

JosÃ© Maria Grau

List of Publications by Year in descending order

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69
papers

332
citations

1040056

9
h-index

996975

15
g-index

69
all docs

69
docs citations

69
times ranked

255
citing authors

#	ARTICLE	IF	CITATIONS
19	Solutions of the congruence. <i>Mathematische Nachrichten</i> , 2016, 289, 820-830.	0.8	4
20	A comparative economic study of two configurations of hydro-wind power plants. <i>Energy</i> , 2016, 112, 8-16.	8.8	18
21	The operation of infimal/supremal convolution in mathematical economics. <i>International Journal of Computer Mathematics</i> , 2016, 93, 735-748.	1.8	2
22	A primality test for ω_k+1 numbers. <i>Mathematics of Computation</i> , 2015, 84, 505-512.	2.1	2
23	Fermat test with Gaussian base and Gaussian pseudoprimes. <i>Czechoslovak Mathematical Journal</i> , 2015, 65, 969-982.	0.3	1
24	A general algorithm for control problems with variable parameters and quasi-linear models. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
25	On the Structure of Quaternion Rings Over $\mathbb{Z}/n\mathbb{Z}$. <i>Advances in Applied Clifford Algebras</i> , 2015, 25, 875-887.	1.0	11
26	On the congruence $1^m + 2^m + \dots + m^m \equiv n \pmod{m}$ with $n \equiv 1 + 2 + \dots + m \pmod{m}$ and $n \equiv 1 \pmod{m}$. <i>Monatshefte Fur Mathematik</i> , 2015, 177, 421-436.	0.9	4
27	A von Staudt-type result for $\sum_{z \in \mathbb{Z}_n[i]} z^k$. <i>Monatshefte Fur Mathematik</i> , 2015, 178, 345-359.	0.9	2
28	Counting invertible sums of squares modulo n and a new generalization of Euler's totient function. <i>Publicationes Mathematicae</i> , 2015, 87, 133-145.	0.2	3
29	A comparison between a hydro-wind plant and wind speed forecasting using ARIMA models. , 2014, , .		1
30	Generalization of the Firm's Profit Maximization Problem: An Algorithm for the Analytical and Nonsmooth Solution. <i>Computational Economics</i> , 2014, 43, 1-14.	2.6	1
31	Optimal control of a linear unbranched chemical process with n steps: the quasi-analytical solution. <i>Journal of Mathematical Chemistry</i> , 2014, 52, 1036-1049.	1.5	6
32	An economic dispatch algorithm of combined cycle units. <i>International Journal of Computer Mathematics</i> , 2014, 91, 269-277.	1.8	6
33	A hydrothermal problem with non-smooth Lagrangian. <i>Journal of Industrial and Management Optimization</i> , 2014, 10, 761-776.	1.3	3
34	ON THE LAST DIGIT AND THE LAST NON-ZERO DIGIT OF n^k IN BASE b . <i>Bulletin of the Korean Mathematical Society</i> , 2014, 51, 1325-1337.	0.3	2
35	Mathematical modelling of the combined optimization of a pumped-storage hydro-plant and a wind park. <i>Mathematical and Computer Modelling</i> , 2013, 57, 2024-2028.	2.0	25
36	An Exact Algorithm for the Continuous Quadratic Knapsack Problem via Infimal Convolution. <i>Intelligent Systems Reference Library</i> , 2013, , 97-127.	1.2	0

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37	Real-time optimization of wind farms and fixed-head pumped-storage hydro-plants. International Journal of Computer Mathematics, 2013, 90, 2147-2160.	1.8	4
38	Corrigendum to "Cullen numbers with the Lehmer property". Proceedings of the American Mathematical Society, 2013, 141, 2941-2943.	0.8	0
39	Cullen numbers with the Lehmer property. Proceedings of the American Mathematical Society, 2012, 140, 129-134.	0.8	5
40	The analytic solution of the firm's cost-minimization problem with box constraints and the Cobb-Douglas model. , 2012, , .		0
41	The Exact Solution of the Environmental/Economic Dispatch Problem. IEEE Transactions on Power Systems, 2012, 27, 723-731.	6.5	53
42	On k-Lehmer Numbers. Integers, 2012, 12, .	0.3	5
43	Numerical approximation to ODEs using the error functional. Proceedings of the American Mathematical Society, 2012, 140, 4295-4308.	0.8	1
44	A quasi-linear algorithm for calculating the infimal convolution of convex quadratic functions. Journal of Computational and Applied Mathematics, 2012, 236, 2990-2997.	2.0	2
45	Cyclic coordinate descent in hydrothermal nonsmooth problems. Numerical Algorithms, 2012, 59, 227-247.	1.9	1
46	On a variant of Giuga numbers. Acta Mathematica Sinica, English Series, 2012, 28, 653-660.	0.6	2
47	An algorithm for bang-bang control of fixed-head hydroplants. International Journal of Computer Mathematics, 2011, 88, 1949-1959.	1.8	4
48	An $\mathcal{O}(\log^2(N))$ time primality test for generalized Cullen numbers. Mathematics of Computation, 2011, 80, 2315-2315.	2.1	4
49	Algorithm for calculating the analytic solution for economic dispatch with multiple fuel units. Computers and Mathematics With Applications, 2011, 62, 2225-2234.	2.7	4
50	The explicit solution of the profit maximization problem with box-constrained inputs. Applied Mathematics and Computation, 2011, 217, 8705-8715.	2.2	2
51	Optimization of a Pumped-Storage Fixed-Head Hydroplant: The Bang-Singular-Bang Solution. Mathematical Problems in Engineering, 2011, 2011, 1-11.	1.1	2
52	Initial guess of the solution of dynamic optimization of chemical processes. Journal of Mathematical Chemistry, 2010, 48, 28-37.	1.5	15
53	An analytic solution for some separable convex quadratic programming problems with equality and inequality constraints. Journal of Mathematical Inequalities, 2010, , 453-465.	0.9	8
54	An Optimal Control Technique for Solving Differential Equations. , 2009, , .		0

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55	An optimization problem in deregulated electricity markets solved with the nonsmooth maximum principle. International Journal of Computer Mathematics, 2009, 86, 237-249.	1.8	6
56	An application of the algorithm of the cyclic coordinate descent in multidimensional optimization problems with constrained speed. Numerical Algorithms, 2009, 52, 129-149.	1.9	2
57	A constrained and non-smooth hydrothermal problem. Applied Mathematics and Computation, 2009, 209, 10-18.	2.2	9
58	Influence of the elevation-storage curve in the optimization of hydroplants. International Journal for Simulation and Multidisciplinary Design Optimization, 2009, 3, 326-331.	1.1	3
59	An environmentally constrained economic dispatch: CFBC boilers in the day-ahead market. International Journal of Computer Mathematics, 2008, 85, 345-358.	1.8	3
60	The Cyclic Coordinate Descent in Hydrothermal Optimization Problems with Non-Regular Lagrangian. AIP Conference Proceedings, 2007, , .	0.4	1
61	A Bolza problem in hydrothermal optimization. Applied Mathematics and Computation, 2007, 184, 12-22.	2.2	10
62	Nonsmooth optimization of hydrothermal problems. Journal of Computational and Applied Mathematics, 2006, 192, 11-19.	2.0	7
63	Optimization of SO ₂ and NO _x Emissions in Thermal Plants. Journal of Mathematical Chemistry, 2006, 40, 29-41.	1.5	5
64	New developments on equivalent thermal in hydrothermal optimization: an algorithm of approximation. Journal of Computational and Applied Mathematics, 2005, 175, 63-75.	2.0	15
65	New developments in the application of Pontryagin's Principle for the hydrothermal optimization. IMA Journal of Mathematical Control and Information, 2005, 22, 377-393.	1.7	5
66	The first Weierstrass-Erdmann condition in variational problems involving differential inclusions. Mathematical Inequalities and Applications, 2004, , 457-469.	0.2	1
67	NEW DEVELOPMENTS ON EQUIVALENT THERMAL IN HYDROTHERMAL OPTIMIZATION.: AN ALGORITHM OF APPROXIMATION. , 2003, , .		0
68	A new formulation of the equivalent thermal in optimization of hydrothermal systems. Mathematical Problems in Engineering, 2002, 8, 181-196.	1.1	26
69	Counting non-isomorphic generalized Hamilton quaternions. International Electronic Journal of Algebra, 0, , 143-160.	1.1	0