Mariano Mateos

List of Publications by Year in Descending Order

33 papers	458 citations	11 h-index	21 g-index
38 ext. papers	527 ext. citations	1.3 avg, IF	3.96 L-index

#	Paper	IF	Citations
33	Analysis and Approximations of Dirichlet Boundary Control of Stokes Flows in the Energy Space. *SIAM Journal on Numerical Analysis*, **2022**, 60, 450-474	2.4	0
32	Sparse Dirichlet optimal control problems. *Computational Optimization and Applications*, **2021**, 80, 271-300	1.4	1
31	State Error Estimates for the Numerical Approximation of Sparse Distributed Control Problems in the Absence of Tikhonov Regularization. *Vietnam Journal of Mathematics*, **2021**, 49, 713-738	0.5	4
30	Exponential Stability for the Schl□gl System by Pyragas Feedback. *Vietnam Journal of Mathematics*, **2020**, 48, 769-790	0.5	1
29	Critical Cones for Sufficient Second Order Conditions in PDE Constrained Optimization. *SIAM Journal on Optimization*, **2020**, 30, 585-603	2	8
28	Analysis of a hybridizable discontinuous Galerkin scheme for the tangential control of the Stokes system. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2020**, 54, 2229-2264	1.8	2
27	Analysis of control problems of nonmontone semilinear elliptic equations. *ESAIM - Control, Optimisation and Calculus of Variations*, **2020**, 26, 80	1	3
26	Error Estimates for Semilinear Parabolic Control Problems in the Absence of Tikhonov Term. *SIAM Journal on Control and Optimization*, **2019**, 57, 2515-2540	1.9	8
25	Optimal time delays in a class of reaction-diffusion equations. *Optimization*, **2019**, 68, 255-278	1.2	1
24	Superconvergent Graded Meshes for an Elliptic Dirichlet Control Problem. *Lecture Notes in Computational Science and Engineering*, **2019**, 1-16	0.3	
23	Optimization methods for Dirichlet control problems. *Optimization*, **2018**, 67, 585-617	1.2	6
22	Improved approximation rates for a parabolic control problem with an objective promoting directional sparsity. *Computational Optimization and Applications*, **2018**, 70, 239-266	1.4	7
21	A New HDG Method for Dirichlet Boundary Control of Convection Diffusion PDEs II: Low Regularity. *SIAM Journal on Numerical Analysis*, **2018**, 56, 2262-2287	2.4	17
20	Error estimates for Dirichlet control problems in polygonal domains: Quasi-uniform meshes. *Mathematical Control and Related Fields*, **2018**, 8, 217-245	1.5	17
19	Measure Control of a Semilinear Parabolic Equation with a Nonlocal Time Delay. *SIAM Journal on Control and Optimization*, **2018**, 56, 4434-4460	1.9	
18	Optimal Control of Partial Differential Equations. *SEMA SIMAI Springer Series*, **2017**, 3-59	0.2	6
17	Finite element approximation of sparse parabolic control problems. *Mathematical Control and Related Fields*, **2017**, 7, 393-417	1.5	10

16	Dirichlet control of elliptic state constrained problems. *Computational Optimization and Applications*, **2016**, 63, 825-853	1.4	10
15	On the Regularity of the Solutions of Dirichlet Optimal Control Problems in Polygonal Domains. *SIAM Journal on Control and Optimization*, **2015**, 53, 3620-3641	1.9	25
14	New regularity results and improved error estimates for optimal control problems with state constraints. *ESAIM - Control, Optimisation and Calculus of Variations*, **2014**, 20, 803-822	1	27
13	Numerical approximation of elliptic control problems with finitely many pointwise constraints. *Computational Optimization and Applications*, **2012**, 51, 1319-1343	1.4	7
12	A Paradox in the Approximation of Dirichlet Control Problems in Curved Domains.. *SIAM Journal on Control and Optimization*, **2011**, 49, 1998-2007	1.9	7
11	On saturation effects in the Neumann boundary control of elliptic optimal control problems. *Computational Optimization and Applications*, **2011**, 49, 359-378	1.4	20
10	Penalization of Dirichlet optimal control problems. *ESAIM - Control, Optimisation and Calculus of Variations*, **2009**, 15, 782-809	1	30
9	Error estimates for the numerical approximation of Neumann control problems. *Computational Optimization and Applications*, **2008**, 39, 265-295	1.4	34
8	On saturation effects in the Neumann boundary control of elliptic optimal control problems. *Proceedings in Applied Mathematics and Mechanics*, **2007**, 7, 1060505-1060506	0.2	
7	Error Estimates for the Numerical Approximation of a Distributed Control Problem for the Steady-State Navier–Stokes Equations. *SIAM Journal on Control and Optimization*, **2007**, 46, 952-982	1.9	41
6	Error Estimates for the Numerical Approximation of Boundary Semilinear Elliptic Control Problems. *Computational Optimization and Applications*, **2005**, 31, 193-219	1.4	81
5	Error Estimates for the Numerical Approximation of Boundary Semilinear Elliptic Control Problems. Continuous Piecewise Linear Approximations **2005**, 91-101		1
4	Necessary and Sufficient Optimality Conditions for Optimization Problems in Function Spaces and Applications to Control Theory. *ESAIM: Proceedings and Surveys*, **2003**, 13, 18-30		7
3	Second Order Optimality Conditions for Semilinear Elliptic Control Problems with Finitely Many State Constraints. *SIAM Journal on Control and Optimization*, **2002**, 40, 1431-1454	1.9	60
2	Pontryagin's principle for the control of parabolic equations with gradient state constraints. *Nonlinear Analysis: Theory, Methods & Applications*, **2001**, 46, 933-956	1.3	15
1	Numerical approximation of control problems of non-monotone and non-coercive semilinear elliptic equations. *Numerische Mathematik*,1	2.2	