Belmiro Pm Duarte

List of Publications by Year
in descending order

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60 papers	467 citations	686830 13 h-index	794141 19 g-index
61 all docs	61 docs citations	61 times ranked	480 citing authors

#	Article	IF	Citations
1	Optimal Design of Experiments for Implicit Models. Journal of the American Statistical Association, 2022, 117, 1424-1437.	1.8	2
2	Optimal design of multivariate acceptance sampling plans by variables. Journal of Statistical Computation and Simulation, 2022, 92, 3129-3149.	0.7	0
3	A model-based framework assisting the design of vapor-liquid equilibrium experimental plans. Computers and Chemical Engineering, 2021, 145, 107168.	2.0	3
4	Optimal Production and Inventory Policy in a Multiproduct Bakery Unit. Processes, 2021, 9, 101.	1.3	4
5	Optimal experimental design for linear time invariant stateâ€“space models. Statistics and Computing, 2021, 31, 1.	0.8	1
6	Optimal design of mixture experiments for general blending models. Chemometrics and Intelligent Laboratory Systems, 2021, 217, 104400.	1.8	1
7	Approximate and exact optimal designs for $$2^k$$ factorial experiments for generalized linear models via second order cone programming. Statistical Papers, 2020, 61, 2737-2767.	0.7	2
8	Optimal exact designs of experiments via Mixed Integer Nonlinear Programming. Statistics and Computing, 2020, 30, 93-112.	0.8	11
9	A comparison of process alternatives for energy-efficient bioethanol downstream processing. Separation and Purification Technology, 2020, 238, 116414.	3.9	17
10	Calculating D-optimal designs for compartmental models with a Michaelisâ€“Menten elimination rate. Journal of Process Control, 2019, 83, 88-101.	1.7	1
11	Optimal exact design of double acceptance sampling plans by attributes. Journal of Statistical Computation and Simulation, 2019, 89, 3313-3329.	0.7	3
12	A Metaheuristic Adaptive Cubature Based Algorithm to Find Bayesian Optimal Designs for Nonlinear Models. Journal of Computational and Graphical Statistics, 2019, 28, 861-876.	0.9	12
13	Optimal Design of Multiple-Objective Lot Quality Assurance Sampling (LQAS) Plans. Biometrics, 2019, 75, 572-581.	0.8	3
14	Optimal Design of Experiments for Liquidâ€“Liquid Equilibria Characterization via Semidefinite Programming. Processes, 2019, 7, 834.	1.3	1
15	Optimal designs of experiments for non-isothermal kinetic rates: analysis of different strategies. Optimization and Engineering, 2019, 20, 725-748.	1.3	0
16	Analysis of Process Alternatives for Energy-Efficient Bioethanol Downstream Processing. Computer Aided Chemical Engineering, 2019, , 391-396.	0.3	0
17	Adaptive grid semidefinite programming for finding optimal designs. Statistics and Computing, 2018, 28, 441-460.	0.8	9
18	An algorithm based on semidefinite programming for finding minimax optimal designs. Computational Statistics and Data Analysis, 2018, 119, 99-117.	0.7	4

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19	A systematic approach for designing Bayesian-Lot Quality Assurance Sampling plans. Operations Research for Health Care, 2018, 19, 175-184.	0.8	2
20	Systematic Development of Kinetic Models for the Glyceride Transesterification Reaction via Alkaline Catalysis. Industrial & Engineering Chemistry Research, 2018, 57, 9903-9914.	1.8	4
21	Integrated production of biodiesel in a soybean biorefinery: Modeling, simulation and economical assessment. Energy, 2017, 129, 273-291.	4.5	37
22	Modeling the drug release from ionic and covalent co-cross-linked chitosan hydrogels. Computer Aided Chemical Engineering, 2017, , 1021-1026.	0.3	1
23	Identifiability of the glyceride transesterification kinetics via alkaline catalysis. Computer Aided Chemical Engineering, 2017, , 289-294.	0.3	0
24	Equation-based Rigorous Modelling of the NOx Absorption Process: Model Development and Process Optimization. Computer Aided Chemical Engineering, 2016, 38, 1479-1484.	0.3	0
25	Dynamics of quality improvement programs â€“ Optimal investment policies. Computers and Industrial Engineering, 2016, 91, 215-228.	3.4	16
26	Model-based optimal design of experiments â€”Semidefinite and nonlinear programming formulations. Chemometrics and Intelligent Laboratory Systems, 2016, 151, 153-163.	1.8	8
27	Finding Bayesian Optimal Designs for Nonlinear Models: A Semidefinite Programmingâ€Based Approach. International Statistical Review, 2015, 83, 239-262.	1.1	23
28	A Semi-Infinite Programming based algorithm for determining T-optimum designs for model discrimination. Journal of Multivariate Analysis, 2015, 135, 11-24.	0.5	19
29	Wide-range and accurate modeling of linear alkylbenzene sulfonate (LAS) adsorption/desorption on agricultural soil. Chemosphere, 2015, 138, 148-155.	4.2	5
30	Production of chitosan microparticles cross-linked with genipin â€“ Identification of factors influencing size and shape properties. Biochemical Engineering Journal, 2015, 104, 82-90.	1.8	21
31	Evaluation of Linear Alkylbenzene Sulfonate (LAS) behaviour in agricultural soil through laboratory continuous studies. Chemosphere, 2015, 131, 1-8.	4.2	13
32	A Robust Minimax Semidefinite Programming Formulation for Optimal Design of Experiments for Model Parametrization. Computer Aided Chemical Engineering, 2015, , 905-910.	0.3	0
33	Reconfiguration of an Oilseed Processing Plant into a Whole-crop Biorefinery. Computer Aided Chemical Engineering, 2014, 33, 1621-1626.	0.3	0
34	A semi-infinite programming based algorithm for finding minimax optimal designs for nonlinear models. Statistics and Computing, 2014, 24, 1063-1080.	0.8	19
35	Solving quality control problems with an algorithm for minimax programs with coupled constraints. Computers and Operations Research, 2014, 41, 223-230.	2.4	0
36	Optimal Design of Acceptance Sampling Plans by Variables for Nonconforming Proportions When the Standard Deviation Is Unknown. Communications in Statistics Part B: Simulation and Computation, 2013, 42, 1318-1342.	0.6	8

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37	Model based optimal experimental design - a semidefinite programming approach applied to a solvent design problem. Computer Aided Chemical Engineering, 2013, 32, 781-786.	0.3	1
38	Optimal design of chitosan-based scaffolds for controlled drug release using dynamic optimization. Computer Aided Chemical Engineering, 2011, , 1553-1557.	0.3	0
39	An optimizationâ€based framework for designing acceptance sampling plans by variables for nonâ€conforming proportions. International Journal of Quality and Reliability Management, 2010, 27, 794-814.	1.3	9
40	Kinetic Models for the Homogeneous Alkaline and Acid Catalysis in Biodiesel Production. Computer Aided Chemical Engineering, 2009, 27, 483-488.	0.3	9
41	Optimal sizing, scheduling and shift policy of the grinding section of a ceramic tile plant. Computers and Operations Research, 2009, 36, 1825-1834.	2.4	10
42	Systematic selection of extraction solvents in the aromatics production. Computer Aided Chemical Engineering, 2009, , 75-80.	0.3	0
43	Moving finite elements method applied to dynamic population balance equations. AICHE Journal, 2008, 54, 673-692.	1.8	5
44	An optimizationâ€based approach for designing attribute acceptance sampling plans. International Journal of Quality and Reliability Management, 2008, 25, 824-841.	1.3	34
45	A mathematical programming framework for optimal model selection/validation of process data. Computer Aided Chemical Engineering, 2008, 25, 343-348.	0.3	2
46	Detection of multiple structural changes in linear processes through Change Point Analysis and bootstraping. Computer Aided Chemical Engineering, 2008, 25, 665-670.	0.3	0
47	Optimal sizing of production units for goods subject to stochastic demand. Computer Aided Chemical Engineering, 2007, 24, 583-588.	0.3	0
48	Using moving finite elements method to solve population balance equations comprising breakage terms. Computer Aided Chemical Engineering, 2007, 24, 255-260.	0.3	1
49	A combinatorial formulation for optimal sizing, scheduling and shift policy in designing the milling section of a ceramic tile industrial plant. Computer Aided Chemical Engineering, 2006, , 913-918.	0.3	0
50	Developing a projects evaluation system based on multiple attribute value theory. Computers and Operations Research, 2006, 33, 1488-1504.	2.4	45
51	Combined Mechanistic and Empirical Modelling. International Journal of Chemical Reactor Engineering, 2004, 2, .	0.6	15
52	Quality prediction in pulp bleaching: application of a neuro-fuzzy system. Control Engineering Practice, 2004, 12, 587-594.	3.2	9
53	Control charts: a cost-optimization approach for processes with random shifts. Applied Stochastic Models in Business and Industry, 2004, 20, 185-200.	0.9	5
54	Hybrid Models Combining Mechanistic Models with Adaptive Regression Splines and Local Stepwise Regression. Industrial & Engineering Chemistry Research, 2003, 42, 99-107.	1.8	19

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55	ISO 9000: Some statistical results for a worldwide phenomenon. Total Quality Management and Business Excellence, 2003, 14, 1169-1178.	2.4	40
56	Change point detection for quality monitoring of chemical processes. Computer Aided Chemical Engineering, 2003, , 401-406.	0.3	1
57	Dynamic modelling and scheduling of an industrial batch digester cooking system. Computer Aided Chemical Engineering, 2001, 9, 847-852.	0.3	0
58	The expected utility theory applied to an industrial decision problem â€" what technological alternative to implement to treat industrial solid residuals. Computers and Operations Research, 2001, 28, 357-380.	2.4	5
59	Moving finite elements method applied to the solution of front reaction models: causticizing reaction. Computers and Chemical Engineering, 1995, 19, 421-426.	2.0	5
60	Optimal design of experiments for hypothesis testing on ordered treatments via intersection-union tests. Statistical Papers, 0, , .	0.7	0