

# Alexander Lanzon

## List of Publications by Year in Descending Order

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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.

140  
papers

2,312  
citations

27  
h-index

43  
g-index

158  
ext. papers

3,005  
ext. citations

3.6  
avg, IF

5.68  
L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 140 | On Discrete-Time Output Negative Imaginary Systems <b>2022</b> , 6, 1124-1129  |     | 2         |
| 139 | On Local Input-Output Stability of Nonlinear Feedback Systems via Local Graph Separation <b>2022</b> , 1-1   |     |           |
| 138 | Applying negative imaginary systems theory to non-square systems with polytopic uncertainty. <i>Automatica</i> , <b>2021</b> , 128, 109570   | 5.7 | 7         |
| 137 | Negative Imaginary Theory for a Class of Linear Time-Varying Systems <b>2021</b> , 5, 1001-1006  |     | 4         |
| 136 | A Decentralized Cluster Formation Containment Framework for Multirobot Systems. <i>IEEE Transactions on Robotics</i> , <b>2021</b> , 1-20  | 6.5 | 15        |
| 135 | Robust Cooperative Control of Networked Train Platoons: a Negative-Imaginary Systems' Perspective. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 1-1                                | 4   | 1         |
| 134 | Group Coordinated Control of Networked Mobile Robots With Applications to Object Transportation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 8269-8274                              | 6.8 | 13        |
| 133 | Strictly negative imaginary state feedback control with a prescribed degree of stability. <i>Automatica</i> , <b>2020</b> , 119, 109079  | 5.7 | 2         |
| 132 | Robust output consensus of homogeneous multi-agent systems with negative imaginary dynamics. <i>Automatica</i> , <b>2020</b> , 113, 108799   | 5.7 | 3         |
| 131 | Cooperative Control of Heterogeneous Connected Vehicle Platoons: An Adaptive Leader-Following Approach. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 977-984                               | 4.2 | 40        |
| 130 | Development and stabilization of a low-cost single-tilt tricopter. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 8897-8902.   | 2.7 |           |
| 129 | Sensor blending and Control allocation for non-square linear systems to achieve negative imaginary dynamics. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 4629-4634  | 0.7 |           |
| 128 | Time-domain output negative imaginary systems and its connection to dynamic dissipativity <b>2020</b> ,  |     | 4         |
| 127 | Controller synthesis to achieve robust stability against bicoprime factor uncertainty: an LMI approach. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 7400-7405   | 0.7 |           |
| 126 | Two-layer distributed formation-containment control strategy for linear swarm systems: Algorithm and experiments. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 6433-6453 | 3.6 | 13        |
| 125 | . <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 413-424   | 4.8 | 1         |
| 124 | . <i>IEEE Transactions on Control of Network Systems</i> , <b>2020</b> , 7, 140-150  | 4   | 46        |

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|-----|---|------|----|
| 123 | A Direct Proof of the Equivalence of Side Conditions for Strictly Positive Real Matrix Transfer Functions. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 450-452                      | 5.9  | 3  |
| 122 | Dynamic Output Feedback Controller Synthesis using an LMI-based $\mathbb{H}$ Strictly Negative Imaginary Framework <b>2019</b> ,  |      | 3  |
| 121 | Cooperative Control of Integrator Negative Imaginary Systems with Application to Rendezvous Multiple Mobile Robots <b>2019</b> ,  |      | 2  |
| 120 | Negative imaginary synthesis via dynamic output feedback and static state feedback: A Riccati approach. <i>Automatica</i> , <b>2019</b> , 104, 220-227  | 5.7  | 7  |
| 119 | Distributed robust stabilization of networked multiagent systems with strict negative imaginary uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , <b>2019</b> , 29, 4845-4858 | 3.6  | 4  |
| 118 | Output strictly negative imaginary systems and its connections to dissipativity theory <b>2019</b> ,  |      | 11 |
| 117 | Distributed Finite-Time Consensus Control for Heterogeneous Battery Energy Storage Systems in Droop-Controlled Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 4751-4761           | 10.7 | 24 |
| 116 | Closed-loop stability analysis of discrete-time negative imaginary systems. <i>Systems and Control Letters</i> , <b>2018</b> , 114, 52-58   | 2.4  | 8  |
| 115 | An innovative tri-rotor drone and associated distributed aerial drone swarm control. <i>Robotics and Autonomous Systems</i> , <b>2018</b> , 103, 162-174  | 3.5  | 31 |
| 114 | Controller Synthesis to Render a Closed Loop Transfer Function Strongly Strictly Negative Imaginary <b>2018</b> ,   |      | 3  |
| 113 | On negative imaginary synthesis via solutions to Riccati equations <b>2018</b> ,  |      | 3  |
| 112 | Cooperative Adaptive Time-Varying Formation Tracking for Multi-Agent Systems with LQR Performance Index and Switching Directed Topologies <b>2018</b> ,   |      | 5  |
| 111 | Robust Output Consensus for Networks of Homogeneous Negative Imaginary Systems <b>2018</b> ,  |      | 3  |
| 110 | Cooperative Control of Innovative Tri-Rotor Drones Using Robust Feedback Linearization <b>2018</b> ,  |      | 2  |
| 109 | <b>2018</b> ,   |      | 1  |
| 108 | Normalized Bicoprime Factorizations <b>2018</b> ,   |      | 3  |
| 107 | Discrete-time negative imaginary systems. <i>Automatica</i> , <b>2017</b> , 79, 1-10  | 5.7  | 37 |
| 106 | Feedback Stability of Negative Imaginary Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5620-5633   | 5.9  | 39 |

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|-----|---|-----|----|
| 105 | Conditions for preserving negative imaginary properties in feedback interconnections and an application to multi-agent systems <b>2017</b> ,  |     | 3  |
| 104 | Foundations of a Bicoprime Factorization Theory. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 4598-4603  | 5.9 | 4  |
| 103 | Foundations of Not Necessarily Rational Negative Imaginary Systems Theory: Relations Between Classes of Negative Imaginary and Positive Real Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 3052-3057 | 5.9 | 47 |
| 102 | Negative Imaginary Lemmas for Descriptor Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 1-1   | 5.9 | 4  |
| 101 | Robust cooperative control of multiple heterogeneous Negative-Imaginary systems. <i>Automatica</i> , <b>2015</b> , 61, 64-72  | 5.7 | 40 |
| 100 | Bicoprime Factor Stability Criteria and Uncertainty Characterisation. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 229-234  | 5.7 | 1  |
| 99  | Enhanced Tracking for Nanopositioning Systems Using Feedforward/Feedback Multivariable Control Design. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 1003-1013                                       | 4.8 | 21 |
| 98  | Robust output feedback consensus for multiple heterogeneous negative-imaginary systems <b>2015</b> ,  |     | 1  |
| 97  | Robust Output Feedback Consensus for Networked Negative-Imaginary Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2547-2552  | 5.9 | 45 |
| 96  | A generalized negative imaginary lemma and Riccati-based static state-feedback negative imaginary synthesis. <i>Systems and Control Letters</i> , <b>2015</b> , 77, 63-68   | 2.4 | 31 |
| 95  | Flight Control of a Quadrotor Vehicle Subsequent to a Rotor Failure. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2014</b> , 37, 580-591  | 2.1 | 75 |
| 94  | Characterising discrete-time linear systems with the mixed positive real and bounded real property. <i>European Journal of Control</i> , <b>2014</b> , 20, 259-268  | 2.5 | 1  |
| 93  | Spectral Conditions for Negative Imaginary Systems With Applications to Nanopositioning. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 895-903  | 5.5 | 44 |
| 92  | Generalizing Negative Imaginary Systems Theory to Include Free Body Dynamics: Control of Highly Resonant Structures With Free Body Motion. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 2692-2707            | 5.9 | 76 |
| 91  | LMI searches for anticausal and noncausal rational Zames-Balab multipliers. <i>Systems and Control Letters</i> , <b>2014</b> , 70, 17-22  | 2.4 | 23 |
| 90  | A Robust Output Feedback Consensus Protocol for Networked Negative-Imaginary Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 2878-2883                            |     | 2  |
| 89  | Design, control, and performance of the <i>weed</i> wheel robot in the UK MOD grand challenge. <i>Advanced Robotics</i> , <b>2014</b> , 28, 203-218   | 1.7 | 1  |
| 88  | On multipliers for bounded and monotone nonlinearities. <i>Systems and Control Letters</i> , <b>2014</b> , 66, 65-71  | 2.4 | 12 |

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|----|--|-----|----|
| 87 | An iterative algorithm for maximizing robust performance in loop-shaping design. <i>International Journal of Robust and Nonlinear Control</i> , <b>2013</b> , 23, 919-931                                | 3.6 | 1  |
| 86 | Equivalence between classes of multipliers for slope-restricted nonlinearities. <i>Automatica</i> , <b>2013</b> , 49, 1732-1740  | 5.7 | 30 |
| 85 | Effect of unmodelled actuator dynamics on feedback linearised systems and a two stage feedback linearisation method <b>2013</b> ,  |     | 5  |
| 84 | Enforcing negative imaginary dynamics on mathematical system models. <i>International Journal of Control</i> , <b>2013</b> , 86, 1292-1303   | 1.5 | 9  |
| 83 | On multipliers for bounded and monotone nonlinearities <b>2013</b> ,   |     | 1  |
| 82 | Simultaneous optimization of performance weights and a controller in mixed-. <i>Automatica</i> , <b>2012</b> , 48, 115-120   | 5.7 |    |
| 81 | State-space solution to weight optimization problem in H $\infty$ loop-shaping control. <i>Automatica</i> , <b>2012</b> , 48, 505-513  | 5.7 | 6  |
| 80 | Factorization of multipliers in passivity and IQC analysis. <i>Automatica</i> , <b>2012</b> , 48, 909-916  | 5.7 | 15 |
| 79 | On lossless negative imaginary systems. <i>Automatica</i> , <b>2012</b> , 48, 1213-1217  | 5.7 | 32 |
| 78 | Design and control of novel tri-rotor UAV <b>2012</b> ,  |     | 21 |
| 77 | A closed-loop data based test for robust performance improvement in iterative identification and control redesigns. <i>Automatica</i> , <b>2012</b> , 48, 2710-2716                                      | 5.7 | 4  |
| 76 | Discussion on: $n$ -DOF Controller Design for Precise Positioning a Spindle Levitated with Active Magnetic Bearings <i>European Journal of Control</i> , <b>2012</b> , 18, 207-209                       | 2.5 | 1  |
| 75 | A negative-imaginary lemma without minimality assumptions and robust state-feedback synthesis for uncertain negative-imaginary systems. <i>Systems and Control Letters</i> , <b>2012</b> , 61, 1269-1276 | 2.4 | 52 |
| 74 | Stabilization of uncertain negative-imaginary systems using a Riccati equation approach <b>2012</b> ,  |     | 4  |
| 73 | Finite Frequency Negative Imaginary Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 2917-2923   | 3.3 | 18 |
| 72 | LMI search for rational anticausal Zames-Falb multipliers <b>2012</b> ,  |     | 8  |
| 71 | <b>2012</b> ,  |     | 1  |
| 70 | Comments on $\exists$ On the Existence of Stable, Causal Multipliers for Systems With Slope-Restricted Nonlinearities <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 2422-2428        | 5.9 | 24 |

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| 69 | Robust performance analysis for uncertain negative-imaginary systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2012</b> , 22, 262-281  | 3.6 | 29  |
| 68 | Robust stability and performance analysis for uncertain linear systems—the distance measure approach. <i>International Journal of Robust and Nonlinear Control</i> , <b>2012</b> , 22, 1270-1292                | 3.6 | 8   |
| 67 | Revisiting robust stabilization of coprime factors: The general case <b>2012</b> ,  |     | 1   |
| 66 | A Robust Kalman Conjecture For First-Order Plants. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 27-32   |     | 9   |
| 65 | Designing Electric Propulsion Systems for UAVs. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 388-389  | 0.9 | 1   |
| 64 | Stability Analysis of Interconnected Systems With Mixed Negative-Imaginary and Small-Gain Properties. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 1395-1400                               | 5.9 | 59  |
| 63 | Weight optimization for maximizing robust performance in H <sub>∞</sub> loop-shaping design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 10135-10140 |     | 1   |
| 62 | Spectral Conditions for the Negative Imaginary Property of Transfer Function Matrices. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 1302-1306         |     | 4   |
| 61 | A Feedback Linearization Approach to Fault Tolerance in Quadrotor Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 5413-5418                    |     | 57  |
| 60 | Robust Performance Improvement Test for Stabilizing Controllers Using Closed-Loop Data. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 3623-3628        |     |     |
| 59 | A parameterization of parahermitian matrix functions and its application to a state-space solution for $\mu$ -analysis. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 798-806                          | 2.4 | 0   |
| 58 | Robustness analysis and controller synthesis with non-normalized coprime factor uncertainty characterisation <b>2011</b> ,  |     | 3   |
| 57 | Designing simple indoor navigation system for UAVs <b>2011</b> ,  |     | 2   |
| 56 | Enforcing a system model to be negative imaginary via perturbation of Hamiltonian matrices <b>2011</b> ,  |     | 1   |
| 55 | A new stability result for the feedback interconnection of negative imaginary systems with a pole at the origin <b>2011</b> ,   |     | 11  |
| 54 | Kinematic Analysis and Control Design for a Nonplanar Multirotor Vehicle. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2011</b> , 34, 1157-1171   | 2.1 | 48  |
| 53 | A strongly strict negative-imaginary lemma for non-minimal linear systems. <i>Communications in Information and Systems</i> , <b>2011</b> , 11, 139-142   | 0.8 | 30  |
| 52 | Feedback Control of Negative-Imaginary Systems. <i>IEEE Control Systems</i> , <b>2010</b> , 30, 54-72   | 2.9 | 184 |

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| 51 | A Negative Imaginary Lemma and the Stability of Interconnections of Linear Negative Imaginary Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 2342-2347                               | 5.9 | 108 |
| 50 | Stability analysis of negative imaginary systems with real parametric uncertainty in the single-input single-output case. <i>IET Control Theory and Applications</i> , <b>2010</b> , 4, 2631-2638                | 2.5 | 21  |
| 49 | Analysis of robust performance for uncertain negative-imaginary systems using structured singular value <b>2010</b> ,  |     | 1   |
| 48 | Towards Controller Synthesis for Systems with Negative Imaginary Frequency Response. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 1506-1511   | 5.9 | 36  |
| 47 | Smooth weight optimization in loop-shaping design. <i>Systems and Control Letters</i> , <b>2010</b> , 59, 663-670  | 2.4 | 8   |
| 46 | Validating Controllers for Internal Stability Utilizing Closed-Loop Data. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 2719-2725  | 5.9 | 25  |
| 45 | Stability analysis of positive feedback interconnections of linear negative imaginary systems <b>2009</b> ,  |     | 7   |
| 44 | Design of Robust Drag-Free Controllers with Given Structure. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2009</b> , 32, 1609-1621   | 2.1 | 14  |
| 43 | Quantitative effects of weight adjustments in H <sub>∞</sub> control. <i>Optimal Control Applications and Methods</i> , <b>2009</b> , 30, 267-286  | 1.7 | 2   |
| 42 | A test for stability robustness of linear time-varying systems utilizing the linear time-invariant gap metric. <i>International Journal of Robust and Nonlinear Control</i> , <b>2009</b> , 19, 986-1015         | 3.6 | 1   |
| 41 | Interconnections of nonlinear systems with mixed small gain and passivity properties and associated input-output stability results. <i>Systems and Control Letters</i> , <b>2009</b> , 58, 289-295               | 2.4 | 26  |
| 40 | Distance Measures for Uncertain Linear Systems: A General Theory. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1532-1547  | 5.9 | 23  |
| 39 | Analysis for interconnections of systems with negative imaginary frequency response <b>2009</b> ,  |     | 2   |
| 38 | Reformulating negative imaginary frequency response systems to bounded-real systems <b>2008</b> ,  |     | 3   |
| 37 | Computing the Positive Stabilizing Solution to Algebraic Riccati Equations With an Indefinite Quadratic Term via a Recursive Method. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 2280-2291 | 5.9 | 45  |
| 36 | Design of robust decentralized controllers for drag-free satellite <b>2008</b> ,   |     | 1   |
| 35 | Stability Robustness of a Feedback Interconnection of Systems With Negative Imaginary Frequency Response. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 1042-1046                            | 5.9 | 194 |
| 34 | Systematic Design of Optimal Performance Weight and Controller in Mixed- $\mu$ Synthesis. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 7814-7819       |     | 1   |

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|----|--|-----|----|
| 33 | A modified positive-real type stability condition <b>2007</b> ,  |     | 9  |
| 32 | <b>2007</b> ,  |     | 6  |
| 31 | An iterative algorithm to solve Algebraic Riccati Equations with an indefinite quadratic term <b>2007</b> ,  |     | 7  |
| 30 | Unfalsified adaptive control: A new controller implementation and some remarks <b>2007</b> ,   |     | 23 |
| 29 | A fixed-small gain and passivity theorem in the frequency domain. <i>Systems and Control Letters</i> , <b>2007</b> , 56, 596-602   | 2.4 | 39 |
| 28 | Model approximation using magnitude and phase criteria: implications for model reduction and system identification. <i>International Journal of Robust and Nonlinear Control</i> , <b>2007</b> , 17, 435-461 | 3.6 | 15 |
| 27 | Verifying stabilizing controllers via closed-loop noisy data: MIMO case <b>2007</b> ,  |     | 4  |
| 26 | <b>2007</b> ,  |     | 3  |
| 25 | Synthesis of parameter-dependent controllers yielding affine-in-parameters characteristic polynomials <b>2006</b> ,  |     | 1  |
| 24 | On the modelling of a bistable genetic switch <b>2006</b> ,  |     | 1  |
| 23 | Checking if controllers are stabilizing using closed-loop data <b>2006</b> ,   |     | 18 |
| 22 | An approach for computing the exact stability domain for a class of LTI parameter dependent systems. <i>International Journal of Control</i> , <b>2006</b> , 79, 1046-1061                                   | 1.5 | 10 |
| 21 | A two-degree-of-freedom $H_\infty$ control design method for robust model matching. <i>International Journal of Robust and Nonlinear Control</i> , <b>2006</b> , 16, 467-483                                 | 3.6 | 12 |
| 20 | $H_\infty$ design to generalize internal model control. <i>Automatica</i> , <b>2006</b> , 42, 1959-1968  | 5.7 | 24 |
| 19 | A model reference approach to safe controller changes in iterative identification and control. <i>Automatica</i> , <b>2006</b> , 42, 193-203   | 5.7 | 17 |
| 18 | Relationship between poles and zeros of input-output and chain-scattering systems. <i>Systems and Control Letters</i> , <b>2006</b> , 55, 314-320  | 2.4 | 2  |
| 17 | A combined application of $H_\infty$ loop shaping and $\mu$ -synthesis to control high-speed flywheels. <i>IEEE Transactions on Control Systems Technology</i> , <b>2005</b> , 13, 766-777                   | 4.8 | 26 |
| 16 | ON POLES AND ZEROS OF INPUT-OUTPUT AND CHAIN-SCATTERING SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 348-353                              |     | 1  |



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|----|---|-----|----|
| 15 | Weight optimisation in $H_2$ -loop-shaping. <i>Automatica</i> , <b>2005</b> , 41, 1201-1208   | 5.7 | 42 |
| 14 | Pointwise in frequency performance weight optimization in $\mu$ -synthesis. <i>International Journal of Robust and Nonlinear Control</i> , <b>2005</b> , 15, 171-199          | 3.6 | 9  |
| 13 | Safe controller changes with additional guaranteed model reference performance improvement for the unknown plant <b>2004</b> ,  |     | 1  |
| 12 | An $H_2$ algorithm for the windsurfer approach to adaptive robust control. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2004</b> , 18, 607-628 | 2.8 | 17 |
| 11 | A combined iterative scheme for identification and control redesigns. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2004</b> , 18, 629-644      | 2.8 | 11 |
| 10 | Selection of a single uniquely specifiable $H_2$ -controller in the chain-scattering framework. <i>Automatica</i> , <b>2004</b> , 40, 985-994                                 | 5.7 | 6  |
| 9  | On the formulation and solution of robust performance problems. <i>Automatica</i> , <b>2003</b> , 39, 1707-1720   | 5.7 | 14 |
| 8  | On weight adjustments in $H_2$ -control design <b>2003</b> ,  |     | 2  |
| 7  | An algorithm for joint identification and control <b>2002</b> ,   |     | 1  |
| 6  | Compliant motion control for non-redundant rigid robotic manipulators. <i>International Journal of Control</i> , <b>2000</b> , 73, 225-241                                    | 1.5 | 3  |
| 5  | Distance Measures, Robust Stability Conditions and Robust Performance Guarantees for Uncertain Feedback Systems 317-344   |     | 2  |
| 4  | Safe adaptive controller changes based on reference model adjustments   |     | 2  |
| 3  | A state-space algorithm for the simultaneous optimisation of performance weights and controllers in $\mu$ -synthesis  |     | 3  |
| 2  | A frequency domain optimisation algorithm for simultaneous design of performance weights and controllers in $\mu$ -synthesis  |     | 2  |
| 1  | Simultaneous synthesis of weights and controllers in $H_{\infty}$ -loop-shaping   |     | 5  |