

Lino J Alvarez-Vazquez

List of Publications by Year in descending order

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72
papers

539
citations

687363

13
h-index

794594

19
g-index

80
all docs

80
docs citations

80
times ranked

324
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal location of green zones in metropolitan areas to control the urban heat island. Journal of Computational and Applied Mathematics, 2015, 289, 412-425.	2.0	33
2	Numerical Optimization for the Location of Wastewater Outfalls. Computational Optimization and Applications, 2002, 22, 399-417.	1.6	29
3	Multi-objective Pareto-optimal control: an application to wastewater management. Computational Optimization and Applications, 2010, 46, 135-157.	1.6	28
4	Optimal location of sampling points for river pollution control. Mathematics and Computers in Simulation, 2006, 71, 149-160.	4.4	25
5	An optimal shape problem related to the realistic design of river fishways. Ecological Engineering, 2008, 32, 293-300.	3.6	25
6	Optimization methods for optimal transmitter locations in a mobile wireless system. IEEE Transactions on Vehicular Technology, 2002, 51, 1316-1321.	6.3	22
7	An application of optimal control theory to river pollution remediation. Applied Numerical Mathematics, 2009, 59, 845-858.	2.1	22
8	Mathematical analysis of a three-dimensional eutrophication model. Journal of Mathematical Analysis and Applications, 2009, 349, 135-155.	1.0	21
9	THE WATER CONVEYANCE PROBLEM: OPTIMAL PURIFICATION OF POLLUTED WATERS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 1393-1416.	3.3	19
10	On optimal location and management of a new industrial plant: Numerical simulation and control. Journal of the Franklin Institute, 2014, 351, 1356-1371.	3.4	16
11	Analysis of a multistate control problem related to food technology. Journal of Differential Equations, 2008, 245, 130-153.	2.2	15
12	Mathematical analysis of the optimal location of wastewater outfalls. IMA Journal of Applied Mathematics, 2002, 67, 23-39.	1.6	14
13	Numerical simulation of air pollution due to traffic flow in urban networks. Journal of Computational and Applied Mathematics, 2017, 326, 44-61.	2.0	14
14	Numerical convergence for a sewage disposal problem. Applied Mathematical Modelling, 2001, 25, 1015-1024.	4.2	13
15	Optimal control of a bioreactor. Applied Mathematics and Computation, 2010, 216, 2559-2575.	2.2	13
16	Modelling and control of natural convection in canned foods. IMA Journal of Applied Mathematics, 1999, 63, 247-265.	1.6	12
17	Optimal control of eutrophication processes in a moving domain. Journal of the Franklin Institute, 2014, 351, 4142-4182.	3.4	11
18	Optimal shape design for fishways in rivers. Mathematics and Computers in Simulation, 2007, 76, 218-222.	4.4	10

#	ARTICLE	IF	CITATIONS
19	Optimal management of an urban road network with an environmental perspective. <i>Computers and Mathematics With Applications</i> , 2019, 77, 1786-1797.	2.7	10
20	Optimal control of urban air pollution related to traffic flow in road networks. <i>Mathematical Control and Related Fields</i> , 2018, 8, 177-193.	1.1	10
21	Vertical slot fishways: Mathematical modeling and optimal management. <i>Journal of Computational and Applied Mathematics</i> , 2008, 218, 395-403.	2.0	9
22	Optimal Management of a Bioreactor for Eutrophicated Water Treatment: A Numerical Approach. <i>Journal of Scientific Computing</i> , 2010, 43, 67-91.	2.3	9
23	Pareto-optimal solutions for a wastewater treatment problem. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 2193-2201.	2.0	9
24	On the optimal design of river fishways. <i>Optimization and Engineering</i> , 2013, 14, 193-211.	2.4	9
25	Asymptotic justification of an evolution linear thermoelastic model for rods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1994, 115, 93-109.	6.6	8
26	Improving the environmental impact of wastewater discharges with a specific simulation optimization software. <i>Journal of Computational and Applied Mathematics</i> , 2013, 246, 320-328.	2.0	7
27	Mathematical analysis and optimal control of heavy metals phytoremediation techniques. <i>Applied Mathematical Modelling</i> , 2019, 73, 387-400.	4.2	7
28	Optimal design and operation of a wastewater purification system. <i>Mathematics and Computers in Simulation</i> , 2008, 79, 668-682.	4.4	6
29	An Arbitrary Lagrangian Eulerian formulation for a 3D eutrophication model in a moving domain. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 366, 319-334.	1.0	6
30	Flow regulation for water quality restoration in a river section: Modeling and control. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 1267-1276.	2.0	6
31	The importance of design in river fishways. <i>Procedia Environmental Sciences</i> , 2011, 9, 6-10.	1.4	6
32	Bilevel optimal control of urban traffic-related air pollution by means of Stackelberg strategies. <i>Optimization and Engineering</i> , 2022, 23, 1165-1188.	2.4	6
33	The effect of different scalings in the modelling of nonlinearity elastic plates with rapidly varying thickness. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1992, 96, 1-24.	6.6	5
34	A wastewater treatment problem: study of the numerical convergence. <i>Journal of Computational and Applied Mathematics</i> , 2002, 140, 27-39.	2.0	5
35	STERILIZATION OF CANNED VISCOUS FOODS: AN OPTIMAL CONTROL APPROACH. <i>Mathematical Models and Methods in Applied Sciences</i> , 2004, 14, 355-374.	3.3	5
36	SOS: A numerical simulation toolbox for decision support related to wastewater discharges and their environmental impact. <i>Environmental Modelling and Software</i> , 2011, 26, 543-545.	4.5	5

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37	An application of interactive multi-criteria optimization to air pollution control. Optimization, 2015, 64, 1367-1380.	1.7	5
38	A 3D optimal control problem related to the urban heat islands. Journal of Mathematical Analysis and Applications, 2017, 446, 1571-1605.	1.0	5
39	Sediment minimization in canals: An optimal control approach. Mathematics and Computers in Simulation, 2018, 149, 109-122.	4.4	5
40	Designing an ecologically optimized road corridor surrounding restricted urban areas: A mathematical methodology. Mathematics and Computers in Simulation, 2021, 190, 745-759.	4.4	5
41	Water artificial circulation for eutrophication control. Mathematical Control and Related Fields, 2018, 8, 277-313.	1.1	5
42	Derivation of an evolution model for nonlinearly elastic beams by asymptotic expansion methods. Computer Methods in Applied Mechanics and Engineering, 1994, 115, 53-66.	6.6	4
43	Methodology for Identifying Optimal Locations of Water Quality Sensors in River Systems. Environmental Modeling and Assessment, 2013, 18, 95-103.	2.2	4
44	Stackelberg strategies for wastewater management. Journal of Computational and Applied Mathematics, 2015, 280, 217-230.	2.0	4
45	Optimal Shape Design of Wastewater Canals in a Thermal Power Station. Mathematics in Industry, 2014, , 59-64.	0.3	4
46	Asymptotic modelling of a nonsymmetric beam. Journal of Computational and Applied Mathematics, 2000, 126, 433-447.	2.0	3
47	Mathematical model for optimal control in wastewater discharges: the global performance. Comptes Rendus - Biologies, 2005, 328, 327-336.	0.2	3
48	Optimisation of the antenna placement for an airport surveillance system. International Journal of Mobile Network Design and Innovation, 2007, 2, 209.	0.1	3
49	A local regularity result for Neumann parabolic problems with nonsmooth data. Indagationes Mathematicae, 2017, 28, 494-515.	0.4	3
50	A Novel Formulation for Designing a Monitoring Strategy: Application to the Design of a River Quality Monitoring System. Environmental Modeling and Assessment, 2017, 22, 279-289.	2.2	3
51	Genuinely clamped beams. Computer Methods in Applied Mechanics and Engineering, 1998, 158, 375-388.	6.6	2
52	New Models for Bending and Torsion of Variable Cross Section Rods. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1999, 79, 835-853.	1.6	1
53	Analysis of a time optimal control problem related to the management of a bioreactor. ESAIM - Control, Optimisation and Calculus of Variations, 2011, 17, 722-748.	1.3	1
54	Optimal Control of Sediment in Irrigation Canals. , 2018, , .		1

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55	Mathematical analysis and numerical resolution of a heat transfer problem arising in water recirculation. <i>Journal of Computational and Applied Mathematics</i> , 2020, 366, 112402.	2.0	1
56	On existence and uniqueness of solution for a hydrodynamic problem related to water artificial circulation in a lake. <i>Indagationes Mathematicae</i> , 2020, 31, 235-250.	0.4	1
57	Urban Heat Island Effect in Metropolitan Areas: An Optimal Control Perspective. <i>Lecture Notes in Computational Science and Engineering</i> , 2019, , 829-837.	0.3	1
58	Modeling and optimization of a non-symmetric plate. <i>ESAIM: Proceedings and Surveys</i> , 1997, 2, 215-224.	0.4	0
59	New models for rods with genuinely clamped ends. <i>Applicable Analysis</i> , 1998, 68, 395-408.	1.3	0
60	Mathematical Modelling and Numerical Optimization in the Process of River Pollution Control. , 2006, , 1040-1048.		0
61	Numerical optimization for the purification of polluted shallow waters. <i>Journal of Computational and Applied Mathematics</i> , 2006, 189, 191-206.	2.0	0
62	Optimal operation for a river fishway. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2060033-2060034.	0.2	0
63	Optimal reclamation of polluted rivers. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2060055-2060056.	0.2	0
64	Optimal Control of Phytoremediation Techniques for Heavy Metals Removal in Shallow Water. , 2019, , 352-360.		0
65	Optimal Management and Design of a Wastewater Purification System. <i>Mathematics in Industry</i> , 2008, , 795-800.	0.3	0
66	Management of Several Purifying Plants in the Same Area: A Multi-Objective Optimal Control Problem. <i>Mathematics in Industry</i> , 2010, , 691-696.	0.3	0
67	Numerical Optimization of a Bioreactor for the Treatment of Eutrophicated Water. , 2010, , 77-85.		0
68	Optimal Control for River Pollution Remediation. , 2010, , 627-635.		0
69	Fishway Optimization Revisited. <i>Mathematics in Industry</i> , 2012, , 545-551.	0.3	0
70	Optimal Location of River Sampling Stations: A Case Study. <i>Mathematics in Industry</i> , 2014, , 39-45.	0.3	0
71	Environmentally Optimized Management of Urban Road Networks. <i>Mathematics in Industry</i> , 2019, , 453-459.	0.3	0
72	Optimal Control of Heavy Metals Phytoremediation. <i>Mathematics in Industry</i> , 2019, , 461-467.	0.3	0