Jose A Langa

List of Publications by Year
in descending order

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108 papers	2,533 citations	172386 29 h-index	223716 46 g-index
117 all docs	117 docs citations	117 times ranked	574 citing authors

#	Article	IF	Citations
1	Nonautonomous Perturbations of Morseâ€“Smale Semigroups: Stability of the Phase Diagram. Journal of Dynamics and Differential Equations, 2022, 34, 2681-2747.	1.0	3
2	Finite-dimensional negatively invariant subsets of Banach spaces. Journal of Mathematical Analysis and Applications, 2022, 509, 125945.	0.5	1
3	Finite-Dimensionality of Tempered Random Uniform Attractors. Journal of Nonlinear Science, 2022, 32, 1.	1.0	6
4	Global structural stability and the role of cooperation in mutualistic systems. PLoS ONE, 2022, 17, e0267404.	1.1	3
5	Structure of non-autonomous attractors for a class of diffusively coupled ODE. Discrete and Continuous Dynamical Systems - Series B, 2022, .	0.5	0
6	Smoothing and finite-dimensionality of uniform attractors in Banach spaces. Journal of Differential Equations, 2021, 285, 383-428.	1.1	8
7	Permanence of nonuniform nonautonomous hyperbolicity for infinite-dimensional differential equations. Asymptotic Analysis, 2021, , 1-27.	0.2	0
8	The effect of a small bounded noise on the hyperbolicity for autonomous semilinear differential equations. Journal of Mathematical Analysis and Applications, 2021, 500, 125134.	0.5	3
9	Capturing the non-stationarity of whole-brain dynamics underlying human brain states. NeuroImage, 2021, 244, 118551.	2.1	13
10	Extremal bounded complete trajectories for nonautonomous reactionâ€“diffusion equations with discontinuous forcing term. Revista Matematica Complutense, 2020, 33, 583-617.	0.7	6
11	Forwards attraction properties in scalar non-autonomous linearâ€“dissipative parabolic PDEs. The case of null upper Lyapunov exponent. Nonlinearity, 2020, 33, 4277-4309.	0.6	3
12	Preface to the special issue in honour of Prof. TomÃ¡s Caraballo on ocassion of his 60th birthday. Communications on Pure and Applied Analysis, 2020, 19, â…°-â…µ.	0.4	0
13	Forwards dynamics of non-autonomous dynamical systems: Driving semigroups without backwards uniqueness and structure of the attractor. Communications on Pure and Applied Analysis, 2020, 19, 1997-2013.	0.4	1
14	Informational Structures and Informational Fields as a Prototype for the Description of Postulates of the Integrated Information Theory. Entropy, 2019, 21, 493.	1.1	10
15	Fractal dimension analysis of states of consciousness and unconsciousness using transcranial magnetic stimulation. Computer Methods and Programs in Biomedicine, 2019, 175, 129-137.	2.6	31
16	Micropolar meets Newtonian. The Rayleighâ€“BÃ©nard problem. Physica D: Nonlinear Phenomena, 2019, 392, 57-80.	1.3	21
17	Topological Structural Stability of Partial Differential Equations on Projected Spaces. Journal of Dynamics and Differential Equations, 2018, 30, 687-718.	1.0	3
18	Attractors for Multi-valued Non-autonomous Dynamical Systems: Relationship, Characterization and Robustness. Set-Valued and Variational Analysis, 2018, 26, 493-530.	0.5	9

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19	Continuity of non-autonomous attractors for hyperbolic perturbation of parabolic equations. Journal of Differential Equations, 2018, 264, 1886-1945.	1.1	21
20	Measurability of Random Attractors for Quasi Strong-to-Weak Continuous Random Dynamical Systems. Journal of Dynamics and Differential Equations, 2018, 30, 1873-1898.	1.0	52
21	Porous elastic system with nonlinear damping and sources terms. Journal of Differential Equations, 2018, 264, 2970-3051.	1.1	19
22	Informational structures: A dynamical system approach for integrated information. PLoS Computational Biology, 2018, 14, e1006154.	1.5	22
23	Global and cocycle attractors for non-autonomous reaction-diffusion equations. The case of null upper Lyapunov exponent. Journal of Differential Equations, 2018, 265, 3914-3951.	1.1	10
24	Squeezing and finite dimensionality of cocycle attractors for 2D stochastic Navier-Stokes equation with non-autonomous forcing. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 1297-1324.	0.5	6
25	Uniform attractors for non-autonomous random dynamical systems. Journal of Differential Equations, 2017, 263, 1225-1268.	1.1	50
26	Pullback, forward and chaotic dynamics in 1D non-autonomous linear-dissipative equations. Nonlinearity, 2017, 30, 274-299.	0.6	12
27	Architecture of attractor determines dynamics on mutualistic complex networks. Nonlinear Analysis: Real World Applications, 2017, 34, 17-40.	0.9	12
28	On random cocycle attractors with autonomous attraction universes. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 3379-3407.	0.5	7
29	Regularity and structure of pullback attractors for reactionâ€“diffusion type systems without uniqueness. Nonlinear Analysis: Theory, Methods & Applications, 2016, 140, 208-235.	0.6	33
30	Characterization of Cocycle Attractors for Nonautonomous Reactionâ€“Diffusion Equations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650135.	0.7	3
31	Attracting Complex Networks. Lecture Notes in Economics and Mathematical Systems, 2016, , 309-327.	0.3	6
32	Equi-attraction and continuity of attractors for skew-product semiflows. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 2949-2967.	0.5	5
33	Structure of the pullback attractor for a non-autonomous scalar differential inclusion. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 979-994.	0.6	3
34	Non-autonomous dynamical systems. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 703-747.	0.5	19
35	Morse decomposition of global attractors with infinite components. Discrete and Continuous Dynamical Systems, 2015, 35, 2845-2861.	0.5	2
36	Structure of attractors for skew product semiflows. Journal of Differential Equations, 2014, 257, 490-522.	1.1	31

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37	Biodiversity and vulnerability in a 3D mutualistic system. Discrete and Continuous Dynamical Systems, 2014, 34, 4107-4126.	0.5	2
38	Skew product semiflows and Morse decomposition. Journal of Differential Equations, 2013, 255, 2436-2462.	1.1	17
39	Random attractors for stochastic 2D-Navierâ€“Stokes equations in some unbounded domains. Journal of Differential Equations, 2013, 255, 3897-3919.	1.1	40
40	Attractors for infinite-dimensional non-autonomous dynamical systems. Applied Mathematical Sciences (Switzerland), 2013, , .	0.4	257
41	Continuity of attractors. Applied Mathematical Sciences (Switzerland), 2013, , 55-70.	0.4	0
42	Gradient semigroups and their dynamical properties. Applied Mathematical Sciences (Switzerland), 2013, , 103-139.	0.4	0
43	Applications to parabolic problems. Applied Mathematical Sciences (Switzerland), 2013, , 301-315.	0.4	0
44	A non-autonomous Chafeeâ€“Infante equation. Applied Mathematical Sciences (Switzerland), 2013, , 317-338.	0.4	0
45	Perturbation of diffusion and continuity of global attractors with rate of convergence. Applied Mathematical Sciences (Switzerland), 2013, , 339-359.	0.4	0
46	A non-autonomous damped wave equation. Applied Mathematical Sciences (Switzerland), 2013, , 361-376.	0.4	0
47	Appendix: Skew-product flows and the uniform attractor. Applied Mathematical Sciences (Switzerland), 2013, , 377-391.	0.4	0
48	The pullback attractor. Applied Mathematical Sciences (Switzerland), 2013, , 3-22.	0.4	6
49	Non-autonomous Morse-decomposition and Lyapunov functions for gradient-like processes. Transactions of the American Mathematical Society, 2013, 365, 5277-5312.	0.5	14
50	Morse Decomposition of Attractors for Non-autonomous Dynamical Systems. Advanced Nonlinear Studies, 2013, 13, 309-329.	0.7	19
51	Gradient Infinite-Dimensional Random Dynamical Systems. SIAM Journal on Applied Dynamical Systems, 2012, 11, 1817-1847.	0.7	7
52	Continuity of Dynamical Structures for Nonautonomous Evolution Equations Under Singular Perturbations. Journal of Dynamics and Differential Equations, 2012, 24, 427-481.	1.0	9
53	Structure and bifurcation of pullback attractors in a non-autonomous Chafee-Infante equation. Proceedings of the American Mathematical Society, 2012, 140, 2357-2373.	0.4	18
54	An estimate on the fractal dimension of attractors of gradient-like dynamical systems. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 5702-5722.	0.6	3

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55	Stability of gradient semigroups under perturbations. Nonlinearity, 2011, 24, 2099-2117.	0.6	41
56	A non-autonomous strongly damped wave equation: Existence and continuity of the pullback attractor. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 2272-2283.	0.6	26
57	Existence of pullback attractors for pullback asymptotically compact processes. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 1967-1976.	0.6	56
58	On the long time behavior of non-autonomous Lotkaâ€“Volterra models with diffusion via the sub-supertrajectory method. Journal of Differential Equations, 2010, 249, 414-445.	1.1	15
59	Finite-dimensional global attractors in Banach spaces. Journal of Differential Equations, 2010, 249, 3099-3109.	1.1	6
60	A GRADIENT-LIKE NONAUTONOMOUS EVOLUTION PROCESS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2751-2760.	0.7	12
61	The sub-supertrajectory method. Application to the nonautonomous competition Lotka-Volterra model. BoletÃn De La Sociedad EspaÃ‘ola De MatemÃ¡tica Aplicada, 2010, 51, 91-98.	0.9	0
62	Pullback exponential attractors. Discrete and Continuous Dynamical Systems, 2010, 26, 1329-1357.	0.5	41
63	Lower semicontinuity of attractors for non-autonomous dynamical systems. Ergodic Theory and Dynamical Systems, 2009, 29, 1765-1780.	0.4	24
64	On the continuity of pullback attractors for evolution processes. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 1812-1824.	0.6	32
65	An extension of the concept of gradient semigroups which is stable under perturbation. Journal of Differential Equations, 2009, 246, 2646-2668.	1.1	54
66	On the asymptotic behaviour of solutions of a stochastic energy balance climate model. Physica D: Nonlinear Phenomena, 2009, 238, 880-887.	1.3	9
67	Permanence and Asymptotically Stable Complete Trajectories for Nonautonomous Lotkaâ€“Volterra Models with Diffusion. SIAM Journal on Mathematical Analysis, 2009, 40, 2179-2216.	0.9	25
68	MARKOV ATTRACTORS: A PROBABILISTIC APPROACH TO MULTIVALUED FLOWS. Stochastics and Dynamics, 2008, 08, 59-75.	0.6	7
69	Stabilisation of differential inclusions and PDEs without uniqueness by noise. Communications on Pure and Applied Analysis, 2008, 7, 1375-1392.	0.4	5
70	Flattening, squeezing and the existence of random attractors. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 163-181.	1.0	156
71	Finite fractal dimension of pullback attractors for non-autonomous 2D Navierâ€“Stokes equations in some unbounded domains. Nonlinear Analysis: Theory, Methods & Applications, 2007, 66, 735-749.	0.6	28
72	Non-autonomous perturbation of autonomous semilinear differential equations: Continuity of local stable and unstable manifolds. Journal of Differential Equations, 2007, 233, 622-653.	1.1	50

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73	The stability of attractors for non-autonomous perturbations of gradient-like systems. Journal of Differential Equations, 2007, 234, 607-625.	1.1	19
74	Characterization of non-autonomous attractors of a perturbed infinite-dimensional gradient system. Journal of Differential Equations, 2007, 236, 570-603.	1.1	55
75	Pullback V-attractors of the 3-dimensional globally modified Navier-Stokes equations. Communications on Pure and Applied Analysis, 2007, 6, 937-955.	0.4	27
76	Fractal dimension of a random invariant set. Journal Des Mathematiques Pures Et Appliquees, 2006, 85, 269-294.	0.8	37
77	Bifurcations in non-autonomous scalar equations. Journal of Differential Equations, 2006, 221, 1-35.	1.1	35
78	The effect of noise on the Chafee-Infante equation: A nonlinear case study. Proceedings of the American Mathematical Society, 2006, 135, 373-382.	0.4	40
79	Addendum to â€œGlobal attractors for multivalued random dynamical systemsâ€•[Nonlinear Analysis 48 (2002) 805â€“829]. Nonlinear Analysis: Theory, Methods & Applications, 2005, 61, 277-279.	0.6	2
80	Existence of invariant manifolds for coupled parabolic and hyperbolic stochastic partial differential equations. Nonlinearity, 2005, 18, 747-767.	0.6	30
81	BIFURCATION FROM ZERO OF A COMPLETE TRAJECTORY FOR NONAUTONOMOUS LOGISTIC PDES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2663-2669.	0.7	9
82	Asymptotic behaviour of monotone multi-valued dynamical systems. Dynamical Systems, 2005, 20, 301-321.	0.2	7
83	SEMIMARTINGALE ATTRACTORS FOR ALLENâ€“CAHN SPDEs DRIVEN BY SPACEâ€“TIME WHITE NOISE I: EXISTENCE AND FINITE DIMENSIONAL ASYMPTOTIC BEHAVIOR. Stochastics and Dynamics, 2004, 04, 223-244.	0.6	4
84	FINITE DIMENSIONALITY OF ATTRACTORS FOR NON-AUTONOMOUS DYNAMICAL SYSTEMS GIVEN BY PARTIAL DIFFERENTIAL EQUATIONS. Stochastics and Dynamics, 2004, 04, 385-404.	0.6	31
85	Pullback Attractors of Nonautonomous and Stochastic Multivalued Dynamical Systems. Set-Valued and Variational Analysis, 2003, 11, 153-201.	0.5	116
86	Asymptotically finite dimensional pullback behaviour of non-autonomous PDEs. Archiv Der Mathematik, 2003, 80, 525-535.	0.3	4
87	Existence and Regularity of the Pressure for the Stochastic Navier?Stokes Equations. Applied Mathematics and Optimization, 2003, 48, 195-210.	0.8	34
88	Pullback permanence in a non-autonomous competitive Lotkaâ€“Volterra model. Journal of Differential Equations, 2003, 190, 214-238.	1.1	8
89	Semimartingale attractors for generalized Allenâ€“Cahn SPDEs driven by spaceâ€“time white noise. Comptes Rendus Mathematique, 2003, 337, 201-206.	0.1	1
90	On the Relationship Between Solutions of Stochastic and Random Differential Inclusions. Stochastic Analysis and Applications, 2003, 21, 545-557.	0.9	4

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91	Forwards and pullback behaviour of a non-autonomous Lotkaâ€“Volterra system. Nonlinearity, 2003, 16, 1277-1293.	0.6	17
92	The dimension of attractors of nonautonomous partial differential equations. ANZIAM Journal, 2003, 45, 207-222.	0.3	31
93	Finite-dimensional limiting dynamics of random dynamical systems. Dynamical Systems, 2003, 18, 57-68.	0.2	18
94	Stability, instability, and bifurcation phenomena in non-autonomous differential equations. Nonlinearity, 2002, 15, 887-903.	0.6	83
95	The Exponential Behaviour and Stabilizability of Stochastic 2D-Navierâ€“Stokes Equations. Journal of Differential Equations, 2002, 179, 714-737.	1.1	57
96	Global attractors for multivalued random dynamical systems. Nonlinear Analysis: Theory, Methods & Applications, 2002, 48, 805-829.	0.6	42
97	On the Theory of Random Attractors and Some Open Problems. Lecture Notes in Pure and Applied Mathematics, 2002, , .	0.1	2
98	A stochastic pitchfork bifurcation in a reaction-diffusion equation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 2041-2061.	1.0	67
99	Global attractors for multivalued random semiflows generated by random differential inclusions with additive noise. Comptes Rendus Mathematique, 2001, 332, 131-136.	0.5	6
100	Attractors for Differential Equations with Variable Delays. Journal of Mathematical Analysis and Applications, 2001, 260, 421-438.	0.5	48
101	Global Attractors for Multivalued Random Dynamical Systems Generated by Random Differential Inclusions with Multiplicative Noise. Journal of Mathematical Analysis and Applications, 2001, 260, 602-622.	0.5	34
102	COMPARISON OF THE LONG-TIME BEHAVIOR OF LINEAR ITO AND STRATONOVICH PARTIAL DIFFERENTIAL EQUATIONS. Stochastic Analysis and Applications, 2001, 19, 183-195.	0.9	22
103	A finite number of point observations which determine a non-autonomous fluid flow. Nonlinearity, 2001, 14, 673-682.	0.6	12
104	Stability and random attractors for a reaction-diffusion equation with multiplicative noise. Discrete and Continuous Dynamical Systems, 2000, 6, 875-892.	0.5	67
105	Determining Asymptotic Behavior from the Dynamics on Attracting Sets. Journal of Dynamics and Differential Equations, 1999, 11, 319-331.	1.0	9
106	Tracking properties of trajectories on random attracting Sets. Stochastic Analysis and Applications, 1999, 17, 339-358.	0.9	10
107	Determining modes for dissipative random dynamical systems. Stochastic and Stochastics Reports, 1999, 66, 1-25.	0.6	9
108	Upper semicontinuity of attractors for small random perturbations of dynamical systems. Communications in Partial Differential Equations, 1998, 23, 1557-1581.	1.0	114