# Felix Lucka

List of Publications by Year
in descending order



| | | 623734 | 395702 |
|---|---|---|---|
| 38 | 1,197 | 14 | 33 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 39 | 39 | 39 | 1552 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Model-Based Learning for Accelerated, Limited-View 3-D Photoacoustic Tomography. IEEE Transactions on Medical Imaging, 2018, 37, 1382-1393. | 8.9 | 212 |
| 2 | Simulating Transcranial Direct Current Stimulation With a Detailed Anisotropic Human Head Model. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 441-452. | 4.9 | 172 |
| 3 | Realâ€time cardiovascular MR with spatioâ€temporal artifact suppression using deep learningâ€“proof of concept in congenital heart disease. Magnetic Resonance in Medicine, 2019, 81, 1143-1156. | 3.0 | 146 |
| 4 | Accelerated high-resolution photoacoustic tomography via compressed sensing. Physics in Medicine and Biology, 2016, 61, 8908-8940. | 3.0 | 112 |
| 5 | On the adjoint operator in photoacoustic tomography. Inverse Problems, 2016, 32, 115012. | 2.0 | 79 |
| 6 | Hierarchical Bayesian inference for the EEG inverse problem using realistic FE head models: Depth localization and source separation for focal primary currents. NeuroImage, 2012, 61, 1364-1382. | 4.2 | 71 |
| 7 | The role of blood vessels in high-resolution volume conductor head modeling of EEG. NeuroImage, 2016, 128, 193-208. | 4.2 | 48 |
| 8 | Using reciprocity for relating the simulation of transcranial current stimulation to the EEG forward problem. NeuroImage, 2016, 140, 163-173. | 4.2 | 42 |
| 9 | Maximum a posteriori estimates in linear inverse problems with log-concave priors are proper Bayes estimators. Inverse Problems, 2014, 30, 114004. | 2.0 | 31 |
| 10 | Explorative Imaging and Its Implementation at the FleX-ray Laboratory. Journal of Imaging, 2020, 6, 18. | 3.0 | 29 |
| 11 | Enhancing Compressed Sensing 4D Photoacoustic Tomography by Simultaneous Motion Estimation. SIAM Journal on Imaging Sciences, 2018, 11, 2224-2253. | 2.2 | 25 |
| 12 | A cone-beam X-ray computed tomography data collection designed for machine learning. Scientific Data, 2019, 6, 215. | 5.3 | 21 |
| 13 | Fast Markov chain Monte Carlo sampling for sparse Bayesian inference in high-dimensional inverse problems using L1-type priors. Inverse Problems, 2012, 28, 125012. | 2.0 | 17 |
| 14 | Three dimensional photoacoustic tomography in Bayesian framework. Journal of the Acoustical Society of America, 2018, 144, 2061-2071. | 1.1 | 16 |
| 15 | Single-pixel camera photoacoustic tomography. Journal of Biomedical Optics, 2019, 24, 1. | 2.6 | 16 |
| 16 | High resolution 3D ultrasonic breast imaging by time-domain full waveform inversion. Inverse Problems, 2022, 38, 025008. | 2.0 | 14 |
| 17 | Comparison of convolutional neural network training strategies for cone-beam CT image segmentation. Computer Methods and Programs in Biomedicine, 2021, 207, 106192. | 4.7 | 13 |
| 18 | Risk estimators for choosing regularization parameters in ill-posed problems - properties and limitations. Inverse Problems and Imaging, 2018, 12, 1121-1155. | 1.1 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Refraction-corrected ray-based inversion for three-dimensional ultrasound tomography of the breast. Inverse Problems, 2020, 36, 125010. | 2.0 | 13 |
| 20 | A hierarchical Bayesian perspective on majorization-minimization for non-convex sparse regression: application to M/EEG source imaging. Inverse Problems, 2018, 34, 085010. | 2.0 | 12 |
| 21 | Approximate k-Space Models and Deep Learning for Fast Photoacoustic Reconstruction. Lecture Notes in Computer Science, 2018, , 103-111. | 1.3 | 12 |
| 22 | Improved EEG source localization with Bayesian uncertainty modelling of unknown skull conductivity. NeuroImage, 2019, 188, 252-260. | 4.2 | 11 |
| 23 | Fast Gibbs sampling for high-dimensional Bayesian inversion. Inverse Problems, 2016, 32, 115019. | 2.0 | 10 |
| 24 | Electrical Stimulation of the Human Cerebral Cortex by Extracranial Muscle Activity: Effect Quantification With Intracranial EEG and FEM Simulations. IEEE Transactions on Biomedical Engineering, 2016, 63, 2552-2563. | 4.2 | 10 |
| 25 | Equivalent-Source Acoustic Holography for Projecting Measured Ultrasound Fields Through Complex Media. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1857-1864. | 3.0 | 10 |
| 26 | 3D deformable registration of longitudinal abdominopelvic CT images using unsupervised deep learning. Computer Methods and Programs in Biomedicine, 2021, 208, 106261. | 4.7 | 9 |
| 27 | Sub-sampled Fabry-Perot photoacoustic scanner for fast 3D imaging. Proceedings of SPIE, 2017, , . | 0.8 | 8 |
| 28 | Three-dimensional photoacoustic imaging and inversion for accurate quantification of chromophore distributions. , 2017, , . | | 5 |
| 29 | A Multi-channel DART Algorithm. Lecture Notes in Computer Science, 2018, , 164-178. | 1.3 | 4 |
| 30 | Emulation of X-ray Light-Field Cameras. Journal of Imaging, 2020, 6, 138. | 3.0 | 3 |
| 31 | Photoacoustic Reconstruction Using Sparsity in Curvelet Frame: Image Versus Data Domain. IEEE Transactions on Computational Imaging, 2021, 7, 879-893. | 4.4 | 3 |
| 32 | Application of Proximal Alternating Linearized Minimization (PALM) and inertial PALM to dynamic 3D CT. , 2019, , . | | 3 |
| 33 | Bayesian Modelling of Skull Conductivity Uncertainties in EEG Source Imaging. IFMBE Proceedings, 2018, , 892-895. | 0.3 | 2 |
| 34 | Atomic Super-Resolution Tomography. Lecture Notes in Computer Science, 2020, , 45-61. | 1.3 | 2 |
| 35 | Photoacoustic imaging with a multi-view Fabry-PÃ©rot scanner. , 2017, , . | | 1 |
| 36 | Efficient high cone-angle artifact reduction in circular cone-beam CT using deep learning with geometry-aware dimension reduction. Physics in Medicine and Biology, 2021, 66, 135015. | 3.0 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Photoacoustic image reconstruction in Bayesian framework. , 2018, , . | | 0 |
| 38 | Towards X-ray Plenoptic Imaging: Emulation with a Laboratory X-ray Scanner. , 2021, , . | | 0 |