

# Bartomeu

## List of Publications by Year in descending order

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50  
papers

10,043  
citations

471061

17  
h-index

377514

34  
g-index

50  
all docs

50  
docs citations

50  
times ranked

7705  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Image Denoising Algorithms, with a New One. Multiscale Modeling and Simulation, 2005, 4, 490-530.	0.6	3,516
2	A Non-Local Algorithm for Image Denoising. , 0, , .		3,513
3	Nonlocal Image and Movie Denoising. International Journal of Computer Vision, 2008, 76, 123-139.	10.9	640
4	Non-Local Means Denoising. Image Processing on Line, 0, 1, 208-212.	0.0	616
5	Image Denoising Methods. A New Nonlocal Principle. SIAM Review, 2010, 52, 113-147.	4.2	358
6	The staircasing effect in neighborhood filters and its solution. IEEE Transactions on Image Processing, 2006, 15, 1499-1505.	6.0	187
7	Topographic Maps and Local Contrast Changes in Natural Images. International Journal of Computer Vision, 1999, 33, 5-27.	10.9	136
8	Degenerate Hopf Bifurcations in Discontinuous Planar Systems. Journal of Mathematical Analysis and Applications, 2001, 253, 671-690.	0.5	119
9	Neighborhood filters and PDEs. Numerische Mathematik, 2006, 105, 1-34.	0.9	119
10	Self-Similarity Driven Color Demosaicking. IEEE Transactions on Image Processing, 2009, 18, 1192-1202.	6.0	113
11	Denoising image sequences does not require motion estimation. , 0, , .		84
12	A survey of pansharpening methods with a new band-decoupled variational model. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 125, 78-105.	4.9	71
13	A Nonlocal Variational Model for Pansharpening Image Fusion. SIAM Journal on Imaging Sciences, 2014, 7, 761-796.	1.3	69
14	Geometry and Color in Natural Images. Journal of Mathematical Imaging and Vision, 2002, 16, 89-105.	0.8	56
15	Chambolle's Projection Algorithm for Total Variation Denoising. Image Processing on Line, 0, 3, 311-331.	0.0	45
16	Image Denoising By Non-Local Averaging. , 0, , .		43
17	Differential Equations Defined by the Sum of two Quasi-Homogeneous Vector Fields. Canadian Journal of Mathematics, 1997, 49, 212-231.	0.3	36
18	Some theorems on the existence, uniqueness, and nonexistence of limit cycles for quadratic systems. Journal of Differential Equations, 1987, 67, 372-399.	1.1	34

#	ARTICLE	IF	CITATIONS
19	Self-similarity-based image denoising. Communications of the ACM, 2011, 54, 109-117.	3.3	30
20	Quadratic perturbations of a class of quadratic reversible systems with two centers. Discrete and Continuous Dynamical Systems, 2009, 24, 699-729.	0.5	27
21	THE CENTER PROBLEM FOR DISCONTINUOUS LIÉNARD DIFFERENTIAL EQUATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 1751-1761.	0.7	23
22	Limit cycles bifurcating from a perturbed quartic center. Chaos, Solitons and Fractals, 2011, 44, 317-334.	2.5	22
23	Self-similarity Driven Demosaicking. Image Processing on Line, 0, 1, 51-56.	0.0	16
24	Electroreflectance anisotropy at the WSe <sub>2</sub> layer semiconductor. Surface Science, 1993, 293, 160-164.	0.8	14
25	Conditional image diffusion. Inverse Problems and Imaging, 2007, 1, 593-608.	0.6	13
26	PHASE PORTRAITS OF THE QUADRATIC SYSTEMS WITH A POLYNOMIAL INVERSE INTEGRATING FACTOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 765-783.	0.7	12
27	Alien limit cycles in Liénard equations. Journal of Differential Equations, 2013, 254, 1582-1600.	1.1	12
28	Charge recombination imaging at the WSe <sub>2</sub> /In <sub>2</sub> S <sub>3</sub> interface. Surface Science, 1993, 295, 457-461.	0.8	11
29	Polynomial inverse integrating factors for quadratic differential systems. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 881-914.	0.6	11
30	Fattening Free Block Matching. Journal of Mathematical Imaging and Vision, 2011, 41, 109-121.	0.8	11
31	Center-focus and isochronous center problems for discontinuous differential equations. Discrete and Continuous Dynamical Systems, 2000, 6, 609-624.	0.5	11
32	Topographic maps of color images. , 0, , .		10
33	Half-linear regularization for nonconvex image restoration models. Inverse Problems and Imaging, 2015, 9, 337-370.	0.6	9
34	Implementation of Nonlocal Pansharpening Image Fusion. Image Processing on Line, 0, 4, 1-15.	0.0	9
35	Periodic orbits for perturbed non-autonomous differential equations. Bulletin Des Sciences Mathematiques, 2012, 136, 803-819.	0.5	8
36	Configurations of limit cycles in Liénard equations. Journal of Differential Equations, 2013, 255, 4169-4184.	1.1	8

#	ARTICLE	IF	CITATIONS
37	Asymptotic lower bounds on Hilbert numbers using canard cycles. Journal of Differential Equations, 2020, 268, 3370-3391.	1.1	6
38	Hyperspectral and multispectral wasserstein barycenter for image fusion. , 2017, , .		5
39	Uniqueness of limit cycles for a class of Lienard systems with applications. Journal of Mathematical Analysis and Applications, 1989, 141, 442-450.	0.5	4
40	Junction detection and filtering: a morphological approach. , 0, , .		4
41	Scale space versus topographic map for natural images. Lecture Notes in Computer Science, 1997, , 29-49.	1.0	4
42	Variational Fusion of Hyperspectral Data by Non-Local Filtering. Mathematics, 2021, 9, 1265.	1.1	3
43	Limit Cycles for Non Smooth Differential Equations via Schwarzian Derivative. Journal of Differential Equations, 1996, 132, 203-221.	1.1	2
44	On a criterium of global attraction for discrete dynamical systems. Communications on Pure and Applied Analysis, 2006, 5, 537-550.	0.4	2
45	An algorithm for nonconvex functional minimization and applications to image restoration. , 2014, , .		1
46	ON A CRITERIUM OF GLOBAL ATTRACTION FOR ORDINARY DIFFERENTIAL EQUATIONS. , 2005, , .		0
47	Pansharping by a nonlocal channel-decoupled variational method. , 2016, , .		0
48	A Variational Formulation for Hyperspectral and Multispectral Image Fusion. , 2018, , .		0
49	Asymptotic Dynamics of a Difference Equation with a Parabolic Equilibrium. Qualitative Theory of Dynamical Systems, 2020, 19, 1.	0.8	0
50	Matching of Line Segment for Stereo Computation. , 2017, , .		0