

# Gonzalo Galiano

## List of Publications by Year in descending order

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38  
papers

404  
citations

840776

11  
h-index

794594

19  
g-index

40  
all docs

40  
docs citations

40  
times ranked

238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Convergence of solutions of a rescaled evolution nonlocal cross-diffusion problem to its local diffusion counterpart. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2022, 116, 1.	1.2	0
2	Error analysis of some nonlocal diffusion discretization schemes. <i>Computers and Mathematics With Applications</i> , 2021, 103, 40-52.	2.7	1
3	An economic cross-diffusion mutualistic model for cities emergence. <i>Computers and Mathematics With Applications</i> , 2020, 79, 643-655.	2.7	2
4	Well-posedness of an evolution problem with nonlocal diffusion. <i>Nonlinear Analysis: Real World Applications</i> , 2019, 45, 170-185.	1.7	9
5	Well-Posedness of a Cross-Diffusion Population Model with Nonlocal Diffusion. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 2884-2902.	1.9	6
6	On a cross-diffusion system arising in image denoising. <i>Computers and Mathematics With Applications</i> , 2018, 76, 984-996.	2.7	6
7	Well-posedness of a nonlinear integro-differential problem and its rearranged formulation. <i>Nonlinear Analysis: Real World Applications</i> , 2016, 32, 74-90.	1.7	3
8	Existence and multiplicity of segregated solutions to a cell-growth contact inhibition problem. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 1479-1501.	0.9	4
9	Analysis of a splittingâ€“differentiation population model leading to cross-diffusion. <i>Computers and Mathematics With Applications</i> , 2015, 70, 2933-2945.	2.7	2
10	On a singular perturbation problem arising in the theory of Evolutionary Distributions. <i>Computers and Mathematics With Applications</i> , 2015, 69, 145-156.	2.7	2
11	Rearranged nonlocal filters for signal denoising. <i>Mathematics and Computers in Simulation</i> , 2015, 118, 213-223.	4.4	1
12	Deterministic particle method approximation of a contact inhibition cross-diffusion problem. <i>Applied Numerical Mathematics</i> , 2015, 95, 229-237.	2.1	5
13	On a Fast Bilateral Filtering Formulation Using Functional Rearrangements. <i>Journal of Mathematical Imaging and Vision</i> , 2015, 53, 346-363.	1.3	9
14	Neighborhood Filters and the Decreasing Rearrangement. <i>Journal of Mathematical Imaging and Vision</i> , 2015, 51, 279-295.	1.3	8
15	On a nonlocal spectrogram for denoising one-dimensional signals. <i>Applied Mathematics and Computation</i> , 2014, 244, 859-869.	2.2	7
16	Finite element approximation of a surfaceâ€“subsurface coupled problem arising in forest dynamics. <i>Mathematics and Computers in Simulation</i> , 2014, 102, 62-75.	4.4	2
17	On a cross-diffusion segregation problem arising from a model of interacting particles. <i>Nonlinear Analysis: Real World Applications</i> , 2014, 18, 34-49.	1.7	33
18	Evolutionary Distributions and Competition by Way of Reaction-Diffusion and by Way of Convolution. <i>Bulletin of Mathematical Biology</i> , 2013, 75, 2305-2323.	1.9	10

#	ARTICLE	IF	CITATIONS
19	Finite element approximation of a population spatial adaptation model. <i>Mathematical Biosciences and Engineering</i> , 2013, 10, 637-647.	1.9	2
20	On a cross-diffusion population model deduced from mutation and splitting of a single species. <i>Computers and Mathematics With Applications</i> , 2012, 64, 1927-1936.	2.7	21
21	Modeling spatial adaptation of populations by a time non-local convection cross-diffusion evolution problem. <i>Applied Mathematics and Computation</i> , 2011, 218, 4587-4594.	2.2	8
22	Competing through altering the environment: A cross-diffusion population model coupled to transportâ€Darcy flow equations. <i>Nonlinear Analysis: Real World Applications</i> , 2011, 12, 2826-2838.	1.7	14
23	Existence of solutions and stability analysis for a Darcy flow with extraction. <i>Nonlinear Analysis: Real World Applications</i> , 2009, 10, 2007-2020.	1.7	2
24	On a chirplet transform-based method applied to separating and counting wolf howls. <i>Signal Processing</i> , 2008, 88, 1817-1826.	3.7	27
25	On PDE-based spectrogram image restoration. Application to wolf chorus noise reduction and comparison with other algorithms. , 2008, , 3-12.		3
26	Wolf population counting by spectrogram image processing. <i>Applied Mathematics and Computation</i> , 2007, 186, 820-830.	2.2	12
27	Implementation of a diffusive differential reassignment method for signal enhancement: An application to wolf population counting. <i>Applied Mathematics and Computation</i> , 2007, 193, 374-384.	2.2	13
28	A dynamic boundary value problem arising in the ecology of mangroves. <i>Nonlinear Analysis: Real World Applications</i> , 2006, 7, 1129-1144.	1.7	6
29	Semi-discretization in time and numerical convergence of solutions of a nonlinear cross-diffusion population model. <i>Numerische Mathematik</i> , 2003, 93, 655-673.	1.9	82
30	A Parabolic Cross-Diffusion System for Granular Materials. <i>SIAM Journal on Mathematical Analysis</i> , 2003, 35, 561-578.	1.9	23
31	On a quasilinear degenerate system arising in semiconductors theory. Part I: Existence and uniqueness of solutions. <i>Nonlinear Analysis: Real World Applications</i> , 2001, 2, 305-336.	1.7	26
32	Spatial and time localization of solutions of the Boussinesq system with nonlinear thermal diffusion. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2000, 42, 423-438.	1.1	10
33	On a quasilinear degenerate system arising in semiconductor theory. Part II: Localization of vacuum solutions. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1999, 36, 569-594.	1.1	12
34	Computing the atomic rearrangement pathways for pure electron nuclides capture by a five-shell model. <i>Computer Physics Communications</i> , 1999, 117, 273-277.	7.5	1
35	On the Uniqueness of Solutions of a Nonlinear Elliptic Problem Arising in the Confinement of a Plasma in a Stellarator Device. <i>Applied Mathematics and Optimization</i> , 1999, 39, 61-73.	1.6	2
36	Spatial localization for a general reaction-diffusion system. <i>Annales De La Facult� Des Sciences De Toulouse</i> , 1998, 7, 419-441.	0.3	3

#	ARTICLE	IF	CITATIONS
37	Space localization and uniqueness of solutions of a quasilinear parabolic system arising in semiconductor theory. <i>Comptes Rendus Mathematique</i> , 1997, 325, 267-272.	0.5	4
38	On the boussinesq system with non linear thermal diffusion. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1997, 30, 3255-3263.	1.1	23