

Marat Rafikov

List of Publications by Year in descending order

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35
papers

950
citations

687363

13
h-index

552781

26
g-index

36
all docs

36
docs citations

36
times ranked

773
citing authors

#	ARTICLE	IF	CITATIONS
1	On control and synchronization in chaotic and hyperchaotic systems via linear feedback control. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1246-1255.	3.3	242
2	Synchronization of the unified chaotic system and application in secure communication. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2793-2806.	3.3	122
3	On an optimal control design for Rössler system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 333, 241-245.	2.1	88
4	An Intelligent Controller Design for Magnetorheological Damper Based on a Quarter-car Model. JVC/Journal of Vibration and Control, 2009, 15, 1907-1920.	2.6	66
5	Mathematical modeling and control of population systems: Applications in biological pest control. Applied Mathematics and Computation, 2008, 200, 557-573.	2.2	59
6	Optimal control strategy of malaria vector using genetically modified mosquitoes. Journal of Theoretical Biology, 2009, 258, 418-425.	1.7	58
7	A reducing of a chaotic movement to a periodic orbit, of a micro-electro-mechanical system, by using an optimal linear control design. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 1844-1853.	3.3	40
8	Nonlinear Mathematical Modeling in Pneumatic Servo Position Applications. Mathematical Problems in Engineering, 2011, 2011, 1-16.	1.1	38
9	Simulating malaria model for different treatment intensities in a variable environment. Ecological Modelling, 2007, 206, 322-330.	2.5	26
10	An optimal linear control design for nonlinear systems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2008, 30, .	1.6	25
11	Optimal Control of an Underwater Glider Vehicle. Procedia Engineering, 2017, 176, 732-740.	1.2	23
12	Mathematical modelling of the biological pest control of the sugarcane borer. International Journal of Computer Mathematics, 2012, 89, 390-401.	1.8	22
13	Optimal pest control problem in population dynamics. Computational and Applied Mathematics, 2005, 24, .	1.3	19
14	Nonlinear optimal control of population systems: applications in ecosystems. Nonlinear Dynamics, 2014, 76, 1141-1150.	5.2	14
15	On dynamical behavior of the sugarcane borer – Parasitoid agroecosystem. Ecological Complexity, 2014, 18, 67-73.	2.9	14
16	On non-linear dynamics and control designs applied to the ideal and non-ideal variants of the Fitzhugh–Nagumo (FN) mathematical model. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 892-905.	3.3	10
17	Impulsive Biological Pest Control Strategies of the Sugarcane Borer. Mathematical Problems in Engineering, 2012, 2012, 1-14.	1.1	10
18	Synchronization analysis for chaotic communication on a satellite formation flying. Acta Astronautica, 2010, 67, 881-891.	3.2	9

#	ARTICLE	IF	CITATIONS
19	On non-linear dynamics and an optimal control synthesis of the action potential of membranes (ideal) Tj ETQq1 1 0.784314 rgBT /Over 2009, 39, 1651-1666.	5.1	8
20	Optimal Linear and Nonlinear Control Design for Chaotic Systems. , 2005, , 867.		7
21	Chaotic communication on a satellite formation flyingâ€”The synchronization issue in a scenario with transmission delays. Acta Astronautica, 2010, 66, 1160-1168.	3.2	7
22	Optimization of the <i>Aedes aegypti</i> Control Strategies for Integrated Vector Management. Journal of Applied Mathematics, 2015, 2015, 1-8.	0.9	7
23	Biological control of the chaotic sugarcane borer-parasitoid agroecosystem. Ecological Modelling, 2021, 450, 109564.	2.5	7
24	On Nonlinear Dynamics and an Optimal Control Design to a Longitudinal Flight. Journal of Computational and Nonlinear Dynamics, 2008, 3, .	1.2	6
25	Controlling <i>Aedes aegypti</i> populations by limited <i>Wolbachia</i> -based strategies in a seasonal environment. Mathematical Methods in the Applied Sciences, 2019, 42, 5736-5745.	2.3	6
26	Optimal control of indirect matrix converter based microturbine generation system. , 2011, , .		5
27	Real time simulation of Two-Stage Matrix Converter using ideal and nonideal IGBT models. , 2011, , .		3
28	Synchronization of the Mobile Robot to a Chaotic Trajectory. Journal of Applied Nonlinear Dynamics, 2016, 5, 325-335.	0.3	3
29	Optimization of biological pest control of sugarcane borer. , 2009, , .		2
30	Nonlinear control evaluation of two-stage matrix converter using ideal and non-ideal IGBT Models. , 2011, , .		2
31	Short Comments on an Energy Pumping Levels in a MEMS Gyroscope Vibrating Problem, by Using of an Global and Local Optimal Linear Control Design. , 2009, , .		1
32	Optimal Linear State Feedback Time-Varying Regulator for a Unicycle Mobile Robot. , 2008, , .		0
33	Numerical assessment of a high speed stand-alone generation system based on current controller and a two-stage matrix converter. , 2011, , .		0
34	Controlling the <i>Aedes aegypti</i> mosquito population by <i>Wolbachia</i> -based strategies. AIP Conference Proceedings, 2016, , .	0.4	0
35	Control of Multiple Mobile Robots in Dynamic Formations. Lecture Notes in Mechanical Engineering, 2019, , 359-369.	0.4	0