

Oleg Morzhin

List of Publications by Year in descending order

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papers

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citations

1162367

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21
all docs

21
docs citations

21
times ranked

31
citing authors

#	ARTICLE	IF	CITATIONS
1	Krotov method for optimal control of closed quantum systems. Russian Mathematical Surveys, 2019, 74, 851-908.	0.2	28
2	Quantum control landscape for ultrafast generation of single-qubit phase shift quantum gates. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 215303.	0.7	22
3	Minimal Time Generation of Density Matrices for a Two-Level Quantum System Driven by Coherent and Incoherent Controls. International Journal of Theoretical Physics, 2021, 60, 576-584.	0.5	18
4	Optimal control of the spin system on a basis of the global improvement method. Automation and Remote Control, 2011, 72, 1213-1220.	0.4	14
5	Maximization of the Overlap between Density Matrices for a Two-Level Open Quantum System Driven by Coherent and Incoherent Controls. Lobachevskii Journal of Mathematics, 2019, 40, 1532-1548.	0.1	13
6	Machine Learning for Finding Suboptimal Final Times and Coherent and Incoherent Controls for an Open Two-Level Quantum System. Lobachevskii Journal of Mathematics, 2020, 41, 2353-2368.	0.1	13
7	Maximization of the Uhlmann-Jozsa Fidelity for an Open Two-Level Quantum System with Coherent and Incoherent Controls. Physics of Particles and Nuclei, 2020, 51, 464-469.	0.2	12
8	Generation of Density Matrices for Two Qubits Using Coherent and Incoherent Controls. Lobachevskii Journal of Mathematics, 2021, 42, 2401-2412.	0.1	10
9	Numerical investigation of attainability sets of nonlinear controlled differential systems. Automation and Remote Control, 2011, 72, 1291-1300.	0.4	8
10	Discontinuous solutions of the optimal control problems. Iterative optimization method. Automation and Remote Control, 2013, 74, 1948-1968.	0.4	6
11	Constructive methods of control optimization in nonlinear systems. Automation and Remote Control, 2009, 70, 772-786.	0.4	5
12	Numerical estimation of reachable and controllability sets for a two-level open quantum system driven by coherent and incoherent controls. AIP Conference Proceedings, 2021, , .	0.3	4
13	On Reachable and Controllability Sets for Minimum-Time Control of an Open Two-Level Quantum System. Proceedings of the Steklov Institute of Mathematics, 2021, 313, 149-164.	0.1	4
14	An algorithm for numerical synthesis of optimal control. Automation and Remote Control, 2008, 69, 645-653.	0.4	2
15	On approximation of the subdifferential of the nonsmooth penalty functional in the problems of optimal control. Automation and Remote Control, 2009, 70, 761-771.	0.4	2
16	On optimization of position control in attainability tube in a model problem. Journal of Computer and Systems Sciences International, 2010, 49, 740-749.	0.2	2
17	Nonlocal improvement of nonlinear controlled processes on the basis of sufficient optimality conditions. Automation and Remote Control, 2010, 71, 1526-1539.	0.4	2
18	Nonlocal improvement of controlling functions and parameters in nonlinear dynamical systems. Automation and Remote Control, 2012, 73, 1822-1837.	0.4	1

#	ARTICLE	IF	CITATIONS
19	10.1007/s11488-008-1001-3. , 2010, 47, 1.		0
20	Nonlocal Improvement of Controls in Nonlinear Discrete Systems. Bulletin of Irkutsk State University, Series Mathematics, 2017, 19, 150-163.	0.1	0