Alexandre Carvalho

List of Publications by Year
in descending order

105 papers	2,530 citations	201575 27 h-index	214721 47 g-index
112 all docs	112 docs citations	112 times ranked	486 citing authors

#	Article	IF	Citations
1	Nonautonomous Perturbations of Morse–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	Structure of non-autonomous attractors for a class of diffusively coupled ODE. Discrete and Continuous Dynamical Systems - Series B, 2022, .	0.5	0
4	Well-posedness for some third-order evolution differential equations: a semigroup approach. Journal of Evolution Equations, 2022, 22, .	0.6	1
5	About the Structure of Attractors for a Nonlocal Chafee-Infante Problem. Mathematics, 2021, 9, 353.	1.1	4
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	Stability and hyperbolicity of equilibria for a scalar nonlocal one-dimensional quasilinear parabolic problem. Journal of Differential Equations, 2021, 300, 312-336.	1.1	2
10	Lipschitz perturbations of Morse-Smale semigroups. Journal of Differential Equations, 2020, 269, 1904-1943.	1.1	11
11	Limiting grow-up behavior for a one-parameter family of dissipative PDEs. Indiana University Mathematics Journal, 2020, 69, 657-683.	0.4	1
12	A non-autonomous bifurcation problem for a non-local scalar one-dimensional parabolic equation. Communications on Pure and Applied Analysis, 2020, 19, 5181-5196.	0.4	5
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	Autonomous and non-autonomous unbounded attractors under perturbations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2019, 149, 877-903.	0.8	5
15	A non-autonomous scalar one-dimensional dissipative parabolic problem: the description of the dynamics. Nonlinearity, 2019, 32, 4912-4941.	0.6	2
16	Robustness of dynamically gradient multivalued dynamical systems. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 1049-1077.	0.5	2
17	Fractional Schrödinger equation; solvability and connection with classical Schrödinger equation. Journal of Mathematical Analysis and Applications, 2018, 457, 336-360.	0.5	12
18	NLS-like equations in bounded domains: Parabolic approximation procedure. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 57-77.	0.5	0

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19	Parabolic approximation of damped wave equations via fractional powers: Fast growing nonlinearities and continuity of the dynamics. Journal of Mathematical Analysis and Applications, 2017, 450, 377-405.	0.5	20
20	Rate of convergence of attractors for singularly perturbed semilinear problems. Journal of Mathematical Analysis and Applications, 2017, 452, 258-296.	0.5	9
21	Fractional approximations of abstract semilinear parabolic problems. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 0-0.	0.5	2
22	On the continuation of solutions of non-autonomous semilinear parabolic problems. Proceedings of the Edinburgh Mathematical Society, 2016, 59, 17-55.	0.2	2
23	Equi-attraction and continuity of attractors for skew-product semiflows. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 2949-2967.	0.5	5
24	Non-autonomous dynamical systems. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 703-747.	0.5	19
25	Global attractors for impulsive dynamical systems â€" a precompact approach. Journal of Differential Equations, 2015, 259, 2602-2625.	1.1	32
26	Semilinear fractional differential equations: global solutions, critical nonlinearities and comparison results. Topological Methods in Nonlinear Analysis, 2015, 45, 439.	0.2	29
27	Equi-exponential attraction and rate of convergence of attractors with application to a perturbed damped wave equation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2014, 144, 13-51.	0.8	3
28	Pullback exponential attractors for evolution processes in Banach spaces: Properties and applications. Communications on Pure and Applied Analysis, 2014, 13, 1141-1165.	0.4	20
29	Structure of attractors for skew product semiflows. Journal of Differential Equations, 2014, 257, 490-522.	1.1	31
30	Skew product semiflows and Morse decomposition. Journal of Differential Equations, 2013, 255, 2436-2462.	1.1	17
31	Attractors for infinite-dimensional non-autonomous dynamical systems. Applied Mathematical Sciences (Switzerland), 2013, , .	0.4	257
32	Continuity of attractors. Applied Mathematical Sciences (Switzerland), 2013, , 55-70.	0.4	0
33	Gradient semigroups and their dynamical properties. Applied Mathematical Sciences (Switzerland), 2013, , 103-139.	0.4	0
34	Semilinear differential equations. Applied Mathematical Sciences (Switzerland), 2013, , 143-186.	0.4	0
35	Applications to parabolic problems. Applied Mathematical Sciences (Switzerland), 2013, , 301-315.	0.4	0
36	A non-autonomous Chafeeâ€"Infante equation. Applied Mathematical Sciences (Switzerland), 2013, , 317-338.	0.4	0

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37	Perturbation of diffusion and continuity of global attractors with rate of convergence. Applied Mathematical Sciences (Switzerland), 2013, , 339-359.	0.4	0
38	A non-autonomous damped wave equation. Applied Mathematical Sciences (Switzerland), 2013, , 361-376.	0.4	0
39	Appendix: Skew-product flows and the uniform attractor. Applied Mathematical Sciences (Switzerland), 2013, , 377-391.	0.4	0
40	Reduction of Infinite Dimensional Systems to Finite Dimensions: Compact Convergence Approach. SIAM Journal on Mathematical Analysis, 2013, 45, 600-638.	0.9	8
41	The pullback attractor. Applied Mathematical Sciences (Switzerland), 2013, , 3-22.	0.4	6
42	The Navierâ€"Stokes equations with non-autonomous forcing. Applied Mathematical Sciences (Switzerland), 2013, , 281-300.	0.4	0
43	Pullback exponential attractors for evolution processes in Banach spaces: Theoretical results. Communications on Pure and Applied Analysis, 2013, 12, 3047-3071.	0.4	39
44	Non-autonomous Morse-decomposition and Lyapunov functions for gradient-like processes. Transactions of the American Mathematical Society, 2013, 365, 5277-5312.	0.5	14
45	Continuity of Dynamical Structures for Nonautonomous Evolution Equations Under Singular Perturbations. Journal of Dynamics and Differential Equations, 2012, 24, 427-481.	1.0	9
46	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
47	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
48	Stability of gradient semigroups under perturbations. Nonlinearity, 2011, 24, 2099-2117.	0.6	41
49	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
50	Semilinear parabolic problems in thin domains with a highly oscillatory boundary. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 5111-5132.	0.6	62
51	Exponential global attractors for semigroups in metric spaces with applications to differential equations. Ergodic Theory and Dynamical Systems, 2011, 31, 1641-1667.	0.4	7
52	Existence of pullback attractors for pullback asymptotically compact processes. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 1967-1976.	0.6	56
53	Finite-dimensional global attractors in Banach spaces. Journal of Differential Equations, 2010, 249, 3099-3109.	1.1	6
54	A GRADIENT-LIKE NONAUTONOMOUS EVOLUTION PROCESS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2751-2760.	0.7	12

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55	Local well posedness, asymptotic behavior and asymptotic bootstrapping for a class of semilinear evolution equations of the second order in time. Transactions of the American Mathematical Society, 2009, 361, 2567-2586.	0.5	20
56	Lower semicontinuity of attractors for non-autonomous dynamical systems. Ergodic Theory and Dynamical Systems, 2009, 29, 1765-1780.	0.4	24
57	On the continuity of pullback attractors for evolution processes. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 1812-1824.	0.6	32
58	Dynamics in dumbbell domains III. Continuity of attractors. Journal of Differential Equations, 2009, 247, 225-259.	1.1	38
59	An extension of the concept of gradient semigroups which is stable under perturbation. Journal of Differential Equations, 2009, 246, 2646-2668.	1.1	54
60	Dynamics in dumbbell domains II. The limiting problem. Journal of Differential Equations, 2009, 247, 174-202.	1.1	39
61	Continuity of the dynamics in a localized large diffusion problem with nonlinear boundary conditions. Journal of Mathematical Analysis and Applications, 2009, 356, 69-85.	0.5	3
62	Singularly non-autonomous semilinear parabolic problems with critical exponents. Discrete and Continuous Dynamical Systems - Series S, 2009, 2, 449-471.	0.6	9
63	Damped wave equations with fast growing dissipative nonlinearities. Discrete and Continuous Dynamical Systems, 2009, 24, 1147-1165.	0.5	25
64	Non-autonomous semilinear evolution equations with almost sectorial operators. Journal of Evolution Equations, 2008, 8, 631-659.	0.6	26
65	Strongly damped wave problems: Bootstrapping and regularity of solutions. Journal of Differential Equations, 2008, 244, 2310-2333.	1.1	50
66	Regularity of solutions on the global attractor for a semilinear damped wave equation. Journal of Mathematical Analysis and Applications, 2008, 337, 932-948.	0.5	13
67	Dynamics of the viscous Cahnâ€"Hilliard equation. Journal of Mathematical Analysis and Applications, 2008, 344, 703-725.	0.5	26
68	Continuity of attractors for parabolic problems with localized large diffusion. Nonlinear Analysis: Theory, Methods & Applications, 2008, 68, 515-535.	0.6	13
69	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
70	Characterization of non-autonomous attractors of a perturbed infinite-dimensional gradient system. Journal of Differential Equations, 2007, 236, 570-603.	1.1	55
71	Patterns in parabolic problems with nonlinear boundary conditions. Journal of Mathematical Analysis and Applications, 2007, 325, 1216-1239.	0.5	5
72	Upper semicontinuity of attractors for the discretization of strongly damped wave equations. Matematica Contemporanea, 2007, 32, .	0.0	0

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73	Dynamics in dumbbell domains I. Continuity of the set of equilibria. Journal of Differential Equations, 2006, 231, 551-597.	1.1	60
74	Uniform Exponential Dichotomy and Continuity of Attractors for Singularly Perturbed Damped Wave Equations. Journal of Dynamics and Differential Equations, 2006, 18, 767-814.	1.0	28
75	A General Approximation Scheme for Attractors of Abstract Parabolic Problems. Numerical Functional Analysis and Optimization, 2006, 27, 785-829.	0.6	58
76	Continuation and asymptotics of solutions to semilinear parabolic equations with critical nonlinearities. Journal of Mathematical Analysis and Applications, 2005, 310, 557-578.	0.5	20
77	Spectral convergence and nonlinear dynamics of reaction–diffusion equations under perturbations of the domain. Journal of Differential Equations, 2004, 199, 143-178.	1.1	76
78	Spatial homogeneity in parabolic problems with nonlinear boundary conditions. Communications on Pure and Applied Analysis, 2004, 3, 637-651.	0.4	5
79	Partly dissipative systems in uniformly local spaces. Colloquium Mathematicum, 2004, 100, 221-242.	0.2	16
80	Asymptotic behaviour of non-linear parabolic equations with monotone principal part. Journal of Mathematical Analysis and Applications, 2003, 280, 252-272.	0.5	48
81	Local well posedness for strongly damped wave equations with critical nonlinearities. Bulletin of the Australian Mathematical Society, 2002, 66, 443-463.	0.3	81
82	Attractors for strongly damped wave equations with critical nonlinearities. Pacific Journal of Mathematics, 2002, 207, 287-310.	0.2	88
83	Comparison Results for Nonlinear Parabolic Equations with Monotone Principal Part. Journal of Mathematical Analysis and Applications, 2001, 259, 319-337.	0.5	15
84	Abstract parabolic problems in ordered Banach spaces. Colloquium Mathematicum, 2001, 90, 1-17.	0.2	6
85	Upper Semicontinuity for Attractors of Parabolic Problems with Localized Large Diffusion and Nonlinear Boundary Conditions. Journal of Differential Equations, 2000, 168, 33-59.	1.1	37
86	The Dynamics of a One-Dimensional Parabolic Problem versus the Dynamics of Its Discretization. Journal of Differential Equations, 2000, 168, 67-92.	1.1	8
87	Attractors of parabolic problems with nonlinear boundary conditions. uniform bounds. Communications in Partial Differential Equations, 2000, 25, 1-37.	1.0	104
88	Abstract parabolic problems with critical nonlinearities and applications to Navier-Stokes and heat equations. Transactions of the American Mathematical Society, 1999, 352, 285-310.	0.5	104
89	Perturbation of the diffusion and upper semicontinuity of attractors. Applied Mathematics Letters, 1999, 12, 37-42.	1.5	5
90	Parabolic Problems with Nonlinear Boundary Conditions and Critical Nonlinearities. Journal of Differential Equations, 1999, 156, 376-406.	1.1	97

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91	Upper Semicontinuity of Attractors and Synchronization. Journal of Mathematical Analysis and Applications, 1998, 220, 13-41.	0.5	50
92	Critical nonlinearities at the boundary. Comptes Rendus Mathematique, 1998, 327, 353-358.	0.5	3
93	Parabolic problems in H1 with fast growing nonlinearities. Nonlinear Analysis: Theory, Methods & Applications, 1998, 33, 391-399.	0.6	2
94	Examples of global attractors in parabolic problems. Hokkaido Mathematical Journal, 1998, 27, 77.	0.2	8
95	Reaction-diffusion problems in cell tissues. Journal of Dynamics and Differential Equations, 1997, 9, 93-131.	1.0	4
96	Attractors for Parabolic Problems with Nonlinear Boundary Conditions. Journal of Mathematical Analysis and Applications, 1997, 207, 409-461.	0.5	40
97	Infinite Dimensional Dynamics Described by Ordinary Differential Equations. Journal of Differential Equations, 1995, 116, 338-404.	1.1	19
98	Contracting sets and dissipation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1995, 125, 1305-1329.	0.8	16
99	Global Attractors for Parabolic Problems in Fractional Power Spaces. SIAM Journal on Mathematical Analysis, 1995, 26, 415-427.	0.9	9
100	A Scalar Parabolic Equation Whose Asymptotic Behavior Is Dictated by a System of Ordinary Differential Equations. Journal of Differential Equations, 1994, 112, 81-130.	1.1	19
101	Delay-partial differential equations with some large diffusion. Nonlinear Analysis: Theory, Methods & Applications, 1994, 22, 1057-1095.	0.6	10
102	A damped hyerbolic equation with critical exponent. Communications in Partial Differential Equations, 1992, 17, 841-866.	1.0	156
103	Large diffusion with dispersion. Nonlinear Analysis: Theory, Methods & Applications, 1991, 17, 1139-1151.	0.6	27
104	Parabolic equations with localized large diffusion: Rate of convergence of attractors. Topological Methods in Nonlinear Analysis, 0, , 1.	0.2	5
105	Strongly damped wave equation and its Yosida approximations. Topological Methods in Nonlinear Analysis, 0, , 1.	0.2	2