

Jorge Otvio Trierweiler

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

1,284
citations

19
h-index

31
g-index

123
ext. papers

1,491
ext. citations

3.2
avg, IF

4.94
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 119 | Fast microwave assisted pyrolysis of biomass using microwave absorbent. <i>Bioresource Technology</i> , 2014 , 156, 267-74 | 11 | 141 |
| 118 | Fast microwave-assisted pyrolysis of microalgae using microwave absorbent and HZSM-5 catalyst. <i>Bioresource Technology</i> , 2014 , 166, 518-26 | 11 | 117 |
| 117 | Optimal heat exchanger network synthesis: A case study comparison. <i>Applied Thermal Engineering</i> , 2013 , 51, 801-826 | 5.8 | 91 |
| 116 | Simultaneous synthesis of heat exchanger networks with operability considerations: Flexibility and controllability. <i>Computers and Chemical Engineering</i> , 2013 , 55, 158-180 | 4 | 50 |
| 115 | RPN tuning strategy for model predictive control. <i>Journal of Process Control</i> , 2003 , 13, 591-598 | 3.9 | 46 |
| 114 | Growth of microalgae <i>Scenedesmus</i> sp in ethanol vinasse. <i>Brazilian Archives of Biology and Technology</i> , 2014 , 57, 630-635 | 1.8 | 34 |
| 113 | Water reuse in tannery beamhouse process. <i>Journal of Cleaner Production</i> , 2010 , 18, 1545-1552 | 10.3 | 34 |
| 112 | Methodology for Detecting Model-Plant Mismatches Affecting Model Predictive Control Performance. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12072-12085 | 3.9 | 29 |
| 111 | Aspects concerning the use of biosensors for process control: experimental and simulation investigations. <i>Computers and Chemical Engineering</i> , 2003 , 27, 1165-1173 | 4 | 28 |
| 110 | A feedforward-feedback substrate controller based on a Kalman filter for a fed-batch cultivation of <i>Escherichia coli</i> producing phytase. <i>Computers and Chemical Engineering</i> , 2005 , 29, 1113-1120 | 4 | 28 |
| 109 | Fluidized Bed Catalytic Pyrolysis of Eucalyptus over HZSM-5: Effect of Acid Density and Gallium Modification on Catalyst Deactivation. <i>Energy & Fuels</i> , 2018 , 32, 1771-1778 | 4.1 | 26 |
| 108 | Simultaneous cold hydrolysis and fermentation of fresh sweet potato. <i>Biomass and Bioenergy</i> , 2014 , 70, 174-183 | 5.3 | 26 |
| 107 | A heuristic Lagrangean approach for the synthesis of multiperiod heat exchanger networks. <i>Applied Thermal Engineering</i> , 2014 , 63, 177-191 | 5.8 | 25 |
| 106 | Wheat flour characterization using NIR and spectral filter based on Ant Colony Optimization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 132, 133-140 | 3.8 | 25 |
| 105 | Food waste biorefinery advocating circular economy: Bioethanol and distilled beverage from sweet potato. <i>Journal of Cleaner Production</i> , 2020 , 268, 121788 | 10.3 | 25 |
| 104 | Valve stiction estimation using global optimisation. <i>Control Engineering Practice</i> , 2012 , 20, 379-385 | 3.9 | 22 |
| 103 | Deoxygenation of Biomass Pyrolysis Vapors via in Situ and ex Situ Thermal and Biochar Promoted Upgrading. <i>Energy & Fuels</i> , 2019 , 33, 2197-2207 | 4.1 | 21 |

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| 102 | A dynamic model for a FCC UOP stacked converter unit. <i>Computers and Chemical Engineering</i> , 2001 , 25, 851-858 | 4 | 21 |
| 101 | Development of a quantitative approach using Raman spectroscopy for carotenoids determination in processed sweet potato. <i>Food Chemistry</i> , 2018 , 245, 1224-1231 | 8.5 | 19 |
| 100 | Oscillation detection in process industries [Part I: Review of the detection methods. <i>Journal of Process Control</i> , 2019 , 78, 108-123 | 3.9 | 18 |
| 99 | Data-Based Method To Diagnose Valve Stiction with Variable Reference Signal. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10316-10327 | 3.9 | 18 |
| 98 | A case study for control structure selection: air separation plant. <i>Journal of Process Control</i> , 2000 , 10, 237-243 | 3.9 | 18 |
| 97 | Multivariable PID controller design for chemical processes by frequency response approximation. <i>Chemical Engineering Science</i> , 2013 , 88, 1-15 | 4.4 | 17 |
| 96 | Comparison of linear and nonlinear model predictive control of wind turbines using LIDAR 2014 , | | 16 |
| 95 | Fast Offshore Wells Model (FOWM): A practical dynamic model for multiphase oil production systems in deepwater and ultra-deepwater scenarios. <i>Computers and Chemical Engineering</i> , 2017 , 99, 304-313 | 4 | 14 |
| 94 | Simulation and optimization of an industrial PSA unit. <i>Brazilian Journal of Chemical Engineering</i> , 2000 , 17, 695-704 | 1.7 | 14 |
| 93 | Ethanol production from sweet potato: The effect of ripening, comparison of two heating methods, and cost analysis. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 716-724 | 2.3 | 14 |
| 92 | The Effect of Water on Furan Conversion over ZSM-5. <i>ChemCatChem</i> , 2014 , 6, 2497-2500 | 5.2 | 13 |
| 91 | Dynamic Behavior and Control in an Industrial Fluidized-Bed Polymerization Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 6058-6069 | 3.9 | 12 |
| 90 | Robust Tuning for Classical MPC through the Multi-scenarios Approach. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3146-3158 | 3.9 | 11 |
| 89 | Perspectives and challenges in performance assessment of model predictive control. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1225-1241 | 2.3 | 11 |
| 88 | Conversion of furan over gallium and zinc promoted ZSM-5: The effect of metal and acid sites. <i>Fuel Processing Technology</i> , 2020 , 201, 106319 | 7.2 | 10 |
| 87 | Oil production increase in unstable gas lift systems through nonlinear model predictive control. <i>Journal of Process Control</i> , 2018 , 69, 58-69 | 3.9 | 9 |
| 86 | Laboratory apparatus to evaluate microalgae production. <i>Brazilian Journal of Chemical Engineering</i> , 2013 , 30, 487-497 | 1.7 | 9 |
| 85 | Oscillation Detection and Diagnosis in Process Industries by Pattern Recognition Technique. <i>IFAC-PapersOnLine</i> , 2019 , 52, 299-304 | 0.7 | 8 |

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| 84 | Raman spectroscopy for monitoring carotenoids in processed <i>Bunchosia glandulifera</i> pulps. <i>Food Chemistry</i> , 2019 , 294, 565-571 | 8.5 | 8 |
| 83 | Determination of the concentration of total phenolic compounds in aged cachaça using two-dimensional fluorescence and mid-infrared spectroscopy. <i>Food Chemistry</i> , 2020 , 329, 127142 | 8.5 | 8 |
| 82 | NIR pre-selection data using modified changeable size moving window partial least squares and pure spectral chemometrical modeling with ant colony optimization for wheat flour characterization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015 , 142, 78-86 | 3.8 | 8 |
| 81 | Heat integration of an Olefins Plant: Pinch Analysis and mathematical optimization working together. <i>Brazilian Journal of Chemical Engineering</i> , 2011 , 28, 101-116 | 1.7 | 8 |
| 80 | Production of Partially Deoxygenated Pyrolysis Oil from Switchgrass via Ca(OH) ₂ , CaO, and Ca(COOH) ₂ Cofeeding. <i>Energy & Fuels</i> , 2020 , 34, 12616-12625 | 4.1 | 8 |
| 79 | Signal Preprocessing for Stiction Detection Methods. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 302-315 | 3.9 | 8 |
| 78 | Development of Ant Colony Optimization (ACO) Algorithms Based on Statistical Analysis and Hypothesis Testing for Variable Selection. <i>IFAC-PapersOnLine</i> , 2015 , 48, 900-905 | 0.7 | 7 |
| 77 | Observability analysis and model formulation for nonlinear state estimation. <i>Applied Mathematical Modelling</i> , 2014 , 38, 5407-5420 | 4.5 | 7 |
| 76 | Multivariable control strategy based on bifurcation analysis of an industrial gas-phase polymerization reactor. <i>Journal of Process Control</i> , 2009 , 19, 530-538 | 3.9 | 7 |
| 75 | Tanneries: from waste to sustainability. <i>Brazilian Archives of Biology and Technology</i> , 2005 , 48, 281-289 | 1.8 | 7 |
| 74 | Application of the RPN methodology for quantification of the operability of the quadruple-tank process. <i>Brazilian Journal of Chemical Engineering</i> , 2002 , 19, 195-206 | 1.7 | 7 |
| 73 | Orange-Fleshed Sweet Potato Flour Obtained by Drying in Microwave and Hot Air. <i>Journal of Food Processing and Preservation</i> , 2017 , 41, e12744 | 2.1 | 6 |
| 72 | Slugging attenuation using Nonlinear Model Predictive Control in offshore oil production. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 165, 187-198 | 4.4 | 6 |
| 71 | Diagnosis of Poor Performance in Model Predictive Controllers: Unmeasured Disturbance versus Model-Plant Mismatch. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11566-11582 | 3.9 | 6 |
| 70 | Oscillation Detection in Process Industries by a Machine Learning-Based Approach. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14180-14192 | 3.9 | 6 |
| 69 | A Novel Tool for Multi-Model PID Controller Design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 251-256 | | 6 |
| 68 | Model assessment of MPCs with control ranges: An industrial application in a delayed coking unit. <i>Control Engineering Practice</i> , 2019 , 84, 261-273 | 3.9 | 6 |
| 67 | A SIMPLE EQUATION FOR TOTAL REDUCING SUGARS (TRS) ESTIMATION ON SWEET POTATO AND ETHANOL YIELD POTENTIAL. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 33-41 | 1.7 | 5 |

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| 66 | 10% increase in oil production through a field applied APC in a Petrobras ultra-deepwater well. <i>Control Engineering Practice</i> , 2019 , 91, 104108 | 3.9 | 5 |
| 65 | Classification of Diesel Fuel Using Two-Dimensional Fluorescence Spectroscopy. <i>Energy & Fuels</i> , 2017 , 31, 8942-8950 | 4.1 | 5 |
| 64 | Model Predictive Control Tuning Strategy for Non-Square Systems and Range Controlled Variables Based on Multi-Scenarios Approach. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 11496-11506 | 3.8 | 5 |
| 63 | Evaluation of wavelength selection methods for 2D fluorescence spectra applied to bioprocesses characterization. <i>Brazilian Journal of Chemical Engineering</i> , 2013 , 30, 289-298 | 1.7 | 5 |
| 62 | State estimators for better bioprocesses operation. <i>Computer Aided Chemical Engineering</i> , 2012 , 1267-1276 | 1.7 | 5 |
| 61 | Preheating Followed by Simultaneous Viscosity Reduction, Hydrolysis, and Fermentation: Simplifying the Process of Ethanol Production from Sweet Potato. <i>Bioenergy Research</i> , 2019 , 12, 94-102 | 3.1 | 5 |
| 60 | Locating poor models in MPC applications. <i>Computers and Chemical Engineering</i> , 2019 , 130, 106545 | 4 | 4 |
| 59 | MPC Model Assessment of Highly Coupled Systems. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12880-12895 | 3.9 | 4 |
| 58 | The Effect of the Sampling Period on Stiction Detection Methods. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2848-2853 | 3.7 | 4 |
| 57 | Sulfur Determination in Diesel using 2D Fluorescence Spectroscopy and Linear Models. <i>IFAC-PapersOnLine</i> , 2015 , 48, 415-420 | 0.7 | 4 |
| 56 | Industrial Production of Polymeric Nanoparticles: Alternatives and Economic Analysis 2011 , 123-138 | | 4 |
| 55 | Prediction of sulfur content in diesel fuel using fluorescence spectroscopy and a hybrid ant colony - Tabu Search algorithm with polynomial bases expansion. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 206, 104161 | 3.8 | 4 |
| 54 | The Importance of Nominal Operating Point Selection in Self-Optimizing Control. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7381-7393 | 3.9 | 4 |
| 53 | Are complex black-box models for Permanent Downhole Gauge pressure estimation necessary?. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 173, 715-732 | 4.4 | 4 |
| 52 | Tuning of Fractional Order PID Controllers based on the Frequency Response Approximation Method. <i>IFAC-PapersOnLine</i> , 2019 , 52, 982-987 | 0.7 | 3 |
| 51 | A novel PID autotuning approach: how to correct bad tuning by closed-loop performance assessment. <i>IFAC-PapersOnLine</i> , 2019 , 52, 184-189 | 0.7 | 3 |
| 50 | Stiction detection in low sampling rate signals. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 1735-1745 | 3.7 | 3 |
| 49 | Assessment of Model-Plant Mismatch by the Nominal Sensitivity Function for Unconstrained MPC. <i>IFAC-PapersOnLine</i> , 2015 , 48, 753-758 | 0.7 | 3 |

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| 48 | Influence of NaNO ₃ concentration and incident light intensity on Nannochloropsis oculata lipid accumulation. <i>Brazilian Archives of Biology and Technology</i> , 2013 , 56, 673-678 | 1.8 | 3 |
| 47 | Control Strategy for a Zymomonas mobilis Bioreactor Used in Ethanol Production. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1605-1610 | 0.6 | 3 |
| 46 | Numerical Pitfalls by State Covariance Computation. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1215-1220 | 0.6 | 3 |
| 45 | Local Thermodynamic Models Networks for Dynamic Process Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8529-8541 | 3.9 | 3 |
| 44 | A New Approach for Practical Identifiability Analysis Applied to Dynamic Phenomenological Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 691-696 | | 3 |
| 43 | Bypass Design for Control and Optimization of Heat Exchanger Networks. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1665-1670 | 0.6 | 3 |
| 42 | Model Update Based on Transient Measurements for Model Predictive Control and Hybrid Real-Time Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 3056-3065 | 3.9 | 3 |
| 41 | Parameter estimation of models with limit cycle based on the reformulation of the objective function. <i>Computers and Chemical Engineering</i> , 2018 , 109, 236-248 | 4 | 3 |
| 40 | K-RANK: AN EVOLUTION OF Y-RANK FOR MULTIPLE SOLUTIONS PROBLEM. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 409-419 | 1.7 | 2 |
| 39 | PDG Pressure Estimation in Offshore Oil Well: Extended Kalman Filter vs. Artificial Neural Networks. <i>IFAC-PapersOnLine</i> , 2019 , 52, 508-513 | 0.7 | 2 |
| 38 | Oscillation detection in process industries IPart II: Industrial application. <i>Journal of Process Control</i> , 2019 , 78, 139-154 | 3.9 | 2 |
| 37 | Comparison of Kalman filter-based approaches for permanent downhole gauge pressure estimation in offshore oil production. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 182, 106254 | 4.4 | 2 |
| 36 | Determination of Remaining Useful Life in Cyclic Processes. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22048-22063 | 3.9 | 2 |
| 35 | State estimation of chemical engineering systems tending to multiple solutions. <i>Brazilian Journal of Chemical Engineering</i> , 2014 , 31, 771-785 | 1.7 | 2 |
| 34 | SynFlex: A Computational Framework for Synthesis of Flexible Heat Exchanger Networks. <i>Computer Aided Chemical Engineering</i> , 2011 , 29, 1924-1928 | 0.6 | 2 |
| 33 | Estimation of Kinetic Parameters of a Polymerization Reactor using Real Data. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 685-690 | | 2 |
| 32 | Fluorescence Spectroscopy as a Tool for Ethanol Fermentation On-line Monitoring. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 940-945 | | 2 |
| 31 | A Novel Technique to Estimate Valve Stiction Based on Pattern Recognition. <i>Computer Aided Chemical Engineering</i> , 2009 , 1191-1196 | 0.6 | 2 |

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| 30 | Analysis, Control, and Operational Optimization of a <i>Zymomonas mobilis</i> Reactor with Equilibrium Multiplicity. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 159-164 | | 2 |
| 29 | Alternative Process for Production of Sweet Potato Distilled Beverage. <i>Brazilian Archives of Biology and Technology</i> , 2009 , 63, | 1.8 | 2 |
| 28 | MILP Formulation for Solving and Initializing MINLP Problems Applied to Retrofit and Synthesis of Hydrogen Networks. <i>Processes</i> , 2020 , 8, 1102 | 2.9 | 2 |
| 27 | Channel oriented approach for multivariable model updating using historical data. <i>Computers and Chemical Engineering</i> , 2020 , 143, 107085 | 4 | 2 |
| 26 | Continuous fast pyrolysis of rice husk in a fluidized bed reactor with high feed rates. <i>Chemical Engineering Communications</i> , 2020 , 1-11 | 2.2 | 2 |
| 25 | Model Performance Assessment of a Predictive Controller for Propylene/Propane Separation. <i>IFAC-PapersOnLine</i> , 2016 , 49, 978-983 | 0.7 | 2 |
| 24 | Analysis of total phenolic compounds and caffeine in teas using variable selection approach with two-dimensional fluorescence and infrared spectroscopy. <i>Microchemical Journal</i> , 2021 , 169, 106570 | 4.8 | 2 |
| 23 | Systematic Approaches for PI System Data Compression Tuning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 309-313 | | 1 |
| 22 | Data treatment and analysis for on-line dynamic process optimization. <i>Computer Aided Chemical Engineering</i> , 2008 , 25, 519-524 | 0.6 | 1 |
| 21 | MPC model monitoring and diagnosis for non-square systems. <i>Journal of Process Control</i> , 2021 , 97, 26-44 | 3.9 | 1 |
| 20 | Industrial datasets and a tool for SISO control loops data visualization and analysis. <i>Computers and Chemical Engineering</i> , 2021 , 146, 107198 | 4 | 1 |
| 19 | New methodology for parameter estimation of offshore slug models with Hopf bifurcation. <i>Computers and Chemical Engineering</i> , 2018 , 117, 247-255 | 4 | 1 |
| 18 | Robust extended Kalman filter estimation with moving window through a quadratic programming formulation. <i>Computers and Chemical Engineering</i> , 2021 , 152, 107372 | 4 | 1 |
| 17 | Anti-slug control design: Combining first principle modeling with a data-driven approach to obtain an easy-to-fit model-based control. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 207, 109096 | 4.4 | 1 |
| 16 | A new approach to estimate the Minimum Variance Control law for Nonminimum phase Multivariable Systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 886-891 | 0.7 | 0 |
| 15 | MIMO PID tuning for nonminimum phase systems: setting attainable limits for a stable behaviour. <i>IFAC-PapersOnLine</i> , 2019 , 52, 964-969 | 0.7 | 0 |
| 14 | Study of three drying methods in production of nutritious flours from the fermentation slurry of orange-fleshed sweet potato. <i>Journal of Food Processing and Preservation</i> , 2020 , 44, e14658 | 2.1 | 0 |
| 13 | Dynamic behaviour and control of an industrial fluidised-bed polymerisation reactor. <i>Computer Aided Chemical Engineering</i> , 2005 , 409-414 | 0.6 | 0 |

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|----|--|-----|---|
| 12 | Reliable and straightforward PID tuning rules for highly underdamped systems. <i>Brazilian Journal of Chemical Engineering</i> ,1 | 1.7 | 0 |
| 11 | STATSSCANDLEPLOT: A NEW WAY OF MONITORING OPERATIONAL PERFORMANCE INDICATORS. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 393-408 | 1.7 | |
| 10 | PLANTWIDE PERIODICAL DISTURBANCES ISOLATION AND ELIMINATION IN A PETROCHEMICAL UNIT. <i>Brazilian Journal of Chemical Engineering</i> , 2015 , 32, 919-927 | 1.7 | |
| 9 | Modeling and Simulation of Nanoparticles Formation Process: A Diffusive Approach. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 999-1004 | 0.6 | |
| 8 | Spline Dynamic Matrix: a Novel Representation of Dynamic Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 632-637 | | |
| 7 | A SIMPLE WAY TO GENERATE DYNAMIC MODELS FROM STATIC SIMULATIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 421-426 | | |
| 6 | A Case Study for Control Structure Selection: Linde Air Separation Plant. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 93-98 | | |
| 5 | ROBUST DECENTRALIZED CONTROL OF A CSTR WITH COMPLEX REACTION SCHEME 1995 , 69-74 | | |
| 4 | Practical aspects on nonlinear state estimation. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 1272-1276 | | |
| 3 | Variability Reduction Estimation for SISO Systems through Unmeasured Disturbance Estimation. <i>IFAC-PapersOnLine</i> , 2016 , 49, 377-382 | 0.7 | |
| 2 | MTX-LAB controlled by Multi-SISO PID controllers. <i>IFAC-PapersOnLine</i> , 2021 , 54, 457-462 | 0.7 | |
| 1 | Application of linear and nonlinear mathematical programming to retrofit hydrogen networks. <i>Brazilian Journal of Chemical Engineering</i> ,1 | 1.7 | |