

François Hamel

List of Publications by Year in descending order

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63
papers

3,145
citations

186265

28
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155660

55
g-index

64
all docs

64
docs citations

64
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptation in a heterogeneous environment I: persistence versus extinction. <i>Journal of Mathematical Biology</i> , 2021, 83, 14.	1.9	4
2	When the Allee threshold is an evolutionary trait: Persistence vs. extinction. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2021, 155, 155-191.	1.6	3
3	Propagation in a Fisher-KPP equation with non-local advection. <i>Journal of Functional Analysis</i> , 2020, 278, 108426.	1.4	12
4	On the mean speed of bistable transition fronts in unbounded domains. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2020, 136, 92-157.	1.6	16
5	A Liouville Theorem for the Euler Equations in the Plane. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 233, 599-642.	2.4	7
6	Liouville type results for a nonlocal obstacle problem. <i>Proceedings of the London Mathematical Society</i> , 2019, 119, 291-328.	1.3	10
7	Large time monotonicity of solutions of reaction-diffusion equations in \mathbb{R}^N . <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2018, 112, 89-117.	1.6	0
8	Optimization of some eigenvalue problems with large drift. <i>Communications in Partial Differential Equations</i> , 2018, 43, 945-964.	2.2	1
9	Comparison results and improved quantified inequalities for semilinear elliptic equations. <i>Mathematische Annalen</i> , 2017, 367, 311-372.	1.4	3
10	Sharp thresholds between finite spread and uniform convergence for a reaction-diffusion equation with oscillating initial data. <i>Journal of Differential Equations</i> , 2017, 262, 1461-1498.	2.2	1
11	One-dimensional symmetry and Liouville type results for the fourth order Allen-Cahn equation in \mathbb{R}^N . <i>Chinese Annals of Mathematics Series B</i> , 2017, 38, 149-172.	0.4	13
12	Traveling waves for a lattice dynamical system arising in a diffusive endemic model. <i>Nonlinearity</i> , 2017, 30, 2334-2359.	1.4	43
13	Mathematical Properties of a Class of Integro-differential Models from Population Genetics. <i>SIAM Journal on Applied Mathematics</i> , 2017, 77, 1536-1561.	1.8	13
14	Shear Flows of an Ideal Fluid and Elliptic Equations in Unbounded Domains. <i>Communications on Pure and Applied Mathematics</i> , 2017, 70, 590-608.	3.1	11
15	The logarithmic delay of KPP fronts in a periodic medium. <i>Journal of the European Mathematical Society</i> , 2016, 18, 465-505.	1.4	25
16	Convexity of level sets for elliptic problems in convex domains or convex rings: Two counterexamples. <i>American Journal of Mathematics</i> , 2016, 138, 499-527.	1.1	19
17	Monotonicity of Bistable Transition Fronts in \mathbb{R}^N . <i>Journal of Elliptic and Parabolic Equations</i> , 2016, 2, 145-155.	0.9	5
18	Transition fronts for the Fisher-KPP equation. <i>Transactions of the American Mathematical Society</i> , 2016, 368, 8675-8713.	0.9	26

#	ARTICLE	IF	CITATIONS
19	Bistable transition fronts in \mathbb{R}^N . Advances in Mathematics, 2016, 289, 279-344.	1.1	42
20	Admissible speeds of transition fronts for nonautonomous monostable equations. SIAM Journal on Mathematical Analysis, 2015, 47, 3342-3392.	1.9	20
21	Transition fronts for periodic bistable reaction-diffusion equations. Calculus of Variations and Partial Differential Equations, 2015, 54, 2517-2551.	1.7	24
22	On the nonlocal Fisher-KPP equation: steady states, spreading speed and global bounds. Nonlinearity, 2014, 27, 2735-2753.	1.4	60
23	Persistence and propagation in periodic reaction-diffusion models. Tamkang Journal of Mathematics, 2014, 45, 217-228.	0.3	6
24	Speed-up of combustion fronts in shear flows. Mathematische Annalen, 2013, 356, 845-867.	1.4	10
25	A short proof of the logarithmic Bramson correction in Fisher-KPP equations. Networks and Heterogeneous Media, 2013, 8, 275-289.	1.1	82
26	The Harnack Inequality for a Class of Degenerate Elliptic Operators. International Mathematics Research Notices, 2013, 2013, 3732-3743.	1.0	1
27	Allee effect promotes diversity in traveling waves of colonization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8828-8833.	7.1	150
28	Spreading Properties and Complex Dynamics for Monostable Reaction-Diffusion Equations. Communications in Partial Differential Equations, 2012, 37, 511-537.	2.2	26
29	Inside dynamics of pulled and pushed fronts. Journal Des Mathematiques Pures Et Appliquees, 2012, 98, 428-449.	1.6	46
30	Propagation and Blocking in Periodically Hostile Environments. Archive for Rational Mechanics and Analysis, 2012, 204, 945-975.	2.4	9
31	Generalized Transition Waves and Their Properties. Communications on Pure and Applied Mathematics, 2012, 65, 592-648.	3.1	119
32	Success rate of a biological invasion in terms of the spatial distribution of the founding population. Bulletin of Mathematical Biology, 2012, 74, 453-473.	1.9	29
33	Rearrangement inequalities and applications to isoperimetric problems for eigenvalues. Annals of Mathematics, 2011, 174, 647-755.	4.2	31
34	Two-dimensional curved fronts in a periodic shear flow. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6469-6486.	1.1	24
35	Extinction Versus Persistence in Strong Oscillating Flows. Archive for Rational Mechanics and Analysis, 2010, 195, 205-223.	2.4	2
36	Traveling Fronts for the Thermo-Diffusive System with Arbitrary Lewis Numbers. Archive for Rational Mechanics and Analysis, 2010, 195, 923-952.	2.4	9

#	ARTICLE	IF	CITATIONS
37	Spreading Speeds in Slowly Oscillating Environments. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 1166-1191.	1.9	25
38	Fast propagation for KPP equations with slowly decaying initial conditions. <i>Journal of Differential Equations</i> , 2010, 249, 1726-1745.	2.2	82
39	The speed of propagation for KPP type problems. II: General domains. <i>Journal of the American Mathematical Society</i> , 2010, 23, 1-34.	3.9	98
40	Spreading Speeds for Some Reaction-Diffusion Equations with General Initial Conditions. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2872-2911.	1.9	7
41	Uniqueness and stability properties of monostable pulsating fronts. <i>Journal of the European Mathematical Society</i> , 2010, 13, 345-390.	1.4	83
42	Bistable traveling waves around an obstacle. <i>Communications on Pure and Applied Mathematics</i> , 2009, 62, 729-788.	3.1	89
43	Qualitative properties of monostable pulsating fronts: exponential decay and monotonicity. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2008, 89, 355-399.	1.6	110
44	Asymptotic spreading in heterogeneous diffusive excitable media. <i>Journal of Functional Analysis</i> , 2008, 255, 2146-2189.	1.4	114
45	Mathematical analysis of the optimal habitat configurations for species persistence. <i>Mathematical Biosciences</i> , 2007, 210, 34-59.	1.9	50
46	Liouville-type results for semilinear elliptic equations in unbounded domains. <i>Annali Di Matematica Pura Ed Applicata</i> , 2007, 186, 469.	1.0	92
47	Traveling waves with paraboloid like interfaces for balanced bistable dynamics. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2007, 24, 369-393.	1.4	49
48	Front propagation for discrete periodic monostable equations. <i>Mathematische Annalen</i> , 2006, 335, 489-525.	1.4	64
49	Analysis of the periodically fragmented environment model: II—biological invasions and pulsating travelling fronts. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2005, 84, 1101-1146.	1.6	174
50	An isoperimetric inequality for the principal eigenvalue of the Laplacian with drift. <i>Comptes Rendus Mathematique</i> , 2005, 340, 347-352.	0.3	12
51	Analysis of the periodically fragmented environment model : I — Species persistence. <i>Journal of Mathematical Biology</i> , 2005, 51, 75-113.	1.9	234
52	Quenching and Propagation in KPP Reaction-Diffusion Equations with a Heat Loss. <i>Archive for Rational Mechanics and Analysis</i> , 2005, 178, 57-80.	2.4	39
53	Elliptic Eigenvalue Problems with Large Drift and Applications to Nonlinear Propagation Phenomena. <i>Communications in Mathematical Physics</i> , 2005, 253, 451-480.	2.2	102
54	Non-adiabatic KPP fronts with an arbitrary Lewis number. <i>Nonlinearity</i> , 2005, 18, 2881-2902.	1.4	10

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55	Gradient Estimates for Elliptic Regularizations of Semilinear Parabolic and Degenerate Elliptic Equations. Communications in Partial Differential Equations, 2005, 30, 139-156.	2.2	9
56	Existence and qualitative properties of multidimensional conical bistable fronts. Discrete and Continuous Dynamical Systems, 2005, 13, 1069-1096.	0.9	91
57	Stability of travelling waves in a model for conical flames in two space dimensions. Annales Scientifiques De L'Ecole Normale Supérieure, 2004, 37, 469-506.	0.8	54
58	Front propagation in periodic excitable media. Communications on Pure and Applied Mathematics, 2002, 55, 949-1032.	3.1	290
59	Travelling Fronts and Entire Solutions of the Fisher-KPP Equation in \mathbb{N} . Archive for Rational Mechanics and Analysis, 2001, 157, 91-163.	2.4	181
60	Existence of Nonplanar Solutions of a Simple Model of Premixed Bunsen Flames. SIAM Journal on Mathematical Analysis, 1999, 31, 80-118.	1.9	61
61	Formules min-max pour les vitesses d'ondes progressives multidimensionnelles. Annales De La Faculté Des Sciences De Toulouse, 1999, 8, 259-280.	0.3	23
62	Reaction-diffusion problems in cylinders with no invariance by translation. Part II: Monotone perturbations. Annales De L'Institut Henri Poincaré (C) Analyse Non Linéaire, 1997, 14, 555-596.	1.4	17
63	Reaction-diffusion problems in cylinders with no invariance by translation. Part I: Small perturbations. Annales De L'Institut Henri Poincaré (C) Analyse Non Linéaire, 1997, 14, 457-498.	1.4	10