Felix Lucka

List of Publications by Year
in descending order

38 papers	**1,197** citations
623734 **14** h-index	395702 **33** g-index
39 all docs	**39** docs citations
39 times ranked	**1552** citing authors

#	Article	IF	Citations
1	High resolution 3D ultrasonic breast imaging by time-domain full waveform inversion. Inverse Problems, 2022, 38, 025008.	2.0	14
2	Photoacoustic Reconstruction Using Sparsity in Curvelet Frame: Image Versus Data Domain. IEEE Transactions on Computational Imaging, 2021, 7, 879-893.	4.4	3
3	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
4	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
5	3D deformable registration of longitudinal abdominopelvic CT images using unsupervised deep learning. Computer Methods and Programs in Biomedicine, 2021, 208, 106261.	4.7	9
6	Towards X-ray Plenoptic Imaging: Emulation with a Laboratory X-ray Scanner. , 2021, , .		0
7	Emulation of X-ray Light-Field Cameras. Journal of Imaging, 2020, 6, 138.	3.0	3
8	Explorative Imaging and Its Implementation at the FleX-ray Laboratory. Journal of Imaging, 2020, 6, 18.	3.0	29
9	Refraction-corrected ray-based inversion for three-dimensional ultrasound tomography of the breast. Inverse Problems, 2020, 36, 125010.	2.0	13
10	Atomic Super-Resolution Tomography. Lecture Notes in Computer Science, 2020, , 45-61.	1.3	2
11	A cone-beam X-ray computed tomography data collection designed for machine learning. Scientific Data, 2019, 6, 215.	5.3	21
12	Real–time cardiovascular MR with spatio–temporal artifact suppression using deep learning–proof of concept in congenital heart disease. Magnetic Resonance in Medicine, 2019, 81, 1143-1156.	3.0	146
13	Improved EEG source localization with Bayesian uncertainty modelling of unknown skull conductivity. NeuroImage, 2019, 188, 252-260.	4.2	11
14	Single-pixel camera photoacoustic tomography. Journal of Biomedical Optics, 2019, 24, 1.	2.6	16
15	Application of Proximal Alternating Linearized Minimization (PALM) and inertial PALM to dynamic 3D CT. , 2019, , .		3
16	Model-Based Learning for Accelerated, Limited-View 3-D Photoacoustic Tomography. IEEE Transactions on Medical Imaging, 2018, 37, 1382-1393.	8.9	212
17	Enhancing Compressed Sensing 4D Photoacoustic Tomography by Simultaneous Motion Estimation. SIAM Journal on Imaging Sciences, 2018, 11, 2224-2253.	2.2	25
18	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

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19	Three dimensional photoacoustic tomography in Bayesian framework. Journal of the Acoustical Society of America, 2018, 144, 2061-2071.	1.1	16
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	A Multi-channel DART Algorithm. Lecture Notes in Computer Science, 2018, , 164-178.	1.3	4
23	Risk estimators for choosing regularization parameters in ill-posed problems - properties and limitations. Inverse Problems and Imaging, 2018, 12, 1121-1155.	1.1	13
24	Bayesian Modelling of Skull Conductivity Uncertainties in EEG Source Imaging. IFMBE Proceedings, 2018, , 892-895.	0.3	2
25	Photoacoustic image reconstruction in Bayesian framework. , 2018, , .		0
26	Three-dimensional photoacoustic imaging and inversion for accurate quantification of chromophore distributions. , 2017, , .		5
27	Sub-sampled Fabry-Perot photoacoustic scanner for fast 3D imaging. Proceedings of SPIE, 2017, , .	0.8	8
28	Photoacoustic imaging with a multi-view Fabry-PÃ©rot scanner. , 2017, , .		1
29	Fast Gibbs sampling for high-dimensional Bayesian inversion. Inverse Problems, 2016, 32, 115019.	2.0	10
30	Accelerated high-resolution photoacoustic tomography via compressed sensing. Physics in Medicine and Biology, 2016, 61, 8908-8940.	3.0	112
31	Using reciprocity for relating the simulation of transcranial current stimulation to the EEG forward problem. NeuroImage, 2016, 140, 163-173.	4.2	42
32	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
33	On the adjoint operator in photoacoustic tomography. Inverse Problems, 2016, 32, 115012.	2.0	79
34	The role of blood vessels in high-resolution volume conductor head modeling of EEG. NeuroImage, 2016, 128, 193-208.	4.2	48
35	Maximum a posteriori estimates in linear inverse problems with log-concave priors are proper Bayes estimators. Inverse Problems, 2014, 30, 114004.	2.0	31
36	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

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37	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
38	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