

Heinz Schaettler

List of Publications by Year in descending order

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25
papers

752
citations

840776

11
h-index

888059

17
g-index

25
all docs

25
docs citations

25
times ranked

531
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric Optimal Control. <i>Interdisciplinary Applied Mathematics</i> , 2012, , .	0.3	181
2	AntiAngiogenic Therapy in Cancer Treatment as an Optimal Control Problem. <i>SIAM Journal on Control and Optimization</i> , 2007, 46, 1052-1079.	2.1	146
3	On optimal delivery of combination therapy for tumors. <i>Mathematical Biosciences</i> , 2009, 222, 13-26.	1.9	143
4	Optimal Control for Mathematical Models of Cancer Therapies. <i>Interdisciplinary Applied Mathematics</i> , 2015, , .	0.3	113
5	Dynamical properties of a minimally parameterized mathematical model for metronomic chemotherapy. <i>Journal of Mathematical Biology</i> , 2016, 72, 1255-1280.	1.9	24
6	ON OPTIMAL CHEMOTHERAPY FOR HETEROGENEOUS TUMORS. <i>Journal of Biological Systems</i> , 2014, 22, 177-197.	1.4	20
7	Optimal Combined Radio- and Anti-Angiogenic Cancer Therapy. <i>Journal of Optimization Theory and Applications</i> , 2019, 180, 321-340.	1.5	18
8	A 3-Compartment Model for Chemotherapy of Heterogeneous Tumor Populations. <i>Acta Applicandae Mathematicae</i> , 2015, 135, 191-207.	1.0	17
9	Comparison of optimal controls for a model in cancer chemotherapy with L1- and L2-type objectives. <i>Optimization Methods and Software</i> , 2004, 19, 339-350.	2.4	15
10	Robustness of optimal controls for a class of mathematical models for tumor anti-angiogenesis. <i>Mathematical Biosciences and Engineering</i> , 2011, 8, 355-369.	1.9	15
11	Optimal Control for a Mathematical Model of Glioma Treatment with Oncolytic Therapy and TNF- α Inhibitors. <i>Journal of Optimization Theory and Applications</i> , 2018, 176, 456-477.	1.5	13
12	Clustering the Bulk Power System with Applications Towards Hopf Bifurcation Related Oscillatory Instability. <i>Electric Power Components and Systems</i> , 2005, 33, 181-198.	1.8	8
13	Optimizing Chemotherapeutic Anti-cancer Treatment and the Tumor Microenvironment: An Analysis of Mathematical Models. <i>Advances in Experimental Medicine and Biology</i> , 2016, 936, 209-223.	1.6	7
14	Bifurcation of singular arcs in an optimal control problem for cancer immune system interactions under treatment. , 2010, , .		5
15	On optimal protocols for combinations of chemo- and immunotherapy. , 2012, , .		5
16	On the structure of optimal controls for a mathematical model of tumor anti-angiogenic therapy with linear pharmacokinetics. , 2009, , .		4
17	A geometric analysis of bang-bang extremals in optimal control problems for combination cancer chemotherapy. , 2012, , .		4
18	On the role of tumor heterogeneity for optimal cancer chemotherapy. <i>Networks and Heterogeneous Media</i> , 2019, 14, 131-147.	1.1	3

#	ARTICLE	IF	CITATIONS
19	Combination of antiangiogenic treatment with chemotherapy as a multi-input optimal control problem. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 3058-3082.	2.3	3
20	Piecewise constant suboptimal controls for a system describing tumor growth under angiogenic treatment. , 2009, , .		2
21	The effect of pharmacokinetics on optimal protocols for a mathematical model of tumor anti-angiogenic therapy. , 2009, , .		2
22	On classical envelopes in optimal control theory. , 2010, , .		2
23	A Variational Approach to Perturbation Feedback Control for Optimal Control Problems with Terminal Constraints and Free Terminal Time. <i>Set-Valued and Variational Analysis</i> , 2019, 27, 309-330.	1.1	1
24	Pitfalls in applying optimal control to dynamical systems: An overview and editorial perspective. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 6711.	0.9	1
25	Time-optimal frictionless atom cooling in harmonic traps. , 2012, , .		0