Salvador Villegas

List of Publications by Year
in descending order

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30	239	1163117 8	996975 15
papers	citations	h-index	g-index

32	32	32	85
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A simple proof of the optimal power in Liouville theorems. Publicacions Matematiques, 2022, 66, 883-892.	0.5	0
2	Behavior near the origin of fâ€²(uâž) in radial singular extremal solutions. Journal of Differential Equations, 2021, 270, 947-960.	2.2	2
3	Sharp Liouville Theorems. Advanced Nonlinear Studies, 2021, 21, 95-105.	1.7	1
4	Antisymmetry of solutions for some weighted elliptic problems. Communications in Partial Differential Equations, 2018, 43, 506-547.	2.2	0
5	Sharp estimates of radial minimizers of pâ€“Laplace equations. Proceedings of the American Mathematical Society, 2017, 145, 2931-2941.	0.8	2
6	Semi-stable radial solutions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>p</mml:mi></mml:math>-Laplace equations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mi>N</mml:mi></mml:mrow></mml:msup></mml:math>. Nonlinear Analysis: Theory, Methods & Applications, 2017, 149, 111-116.	1.1	4
7	Estimates of the extremal solution for the bilaplacian with general nonlinearity. Journal of Mathematical Analysis and Applications, 2016, 443, 313-321.	1.0	0
8	Non-energy semi-stable radial solutions. Communications in Contemporary Mathematics, 2016, 18, 1550044.	1.2	1
9	Dichotomy of stable radial solutions of $$-Delta u=f(u)$$ - Î” u = f (u) outside a ball. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	1.7	1
10	Matrix Lyapunov inequalities for ordinary and elliptic partial differential equations. Topological Methods in Nonlinear Analysis, 2015, 45, 309.	0.2	2
11	Higher Eigenvalues. SpringerBriefs in Mathematics, 2015, , 47-68.	0.3	0
12	A Variational Characterization of the Best Lyapunov Constants. SpringerBriefs in Mathematics, 2015, , 9-45.	0.3	0
13	Boundedness of extremal solutions in dimension 4. Advances in Mathematics, 2013, 235, 126-133.	1.1	32
14	Lyapunov inequalities for partial differential equations at radial higher eigenvalues. Discrete and Continuous Dynamical Systems, 2013, 33, 111-122.	0.9	2
15	xmlns:prism="http://prismstandard.org/namespaces/basic/2.0/" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:mml="http://www.w3.org/1998/Math/MathML" <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
16	An applied mathematical excursion through Lyapunov inequalities, classical analysis and Differential Equations. BoletÃn De La Sociedad EspaÃ±ola De MatemÃ¡tica Aplicada, 2012, 57, 69-106.	0.9	1
17	Sharp estimates for semi-stable radial solutions of semilinear elliptic equations. Journal of Functional Analysis, 2012, 262, 3394-3408.	1.4	7
18	Nonexistence of nonconstant global minimizers with limit at $infty$ of semilinear elliptic equations in all of R^N. Communications on Pure and Applied Analysis, 2011, 10, 1817-1821.	0.8	4

#	Article	IF	Citations
19	Lyapunov inequalities for the periodic boundary value problem at higher eigenvalues. Journal of Mathematical Analysis and Applications, 2011, 376, 429-442.	1.0	3
20	Stability, resonance and Lyapunov inequalities for periodic conservative systems. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 1913-1925.	1.1	4
21	Lyapunov inequalities for Neumann boundary conditions at higher eigenvalues. Journal of the European Mathematical Society, 2009, 12, 163-178.	1.4	22
22	Optimal Lyapunov inequalities for boundary value problems. Journal of Mathematical Inequalities, 2009, , 631-643.	0.9	3
23	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
24	Asymptotic behavior of stable radial solutions of semilinear elliptic equations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mi mathvariant="double-struck">R</mml:mi><mml:mi>N</mml:mi></mml:msup></mml:math>. Journal Des Mathematiques Pures Et Appliquees, 2007, 88, 241-250.	1.6	24
25	Lyapunov inequalities for partial differential equations. Journal of Functional Analysis, 2006, 237, 176-193.	1.4	44
26	Lyapunov-type Inequalities for Differential Equations. Mediterranean Journal of Mathematics, 2006, 3, 177-187.	0.8	4
27	Semilinear Sturmâ€“Liouville problem with periodic nonlinearity. Nonlinear Analysis: Theory, Methods & Applications, 2005, 61, 1157-1178.	1.1	2
28	Liapunov-type inequalities and Neumann boundary value problems at resonance. Mathematical Inequalities and Applications, 2005, , 459-475.	0.2	10
29	A Neumann Problem with Asymmetric Nonlinearity and a Related Minimizing Problem. Journal of Differential Equations, 1998, 145, 145-155.	2.2	17
30	Nontrivial solutions for a Neumann problem with a nonlinear term asymptotically linear at â^'â^ž and superlinear at +â^ž. Mathematische Zeitschrift, 1995, 219, 499-513.	0.9	30