Salvador Villegas

List of Publications by Year
in descending order

30 papers	239 citations	1163117 8 h-index	996975 15 g-index
32 all docs	32 docs citations	32 times ranked	85 citing authors

#	Article	IF	Citations
1	Lyapunov inequalities for partial differential equations. Journal of Functional Analysis, 2006, 237, 176-193.	1.4	44
2	Boundedness of extremal solutions in dimension 4. Advances in Mathematics, 2013, 235, 126-133.	1.1	32
3	Nontrivial solutions for a Neumann problem with a nonlinear term asymptotically linear at $-\infty$ and superlinear at $+\infty$. Mathematische Zeitschrift, 1995, 219, 499-513.	0.9	30
4	Asymptotic behavior of stable radial solutions of semilinear elliptic equations in $\mathbb{R}^N$. Journal Des Mathematiques Pures Et Appliquees, 2007, 88, 241-250.	1.6	24
5	Lyapunov inequalities for Neumann boundary conditions at higher eigenvalues. Journal of the European Mathematical Society, 2009, 12, 163-178.	1.4	22
6	A Neumann Problem with Asymmetric Nonlinearity and a Related Minimizing Problem. Journal of Differential Equations, 1998, 145, 145-155.	2.2	17
7	Optimal Lyapunov inequalities for disfocality and Neumann boundary conditions using L^p norms. Discrete and Continuous Dynamical Systems, 2008, 20, 877-888.	0.9	11
8	Liapunov-type inequalities and Neumann boundary value problems at resonance. Mathematical Inequalities and Applications, 2005, , 459-475.	0.2	10
9	Sharp estimates for semi-stable radial solutions of semilinear elliptic equations. Journal of Functional Analysis, 2012, 262, 3394-3408.	1.4	7
10	Lyapunov-type Inequalities for Differential Equations. Mediterranean Journal of Mathematics, 2006, 3, 177-187.	0.8	4
11	Nonexistence of nonconstant global minimizers with limit at ∞ of semilinear elliptic equations in all of R^N. Communications on Pure and Applied Analysis, 2011, 10, 1817-1821.	0.8	4
12	Stability, resonance and Lyapunov inequalities for periodic conservative systems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 1913-1925.	1.1	4
13	Semi-stable radial solutions of p-Laplace equations in $\mathbb{R}^N$. Nonlinear Analysis: Theory, Methods & Applications, 2017, 149, 111-116.	1.1	4
14	Lyapunov inequalities for the periodic boundary value problem at higher eigenvalues. Journal of Mathematical Analysis and Applications, 2011, 376, 429-442.	1.0	3
15	Optimal Lyapunov inequalities for boundary value problems. Journal of Mathematical Inequalities, 2009, , 631-643.	0.9	3
16	Semilinear Sturm–Liouville problem with periodic nonlinearity. Nonlinear Analysis: Theory, Methods & Applications, 2005, 61, 1157-1178.	1.1	2
17	Lyapunov inequalities for partial differential equations at radial higher eigenvalues. Discrete and Continuous Dynamical Systems, 2013, 33, 111-122.	0.9	2
18	Sharp estimates of radial minimizers of p–Laplace equations. Proceedings of the American Mathematical Society, 2017, 145, 2931-2941.	0.8	2

#	Article	IF	Citations
19	Behavior near the origin of f$''(u_\infty)$ in radial singular extremal solutions. Journal of Differential Equations, 2021, 270, 947-960.	2.2	2
20	Matrix Lyapunov inequalities for ordinary and elliptic partial differential equations. Topological Methods in Nonlinear Analysis, 2015, 45, 309.	0.2	2
21	An applied mathematical excursion through Lyapunov inequalities, classical analysis and Differential Equations. Boletín De La Sociedad Española De Matemática Aplicada, 2012, 57, 69-106.	0.9	1
22	The sharpness of some results on stable solutions of <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.0	1
23	Non-energy semi-stable radial solutions. Communications in Contemporary Mathematics, 2016, 18, 1550044.	1.2	1
24	Dichotomy of stable radial solutions of $-\Delta u=f(u)$ - $\lambda u = f (u)$ outside a ball. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	1.7	1
25	Sharp Liouville Theorems. Advanced Nonlinear Studies, 2021, 21, 95-105.	1.7	1
26	Estimates of the extremal solution for the bilaplacian with general nonlinearity. Journal of Mathematical Analysis and Applications, 2016, 443, 313-321.	1.0	0
27	Antisymmetry of solutions for some weighted elliptic problems. Communications in Partial Differential Equations, 2018, 43, 506-547.	2.2	0
28	Higher Eigenvalues. SpringerBriefs in Mathematics, 2015, , 47-68.	0.3	0
29	A Variational Characterization of the Best Lyapunov Constants. SpringerBriefs in Mathematics, 2015, , 9-45.	0.3	0
30	A simple proof of the optimal power in Liouville theorems. Publicacions Matematiques, 2022, 66, 883-892.	0.5	0