

# Steffen Kappler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1064198/publications.pdf>

Version: 2024-02-01

12  
papers

568  
citations

1162367

8  
h-index

1281420

11  
g-index

12  
all docs

12  
docs citations

12  
times ranked

522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of conventional imaging performance in a research whole-body CT system with a photon-counting detector array. <i>Physics in Medicine and Biology</i> , 2016, 61, 1572-1595.	1.6	185
2	Feasibility of Dose-reduced Chest CT with Photon-counting Detectors: Initial Results in Humans. <i>Radiology</i> , 2017, 285, 980-989.	3.6	129
3	Photon-Counting CT of the Brain: In Vivo Human Results and Image-Quality Assessment. <i>American Journal of Neuroradiology</i> , 2017, 38, 2257-2263.	1.2	75
4	Spatio-energetic cross-talk in photon counting detectors: Numerical detector model (PcTK) and workflow for CT image quality assessment. <i>Medical Physics</i> , 2018, 45, 1985-1998.	1.6	51
5	How Low Can We Go in Radiation Dose for the Data-Completion Scan on a Research Whole-Body Photon-Counting Computed Tomography System. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 663-670.	0.5	47
6	Impact of Artificial Intelligence Decision Support Using Deep Learning on Breast Cancer Screening Interpretation with Single-View Wide-Angle Digital Breast Tomosynthesis. <i>Radiology</i> , 2021, 300, 529-536.	3.6	27
7	Estimation of Basis Line-Integrals in a Spectral Distortion-Modeled Photon Counting Detector Using Low-Rank Approximation-Based X-Ray Transmittance Modeling: K-Edge Imaging Application. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2389-2403.	5.4	19
8	Estimation of Basis Line-Integrals in a Spectral Distortion-Modeled Photon Counting Detector Using Low-Order Polynomial Approximation of X-ray Transmittance. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 560-573.	5.4	17
9	X-Ray Transmittance Modeling-Based Material Decomposition Using a Photon-Counting Detector CT System. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 508-516.	2.7	5
10	Volumetric breast density measurement for personalized screening: accuracy, reproducibility, consistency, and agreement with visual assessment. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	5
11	Mammographic breast density classification using a deep neural network: assessment on the basis of inter-observer variability. , 2019, , .		5
12	The effect of tin prefiltration on extremity cone-beam CT imaging with a twin robotic X-ray system. <i>Radiography</i> , 2022, 28, 433-439.	1.1	3