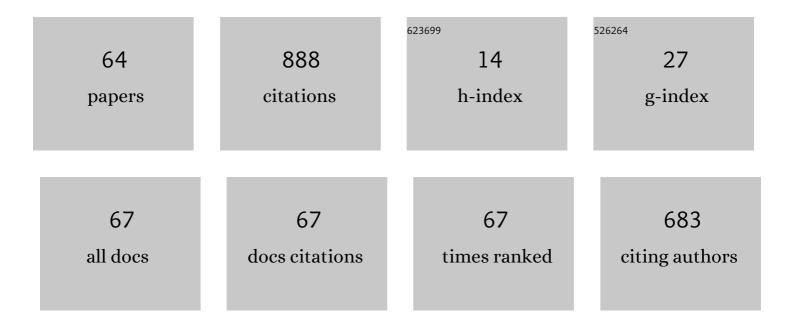
Joaquin Alvarez

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | An Invariance Principle for Discontinuous Dynamic Systems With Application to a Coulomb Friction Oscillator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 687-690. | 1.6 | 113 |
| 2 | Nonlinear regulation of a Lorenz system by feedback linearization techniques. Journal of Dynamical and Control Systems, 1994, 4, 277-298. | 0.4 | 82 |
| 3 | The sympathy of two pendulum clocks: beyond Huygens' observations. Scientific Reports, 2016, 6, 23580. | 3.3 | 64 |
| 4 | Robust synchronization of Sprott circuits using sliding mode control. Chaos, Solitons and Fractals, 2006, 30, 11-18. | 5.1 | 58 |
| 5 | Hybrid Sliding-Mode-Based Control of Underactuated Systems With Dry Friction. IEEE Transactions on Industrial Electronics, 2008, 55, 3998-4003. | 7.9 | 44 |
| 6 | Global position regulation of friction manipulators via switched chattering control. International Journal of Control, 2003, 76, 1446-1452. | 1.9 | 36 |
| 7 | Tracking control of the boost converter. IET Control Theory and Applications, 2004, 151, 218-224. | 1.7 | 35 |
| 8 | Nonlinear disturbance decoupling control of a binary distillation column. Automatica, 1990, 26, 567-572. | 5.0 | 34 |
| 9 | Robust observation and identification ofnDOF Lagrangian systems. International Journal of Robust and Nonlinear Control, 2007, 17, 842-861. | 3.7 | 33 |
| 10 | Robust sliding mode control for the boost converter. , 0, , . | | 30 |
| 11 | Hopf bifurcation control: A new approach. Systems and Control Letters, 2006, 55, 437-451. | 2.3 | 30 |
| 12 | Bifurcations and Chaos in a Linear Control System with Saturated Input. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 1811-1822. | 1.7 | 26 |
| 13 | Master-slave synchronization via dynamic control. Communications in Nonlinear Science and Numerical Simulation, 2020, 80, 104977. | 3.3 | 23 |
| 14 | Analog Implementation of a Robust Control Strategy for Mechanical Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 3377-3385. | 7.9 | 15 |
| 15 | Complex dynamics in classical control systems. Systems and Control Letters, 1997, 31, 277-285. | 2.3 | 13 |
| 16 | A controller for 2-DOF underactuated mechanical systems with discontinuous friction. Nonlinear Dynamics, 2008, 53, 191-200. | 5.2 | 13 |
| 17 | Nonsmooth <mml:math <br="" altimg="si0005.gif" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"><mml:mrow><mml:mi mathvariant="script">H</mml:mi </mml:mrow></mml:math> â^ž synthesis of non-minimum-phase servo-systems with backlash. Control Engineering Practice. 2016. 46. 77-84. | 5.5 | 13 |
| 18 | Master-slave teleoperation of underactuated mechanical systems with communication delays. International Journal of Control, Automation and Systems, 2017, 15, 827-836. | 2.7 | 13 |

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| # | Article | IF | CITATIONS |
|----|--|-------------------|-----------------------|
| 19 | Motion Control Design for an Omnidirectional Mobile Robot Subject to Velocity Constraints. Mathematical Problems in Engineering, 2015, 2015, 1-15. | 1.1 | 12 |
| 20 | Synchronization in the Lorenz system: Stability and robustness. Nonlinear Dynamics, 1996, 10, 89-103. | 5.2 | 11 |
| 21 | BIFURCATION ANALYSIS OF A 2-DOF ROBOT MANIPULATOR DRIVEN BY CONSTANT TORQUES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 617-627. | 1.7 | 11 |
| 22 | Robust synchronization of nonlinear SISO systems using sliding mode control. Nonlinear Dynamics, 2006, 46, 293-306. | 5.2 | 11 |
| 23 | Control structure with disturbance identification for Lagrangian systems. International Journal of Non-Linear Mechanics, 2011, 46, 486-495. | 2.6 | 11 |
| 24 | Application of the active disturbance rejection control structure to improve the controller performance of uncertain pneumatic actuators. Asian Journal of Control, 2019, 21, 99-113. | 3.0 | 11 |
| 25 | Robust Control of the Boost Converter. , 0, , . | | 10 |
| 26 | Robust synchronization of arrays of uncertain nonlinear second-order dynamical systems. Nonlinear Dynamics, 2012, 67, 2735-2746. | 5.2 | 10 |
| 27 | Chaotic behavior of driven, second-order, piecewise linear systems. Chaos, Solitons and Fractals, 2017, 105, 8-13. | 5.1 | 9 |
| 28 | Discontinuous H â^ž control of underactuated mechanical systems with friction and backlash. International Journal of Control, Automation and Systems, 2016, 14, 1213-1222. | 2.7 | 8 |
| 29 | Bifurcations and chaos produced by the modulation signal in a PWM buck converter. Chaos, Solitons and Fractals, 2009, 42, 2260-2271. | 5.1 | 7 |
| 30 | Homoclinic Chaos in 2-DOF Robot Manipulators Driven by PD Controllers. Nonlinear Dynamics, 2000, 21, 157-171. | 5.2 | 6 |
| 31 | Output feedback and dynamical sliding-mode control of power converters. International Journal of Electronics, 2011, 98, 505-519. | 1.4 | 6 |
| 32 | Robust output synchronization of second-order systems. European Physical Journal: Special Topics, 2014, 223, 757-772. | 2.6 | 6 |
| 33 | Sensorless Nonsmooth Hâ^ž-Tracking Synthesis of Servosystems with Backlash and Coulomb Frictionâ^—â^—Y. Orlov gratefully acknowledges the financial support from CONACYT (Consejo Nacional de Ciencia y) Tj ETQq1 1 | 0. 784 314 | rg B T /Overic |
| 34 | Melnikov-Type Chaos of Planar Systems with Two Discontinuities. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550027. | 1.7 | 6 |
| 35 | Stability robustness of linearizing controllers with state estimation for discrete-time nonlinear systems. IMA Journal of Mathematical Control and Information, 2001, 18, 479-489. | 1.7 | 5 |
| 36 | Hopf bifurcation control for affine systems. , 2004, , . | | 5 |

Hopf bifurcation control for affine systems. , 2004, , . 36

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Robust synchronization of arrays of Lagrangian systems. International Journal of Control, Automation and Systems, 2010, 8, 1039-1047. | 2.7 | 5 |
| 38 | Regulation and force control using sliding modes to reduce rebounds in a mechanical system subject to a unilateral constraint. IET Control Theory and Applications, 2012, 6, 2785-2792. | 2.1 | 5 |
| 39 | Robust Observer for a Class of Nonlinear SISO Dynamical Systems. Mathematical Problems in Engineering, 2016, 2016, 1-9. | 1.1 | 4 |
| 40 | Oscillations in First-Order, Continuous-Time Systems via Time-Delay Feedback. Complexity, 2018, 2018, 1-14. | 1.6 | 4 |
| 41 | Rotating waves in oscillators with Huygens' coupling**This work was partly supported by the CONACyT under Grant CB2012-180011-Y IFAC-PapersOnLine, 2015, 48, 71-76. | 0.9 | 3 |
| 42 | Robust Tracking and Cruise Control of a Class of Robotic Systems. Mathematical Problems in Engineering, 2015, 2015, 1-10. | 1.1 | 3 |
| 43 | Synchronization of asymmetrically coupled systems. Nonlinear Dynamics, 2019, 95, 2217-2234. | 5.2 | 3 |
| 44 | Tracking on the boost converter using standard regulation techniques. , 2001, , . | | 2 |
| 45 | Feedback stabilization and force control using sliding modes in a mechanical system subject to unilateral constraints. , 2010, , . | | 2 |
| 46 | Sliding mode control with H <inf>∞</inf> attenuator for unmatched disturbances in a mechanical system with friction and a force constraint. , 2012, , . | | 2 |
| 47 | Robust tracking control of a shaking table with dry friction. Nonlinear Dynamics, 2016, 86, 1535-1547. | 5.2 | 2 |
| 48 | Synchronization in Dynamically Coupled Fractional-Order Chaotic Systems: Studying the Effects of Fractional Derivatives. Complexity, 2021, 2021, 1-12. | 1.6 | 2 |
| 49 | Chaotic dynamics in a PD-controlled pendulum. , 0, , . | | 1 |
| 50 | Homoclinic chaos in inverted pendula. , 0, , . | | 1 |
| 51 | Synchronization of linear piecewise chaotic systems using sliding mode control. Journal of Physics: Conference Series, 2005, 23, 309-316. | 0.4 | 1 |
| 52 | Robust output synchronization of phase planar systems. Chaos, 2007, 17, 023124. | 2.5 | 1 |
| 53 | Normal Form and Control of the Hopf bifurcation. Proceedings of the American Control Conference, 2007, , . | 0.0 | 1 |
| 54 | Synchronization of two inverted pendula via dynamic coupling. , 2016, , . | | 1 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | A robust internal model controller for nonlinear systems. , 0, , . | | 0 |
| 56 | Robust synchronization of nDOF lagrangian systems. , 0, , . | | 0 |
| 57 | Two new techniques to synchronize phase planar systems using discontinuous feedback. Journal of Physics: Conference Series, 2005, 23, 285-299. | 0.4 | 0 |
| 58 | Controlled Synchronization of a Mechanical System in a Fuzzy Scheme*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 276-281. | 0.4 | 0 |
| 59 | Two synchronized pendulums in a fuzzy variable structure. , 2010, , . | | 0 |
| 60 | Control of Bifurcations Using Discontinuous Control. , 2012, , . | | 0 |
| 61 | Chaos in discontinuous system by using continuous approximation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 215-219. | 0.4 | 0 |
| 62 | Open-loop synchronization: uncoupled oscillators may show synchronized motion**Partially supported by the Mexican Council for Science and Technology (CONACYT). IFAC-PapersOnLine, 2015, 48, 251-256. | 0.9 | 0 |
| 63 | Robust tracking control of servo systems with backlash: Nonsmooth ℋ <inf>∞</inf> control vs. linear ℋ <inf>∞</inf> control. , 2015, , . | | 0 |
| 64 | Blind Identification of Noisy Non-stationary Sources Using a Binary Mask. IEEE Latin America Transactions, 2019, 17, 176-182. | 1.6 | 0 |