

# Bartomeu

## List of Publications by Year in descending order

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50  
papers

10,043  
citations

535685

17  
h-index

425179

34  
g-index

50  
all docs

50  
docs citations

50  
times ranked

8747  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational Fusion of Hyperspectral Data by Non-Local Filtering. Mathematics, 2021, 9, 1265.	1.1	3
2	Asymptotic lower bounds on Hilbert numbers using canard cycles. Journal of Differential Equations, 2020, 268, 3370-3391.	1.1	6
3	Asymptotic Dynamics of a Difference Equation with a Parabolic Equilibrium. Qualitative Theory of Dynamical Systems, 2020, 19, 1.	0.8	0
4	A Variational Formulation for Hyperspectral and Multispectral Image Fusion. , 2018, , .		0
5	Hyperspectral and multispectral wasserstein barycenter for image fusion. , 2017, , .		5
6	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
7	Matching of Line Segment for Stereo Computation. , 2017, , .		0
8	Pansharpening by a nonlocal channel-decoupled variational method. , 2016, , .		0
9	Half-linear regularization for nonconvex image restoration models. Inverse Problems and Imaging, 2015, 9, 337-370.	0.6	9
10	An algorithm for nonconvex functional minimization and applications to image restoration. , 2014, , .		1
11	A Nonlocal Variational Model for Pansharpening Image Fusion. SIAM Journal on Imaging Sciences, 2014, 7, 761-796.	1.3	69
12	Configurations of limit cycles in Li $\tilde{\text{A}}$ onard equations. Journal of Differential Equations, 2013, 255, 4169-4184.	1.1	8
13	Alien limit cycles in Li $\tilde{\text{A}}$ onard equations. Journal of Differential Equations, 2013, 254, 1582-1600.	1.1	12
14	Periodic orbits for perturbed non-autonomous differential equations. Bulletin Des Sciences Mathematiques, 2012, 136, 803-819.	0.5	8
15	Self-similarity-based image denoising. Communications of the ACM, 2011, 54, 109-117.	3.3	30
16	Fattening Free Block Matching. Journal of Mathematical Imaging and Vision, 2011, 41, 109-121.	0.8	11
17	Limit cycles bifurcating from a perturbed quartic center. Chaos, Solitons and Fractals, 2011, 44, 317-334.	2.5	22
18	Polynomial inverse integrating factors for quadratic differential systems. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 881-914.	0.6	11

#	ARTICLE	IF	CITATIONS
19	Image Denoising Methods. A New Nonlocal Principle. SIAM Review, 2010, 52, 113-147.	4.2	358
20	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
21	Self-Similarity Driven Color Demosaicking. IEEE Transactions on Image Processing, 2009, 18, 1192-1202.	6.0	113
22	Quadratic perturbations of a class of quadratic reversible systems with two centers. Discrete and Continuous Dynamical Systems, 2009, 24, 699-729.	0.5	27
23	Nonlocal Image and Movie Denoising. International Journal of Computer Vision, 2008, 76, 123-139.	10.9	640
24	Conditional image diffusion. Inverse Problems and Imaging, 2007, 1, 593-608.	0.6	13
25	The staircasing effect in neighborhood filters and its solution. IEEE Transactions on Image Processing, 2006, 15, 1499-1505.	6.0	187
26	On a criterium of global attraction for discrete dynamical systems. Communications on Pure and Applied Analysis, 2006, 5, 537-550.	0.4	2
27	Neighborhood filters and PDEs. Numerische Mathematik, 2006, 105, 1-34.	0.9	119
28	ON A CRITERIUM OF GLOBAL ATTRACTION FOR ORDINARY DIFFERENTIAL EQUATIONS. , 2005, , .		0
29	A Review of Image Denoising Algorithms, with a New One. Multiscale Modeling and Simulation, 2005, 4, 490-530.	0.6	3,516
30	Geometry and Color in Natural Images. Journal of Mathematical Imaging and Vision, 2002, 16, 89-105.	0.8	56
31	Degenerate Hopf Bifurcations in Discontinuous Planar Systems. Journal of Mathematical Analysis and Applications, 2001, 253, 671-690.	0.5	119
32	Center-focus and isochronous center problems for discontinuous differential equations. Discrete and Continuous Dynamical Systems, 2000, 6, 609-624.	0.5	11
33	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
34	Topographic Maps and Local Contrast Changes in Natural Images. International Journal of Computer Vision, 1999, 33, 5-27.	10.9	136
35	Differential Equations Defined by the Sum of two Quasi-Homogeneous Vector Fields. Canadian Journal of Mathematics, 1997, 49, 212-231.	0.3	36
36	Scale space versus topographic map for natural images. Lecture Notes in Computer Science, 1997, , 29-49.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Limit Cycles for Non Smooth Differential Equations via Schwarzian Derivative. Journal of Differential Equations, 1996, 132, 203-221.	1.1	2
38	Charge recombination imaging at the $WSe_2/\text{InAs}$ interface. Surface Science, 1993, 295, 457-461.	0.8	11
39	Electroreflectance anisotropy at the $WSe_2$ layer semiconductor. Surface Science, 1993, 293, 160-164.	0.8	14
40	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
41	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
42	Junction detection and filtering: a morphological approach. , 0, , .		4
43	Topographic maps of color images. , 0, , .		10
44	Image Denoising By Non-Local Averaging. , 0, , .		43
45	A Non-Local Algorithm for Image Denoising. , 0, , .		3,513
46	Denoising image sequences does not require motion estimation. , 0, , .		84
47	Self-similarity Driven Demosaicking. Image Processing on Line, 0, 1, 51-56.	0.0	16
48	Non-Local Means Denoising. Image Processing on Line, 0, 1, 208-212.	0.0	616
49	Chambolle's Projection Algorithm for Total Variation Denoising. Image Processing on Line, 0, 3, 311-331.	0.0	45
50	Implementation of Nonlocal Pansharpening Image Fusion. Image Processing on Line, 0, 4, 1-15.	0.0	9