Gonzalo Galiano

List of Publications by Year
in descending order

		840776	794594
38 papers	404 citations	11 h-index	19 g-index
40 all docs	40 docs citations	40 times ranked	238 citing authors

#	Article	IF	Citations
1	Semi-discretization in time and numerical convergence of solutions of a nonlinear cross-diffusion population model. Numerische Mathematik, 2003, 93, 655-673.	1.9	82
2	On a cross-diffusion segregation problem arising from a model of interacting particles. Nonlinear Analysis: Real World Applications, 2014, 18, 34-49.	1.7	33
3	On a chirplet transform-based method applied to separating and counting wolf howls. Signal Processing, 2008, 88, 1817-1826.	3.7	27
4	On a quasilinear degenerate system arising in semiconductors theory. Part I: Existence and uniqueness of solutions. Nonlinear Analysis: Real World Applications, 2001, 2, 305-336.	1.7	26
5	On the boussinesq system with non linear thermal diffusion. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 3255-3263.	1.1	23
6	A Parabolic Cross-Diffusion System for Granular Materials. SIAM Journal on Mathematical Analysis, 2003, 35, 561-578.	1.9	23
7	On a cross-diffusion population model deduced from mutation and splitting of a single species. Computers and Mathematics With Applications, 2012, 64, 1927-1936.	2.7	21
8	Competing through altering the environment: A cross-diffusion population model coupled to transportâ€"Darcy flow equations. Nonlinear Analysis: Real World Applications, 2011, 12, 2826-2838.	1.7	14
9	Implementation of a diffusive differential reassignment method for signal enhancement: An application to wolf population counting. Applied Mathematics and Computation, 2007, 193, 374-384.	2.2	13
10	On a quasilinear degenerate system arising in semiconductor theory. Part II: Localization of vacuum solutions. Nonlinear Analysis: Theory, Methods & Applications, 1999, 36, 569-594.	1.1	12
11	Wolf population counting by spectrogram image processing. Applied Mathematics and Computation, 2007, 186, 820-830.	2.2	12
12	Spatial and time localization of solutions of the Boussinesq system with nonlinear thermal diffusion. Nonlinear Analysis: Theory, Methods & Applications, 2000, 42, 423-438.	1.1	10
13	Evolutionary Distributions and Competition by Way of Reaction-Diffusion and by Way of Convolution. Bulletin of Mathematical Biology, 2013, 75, 2305-2323.	1.9	10
14	On a Fast Bilateral Filtering Formulation Using Functional Rearrangements. Journal of Mathematical Imaging and Vision, 2015, 53, 346-363.	1.3	9
15	Well-posedness of an evolution problem with nonlocal diffusion. Nonlinear Analysis: Real World Applications, 2019, 45, 170-185.	1.7	9
16	Modeling spatial adaptation of populations by a time non-local convection cross-diffusion evolution problem. Applied Mathematics and Computation, 2011, 218, 4587-4594.	2.2	8
17	Neighborhood Filters and the Decreasing Rearrangement. Journal of Mathematical Imaging and Vision, 2015, 51, 279-295.	1.3	8
18	On a nonlocal spectrogram for denoising one-dimensional signals. Applied Mathematics and Computation, 2014, 244, 859-869.	2.2	7

#	Article	IF	Citations
19	A dynamic boundary value problem arising in the ecology of mangroves. Nonlinear Analysis: Real World Applications, 2006, 7, 1129-1144.	1.7	6
20	On a cross-diffusion system arising in image denoising. Computers and Mathematics With Applications, 2018, 76, 984-996.	2.7	6
21	Well-Posedness of a Cross-Diffusion Population Model with Nonlocal Diffusion. SIAM Journal on Mathematical Analysis, 2019, 51, 2884-2902.	1.9	6
22	Deterministic particle method approximation of a contact inhibition cross-diffusion problem. Applied Numerical Mathematics, 2015, 95, 229-237.	2.1	5
23	Space localization and uniqueness of solutions of a quasilinear parabolic system arising in semiconductor theory. Comptes Rendus Mathematique, 1997, 325, 267-272.	0.5	4
24	Existence and multiplicity of segregated solutions to a cell-growth contact inhibition problem. Discrete and Continuous Dynamical Systems, 2015, 35, 1479-1501.	0.9	4
25	Well-posedness of a nonlinear integro-differential problem and its rearranged formulation. Nonlinear Analysis: Real World Applications, 2016, 32, 74-90.	1.7	3
26	Spatial localization for a general reaction-diffusion system. Annales De La Faculté Des Sciences De Toulouse, 1998, 7, 419-441.	0.3	3
27	On PDE-based spectrogram image restoration. Application to wolf chorus noise reduction and comparison with other algorithms. , 2008, , 3-12.		3
28	On the Uniqueness of Solutions of a Nonlinear Elliptic Problem Arising in the Confinement of a Plasma in a Stellarator Device. Applied Mathematics and Optimization, 1999, 39, 61-73.	1.6	2
29	Existence of solutions and stability analysis for a Darcy flow with extraction. Nonlinear Analysis: Real World Applications, 2009, 10, 2007-2020.	1.7	2
30	Finite element approximation of a surface–subsurface coupled problem arising in forest dynamics. Mathematics and Computers in Simulation, 2014, 102, 62-75.	4.4	2
31	Analysis of a splitting–differentiation population model leading to cross-diffusion. Computers and Mathematics With Applications, 2015, 70, 2933-2945.	2.7	2
32	On a singular perturbation problem arising in the theory of Evolutionary Distributions. Computers and Mathematics With Applications, 2015, 69, 145-156.	2.7	2
33	An economic cross-diffusion mutualistic model for cities emergence. Computers and Mathematics With Applications, 2020, 79, 643-655.	2.7	2
34	Finite element approximation of a population spatial adaptation model. Mathematical Biosciences and Engineering, 2013, 10, 637-647.	1.9	2
35	Computing the atomic rearrangement pathways for pure electron nuclides capture by a five-shell model. Computer Physics Communications, 1999, 117, 273-277.	7.5	1
36	Rearranged nonlocal filters for signal denoising. Mathematics and Computers in Simulation, 2015, 118, 213-223.	4.4	1

#	ARTICLE	IF	CITATIONS
37	Error analysis of some nonlocal diffusion discretization schemes. Computers and Mathematics With Applications, 2021, 103, 40-52.	2.7	1
38	Convergence of solutions of a rescaled evolution nonlocal cross-diffusion problem to its local diffusion counterpart. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2022, 116, 1.	1.2	0