Mariano Mateos

List of Publications by Year
in descending order

36 papers	599 citations	686830 13 h-index	610482 24 g-index
38 all docs	38 docs citations	38 times ranked	154 citing authors

#	Article	IF	Citations
1	Error Estimates for the Numerical Approximation of Boundary Semilinear Elliptic Control Problems. Computational Optimization and Applications, 2005, 31, 193-219.	0.9	96
2	Second Order Optimality Conditions for Semilinear Elliptic Control Problems with Finitely Many State Constraints. SIAM Journal on Control and Optimization, 2002, 40, 1431-1454.	1.1	72
3	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.	1.1	52
4	Error estimates for the numerical approximation of Neumann control problems. Computational Optimization and Applications, 2008, 39, 265-295.	0.9	47
5	Penalization of Dirichlet optimal control problems. ESAIM - Control, Optimisation and Calculus of Variations, 2009, 15, 782-809.	0.7	40
6	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.	0.7	33
7	On the Regularity of the Solutions of Dirichlet Optimal Control Problems in Polygonal Domains. SIAM Journal on Control and Optimization, 2015, 53, 3620-3641.	1.1	30
8	Error estimates for Dirichlet control problems in polygonal domains: Quasi-uniform meshes. Mathematical Control and Related Fields, 2018, 8, 217-245.	0.6	23
9	A New HDG Method for Dirichlet Boundary Control of Convection Diffusion PDEs II: Low Regularity. SIAM Journal on Numerical Analysis, 2018, 56, 2262-2287.	1.1	22
10	On saturation effects in the Neumann boundary control of elliptic optimal control problems. Computational Optimization and Applications, 2011, 49, 359-378.	0.9	21
11	Error Estimates for Semilinear Parabolic Control Problems in the Absence of Tikhonov Term. SIAM Journal on Control and Optimization, 2019, 57, 2515-2540.	1.1	18
12	Critical Cones for Sufficient Second Order Conditions in PDE Constrained Optimization. SIAM Journal on Optimization, 2020, 30, 585-603.	1.2	18
13	Pontryagin's principle for the control of parabolic equations with gradient state constraints. Nonlinear Analysis: Theory, Methods & Applications, 2001, 46, 933-956.	0.6	15
14	Finite element approximation of sparse parabolic control problems. Mathematical Control and Related Fields, 2017, 7, 393-417.	0.6	14
15	Dirichlet control of elliptic state constrained problems. Computational Optimization and Applications, 2016, 63, 825-853.	0.9	12
16	Improved approximation rates for a parabolic control problem with an objective promoting directional sparsity. Computational Optimization and Applications, 2018, 70, 239-266.	0.9	12
17	Optimal Control of Partial Differential Equations. SEMA SIMAI Springer Series, 2017, , 3-59.	0.4	11
18	Optimization methods for Dirichlet control problems. Optimization, 2018, 67, 585-617.	1.0	10

#	Article	IF	Citations
19	Necessary and Sufficient Optimality Conditions for Optimization Problems in Function Spaces and Applications to Control Theory. ESAIM: Proceedings and Surveys, 2003, 13, 18-30.	0.4	7
20	A Paradox in the Approximation of Dirichlet Control Problems in Curved Domains.. SIAM Journal on Control and Optimization, 2011, 49, 1998-2007.	1.1	7
21	Numerical approximation of elliptic control problems with finitely many pointwise constraints. Computational Optimization and Applications, 2012, 51, 1319-1343.	0.9	7
22	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.	0.4	7
23	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.	0.8	7
24	Analysis of control problems of nonmontone semilinear elliptic equations. ESAIM - Control, Optimisation and Calculus of Variations, 2020, 26, 80.	0.7	4
25	Analysis and Approximations of Dirichlet Boundary Control of Stokes Flows in the Energy Space. SIAM Journal on Numerical Analysis, 2022, 60, 450-474.	1.1	4
26	Measure Control of a Semilinear Parabolic Equation with a Nonlocal Time Delay. SIAM Journal on Control and Optimization, 2018, 56, 4434-4460.	1.1	1
27	Optimal time delays in a class of reaction-diffusion equations. Optimization, 2019, 68, 255-278.	1.0	1
28	Exponential Stability for the Schlögl System by Pyragas Feedback. Vietnam Journal of Mathematics, 2020, 48, 769-790.	0.4	1
29	Sparse Dirichlet optimal control problems. Computational Optimization and Applications, 2021, 80, 271-300.	0.9	1
30	Numerical approximation of control problems of non-monotone and non-coercive semilinear elliptic equations. Numerische Mathematik, 2021, 149, 305-340.	0.9	1
31	Error Estimates for the Numerical Approximation of Boundary Semilinear Elliptic Control Problems. Continuous Piecewise Linear Approximations. , 2005, , 91-101.		1
32	Error estimates for the numerical approximation of optimal control problems with nonsmooth pointwise-integral control constraints. IMA Journal of Numerical Analysis, 0, , .	1.5	1
33	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	0
34	Numerical Approximation of Elliptic Control Problems with Finitely Many Pointwise Constraints. , 2009, , .		0
35	Preface: A tribute to professor Eduardo Casas on his 60th birthday. Mathematical Control and Related Fields, 2018, 8, i-ii.	0.6	0
36	Superconvergent Graded Meshes for an Elliptic Dirichlet Control Problem. Lecture Notes in Computational Science and Engineering, 2019, , 1-16.	0.1	0