

Mario Sigalotti

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

763

citations

17

h-index

25

g-index

72

ext. papers

981

ext. citations

2.1

avg, IF

4.44

L-index

#	Paper	IF	Citations
66	Controllability of the discrete-spectrum Schrödinger equation driven by an external field. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2009 , 26, 329-349	1.6	69
65	A Gauss-Bonnet-like formula on two-dimensional almost-Riemannian manifolds. <i>Discrete and Continuous Dynamical Systems</i> , 2008 , 20, 801-822	2	66
64	A Weak Spectral Condition for the Controllability of the Bilinear Schrödinger Equation with Application to the Control of a Rotating Planar Molecule. <i>Communications in Mathematical Physics</i> , 2012 , 311, 423-455	2	49
63	Two-dimensional almost-Riemannian structures with tangency points. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2010 , 27, 793-807	1.6	44
62	On the Local Structure of Optimal Trajectories in R3. <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 513-531	1.9	33
61	Lipschitz Classification of Almost-Riemannian Distances on Compact Oriented Surfaces. <i>Journal of Geometric Analysis</i> , 2013 , 23, 438-455	0.9	32
60	Stars of vibrating strings: Switching boundary feedback stabilization. <i>Networks and Heterogeneous Media</i> , 2010 , 5, 299-314	1.6	30
59	Approximate Controllability, Exact Controllability, and Conical Eigenvalue Intersections for Quantum Mechanical Systems. <i>Communications in Mathematical Physics</i> , 2015 , 333, 1225-1239	2	29
58	On the regularity of abnormal minimizers for rank 2 sub-Riemannian structures. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2020 , 133, 118-138	1.7	27
57	Multi-input Schrödinger equation: Controllability, tracking, and application to the quantum angular momentum. <i>Journal of Differential Equations</i> , 2014 , 256, 3524-3551	2.1	26
56	Adiabatic Control of the Schrödinger Equation via Conical Intersections of the Eigenvalues. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1970-1983	5.9	26
55	Converse Lyapunov Theorems for Switched Systems in Banach and Hilbert Spaces. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 752-770	1.9	26
54	Generic Controllability Properties for the Bilinear Schrödinger Equation. <i>Communications in Partial Differential Equations</i> , 2010 , 35, 685-706	1.6	23
53	On the algebraic characterization of invariant sets of switched linear systems. <i>Automatica</i> , 2010 , 46, 1043-1052	2.2	22
52	Uniform stabilization for linear systems with persistency of excitation: the neutrally stable and the double integrator cases. <i>Mathematics of Control, Signals, and Systems</i> , 2008 , 20, 135-156	1.3	19
51	On the Stabilization of Persistently Excited Linear Systems. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 4032-4055	1.9	18
50	On the marginal instability of linear switched systems. <i>Systems and Control Letters</i> , 2012 , 61, 747-757	2.4	17

49	Adiabatic Ensemble Control of a Continuum of Quantum Systems. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 4045-4068	1.9	14
48	Sub-Finsler Structures from the Time-Optimal Control Viewpoint for some Nilpotent Distributions. <i>Journal of Dynamical and Control Systems</i> , 2017 , 23, 547-575	1.1	13
47	The squares of the Laplacian-Dirichlet eigenfunctions are generically linearly independent. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2010 , 16, 794-805	1	12
46	Local Regularity of Optimal Trajectories for Control Problems with General Boundary Conditions. <i>Journal of Dynamical and Control Systems</i> , 2005 , 11, 91-123	1.1	11
45	Introduction to the Pontryagin Maximum Principle for Quantum Optimal Control. <i>PRX Quantum</i> , 2021 , 2,	6.1	11
44	Tracking Control for an Ellipsoidal Submarine Driven by Kirchhoff's Laws. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 339-349	5.9	10
43	Regularity properties of optimal trajectories of single-input control systems in dimension three. <i>Journal of Mathematical Sciences</i> , 2005 , 126, 1561-1573	0.4	10
42	Converse Lyapunov-Krasovskii theorems for uncertain retarded differential equations. <i>Automatica</i> , 2015 , 62, 263-273	5.7	9
41	Dubins' problem on surfaces. I. nonnegative curvature. <i>Journal of Geometric Analysis</i> , 2005 , 15, 565-587	0.9	9
40	On conditions for asymptotic stability of dissipative infinite-dimensional systems with intermittent damping. <i>Journal of Differential Equations</i> , 2012 , 252, 5569-5593	2.1	8
39	Comparison between classes of state-quadratic Lyapunov functions for discrete-time linear polytopic and switched systems. <i>Systems and Control Letters</i> , 2012 , 61, 1062-1068	2.4	7
38	On the control of spin-boson systems. <i>Journal of Mathematical Physics</i> , 2015 , 56, 092101	1.2	6
37	Stabilization of Two-Dimensional Persistently Excited Linear Control Systems with Arbitrary Rate of Convergence. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 801-823	1.9	6
36	Exact Controllability in Projections of the Bilinear Schrödinger Equation. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 2901-2920	1.9	5
35	On the Controllability of Quantum Transport in an Electronic Nanostructure. <i>SIAM Journal on Applied Mathematics</i> , 2014 , 74, 1870-1894	1.8	5
34	Controllability properties of a class of systems modeling swimming microscopic organisms. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2010 , 16, 1053-1076	1	5
33	Approximate controllability of the two trapped ions system. <i>Quantum Information Processing</i> , 2015 , 14, 2397-2418	1.6	4
32	Persistently damped transport on a network of circles. <i>Transactions of the American Mathematical Society</i> , 2016 , 369, 3841-3881	1	4

31	Time-optimal trajectories of generic control-affine systems have at worst iterated Fuller singularities. <i>Annales De LInstitut Henri Poincare (C) Analyse Non Lineaire</i> , 2019 , 36, 327-346	1.6	4
30	Pliability, or the Whitney extension theorem for curves in Carnot groups. <i>Analysis and PDE</i> , 2017 , 10, 1637-1661	1.7	4
29	High-order sufficient conditions for configuration tracking of affine connection control systems. <i>Systems and Control Letters</i> , 2010 , 59, 491-503	2.4	4
28	Stability of Interconnected Uncertain Delay Systems: A Converse Lyapunov Approach. <i>Advances in Delays and Dynamics</i> , 2019 , 49-63	0.3	4
27	Further remarks on Markus-Yamabe instability for time-varying delay differential equations. <i>IFAC-PapersOnLine</i> , 2015 , 48, 33-38	0.7	3
26	A Characterization of Switched Linear Control Systems With Finite L_2 -Gain. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1825-1837	5.9	3
25	Counterexample to a Lyapunov Condition for Uniform Asymptotic Partial Stability 2020 , 4, 397-401		3
24	Generic singularities of line fields on 2D manifolds. <i>Differential Geometry and Its Applications</i> , 2016 , 49, 326-350	0.5	3
23	Classical and Quantum Controllability of a Rotating Symmetric Molecule. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 156-184	1.9	3
22	Fuller Singularities for Generic Control-Affine Systems with an Even Number of Controls. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 1207-1228	1.9	2
21	Growth rates for persistently excited linear systems. <i>Mathematics of Control, Signals, and Systems</i> , 2014 , 26, 589-616	1.3	2
20	A note on time-zero controllability and density of orbits for quantum systems 2017 ,		2
19	Semi-conical eigenvalue intersections and the ensemble controllability problem for quantum systems. <i>Mathematical Control and Related Fields</i> , 2020 , 10, 877-911	1.5	2
18	Switching systems with dwell time: Computing the maximal Lyapunov exponent. <i>Nonlinear Analysis: Hybrid Systems</i> , 2021 , 40, 101021	4.5	2
17	Dwell-time control sets and applications to the stability analysis of linear switched systems. <i>Journal of Differential Equations</i> , 2020 , 268, 1345-1378	2.1	2
16	Stabilization of Persistently Excited Linear Systems 85-120		2
15	Lie algebra for rotational subsystems of a driven asymmetric top. <i>Journal of Physics A: Mathematical and Theoretical</i> ,	2	2
14	On the Whitney extension property for continuously differentiable horizontal curves in sub-Riemannian manifolds. <i>Calculus of Variations and Partial Differential Equations</i> , 2018 , 57, 1	1.5	1

13	Controllability in projection of the simple spectrum bilinear Schrödinger equation. <i>IFAC-PapersOnLine</i> , 2017 , 50, 5592-5597	0.7	1
12	Effective adiabatic control of a decoupled Hamiltonian obtained by rotating wave approximation. <i>Automatica</i> , 2022 , 136, 110034	5.7	1
11	Reachable sets for a 3D accidentally symmetric molecule. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1943-1948	0.7	1
10	On the gap between deterministic and probabilistic joint spectral radii for discrete-time linear systems. <i>Linear Algebra and Its Applications</i> , 2021 , 613, 24-45	0.9	1
9	Converse Lyapunov theorems for infinite-dimensional nonlinear switching systems 2019 ,		1
8	On the compatibility between the adiabatic and the rotating wave approximations in quantum control 2019 ,		1
7	Lyapunov characterization of uniform exponential stability for nonlinear infinite-dimensional systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
6	Approximately controllable finite-dimensional bilinear systems are controllable. <i>Systems and Control Letters</i> , 2021 , 157, 105028	2.4	1
5	Ensemble qubit controllability with a single control via adiabatic and rotating wave approximations. <i>Journal of Differential Equations</i> , 2022 , 318, 414-442	2.1	1
4	Adaptive control of Lipschitz time-delay systems by sigma modification with application to neuronal population dynamics. <i>Systems and Control Letters</i> , 2022 , 159, 105082	2.4	0
3	An obstruction to small-time controllability of the bilinear Schrödinger equation. <i>Journal of Mathematical Physics</i> , 2021 , 62, 032103	1.2	0
2	New high order sufficient conditions for configuration tracking. <i>Automatica</i> , 2015 , 62, 222-226	5.7	
1	Bounds on time-optimal concatenations of arcs for two-input driftless 3D systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 6863-6868	0.7	