William T Freeman

List of Publications by Year
in descending order

42 papers	9,322 citations	304743 22 h-index	501196 28 g-index
42 all docs	42 docs citations	42 times ranked	7205 citing authors

#	Article	IF	Citations
1	LabelMe: A Database and Web-Based Tool for Image Annotation. International Journal of Computer Vision, 2008, 77, 157-173.	15.6	2,723
2	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
3	Image and depth from a conventional camera with a coded aperture. ACM Transactions on Graphics, 2007, 26, 70.	7.2	861
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	8.3	806
5	Face Hallucination: Theory and Practice. International Journal of Computer Vision, 2007, 75, 115-134.	15.6	392
6	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
7	The generic viewpoint assumption in a framework for visual perception. Nature, 1994, 368, 542-545.	27.8	182
8	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. Astrophysical Journal Letters, 2022, 930, L14.	8.3	163
9	Noise-optimal capture for high dynamic range photography. , 2010, , .		152
10	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	8.3	142
11	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
12	Video Camera–Based Vibration Measurement for Civil Infrastructure Applications. Journal of Infrastructure Systems, 2017, 23, .	1.8	130
13	Motion-invariant photography. ACM Transactions on Graphics, 2008, 27, 1-9.	7.2	126
14	Describing Visual Scenes Using Transformed Objects and Parts. International Journal of Computer Vision, 2008, 77, 291-330.	15.6	122
15	Compressed History Matching: Exploiting Transform-Domain Sparsity for Regularization of Nonlinear Dynamic Data Integration Problems. Mathematical Geosciences, 2010, 42, 1-27.	2.4	83
16	Turning Corners into Cameras: Principles and Methods. , 2017, , .		82
17	Transform-domain sparsity regularization for inverse problems in geosciences. Geophysics, 2009, 74, R69-R83.	2.6	68
18	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67

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19	Observingâ€"and Imagingâ€"Active Galactic Nuclei with the Event Horizon Telescope. Galaxies, 2016, 4, 54.	3.0	63
20	Motion microscopy for visualizing and quantifying small motions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11639-11644.	7.1	55
21	Evaluation of image features using a photorealistic virtual world. , 2011, , .		51
22	Seeing the Arrow of Time. , 2014, , .		50
23	Exploiting Occlusion in Non-Line-of-Sight Active Imaging. IEEE Transactions on Computational Imaging, 2018, 4, 419-431.	4.4	50
24	Medical Image Imputation From Image Collections. IEEE Transactions on Medical Imaging, 2019, 38, 504-514.	8.9	33
25	Using Unknown Occluders to Recover Hidden Scenes. , 2019, , .		29
26	Accidental Pinhole and Pinspeck Cameras. International Journal of Computer Vision, 2014, 110, 92-112.	15.6	27
27	Computational Imaging for VLBI Image Reconstruction. , 2016, , .		27
28	Refraction Wiggles for Measuring Fluid Depth and Velocity from Video. Lecture Notes in Computer Science, 2014, , 767-782.	1.3	27
29	Corner Occluder Computational Periscopy: Estimating a Hidden Scene from a Single Photograph. , 2019, , .		23
30	Accidental pinhole and pinspeck cameras: Revealing the scene outside the picture. , 2012, , .		22
31	Reconstructing Video of Time-Varying Sources From Radio Interferometric Measurements. IEEE Transactions on Computational Imaging, 2018, 4, 512-527.	4.4	22
32	Two-Dimensional Non-Line-of-Sight Scene Estimation From a Single Edge Occluder. IEEE Transactions on Computational Imaging, 2021, 7, 58-72.	4.4	20
33	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
34	Infinite Images: Creating and Exploring a Large Photorealistic Virtual Space. Proceedings of the IEEE, 2010, 98, 1391-1407.	21.3	19
35	Population Based Image Imputation. Lecture Notes in Computer Science, 2017, 10265, 659-671.	1.3	17
36	A Compositional Model for Low-Dimensional Image Set Representation. , 2014, , .		16

#	Article	IF	Citations
37	Visual Dynamics: Stochastic Future Generation via Layered Cross Convolutional Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2236-2250.	13.9	15
38	A reliable skin mole localization scheme. , 2007, , .		13
39	Search-and-replace editing for personal photo collections. , 2010, , .		5
40	Where computer vision needs help from computer science. , 2011, , .		2
41	Toward Automatic Interpretation of 3D Plots. Lecture Notes in Computer Science, 2021, , 35-50.	1.3	1
42	35.3: Overview of Computational Photography. Digest of Technical Papers SID International Symposium, 2012, 43, 467-468.	0.3	0