

Jose L Guzmán

List of Publications by Year in descending order

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219
papers

3,623
citations

117453

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47
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all docs

232
docs citations

232
times ranked

2484
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A comparison of thermal comfort predictive control strategies. <i>Energy and Buildings</i> , 2011, 43, 2737-2746. | 3.1 | 120 |
| 2 | Simulation of Greenhouse Climate Monitoring and Control with Wireless Sensor Network and Event-Based Control. <i>Sensors</i> , 2009, 9, 232-252. | 2.1 | 119 |
| 3 | Multiobjective hierarchical control architecture for greenhouse crop growth. <i>Automatica</i> , 2012, 48, 490-498. | 3.0 | 87 |
| 4 | Nonlinear MPC based on a Volterra series model for greenhouse temperature control using natural ventilation. <i>Control Engineering Practice</i> , 2011, 19, 354-366. | 3.2 | 81 |
| 5 | Efficient building energy management using distributed model predictive control. <i>Journal of Process Control</i> , 2014, 24, 740-749. | 1.7 | 75 |
| 6 | Online robust tube-based MPC for time-varying systems: a practical approach. <i>International Journal of Control</i> , 2011, 84, 1157-1170. | 1.2 | 72 |
| 7 | Simple tuning rules for feedforward compensators. <i>Journal of Process Control</i> , 2011, 21, 92-102. | 1.7 | 67 |
| 8 | Dynamic model of microalgal production in tubular photobioreactors. <i>Bioresource Technology</i> , 2012, 126, 172-181. | 4.8 | 66 |
| 9 | Interactive learning modules for PID control [Lecture Notes]. <i>IEEE Control Systems</i> , 2008, 28, 118-134. | 1.0 | 65 |
| 10 | Effective utilization of flue gases in raceway reactor with event-based pH control for microalgae culture. <i>Bioresource Technology</i> , 2014, 170, 1-9. | 4.8 | 64 |
| 11 | Robust constrained predictive feedback linearization controller in a solar desalination plant collector field. <i>Control Engineering Practice</i> , 2009, 17, 1076-1088. | 3.2 | 56 |
| 12 | Adaptive hierarchical control of greenhouse crop production. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008, 22, 180-197. | 2.3 | 53 |
| 13 | Interactive teaching of constrained generalized predictive control. <i>IEEE Control Systems</i> , 2005, 25, 52-66. | 1.0 | 49 |
| 14 | INTERACTIVE LEARNING MODULES FOR PID CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006, 39, 7-12. | 0.4 | 47 |
| 15 | Robust tube-based predictive control for mobile robots in off-road conditions. <i>Robotics and Autonomous Systems</i> , 2011, 59, 711-726. | 3.0 | 47 |
| 16 | Interactivity in education: An experience in the automatic control field. <i>Computer Applications in Engineering Education</i> , 2013, 21, 360-371. | 2.2 | 47 |
| 17 | Dynamic model of an industrial raceway reactor for microalgae production. <i>Algal Research</i> , 2016, 17, 67-78. | 2.4 | 47 |
| 18 | Improving feedforward disturbance compensation capabilities in Generalized Predictive Control. <i>Journal of Process Control</i> , 2012, 22, 527-539. | 1.7 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Evaluation of photosynthetic light integration by microalgae in a pilot-scale raceway reactor. <i>Bioresource Technology</i> , 2019, 280, 404-411. | 4.8 | 45 |
| 20 | Combined visual odometry and visual compass for off-road mobile robots localization. <i>Robotica</i> , 2012, 30, 865-878. | 1.3 | 44 |
| 21 | Event-based predictive control of pH in tubular photobioreactors. <i>Computers and Chemical Engineering</i> , 2014, 65, 28-39. | 2.0 | 44 |
| 22 | Adaptive Control for a Mobile Robot Under Slip Conditions Using an LMI-Based Approach. <i>European Journal of Control</i> , 2010, 16, 144-155. | 1.6 | 43 |
| 23 | Selective pH and dissolved oxygen control strategy for a raceway reactor within an event-based approach. <i>Control Engineering Practice</i> , 2015, 44, 209-218. | 3.2 | 42 |
| 24 | Modeling and Control of Greenhouse Crop Growth. <i>Advances in Industrial Control</i> , 2015, , . | 0.4 | 41 |
| 25 | Evaluation of event-based irrigation system control scheme for tomato crops in greenhouses. <i>Agricultural Water Management</i> , 2017, 183, 16-25. | 2.4 | 41 |
| 26 | Interactive tool for analysis of time-delay systems with dead-time compensators. <i>Control Engineering Practice</i> , 2008, 16, 824-835. | 3.2 | 39 |
| 27 | Generalized Predictive Control With Actuator Deadband for Event-Based Approaches. <i>IEEE Transactions on Industrial Informatics</i> , 2014, 10, 523-537. | 7.2 | 39 |
| 28 | An Interactivity-Based Methodology to Support Control Education: How to Teach and Learn Using Simple Interactive Tools [Lecture Notes]. <i>IEEE Control Systems</i> , 2016, 36, 63-76. | 1.0 | 39 |
| 29 | Web-based remote control laboratory using a greenhouse scale model. <i>Computer Applications in Engineering Education</i> , 2005, 13, 111-124. | 2.2 | 38 |
| 30 | Local model predictive controller in a solar desalination plant collector field. <i>Renewable Energy</i> , 2011, 36, 3001-3012. | 4.3 | 37 |
| 31 | ABACO: A New Model of Microalgae-Bacteria Consortia for Biological Treatment of Wastewaters. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 998. | 1.3 | 37 |
| 32 | A switching control strategy applied to a solar collector field. <i>Control Engineering Practice</i> , 2011, 19, 135-145. | 3.2 | 36 |
| 33 | An interactive software tool for system identification. <i>Advances in Engineering Software</i> , 2012, 45, 115-123. | 1.8 | 36 |
| 34 | First Principles Model of a Tubular Photobioreactor for Microalgal Production. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11121-11136. | 1.8 | 34 |
| 35 | An unified approach for DTC design using interactive tools. <i>Control Engineering Practice</i> , 2009, 17, 1234-1244. | 3.2 | 33 |
| 36 | A hybrid-controlled approach for maintaining nocturnal greenhouse temperature: Simulation study. <i>Computers and Electronics in Agriculture</i> , 2016, 123, 116-124. | 3.7 | 33 |

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|----|--|-----|-----------|
| 37 | Optimization of biomass production in outdoor tubular photobioreactors. Journal of Process Control, 2016, 37, 58-69. | 1.7 | 32 |
| 38 | Takagi Sugeno control of nocturnal temperature in greenhouses using air heating. ISA Transactions, 2011, 50, 315-320. | 3.1 | 30 |
| 39 | Autologous peripheral blood stem cell transplantation (PBSCT) mobilized with G-CSF in AML in first complete remission. Role of intensification therapy in outcome. Bone Marrow Transplantation, 1998, 21, 375-382. | 1.3 | 29 |
| 40 | On the filtered Smith predictor with feedforward compensation. Journal of Process Control, 2016, 41, 35-46. | 1.7 | 29 |
| 41 | An interactive tool for mobile robot motion planning. Robotics and Autonomous Systems, 2008, 56, 396-409. | 3.0 | 28 |
| 42 | Generalized feedforward tuning rules for non-realizable delay inversion. Journal of Process Control, 2013, 23, 1241-1250. | 1.7 | 28 |
| 43 | Application of SSOD-PI and PI-SSOD event-based controllers to greenhouse climatic control. ISA Transactions, 2016, 65, 525-536. | 3.1 | 27 |
| 44 | Virtual Sensors for Designing Irrigation Controllers in Greenhouses. Sensors, 2012, 12, 15244-15266. | 2.1 | 26 |
| 45 | Hybrid modeling of a solar-thermal heating facility. Solar Energy, 2013, 97, 577-590. | 2.9 | 26 |
| 46 | Distributed Sliding Mode Control of pH in Tubular Photobioreactors. IEEE Transactions on Control Systems Technology, 2016, 24, 1160-1173. | 3.2 | 26 |
| 47 | Linear active disturbance rejection control for a raceway photobioreactor. Control Engineering Practice, 2019, 85, 271-279. | 3.2 | 26 |
| 48 | A fast and practical one-dimensional transient model for greenhouse temperature and humidity. Computers and Electronics in Agriculture, 2021, 186, 106186. | 3.7 | 26 |
| 49 | A model-based control scheme for depth of hypnosis in anesthesia. Biomedical Signal Processing and Control, 2018, 42, 216-229. | 3.5 | 25 |
| 50 | Robust constrained economic receding horizon control applied to the two time-scale dynamics problem of a greenhouse. Optimal Control Applications and Methods, 2014, 35, 435-453. | 1.3 | 23 |
| 51 | A practical approach for Generalized Predictive Control within an event-based framework. Computers and Chemical Engineering, 2012, 41, 52-66. | 2.0 | 22 |
| 52 | Implementation of feedback linearization GPC control for a solar furnace. Journal of Process Control, 2013, 23, 1545-1554. | 1.7 | 22 |
| 53 | Water content virtual sensor for tomatoes in coconut coir substrate for irrigation control design. Agricultural Water Management, 2015, 151, 114-125. | 2.4 | 22 |
| 54 | Tools and methodologies for teaching robotics in computer science & engineering studies. Computer Applications in Engineering Education, 2016, 24, 202-214. | 2.2 | 22 |

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| 55 | Predictive Control with Disturbance Forecasting for Greenhouse Diurnal Temperature Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1779-1784. | 0.4 | 21 |
| 56 | Modelling and Control Issues of pH in Tubular Photobioreactors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 186-191. | 0.4 | 20 |
| 57 | Autonomous Tracked Robots in Planar Off-Road Conditions. Studies in Systems, Decision and Control, 2014, , . | 0.8 | 20 |
| 58 | Performance indices for feedforward control. Journal of Process Control, 2015, 26, 26-34. | 1.7 | 20 |
| 59 | IMPROVING EFFICIENCY OF GREENHOUSE HEATING SYSTEMS USING MODEL PREDICTIVE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 40-45. | 0.4 | 19 |
| 60 | Application of time-series methods to disturbance estimation in predictive control problems. , 2010, , . | | 19 |
| 61 | A lumped parameter chemical–physical model for tubular photobioreactors. Chemical Engineering Science, 2014, 112, 116-129. | 1.9 | 19 |
| 62 | A New IoT-Based Platform for Greenhouse Crop Production. IEEE Internet of Things Journal, 2022, 9, 6325-6334. | 5.5 | 19 |
| 63 | A new model to analyze the temperature effect on the microalgae performance at large scale raceway reactors. Biotechnology and Bioengineering, 2021, 118, 877-889. | 1.7 | 19 |
| 64 | Robust Nonlinear Predictive Control Applied to a Solar Collector Field in a Solar Desalination Plant. IEEE Transactions on Control Systems Technology, 2010, , . | 3.2 | 18 |
| 65 | Técnicas de Control del Confort en Edificios. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 5-24. | 0.6 | 18 |
| 66 | Filtered Smith predictor with feedback linearization and constraints handling applied to a solar collector field. Solar Energy, 2011, 85, 1056-1067. | 2.9 | 18 |
| 67 | Control System for pH in Raceway Photobioreactors Based on Wiener Models. IFAC-PapersOnLine, 2019, 52, 928-933. | 0.5 | 18 |
| 68 | Understanding PID design through interactive tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12243-12248. | 0.4 | 17 |
| 69 | Event-based control and wireless sensor network for greenhouse diurnal temperature control: A simulated case study. , 2008, , . | | 16 |
| 70 | Localization and control of tracked mobile robots under slip conditions. , 2009, , . | | 16 |
| 71 | Hybrid modeling of central receiver solar power plants. Simulation Modelling Practice and Theory, 2009, 17, 664-679. | 2.2 | 16 |
| 72 | Hybrid Modeling of a Solar Cooling System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 26-31. | 0.4 | 16 |

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| 73 | Learning Switching Control: A Tank Level-Control Exercise. IEEE Transactions on Education, 2012, 55, 226-232. | 2.0 | 16 |
| 74 | Control of off-road mobile robots using visual odometry and slip compensation. Advanced Robotics, 2013, 27, 893-906. | 1.1 | 16 |
| 75 | Unified PID Tuning Approach for Stable, Integrative, and Unstable Dead-Time Processes. Industrial & Engineering Chemistry Research, 2013, 52, 16811-16819. | 1.8 | 16 |
| 76 | Hierarchical control for microalgae biomass production in photobiorreactors. Control Engineering Practice, 2016, 54, 246-255. | 3.2 | 16 |
| 77 | Daytime/Nighttime Event-Based PI Control for the pH of a Microalgae Raceway Reactor. Processes, 2019, 7, 247. | 1.3 | 16 |
| 78 | Tuning rules for feedforward control from measurable disturbances combined with PID control: a review. International Journal of Control, 2024, 97, 2-15. | 1.2 | 16 |
| 79 | Indirect regulation of temperature in raceway reactors by optimal management of culture depth. Biotechnology and Bioengineering, 2021, 118, 1186-1198. | 1.7 | 16 |
| 80 | Modelado y control de la producción de microalgas en fotobiorreactores industriales. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 18, 1. | 0.6 | 16 |
| 81 | Robust Pressure Control in a Mobile Robot for Spraying Tasks. Transactions of the ASABE, 2008, 51, 715-727. | 1.1 | 15 |
| 82 | The input amplitude saturation problem in QFT: A survey. Annual Reviews in Control, 2011, 35, 34-55. | 4.4 | 15 |
| 83 | Filtered Smith Predictor to control pH during enzymatic hydrolysis of microalgae to produce l-aminoacids concentrates. Chemical Engineering Science, 2012, 82, 121-131. | 1.9 | 15 |
| 84 | Perspectives on control-relevant identification through the use of interactive tools. Control Engineering Practice, 2013, 21, 171-183. | 3.2 | 15 |
| 85 | Biomass estimation of an industrial raceway photobioreactor using an extended Kalman filter and a dynamic model for microalgae production. Algal Research, 2019, 37, 103-114. | 2.4 | 15 |
| 86 | Phosphorus Soil Tests for Environmental Assessment in Subtropical Soils. Communications in Soil Science and Plant Analysis, 2004, 35, 1485-1503. | 0.6 | 14 |
| 87 | The influence of event-based sampling techniques on data transmission and control performance. , 2009, , . | | 14 |
| 88 | Bumpless switching in control - A comparative study. , 2010, , . | | 14 |
| 89 | Teaching Control Engineering Concepts using Open Source tools on a Raspberry Pi board**This work has been partially funded by the following projects: DPI2014- 55932-C2-1-R and DPI2014-56364-C2-1-R (financed by the Spanish Ministry of Science and Innovation and EU- ERDF funds). IFAC-PapersOnLine, 2015. 48. 99-104. | 0.5 | 14 |
| 90 | GREENHOUSE DIURNAL TEMPERATURE CONTROL WITH NATURAL VENTILATION BASED ON EMPIRICAL MODELS. Acta Horticulturae, 2006, , 57-64. | 0.1 | 13 |

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| 91 | Robust tube-based MPC for constrained mobile robots under slip conditions. , 2009, , . | | 12 |
| 92 | Viability and application of ethanol production coupled with solar cooling. Applied Energy, 2013, 102, 501-509. | 5.1 | 12 |
| 93 | Optimal feedforward compensators for systems with right-half plane zeros. Journal of Process Control, 2014, 24, 368-374. | 1.7 | 12 |
| 94 | Support system for decision making in the management of the greenhouse environmental based on growth model for sweet pepper. Agricultural Systems, 2015, 139, 144-152. | 3.2 | 12 |
| 95 | Robust design methodology for simultaneous feedforward and feedback tuning. IET Control Theory and Applications, 2016, 10, 84-94. | 1.2 | 12 |
| 96 | The Comparison Study of Short-Term Prediction Methods to Enhance the Model Predictive Controller Applied to Microgrid Energy Management. Energies, 2017, 10, 884. | 1.6 | 12 |
| 97 | Web-Based Virtual Lab for Learning Design, Operation, Control, and Optimization of an Anaerobic Digestion Process. Journal of Science Education and Technology, 2021, 30, 319-330. | 2.4 | 12 |
| 98 | A robust constrained reference governor approach using linear matrix inequalities. Journal of Process Control, 2009, 19, 773-784. | 1.7 | 11 |
| 99 | Unified PID Tuning Approach for Stable, Integrative and Unstable Dead-Time Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 35-40. | 0.4 | 11 |
| 100 | Distributed MPC for resource-constrained control systems. Optimal Control Applications and Methods, 2015, 36, 272-291. | 1.3 | 11 |
| 101 | Robust QFT-Based Feedback Linearization Controller of the Greenhouse Diurnal Temperature Using Natural Ventilation. IEEE Access, 2019, 7, 64148-64161. | 2.6 | 11 |
| 102 | Simple Tuning Rules for Feedforward Compensators Applied to Greenhouse Daytime Temperature Control Using Natural Ventilation. Agronomy, 2020, 10, 1327. | 1.3 | 11 |
| 103 | Diurnal and nocturnal pH control in microalgae raceway reactors by combining classical and event-based control approaches. Water Science and Technology, 2020, 82, 1155-1165. | 1.2 | 11 |
| 104 | Design and implementation of an automatic pressure-control system for a mobile sprayer for greenhouse applications. Spanish Journal of Agricultural Research, 2012, 10, 939. | 0.3 | 11 |
| 105 | A Wireless Sensor Network for greenhouse climate monitoring. , 2010, , . | | 10 |
| 106 | Practical MPC with robust dead-time compensation applied to a solar desalination plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4909-4914. | 0.4 | 10 |
| 107 | A combined FSP and reset control approach to improve the set-point tracking task of dead-time processes. Control Engineering Practice, 2013, 21, 351-359. | 3.2 | 10 |
| 108 | Experimental evaluation of feedforward tuning rules. Control Engineering Practice, 2021, 114, 104877. | 3.2 | 10 |

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| 109 | ITSIE: An Interactive Software Tool for System Identification Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 752-757. | 0.4 | 9 |
| 110 | i-pIDtune: An interactive tool for integrated system identification and PID control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 146-151. | 0.4 | 9 |
| 111 | Teaching real-time programming using mobile robots**This work has been partially funded by the following projects: DPI2014-55932-C2-1-R and DPI2014-56364-C2-1-R (financed by the Spanish Ministry of Tj ETQq51 0.784314 rgB | 0.4 | 9 |
| 112 | Asynchronous periodic event-triggered control with dynamical controllers. Journal of the Franklin Institute, 2018, 355, 3455-3469. | 1.9 | 9 |
| 113 | Feedforward Compensation for PID Control Loops. Advances in Industrial Control, 2012, , 207-234. | 0.4 | 9 |
| 114 | Revisiting the simplified IMC tuning rules for low-order controllers: Novel 2DoF feedback controller. IET Control Theory and Applications, 2020, 14, 1700-1710. | 1.2 | 9 |
| 115 | Symmetric send-on-delta PI control of a greenhouse system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4411-4416. | 0.4 | 8 |
| 116 | Active Disturbance Rejection and PID Control of a One-stage Refrigeration Cycle. IFAC-PapersOnLine, 2018, 51, 444-449. | 0.5 | 8 |
| 117 | Two-degree-of-freedom control scheme for depth of hypnosis in anesthesia a2 a2This work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-55932-C2-2-R, DPI2014-56364-C2-1-R and DPI2012-31303 financed by the Spanish Ministry of Economy and Competitiveness 72-77. | 0.5 | 8 |
| 118 | Application of Predictive Feedforward Compensator to Microalgae Production in a Raceway Reactor: A Simulation Study. Energies, 2018, 11, 123. | 1.6 | 8 |
| 119 | Modelling and pH Control in Raceway and Thin-Layer Photobioreactors for Wastewater Treatment. Energies, 2021, 14, 1099. | 1.6 | 8 |
| 120 | A nonlinear control approach for hybrid solar thermal plants based on operational conditions. Renewable Energy, 2022, 183, 114-129. | 4.3 | 8 |
| 121 | Potential of Trees, Grasses, and Turf Legumes for Restoring Eroded Soils. Communications in Soil Science and Plant Analysis, 2003, 34, 2149-2162. | 0.6 | 7 |
| 122 | Interactive Learning Module: Basic Modelling and Identification Concepts. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14606-14611. | 0.4 | 7 |
| 123 | Interactive Tools to Learn Basic Concepts of Nonlinear Systems Linearization Through a Case Study*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 66-71. | 0.4 | 7 |
| 124 | A New Framework to develop Web-based Interactive Tools for Control Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 183-188. | 0.4 | 7 |
| 125 | Development of interactive books for Control Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 150-155. | 0.4 | 7 |
| 126 | Advanced Control Strategy Combined with Solar Cooling for Improving Ethanol Production in Fermentation Units. Industrial & Engineering Chemistry Research, 2014, 53, 11384-11392. | 1.8 | 7 |

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| 127 | A practical hybrid predictive control algorithm for a low-temperature thermosolar plant. Optimal Control Applications and Methods, 2016, 37, 508-520. | 1.3 | 7 |
| 128 | Event-Based GPC for Multivariable Processes: A Practical Approach With Sensor Deadband. IEEE Transactions on Control Systems Technology, 2017, 25, 1621-1633. | 3.2 | 7 |
| 129 | Development and test verification of air temperature model for Chinese solar and Spanish Almeria-type greenhouse. International Journal of Agricultural and Biological Engineering, 2017, 10, 66-76. | 0.3 | 7 |
| 130 | Entornos de experimentación para la Enseñanza de Conceptos Básicos de Modelado y Control. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 10-22. | 0.6 | 7 |
| 131 | Rituximab Maintenance Treatment After Combined Fludarabine, Cyclophosphamide and Rituximab In Previously Untreated Patients with Progressive B-Cell Chronic Lymphocytic Leukemia (CLL): Interim Analysis of An Ongoing Phase II Multicenter Trial On Behalf of the Spanish CLL Study Group (GELLC). Blood. 2010. 116, 2448-2448. | 0.6 | 7 |
| 132 | VIRTUAL LAB FOR TEACHING GREENHOUSE CLIMATIC CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 79-84. | 0.4 | 6 |
| 133 | Study of fundamental control concepts through interactive learning objects. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7286-7291. | 0.4 | 6 |
| 134 | Feedforward control concepts through Interactive Tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6361-6366. | 0.4 | 6 |
| 135 | ITCLI : An Interactive Tool for Closed-Loop Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12249-12254. | 0.4 | 6 |
| 136 | Measurable Disturbances Compensation: Analysis and Tuning of Feedforward Techniques for Dead-Time Processes. Processes, 2016, 4, 12. | 1.3 | 6 |
| 137 | Closed-loop tuning rules for feedforward compensator gains * *This work has been partially funded by the following project DPI2014-55932-C2-1-R financed by the Spanish Ministry of Economy and Competitiveness and EU- ERDF funds. IFAC-PapersOnLine, 2017, 50, 7523-7528. | 0.5 | 6 |
| 138 | Event-based GPC for depth of hypnosis in anesthesia for efficient use of propofol. , 2017, , . | | 6 |
| 139 | Development of Basic Process Control Structures – This work was partly supported by the Vinnova strategic program PiiA in Sweden, and the projects DPI2014-55932-C2-1-R and DPI2017-84259-C2-1-R (financed by the Spanish Ministry of Science and Innovation and EU- ERDF funds).. IFAC-PapersOnLine, 2018. 51. 775-780. | 0.5 | 6 |
| 140 | Control Predictivo por Desacoplo con Compensación de Perturbaciones para el Benchmark de Control 2009-2010. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2011, 8, 112-121. | 0.6 | 6 |
| 141 | A stabilizing predictive controller with implicit feedforward compensation for stable and time-delayed systems. Journal of Process Control, 2022, 115, 12-26. | 1.7 | 6 |
| 142 | A Volterra model of the greenhouse temperature using natural ventilation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2925-2930. | 0.4 | 5 |
| 143 | Event-based selective control strategy for raceway reactor: A simulation study**This work has been supported by Cajamar Foundation and partially funded by the following projects: DPI2014- 55932-C2-1-R, | | |

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|-----|--|-----|-----------|
| 145 | Dynamic Modeling of Microalgal Production in Photobioreactors. , 2017, , 49-87. | | 5 |
| 146 | New Interactive Books for Control Education – This work has been partially funded by the IEEE Control | 0.5 | 5 |
| 147 | A Multivariable Controller for the Start-up Procedure of a Solar Membrane Distillation Facility. IFAC-PapersOnLine, 2018, 51, 376-381. | 0.5 | 5 |
| 148 | Greenhouse Models as a Service (GMaaS) for Simulation and Control. IFAC-PapersOnLine, 2019, 52, 190-195. | 0.5 | 5 |
| 149 | Revisiting the simplified internal model control tuning rules for low-order controllers: feedforward controller. IET Control Theory and Applications, 2020, 14, 1612-1618. | 1.2 | 5 |
| 150 | A model-based methodology for the early warning detection of cucumber downy mildew in greenhouses: An experimental evaluation. Computers and Electronics in Agriculture, 2022, 194, 106751. | 3.7 | 5 |
| 151 | A seasonal simulation approach for culture depth influence on the temperature for different characterized microalgae strains. Biotechnology Journal, 2022, 17, e2100489. | 1.8 | 5 |
| 152 | Easy Mobile Device Programming for Educational Purposes. , 0, , . | | 4 |
| 153 | A multiobjective approach to hierarchical control of greenhouse crop production. , 2007, , . | | 4 |
| 154 | Interactive Learning Module for control interaction understanding. , 2009, , . | | 4 |
| 155 | Diurnal greenhouse temperature control with predictive control and online constraints mapping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 140-145. | 0.4 | 4 |
| 156 | Comfort optimization in a solar energy research center. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 36-41. | 0.4 | 4 |
| 157 | An interactive CAD tool to teach and learn Nyquist criterion. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 55-60. | 0.4 | 4 |
| 158 | Teaching Cascaded Controllers with a Fuel Cell Plant in a Hands-on Laboratory. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 203-207. | 0.4 | 4 |
| 159 | Boundary Control of an Industrial Tubular Photobioreactor Using Sliding Mode Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4903-4908. | 0.4 | 4 |
| 160 | Understanding closed-loop identification with ITCLI. IFAC-PapersOnLine, 2015, 48, 739-744. | 0.5 | 4 |
| 161 | Event-based control for a greenhouse irrigation system. , 2016, , . | | 4 |
| 162 | Pressure control of a mobile spraying system. Spanish Journal of Agricultural Research, 2004, 2, 181. | 0.3 | 4 |

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| 163 | The Greenhouse Dynamical System. Advances in Industrial Control, 2015, , 9-97. | 0.4 | 4 |
| 164 | A new control strategy to improve the mass transfer capacity and reduce air injection costs in raceway reactors. New Biotechnology, 2022, 70, 49-56. | 2.4 | 4 |
| 165 | REMOTE LABORATORY FOR TEACHING MULTIVARIABLE CONTROL TECHNIQUES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 493-498. | 0.4 | 3 |
| 166 | ITCRI: An Interactive Software Tool for Control-Relevant Identification Education*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6367-6372. | 0.4 | 3 |
| 167 | Improvements on the Filtered Smith Predictor using the Clegg Integrator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 110-115. | 0.4 | 3 |
| 168 | A feedback linearization GPC control strategy for a solar furnace. , 2012, , . | | 3 |
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