

# Ozan A-ktem

## List of Publications by Year in descending order

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34  
papers

1,731  
citations

759233

12  
h-index

454955

30  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1463  
citing authors

#	ARTICLE	IF	CITATIONS
1	Task adapted reconstruction for inverse problems. <i>Inverse Problems</i> , 2022, 38, 075006.	2.0	12
2	Deep microlocal reconstruction for limited-angle tomography. <i>Applied and Computational Harmonic Analysis</i> , 2022, 59, 155-197.	2.2	2
3	A deep learning one-step solution to material image reconstruction in photon counting spectral CT. , 2022, , .		1
4	Photon-Counting CT Reconstruction With a Learned Forward Operator. <i>IEEE Transactions on Computational Imaging</i> , 2022, 8, 536-550.	4.4	2
5	Exploiting prior knowledge about biological macromolecules in cryo-EM structure determination. <i>IUCr</i> , 2021, 8, 60-75.	2.2	14
6	Adversarially Learned Iterative Reconstruction for Imaging Inverse Problems. <i>Lecture Notes in Computer Science</i> , 2021, , 540-552.	1.3	2
7	Template-Based Image Reconstruction from Sparse Tomographic Data. <i>Applied Mathematics and Optimization</i> , 2020, 82, 1081-1109.	1.6	10
8	Data-Driven Nonsmooth Optimization. <i>SIAM Journal on Optimization</i> , 2020, 30, 102-131.	2.0	13
9	Multi-Scale Learned Iterative Reconstruction. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 843-856.	4.4	21
10	Image reconstruction through metamorphosis. <i>Inverse Problems</i> , 2020, 36, 025001.	2.0	11
11	Shearlets as feature extractor for semantic edge detection: the model-based and data-driven realm. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190841.	2.1	6
12	A New Variational Model for Joint Image Reconstruction and Motion Estimation in Spatiotemporal Imaging. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 1686-1719.	2.2	18
13	Solving inverse problems using data-driven models. <i>Acta Numerica</i> , 2019, 28, 1-174.	10.7	359
14	Joint Image Deconvolution and Separation Using Mixed Dictionaries. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 3936-3945.	9.8	3
15	Extraction of Digital Wavefront Sets Using Applied Harmonic Analysis and Deep Neural Networks. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 1936-1966.	2.2	9
16	Spatiotemporal PET Reconstruction Using ML-EM with Learned Diffeomorphic Deformation. <i>Lecture Notes in Computer Science</i> , 2019, , 151-162.	1.3	5
17	Indirect Image Registration with Large Diffeomorphic Deformations. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 575-617.	2.2	22
18	Tunable Ampere phase plate for low dose imaging of biomolecular complexes. <i>Scientific Reports</i> , 2018, 8, 5592.	3.3	11

#	ARTICLE	IF	CITATIONS
19	Learned Primal-Dual Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1322-1332.	8.9	506
20	Reordering for improving global Arnoldiâ€™s Tikhonov method in image restoration problems. Signal, Image and Video Processing, 2018, 12, 497-504.	2.7	3
21	Shape-based image reconstruction using linearized deformations. Inverse Problems, 2017, 33, 035004.	2.0	10
22	Measuring true localization accuracy in super resolution microscopy with DNA-origami nanostructures. New Journal of Physics, 2017, 19, 025013.	2.9	12
23	Solving ill-posed inverse problems using iterative deep neural networks. Inverse Problems, 2017, 33, 124007.	2.0	411
24	High-Level Algorithm Prototyping: An Example Extending the TVR-DART Algorithm. Lecture Notes in Computer Science, 2017, , 109-121.	1.3	1
25	Mathematics of Electron Tomography. , 2015, , 937-1031.		9
26	Infinite Dimensional Optimization Models and PDEs for Dejittering. Lecture Notes in Computer Science, 2015, , 678-689.	1.3	4
27	Image formation modeling in cryo-electron microscopy. Journal of Structural Biology, 2013, 183, 19-32.	2.8	90
28	Shape-Based Regularization of Electron Tomographic Reconstruction. IEEE Transactions on Medical Imaging, 2012, 31, 2241-2252.	8.9	10
29	Simulation of transmission electron microscope images of biological specimens. Journal of Microscopy, 2011, 243, 234-256.	1.8	66
30	Electron lambda-tomography. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21842-21847.	7.1	21
31	Molecular cryo-electron tomography of vitreous tissue sections: current challenges. Journal of Microscopy, 2009, 235, 293-307.	1.8	27
32	Local Tomography in Electron Microscopy. SIAM Journal on Applied Mathematics, 2008, 68, 1282-1303.	1.8	37
33	Inversion of the X-ray transform from limited angle parallel beam region of interest data with applications to electron tomography. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1050301-1050302.	0.2	0
34	An efficient algorithm to compute the X-ray transform. International Journal of Computer Mathematics, 0, , 1-19.	1.8	1