# Emmanuel Moulay

List of Publications by Year
in descending order

| 65 papers | 2,850 citations | 304368 | 197535 |
|---|---|---|---|
| | | 22 h-index | 49 g-index |

| 66 all docs | 66 docs citations | 66 times ranked | 1588 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Finite-Time Observers: Application to Secure Communication. IEEE Transactions on Automatic Control, 2008, 53, 356-360. | 3.6 | 404 |
| 2 | Finite time stability and stabilization of a class of continuous systems. Journal of Mathematical Analysis and Applications, 2006, 323, 1430-1443. | 0.5 | 396 |
| 3 | Finite-time stability and stabilization of time-delay systems. Systems and Control Letters, 2008, 57, 561-566. | 1.3 | 289 |
| 4 | Finite time stability conditions for non-autonomous continuous systems. International Journal of Control, 2008, 81, 797-803. | 1.2 | 238 |
| 5 | A Global High-Gain Finite-Time Observer. IEEE Transactions on Automatic Control, 2010, 55, 1500-1506. | 3.6 | 117 |
| 6 | Lyapunov Theory for 2-D Nonlinear Roesser Models: Application to Asymptotic and Exponential Stability. IEEE Transactions on Automatic Control, 2013, 58, 1299-1304. | 3.6 | 115 |
| 7 | New predictive scheme for the control of LTI systems with input delay and unknown disturbances. Automatica, 2015, 52, 179-184. | 3.0 | 108 |
| 8 | Fixed-time observer with simple gains for uncertain systems. Automatica, 2017, 81, 438-446. | 3.0 | 95 |
| 9 | Finite time stability of differential inclusions. IMA Journal of Mathematical Control and Information, 2005, 22, 465-475. | 1.1 | 67 |
| 10 | Delay Estimation and Predictive Control of Uncertain Systems With Input Delay: Application to a DC Motor. IEEE Transactions on Industrial Electronics, 2016, 63, 5849-5857. | 5.2 | 67 |
| 11 | Finite-Time Stability and Stabilization: State of the Art. , 0, , 23-41. | | 64 |
| 12 | Robust output feedback sampling control based on second-order sliding mode. Automatica, 2010, 46, 1096-1100. | 3.0 | 54 |
| 13 | Robust Fixed-Time Stability: Application to Sliding-Mode Control. IEEE Transactions on Automatic Control, 2022, 67, 1061-1066. | 3.6 | 53 |
| 14 | Robust finite-time output feedback stabilisation of the double integrator. International Journal of Control, 2015, 88, 451-460. | 1.2 | 52 |
| 15 | Finite time boundedness of neutral high-order Hopfield neural networks with time delay in the leakage term and mixed time delays. Neurocomputing, 2017, 260, 378-392. | 3.5 | 52 |
| 16 | Stabilization of nonaffine systems: a constructive method for polynomial systems. IEEE Transactions on Automatic Control, 2005, 50, 520-526. | 3.6 | 46 |
| 17 | Fixed-time sliding mode control with mismatched disturbances. Automatica, 2022, 136, 110009. | 3.0 | 38 |
| 18 | Online GMM Clustering and Mini-Batch Gradient Descent Based Optimization for Industrial IoT 4.0. IEEE Transactions on Industrial Informatics, 2020, 16, 1427-1435. | 7.2 | 37 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Fixed-time stabilization of fuzzy neutral-type inertial neural networks with time-varying delay. Fuzzy Sets and Systems, 2021, 411, 48-67. | 1.6 | 37 |
| 20 | Stabilization of nonlinear switched systems using control Lyapunov functions. Nonlinear Analysis: Hybrid Systems, 2007, 1, 482-490. | 2.1 | 35 |
| 21 | Discrete predictor-based event-triggered control of networked control systems. Automatica, 2019, 107, 281-288. | 3.0 | 35 |
| 22 | Finite-time output stabilization of the double integrator. , 2012, , . | | 25 |
| 23 | Observer-based consensus for second-order multi-agent systems with arbitrary asynchronous and aperiodic sampling periods. Automatica, 2019, 99, 237-245. | 3.0 | 23 |
| 24 | Observer based leader-following consensus of second-order multi-agent systems with nonuniform sampled position data. Journal of the Franklin Institute, 2019, 356, 10031-10057. | 1.9 | 22 |
| 25 | Higher-order Schrödinger and Hartree–Fock equations. Journal of Mathematical Physics, 2015, 56, . | 0.5 | 20 |
| 26 | Collision-Free Formation Tracking of Multi-Agent Systems Under Communication Constraints. , 2021, 5, 1345-1350. | | 20 |
| 27 | Topological properties of asymptotically stable sets. Nonlinear Analysis: Theory, Methods & Applications, 2010, 73, 1093-1097. | 0.6 | 19 |
| 28 | Sliding mode control-based fixed-time stabilization and synchronization of inertial neural networks with time-varying delays. Neural Computing and Applications, 2021, 33, 11555-11572. | 3.2 | 19 |
| 29 | Stabilization via homogeneous feedback controls. Automatica, 2008, 44, 2981-2984. | 3.0 | 18 |
| 30 | Delay and state observation for SISO nonlinear systems with input delay. International Journal of Robust and Nonlinear Control, 2018, 28, 2356-2368. | 2.1 | 18 |
| 31 | Deep reinforcement learning techniques for vehicular networks: Recent advances and future trends towards 6G. Vehicular Communications, 2022, 33, 100398. | 2.7 | 18 |
| 32 | Sliding mode stabilization of the current profile in Tokamak plasmas. , 2011, , . | | 17 |
| 33 | stabilization of the current profile in tokamak plasmas via an LMI approach. Automatica, 2013, 49, 2795-2804. | 3.0 | 17 |
| 34 | Practical Consensus of Homogeneous Sampled-Data Multiagent Systems. IEEE Transactions on Automatic Control, 2019, 64, 4691-4697. | 3.6 | 17 |
| 35 | Leader-Following Consensus of Second-Order Multi-Agent Systems With Switching Topology and Partial Aperiodic Sampled Data. , 2021, 5, 1567-1572. | | 17 |
| 36 | Higher order Schrödinger equations. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 395304. | 0.7 | 15 |

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|---|---------|----|-----------|
| 37 | Stability of homogeneous nonlinear systems with sampled-data inputs. Automatica, 2017, 85, 349-355. | 3.0 | 15 |
| 38 | Stability and Stabilization of Homogeneous Systems Depending on a Parameter. IEEE Transactions on Automatic Control, 2009, 54, 1382-1385. | 3.6 | 13 |
| 39 | Properties of the sign gradient descent algorithms. Information Sciences, 2019, 492, 29-39. | 4.0 | 13 |
| 40 | Super-Twisting Algorithm-Based Time-Varying Delay Estimation With External Signal. IEEE Transactions on Industrial Electronics, 2020, 67, 10663-10671. | 5.2 | 11 |
| 41 | $(\mu,u)$-Pseudo Almost Automorphic Solutions of Neutral Type Clifford-Valued High-Order Hopfield Neural Networks with D Operator. Neural Processing Letters, 2021, 53, 799-828. | 2.0 | 11 |
| 42 | Predictor-based control of time-delay systems: a survey. International Journal of Systems Science, 2022, 53, 2496-2534. | 3.7 | 11 |
| 43 | State feedback control and delay estimation for LTI system with unknown input-delay. International Journal of Control, 2021, 94, 2369-2378. | 1.2 | 10 |
| 44 | Homogeneous approximations and local observer design. ESAIM - Control, Optimisation and Calculus of Variations, 2013, 19, 906-929. | 0.7 | 8 |
| 45 | Potential feedback control for the power control in wireless sensor networks. IET Control Theory and Applications, 2015, 9, 2022-2028. | 1.2 | 6 |
| 46 | Power control in Wireless Cellular Networks with a time-varying delay. Automatica, 2017, 83, 179-185. | 3.0 | 6 |
| 47 | Stability of discontinuous homogeneous nonlinear sampled-data systems. Automatica, 2019, 107, 467-473. | 3.0 | 6 |
| 48 | Meta-dynamical adaptive systems and their applications to a fractal algorithm and a biological model. Physica D: Nonlinear Phenomena, 2005, 207, 79-90. | 1.3 | 5 |
| 49 | Conley index condition for asymptotic stability. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 4503-4510. | 0.6 | 5 |
| 50 | Homogeneous continuous finite-time observer for the triple integrator. , 2015, , . | | 5 |
| 51 | Prediction-based control with delay estimation of LTI systems with input-output delays. , 2019, , . | | 5 |
| 52 | Robustness of sampled-data homogeneous systems. Automatica, 2021, 123, 109345. | 3.0 | 4 |
| 53 | Distributed time-varying formation tracking of multi-quadrotor systems with partial aperiodic sampled data. Nonlinear Dynamics, 2022, 108, 2263-2278. | 2.7 | 4 |
| 54 | Global finite-time observers for non linear systems. , 2009, , . | | 3 |

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|---|---------|-----|-----------|
| 55 | Potential Feedback Control for the Power Control in LTE. IEEE Transactions on Automatic Control, 2015, 60, 2506-2511. | 3.6 | 3 |
| 56 | Predictive control of disturbed systems with input delay: experimental validation on a DC motorâˆˆâˆˆThis work was supported by the bilateral project Mexico-Francia (PCP 2013) 209488 CONACYT between the Ecole Centrale de Nantes and the Universidad AutÃ³noma de Nuevo LeÃ³n.. IFAC-PapersOnLine, 2015, 48, 292-297. | 0.5 | 3 |
| 57 | Predictor-Based Control of LTI Remote Systems With Estimated Time-Varying Delays. , 2021, 5, 289-294. | | 3 |
| 58 | Topological properties for compact stable attractors in $\mathbb{R}^n$. , 2019, , 15-21. | | 1 |
| 59 | A practical online time-varying delay estimation of remote control system based on adaptive super-twisting algorithm. , 2020, , . | | 1 |
| 60 | Quasi-Online Disturbance Rejection for Nonlinear Parabolic PDE using a Receding Time Horizon Control. , 2021, , . | | 1 |
| 61 | Global dissipativity of fuzzy genetic regulatory networks with mixed delays. International Journal of Systems Science, 0, , 1-20. | 3.7 | 1 |
| 62 | Some properties of Lyapunov function sets. Proceedings of the American Mathematical Society, 2010, 138, 4067-4067. | 0.4 | 0 |
| 63 | Homogeneous approximations for multi-output systems and local observability.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8010-8015. | 0.4 | 0 |
| 64 | Non-collapsing wave functions in an infinite universe. Results in Physics, 2014, 4, 164-167. | 2.0 | 0 |
| 65 | Rational Lyapunov Functions and Stable Algebraic Limit Cycles. IEEE Transactions on Automatic Control, 2014, 59, 1077-1081. | 3.6 | 0 |