

# Wei Zhu

## List of Publications by Year in descending order

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21  
papers

550  
citations

840776

11  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Image Denoising Using Mean Curvature of Image Surface. SIAM Journal on Imaging Sciences, 2012, 5, 1-32.	2.2	136
2	Augmented Lagrangian method for a mean curvature based image denoising model. Inverse Problems and Imaging, 2013, 7, 1409-1432.	1.1	82
3	Image Segmentation Using Euler's Elastica as the Regularization. Journal of Scientific Computing, 2013, 57, 414-438.	2.3	59
4	Modeling and simulation of liquid-crystal elastomers. Physical Review E, 2011, 83, 051703.	2.1	41
5	Segmentation with Depth: A Level Set Approach. SIAM Journal of Scientific Computing, 2006, 28, 1957-1973.	2.8	37
6	Augmented Lagrangian method for an Euler's elastica based segmentation model that promotes convex contours. Inverse Problems and Imaging, 2017, 11, 1-23.	1.1	36
7	A Variational Model for Capturing Illusory Contours Using Curvature. Journal of Mathematical Imaging and Vision, 2007, 27, 29-40.	1.3	29
8	A neuronal network model of primary visual cortex explains spatial frequency selectivity. Journal of Computational Neuroscience, 2009, 26, 271-287.	1.0	23
9	Correlation between spatial frequency and orientation selectivity in V1 cortex: Implications of a network model. Vision Research, 2010, 50, 2261-2273.	1.4	20
10	Illusory Shapes via Corner Fusion. SIAM Journal on Imaging Sciences, 2014, 7, 1907-1936.	2.2	20
11	Image Segmentation Using the Cahn-Hilliard Equation. Journal of Scientific Computing, 2019, 79, 1057-1077.	2.3	14
12	A geodesic-active-contour-based variational model for short-axis cardiac MR image segmentation. International Journal of Computer Mathematics, 2013, 90, 124-139.	1.8	11
13	A first-order image denoising model for staircase reduction. Advances in Computational Mathematics, 2019, 45, 3217-3239.	1.6	7
14	A Fast Algorithm for a Mean Curvature Based Image Denoising Model Using Augmented Lagrangian Method. Lecture Notes in Computer Science, 2014, , 104-118.	1.3	7
15	Efficient alternating minimization methods for variational edge-weighted colorization models. Advances in Computational Mathematics, 2019, 45, 1735-1767.	1.6	6
16	A numerical study of a mean curvature denoising model using a novel augmented Lagrangian method. Inverse Problems and Imaging, 2017, 11, 975-996.	1.1	6
17	A First-Order Image Restoration Model that Promotes Image Contrast Preservation. Journal of Scientific Computing, 2021, 88, 1.	2.3	5
18	Image Denoising Using $L^p$ -norm of Mean Curvature of Image Surface. Journal of Scientific Computing, 2020, 83, 1.	2.3	4

#	ARTICLE	IF	CITATIONS
19	A fast modified Newton's method for curvature based denoising of 1D signals. Inverse Problems and Imaging, 2013, 7, 1075-1097.	1.1	4
20	Survey of fast algorithms for Euler's elastica-based image segmentation. Handbook of Numerical Analysis, 2019, 20, 533-552.	1.8	2
21	Simulation of liquid crystal elastomers using Chebyshev spectral method with a new preconditioner. Advances in Computational Mathematics, 2015, 41, 853-879.	1.6	1