

Alexandre Carvalho

List of Publications by Year in descending order

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105
papers

2,530
citations

201575

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214721

47
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112
all docs

112
docs citations

112
times ranked

486
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Attractors for infinite-dimensional non-autonomous dynamical systems. Applied Mathematical Sciences (Switzerland), 2013, , . | 0.4 | 257 |
| 2 | A damped hyperbolic equation with critical exponent. Communications in Partial Differential Equations, 1992, 17, 841-866. | 1.0 | 156 |
| 3 | 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 |
| 4 | Attractors of parabolic problems with nonlinear boundary conditions. uniform bounds. Communications in Partial Differential Equations, 2000, 25, 1-37. | 1.0 | 104 |
| 5 | Parabolic Problems with Nonlinear Boundary Conditions and Critical Nonlinearities. Journal of Differential Equations, 1999, 156, 376-406. | 1.1 | 97 |
| 6 | Attractors for strongly damped wave equations with critical nonlinearities. Pacific Journal of Mathematics, 2002, 207, 287-310. | 0.2 | 88 |
| 7 | Local well posedness for strongly damped wave equations with critical nonlinearities. Bulletin of the Australian Mathematical Society, 2002, 66, 443-463. | 0.3 | 81 |
| 8 | 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 |
| 9 | Semilinear parabolic problems in thin domains with a highly oscillatory boundary. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 5111-5132. | 0.6 | 62 |
| 10 | Dynamics in dumbbell domains I. Continuity of the set of equilibria. Journal of Differential Equations, 2006, 231, 551-597. | 1.1 | 60 |
| 11 | A General Approximation Scheme for Attractors of Abstract Parabolic Problems. Numerical Functional Analysis and Optimization, 2006, 27, 785-829. | 0.6 | 58 |
| 12 | Existence of pullback attractors for pullback asymptotically compact processes. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 1967-1976. | 0.6 | 56 |
| 13 | Characterization of non-autonomous attractors of a perturbed infinite-dimensional gradient system. Journal of Differential Equations, 2007, 236, 570-603. | 1.1 | 55 |
| 14 | An extension of the concept of gradient semigroups which is stable under perturbation. Journal of Differential Equations, 2009, 246, 2646-2668. | 1.1 | 54 |
| 15 | Upper Semicontinuity of Attractors and Synchronization. Journal of Mathematical Analysis and Applications, 1998, 220, 13-41. | 0.5 | 50 |
| 16 | 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 |
| 17 | Strongly damped wave problems: Bootstrapping and regularity of solutions. Journal of Differential Equations, 2008, 244, 2310-2333. | 1.1 | 50 |
| 18 | Asymptotic behaviour of non-linear parabolic equations with monotone principal part. Journal of Mathematical Analysis and Applications, 2003, 280, 252-272. | 0.5 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Stability of gradient semigroups under perturbations. <i>Nonlinearity</i> , 2011, 24, 2099-2117. | 0.6 | 41 |
| 20 | Attractors for Parabolic Problems with Nonlinear Boundary Conditions. <i>Journal of Mathematical Analysis and Applications</i> , 1997, 207, 409-461. | 0.5 | 40 |
| 21 | Dynamics in dumbbell domains II. The limiting problem. <i>Journal of Differential Equations</i> , 2009, 247, 174-202. | 1.1 | 39 |
| 22 | Pullback exponential attractors for evolution processes in Banach spaces: Theoretical results. <i>Communications on Pure and Applied Analysis</i> , 2013, 12, 3047-3071. | 0.4 | 39 |
| 23 | Dynamics in dumbbell domains III. Continuity of attractors. <i>Journal of Differential Equations</i> , 2009, 247, 225-259. | 1.1 | 38 |
| 24 | Upper Semicontinuity for Attractors of Parabolic Problems with Localized Large Diffusion and Nonlinear Boundary Conditions. <i>Journal of Differential Equations</i> , 2000, 168, 33-59. | 1.1 | 37 |
| 25 | On the continuity of pullback attractors for evolution processes. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009, 71, 1812-1824. | 0.6 | 32 |
| 26 | Global attractors for impulsive dynamical systems – a precompact approach. <i>Journal of Differential Equations</i> , 2015, 259, 2602-2625. | 1.1 | 32 |
| 27 | Structure of attractors for skew product semiflows. <i>Journal of Differential Equations</i> , 2014, 257, 490-522. | 1.1 | 31 |
| 28 | Semilinear fractional differential equations: global solutions, critical nonlinearities and comparison results. <i>Topological Methods in Nonlinear Analysis</i> , 2015, 45, 439. | 0.2 | 29 |
| 29 | Uniform Exponential Dichotomy and Continuity of Attractors for Singularly Perturbed Damped Wave Equations. <i>Journal of Dynamics and Differential Equations</i> , 2006, 18, 767-814. | 1.0 | 28 |
| 30 | Large diffusion with dispersion. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1991, 17, 1139-1151. | 0.6 | 27 |
| 31 | Non-autonomous semilinear evolution equations with almost sectorial operators. <i>Journal of Evolution Equations</i> , 2008, 8, 631-659. | 0.6 | 26 |
| 32 | Dynamics of the viscous Cahn–Hilliard equation. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 344, 703-725. | 0.5 | 26 |
| 33 | A non-autonomous strongly damped wave equation: Existence and continuity of the pullback attractor. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011, 74, 2272-2283. | 0.6 | 26 |
| 34 | Damped wave equations with fast growing dissipative nonlinearities. <i>Discrete and Continuous Dynamical Systems</i> , 2009, 24, 1147-1165. | 0.5 | 25 |
| 35 | Lower semicontinuity of attractors for non-autonomous dynamical systems. <i>Ergodic Theory and Dynamical Systems</i> , 2009, 29, 1765-1780. | 0.4 | 24 |
| 36 | Continuation and asymptotics of solutions to semilinear parabolic equations with critical nonlinearities. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 310, 557-578. | 0.5 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Infinite Dimensional Dynamics Described by Ordinary Differential Equations. Journal of Differential Equations, 1995, 116, 338-404. | 1.1 | 19 |
| 42 | Non-autonomous dynamical systems. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 703-747. | 0.5 | 19 |
| 43 | 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 |
| 44 | Skew product semiflows and Morse decomposition. Journal of Differential Equations, 2013, 255, 2436-2462. | 1.1 | 17 |
| 45 | Contracting sets and dissipation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1995, 125, 1305-1329. | 0.8 | 16 |
| 46 | Partly dissipative systems in uniformly local spaces. Colloquium Mathematicum, 2004, 100, 221-242. | 0.2 | 16 |
| 47 | Comparison Results for Nonlinear Parabolic Equations with Monotone Principal Part. Journal of Mathematical Analysis and Applications, 2001, 259, 319-337. | 0.5 | 15 |
| 48 | Non-autonomous Morse-decomposition and Lyapunov functions for gradient-like processes. Transactions of the American Mathematical Society, 2013, 365, 5277-5312. | 0.5 | 14 |
| 49 | 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 |
| 50 | Continuity of attractors for parabolic problems with localized large diffusion. Nonlinear Analysis: Theory, Methods & Applications, 2008, 68, 515-535. | 0.6 | 13 |
| 51 | A GRADIENT-LIKE NONAUTONOMOUS EVOLUTION PROCESS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2751-2760. | 0.7 | 12 |
| 52 | Fractional Schrödinger equation; solvability and connection with classical Schrödinger equation. Journal of Mathematical Analysis and Applications, 2018, 457, 336-360. | 0.5 | 12 |
| 53 | Lipschitz perturbations of Morse-Smale semigroups. Journal of Differential Equations, 2020, 269, 1904-1943. | 1.1 | 11 |
| 54 | Delay-partial differential equations with some large diffusion. Nonlinear Analysis: Theory, Methods & Applications, 1994, 22, 1057-1095. | 0.6 | 10 |

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|----|---|-----|-----------|
| 55 | Global Attractors for Parabolic Problems in Fractional Power Spaces. <i>SIAM Journal on Mathematical Analysis</i> , 1995, 26, 415-427. | 0.9 | 9 |
| 56 | Singularly non-autonomous semilinear parabolic problems with critical exponents. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2009, 2, 449-471. | 0.6 | 9 |
| 57 | Continuity of Dynamical Structures for Nonautonomous Evolution Equations Under Singular Perturbations. <i>Journal of Dynamics and Differential Equations</i> , 2012, 24, 427-481. | 1.0 | 9 |
| 58 | Rate of convergence of attractors for singularly perturbed semilinear problems. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 452, 258-296. | 0.5 | 9 |
| 59 | Examples of global attractors in parabolic problems. <i>Hokkaido Mathematical Journal</i> , 1998, 27, 77. | 0.2 | 8 |
| 60 | The Dynamics of a One-Dimensional Parabolic Problem versus the Dynamics of Its Discretization. <i>Journal of Differential Equations</i> , 2000, 168, 67-92. | 1.1 | 8 |
| 61 | Reduction of Infinite Dimensional Systems to Finite Dimensions: Compact Convergence Approach. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 600-638. | 0.9 | 8 |
| 62 | Smoothing and finite-dimensionality of uniform attractors in Banach spaces. <i>Journal of Differential Equations</i> , 2021, 285, 383-428. | 1.1 | 8 |
| 63 | Exponential global attractors for semigroups in metric spaces with applications to differential equations. <i>Ergodic Theory and Dynamical Systems</i> , 2011, 31, 1641-1667. | 0.4 | 7 |
| 64 | Finite-dimensional global attractors in Banach spaces. <i>Journal of Differential Equations</i> , 2010, 249, 3099-3109. | 1.1 | 6 |
| 65 | The pullback attractor. <i>Applied Mathematical Sciences (Switzerland)</i> , 2013, , 3-22. | 0.4 | 6 |
| 66 | Abstract parabolic problems in ordered Banach spaces. <i>Colloquium Mathematicum</i> , 2001, 90, 1-17. | 0.2 | 6 |
| 67 | Perturbation of the diffusion and upper semicontinuity of attractors. <i>Applied Mathematics Letters</i> , 1999, 12, 37-42. | 1.5 | 5 |
| 68 | Patterns in parabolic problems with nonlinear boundary conditions. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 325, 1216-1239. | 0.5 | 5 |
| 69 | Autonomous and non-autonomous unbounded attractors under perturbations. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2019, 149, 877-903. | 0.8 | 5 |
| 70 | Parabolic equations with localized large diffusion: Rate of convergence of attractors. <i>Topological Methods in Nonlinear Analysis</i> , 0, , 1. | 0.2 | 5 |
| 71 | Spatial homogeneity in parabolic problems with nonlinear boundary conditions. <i>Communications on Pure and Applied Analysis</i> , 2004, 3, 637-651. | 0.4 | 5 |
| 72 | A non-autonomous bifurcation problem for a non-local scalar one-dimensional parabolic equation. <i>Communications on Pure and Applied Analysis</i> , 2020, 19, 5181-5196. | 0.4 | 5 |

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|----|---|-----|-----------|
| 73 | Equi-attraction and continuity of attractors for skew-product semiflows. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2016, 21, 2949-2967. | 0.5 | 5 |
| 74 | Reaction-diffusion problems in cell tissues. <i>Journal of Dynamics and Differential Equations</i> , 1997, 9, 93-131. | 1.0 | 4 |
| 75 | About the Structure of Attractors for a Nonlocal Chafee-Infante Problem. <i>Mathematics</i> , 2021, 9, 353. | 1.1 | 4 |
| 76 | Critical nonlinearities at the boundary. <i>Comptes Rendus Mathematique</i> , 1998, 327, 353-358. | 0.5 | 3 |
| 77 | Continuity of the dynamics in a localized large diffusion problem with nonlinear boundary conditions. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 356, 69-85. | 0.5 | 3 |
| 78 | An estimate on the fractal dimension of attractors of gradient-like dynamical systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2012, 75, 5702-5722. | 0.6 | 3 |
| 79 | Equi-exponential attraction and rate of convergence of attractors with application to a perturbed damped wave equation. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2014, 144, 13-51. | 0.8 | 3 |
| 80 | The effect of a small bounded noise on the hyperbolicity for autonomous semilinear differential equations. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 500, 125134. | 0.5 | 3 |
| 81 | Nonautonomous Perturbations of Morse-Smale Semigroups: Stability of the Phase Diagram. <i>Journal of Dynamics and Differential Equations</i> , 2022, 34, 2681-2747. | 1.0 | 3 |
| 82 | Parabolic problems in H^1 with fast growing nonlinearities. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1998, 33, 391-399. | 0.6 | 2 |
| 83 | On the continuation of solutions of non-autonomous semilinear parabolic problems. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2016, 59, 17-55. | 0.2 | 2 |
| 84 | A non-autonomous scalar one-dimensional dissipative parabolic problem: the description of the dynamics. <i>Nonlinearity</i> , 2019, 32, 4912-4941. | 0.6 | 2 |
| 85 | Stability and hyperbolicity of equilibria for a scalar nonlocal one-dimensional quasilinear parabolic problem. <i>Journal of Differential Equations</i> , 2021, 300, 312-336. | 1.1 | 2 |
| 86 | Robustness of dynamically gradient multivalued dynamical systems. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2019, 24, 1049-1077. | 0.5 | 2 |
| 87 | Strongly damped wave equation and its Yosida approximations. <i>Topological Methods in Nonlinear Analysis</i> , 0, , 1. | 0.2 | 2 |
| 88 | Fractional approximations of abstract semilinear parabolic problems. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 0-0. | 0.5 | 2 |
| 89 | Limiting grow-up behavior for a one-parameter family of dissipative PDEs. <i>Indiana University Mathematics Journal</i> , 2020, 69, 657-683. | 0.4 | 1 |
| 90 | Forwards dynamics of non-autonomous dynamical systems: Driving semigroups without backwards uniqueness and structure of the attractor. <i>Communications on Pure and Applied Analysis</i> , 2020, 19, 1997-2013. | 0.4 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Finite-dimensional negatively invariant subsets of Banach spaces. Journal of Mathematical Analysis and Applications, 2022, 509, 125945. | 0.5 | 1 |
| 92 | Well-posedness for some third-order evolution differential equations: a semigroup approach. Journal of Evolution Equations, 2022, 22, . | 0.6 | 1 |
| 93 | Continuity of attractors. Applied Mathematical Sciences (Switzerland), 2013, , 55-70. | 0.4 | 0 |
| 94 | Gradient semigroups and their dynamical properties. Applied Mathematical Sciences (Switzerland), 2013, , 103-139. | 0.4 | 0 |
| 95 | Semilinear differential equations. Applied Mathematical Sciences (Switzerland), 2013, , 143-186. | 0.4 | 0 |
| 96 | Applications to parabolic problems. Applied Mathematical Sciences (Switzerland), 2013, , 301-315. | 0.4 | 0 |
| 97 | A non-autonomous Chafeeâ€“Infante equation. Applied Mathematical Sciences (Switzerland), 2013, , 317-338. | 0.4 | 0 |
| 98 | Perturbation of diffusion and continuity of global attractors with rate of convergence. Applied Mathematical Sciences (Switzerland), 2013, , 339-359. | 0.4 | 0 |
| 99 | A non-autonomous damped wave equation. Applied Mathematical Sciences (Switzerland), 2013, , 361-376. | 0.4 | 0 |
| 100 | Appendix: Skew-product flows and the uniform attractor. Applied Mathematical Sciences (Switzerland), 2013, , 377-391. | 0.4 | 0 |
| 101 | The Navierâ€“Stokes equations with non-autonomous forcing. Applied Mathematical Sciences (Switzerland), 2013, , 281-300. | 0.4 | 0 |
| 102 | Permanence of nonuniform nonautonomous hyperbolicity for infinite-dimensional differential equations. Asymptotic Analysis, 2021, , 1-27. | 0.2 | 0 |
| 103 | Upper semicontinuity of attractors for the discretization of strongly damped wave equations. Matematica Contemporanea, 2007, 32, . | 0.0 | 0 |
| 104 | NLS-like equations in bounded domains: Parabolic approximation procedure. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 57-77. | 0.5 | 0 |
| 105 | Structure of non-autonomous attractors for a class of diffusively coupled ODE. Discrete and Continuous Dynamical Systems - Series B, 2022, . | 0.5 | 0 |