José Maria Grau

List of Publications by Year in descending order

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1040056 996975 69 332 9 15 citations g-index h-index papers 69 69 69 255 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Computing solutions to the congruence 1n+2n+âc+nn≡p(modn). Discrete Applied Mathematics, 2020, 286, 3-9.	0.9	O
2	An extension of the Last-Success-Problem. Statistics and Probability Letters, 2020, 156, 108591.	0.7	3
3	Irreversible linear pathways in enzymatic reactions: analytical solution using the homotopy perturbation method. Journal of Mathematical Chemistry, 2020, 58, 273-291.	1.5	4
4	A Turn-Based Game Related to the Last-Success-Problem. Dynamic Games and Applications, 2020, 10, 836-844.	1.9	2
5	A primality test for \$\$4Kp^n-1\$\$ numbers. Monatshefte Fur Mathematik, 2020, 191, 93-101.	0.9	O
6	An Optimal Stopping Problem for an Investing Firm. Economic Computation and Economic Cybernetics Studies and Research, 2020, 54, 65-78.	0.4	0
7	A new look at the returning secretary problem. Journal of Combinatorial Optimization, 2019, 37, 1216-1236.	1.3	3
8	The Best-or-Worst and the Postdoc problems with random number of candidates. Journal of Combinatorial Optimization, 2019, 38, 86-110.	1.3	6
9	Optimal control of counter-terrorism tactics. Applied Mathematics and Computation, 2019, 347, 477-491.	2.2	0
10	Fast computation of the number of solutions to $x12+\hat{a}^-+xk2\hat{a}\%_i\hat{l}$ » (modn). Journal of Number Theory, 2019, 200, 427-440.	0.4	0
11	Computational Approach for the Firm's Cost Minimization Problem Using the Selective Infimal Convolution Operator. Computational Economics, 2019, 54, 535-549.	2.6	O
12	Generalized Quaternion Rings over $\$$ mathbb $\{Z\}/n$ mathbb $\{Z\}$ \$\$ Z/n Z for an Odd $\$$ varvec $\{n\}$ \$\$ n. Advances in Applied Clifford Algebras, 2018, 28, 1.	1.0	3
13	The Best-or-Worst and the Postdoc problems. Journal of Combinatorial Optimization, 2018, 35, 703-723.	1.3	10
14	CMMSE-17: general analytical laws for metabolic pathways. Journal of Mathematical Chemistry, 2018, 56, 1813-1825.	1.5	0
15	On power sums of matrices over a finite commutative ring. International Journal of Algebra and Computation, 2017, 27, 547-560.	0.5	2
16	Power sums over finite commutative unital rings. Finite Fields and Their Applications, 2017, 48, 10-19.	1.0	1
17	On the Zero Divisor Graphs of the Ring of Lipschitz Integers Modulo n. Advances in Applied Clifford Algebras, 2017, 27, 1191-1202.	1.0	1
18	Variations on Giuga Numbers and Giuga's Congruence. Ukrainian Mathematical Journal, 2016, 67, 1778-1785.	0.5	1

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19	Solutions of the congruence. Mathematische Nachrichten, 2016, 289, 820-830.	0.8	4
20	A comparative economic study of two configurations of hydro-wind power plants. Energy, 2016, 112, 8-16.	8.8	18
21	The operation of infimal/supremal convolution in mathematical economics. International Journal of Computer Mathematics, 2016, 93, 735-748.	1.8	2
22	A primality test for ??â¿+1 numbers. Mathematics of Computation, 2015, 84, 505-512.	2.1	2
23	Fermat test with Gaussian base and Gaussian pseudoprimes. Czechoslovak Mathematical Journal, 2015, 65, 969-982.	0.3	1
24	A general algorithm for control problems with variable parameters and quasi-linear models. AIP Conference Proceedings, 2015 , , .	0.4	0
25	On the Structure of Quaternion Rings Over $\{\text{mathbb}\{Z\}/\text{nmathbb}\{Z\}\}$ Z / n Z. Advances in Applied Clifford Algebras, 2015, 25, 875-887.	1.0	11
26	On the congruence $\$1^m + 2^m + cdots + m^mequiv$ n pmod m \$\$ 1 m + 2 m + a^- + m m a^- n (mod m) wi $\$n a^2$ m. Monatshefte Fur Mathematik, 2015, 177, 421-436.	th	4
27	A von Staudt-type result for $\frac{s}{sum_{zin mathbb} \{Z_n[i]} z^k} $ â´ z â´ Z n [i] z k. Monatshefte Fur Mathematik, 2015, 178, 345-359.	0.9	2
28	Counting invertible sums of squares modulo \$n\$ and a new generalization of Euler's totient function. Publicationes Mathematicae, 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. Computational Economics, 2014, 43, 1-14.	2.6	1
31	Optimal control of a linear unbranched chemical process with \$\$n\$\$ n steps: the quasi-analytical solution. Journal of Mathematical Chemistry, 2014, 52, 1036-1049.	1.5	6
32	An economic dispatch algorithm of combined cycle units. International Journal of Computer Mathematics, 2014, 91, 269-277.	1.8	6
33	A hydrothermal problem with non-smooth Lagrangian. Journal of Industrial and Management Optimization, 2014, 10, 761-776.	1.3	3
34	ON THE LAST DIGIT AND THE LAST NON-ZERO DIGIT OF n ⁿ IN BASE b. Bulletin of the Korean Mathematical Society, 2014, 51, 1325-1337.	0.3	2
35	Mathematical modelling of the combined optimization of a pumped-storage hydro-plant and a wind park. Mathematical and Computer Modelling, 2013, 57, 2024-2028.	2.0	25
36	An Exact Algorithm for the Continuous Quadratic Knapsack Problem via Infimal Convolution. Intelligent Systems Reference Library, 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 $ilde\{O\}(\log^{2}(N))$ 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 SO2 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