Impact on Metal Artifacts. American Journal of Roentgenology, 2021, 216, 1308-1317. | 1.0 | 5 |
| 129 | Impact of dose reduction and iterative model reconstruction on multi-detector CT imaging of the brain in patients with suspected ischemic stroke. Scientific Reports, 2021, 11, 22271. | 1.6 | 5 |
| 130 | Evaluation of a method for improving the detection of hepatocellular carcinoma. European Radiology, 2014, 24, 250-255. | 2.3 | 4 |
| 131 | Dynamic CT perfusion imaging of the myocardium using a wide-detector scanner: a semiquantitative analysis in an animal model. Clinical Imaging, 2014, 38, 675-680. | 0.8 | 4 |
| 132 | CT Angiography. Academic Radiology, 2017, 24, 131-136. | 1.3 | 4 |
| 133 | Revising the lower statistical limit of x-ray grating-based phase-contrast computed tomography. PLoS ONE, 2017, 12, e0184217. | 1.1 | 4 |
| 134 | Tilted grating phase-contrast computed tomography using statistical iterative reconstruction. Scientific Reports, 2018, 8, 6608. | 1.6 | 4 |
| 135 | Tube Current Reduction in CT Angiography: How Low Can We Go in Imaging of Patients With Suspected Acute Stroke?. American Journal of Roentgenology, 2019, 213, 410-416. | 1.0 | 4 |
| 136 | Spectral-detector based x-ray absorptiometry (SDXA): in-vivo bone mineral density measurements in patients with and without osteoporotic fractures. Biomedical Physics and Engineering Express, 2020, 6, 055021. | 0.6 | 4 |
| 137 | Preliminary clinical results: an analyzing tool for 2D optical imaging in detection of active inflammation in rheumatoid arthritis. Proceedings of SPIE, 2011, , . | 0.8 | 3 |
| 138 | Quantitative positron emission tomography imaging in the presence of iodinated contrast media using electron density quantifications from dual‐energy computed tomography. Medical Physics, 2021, 48, 273-286. | 1.6 | 3 |
| 139 | Quantitative analysis of speckle-based X-ray dark-field imaging using numerical wave-optics simulations. Scientific Reports, 2021, 11, 16113. | 1.6 | 3 |
| 140 | Diagnostic value of sparse sampling computed tomography for radiation dose reduction: initial results. , 2018, , . |  | 3 |
| 141 | Combining spectral CT acquisition methods for high-sensitivity material decomposition. , 2020, 11312, . |  | 3 |
| 142 | Registration of vascular 3D data sets obtained from multiple-view reconstructions. International Congress Series, 2004, 1268, 329-334. | 0.2 | 2 |
| 143 | Generating of 3D data during neurovascular interventions by using multi-projection imaging. International Congress Series, 2005, 1281, 334-338. | 0.2 | 2 |
| 144 | Toward region of interest computer tomography. , 2009, , . |  | 2 |

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|---|---------|----|-----------|
| 145 | A method for improving iodine contrast enhancement in abdominal computed tomography: experimental study in a pig model. European Radiology, 2013, 23, 985-990. | 2.3 | 2 |
| 146 | X-ray vector radiography of a human hand. , 2017, , . | | 2 |
| 147 | Ex vivo characterization of pathologic fluids with quantitative phase-contrast computed tomography. European Journal of Radiology, 2017, 86, 99-104. | 1.2 | 2 |
| 148 | Sparse sampling computed tomography (SpSCT) for detection of pulmonary embolism: a feasibility study. European Radiology, 2019, 29, 5950-5960. | 2.3 | 2 |
| 149 | Towards subject-level cerebral infarction classification of CT scans using convolutional networks. PLoS ONE, 2020, 15, e0235765. | 1.1 | 2 |
| 150 | Quantitative imaging of the spine in adolescent idiopathic scoliosis: shifting the paradigm from diagnostic to comprehensive prognostic evaluation. European Journal of Orthopaedic Surgery and Traumatology, 2021, 31, 1273-1285. | 0.6 | 2 |
| 151 | Spectral CT using a fine grid structure and varying x‐ray incidence angle. Medical Physics, 2021, 48, 6412-6420. | 1.6 | 2 |
| 152 | Sparse-sampling computed tomography for detection of endoleak after endovascular aortic repair (EVAR). European Journal of Radiology, 2021, 142, 109843. | 1.2 | 2 |
| 153 | Region of interest processing for iterative reconstruction in x-ray computed tomography. , 2015, , . | | 1 |
| 154 | Low-Dose Dual KVP Switching Using A Static Coded Aperture. , 2021, , . | | 1 |
| 155 | Evaluation of a machine learning based model observer for x-ray CT. , 2018, , . | | 1 |
| 156 | Grating-based Spectral CT using Small Angle X-ray Beam Deflections. , 2020, 2020, 630-633. | | 1 |
| 157 | Hepatic dual-contrast CT imaging: slow triple kVp switching CT with CNN-based sinogram completion and material decomposition. Journal of Medical Imaging, 2022, 9, 014003. | 0.8 | 1 |
| 158 | Clinical evaluation of angiographic multiple-view 3D reconstruction. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 497-508. | 1.7 | 0 |
| 159 | Rapid dynamic radial MRI via reference image enforced histogram constrained reconstruction. Journal of Magnetic Resonance, 2014, 240, 1-7. | 1.2 | 0 |
| 160 | Effect of low-dose CT and iterative reconstruction on trabecular bone microstructure assessment. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 161 | Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on quantitative paraspinal muscle assessment. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3042-3050. | 1.1 | 0 |
| 162 | Low-Dose Simulation and Sparse Sampling with Statistical Iterative Reconstruction: Dose Reduction in MDCT-Based Bone Mineral Density and Microstructure Assessment. Seminars in Musculoskeletal Radiology, 2017, 21, S1-S5. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 163 | Sparse-sampling computed tomography for pulmonary imaging. , 2019, , . | | 0 |