Pedro Gajardo

List of Publications by Year
in descending order

33 papers	179 citations	1040056 9 h-index	1199594 12 g-index
33 all docs	33 docs citations	33 times ranked	126 citing authors

#	Article	IF	Citations
1	Optimal Synthesis for the Minimum Time Control Problems of Fed-Batch Bioprocesses for Growth Functions with Two Maxima. Journal of Optimization Theory and Applications, 2013, 158, 521-553.	1.5	16
2	On the steady state optimization of the biogas production in a two-stage anaerobic digestion model. Journal of Mathematical Biology, 2019, 78, 1067-1087.	1.9	16
3	Links between directional derivatives through multidirectional mean value inequalities. Mathematical Programming, 2009, 116, 57-77.	2.4	13
4	Various Lipschitz-like Properties for Functions and Sets I: Directional Derivative and Tangential Characterizations. SIAM Journal on Optimization, 2010, 20, 1766-1785.	2.0	11
5	Sustainable thresholds for cooperative epidemiological models. Mathematical Biosciences, 2018, 302, 9-18.	1.9	11
6	Eigenvalues of Set-Valued Operators in Banach Spaces. Set-Valued and Variational Analysis, 2005, 13, 1-19.	0.5	10
7	Equilibrium problems involving the Lorentz cone. Journal of Global Optimization, 2014, 58, 321-340.	1.8	10
8	Analysis of an Optimal Control Problem Related to the Anaerobic Digestion Process. Journal of Optimization Theory and Applications, 2018, 178, 627-659.	1.5	10
9	Subdifferential representation formula and subdifferential criteria for the behavior of nonsmooth functions. Nonlinear Analysis: Theory, Methods & Applications, 2006, 65, 864-891.	1.1	9
10	Minimal time bioremediation of natural water resources. Automatica, 2011, 47, 1764-1769.	5.0	9
11	Higher-order spectral analysis and weak asymptotic stability of convex processes. Journal of Mathematical Analysis and Applications, 2006, 318, 155-174.	1.0	6
12	Solving inverse cone-constrained eigenvalue problems. Numerische Mathematik, 2013, 123, 309-331.	1.9	6
13	Sustainability standards, multicriteria maximin, and viability. Natural Resource Modelling, 2020, 33, .	2.0	6
14	Viable states for monotone harvest models. Systems and Control Letters, 2011, 60, 192-197.	2.3	5
15	Comparison of performance in an anaerobic digestion process: one-reactor vs two-reactor configurations. Mathematical Biosciences and Engineering, 2019, 16, 2447-2465.	1.9	5
16	Epsilon-Eigenvalues of Multivalued Operators. Set-Valued and Variational Analysis, 2003, 11, 273-296.	0.5	4
17	HARVESTING ECONOMIC MODELS AND CATCH‐TO‐BIOMASS DEPENDENCE: THE CASE OF SMALL PELAGIC FISH. Natural Resource Modelling, 2011, 24, 268-296.	2.0	4
18	Reconstructing a matrix from a partial sampling of Pareto eigenvalues. Computational Optimization and Applications, 2012, 51, 1119-1135.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Optimality of affine control system of several species in competition on a sequential batch reactor. International Journal of Control, 2014, 87, 1877-1885.	1.9	4
20	Methods for the Sustainable Rebuilding of Overexploited Natural Resources. Environmental Modeling and Assessment, 2018, 23, 713-727.	2.2	4
21	The viability kernel of dynamical systems with mixed constraints: AÂlevel-set approach. Systems and Control Letters, 2019, 127, 6-12.	2.3	4
22	Assessment of event-triggered policies of nonpharmaceutical interventions based on epidemiological indicators. Journal of Mathematical Biology, 2021, 83, 42.	1.9	3
23	Existence of Minimizers on Drops. SIAM Journal on Optimization, 2013, 23, 1154-1166.	2.0	2
24	Pareto Fronts of the Set of Sustainable Thresholds for Constrained Control Systems. Applied Mathematics and Optimization, 2021, 83, 1103-1121.	1.6	2
25	Modelling cost-effectiveness of syphilis detection strategies in prisoners: exploratory exercise in a Chilean male prison. Cost Effectiveness and Resource Allocation, 2021, 19, 5.	1.5	2
26	Minimal time control of fed-batch bioreactor with product inhibition. , 2012, , .		1
27	On optimal strategies for feeding in minimal time a SBR with several species. , 2012, , .		1
28	Cross-nonnegativity and monotonicity analysis of nonlinear dynamical systems. Journal of Differential Equations, 2021, 300, 33-52.	2.2	1
29	Tools for improving feeding strategies in a SBR with several species. Bioprocess and Biosystems Engineering, 2014, 37, 63-70.	3.4	0
30	Monotonicity beyond Minty and Kato on locally convex spaces. Journal of Mathematical Analysis and Applications, 2016, 435, 1701-1709.	1.0	0
31	Comparison theorem for viability kernels via conic preorders. Systems and Control Letters, 2020, 145, 104799.	2.3	0
32	Optimal Control of Diseases in Prison Populations through Screening Policies of New Inmates. SIAM Journal on Control and Optimization, 0, , S1-S26.	2.1	0
33	On the set of robust sustainable thresholds. Natural Resource Modelling, 0, , e12334.	2.0	0