# Andrew G Alleyne

## List of Publications by Year in Descending Order

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**Version:** 2024-04-17

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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.

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|---|---|---|---|
| 238 papers | 5,882 citations | 36 h-index | 71 g-index |
| 297 ext. papers | 6,932 ext. citations | 4.2 avg, IF | 6.02 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 238 | A Series-Hierarchical Iterative Learning Controller for Multi-Stage Systems **2022**, 6, 914-919 | | 0 |
| 237 | Process monitoring and control strategies in extrusion-based bioprinting to fabricate spatially graded structures. *Bioprinting*, **2021**, 21, e00126 | 7 | 5 |
| 236 | Plant and Controller Optimization for Power and Energy Systems With Model Predictive Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2021**, 143, | 1.6 | 1 |
| 235 | A Multi-Input Single-Output iterative learning control for improved material placement in extrusion-based additive manufacturing. *Control Engineering Practice*, **2021**, 111, 104783 | 3.9 | 4 |
| 234 | Graphene-based electromechanical thermal switches. *2D Materials*, **2021**, 8, 035055 | 5.9 | 0 |
| 233 | An Improved Approach to Iterative Learning Control for Uncertain Systems. *IEEE Transactions on Control Systems Technology*, **2021**, 29, 546-555 | 4.8 | 6 |
| 232 | Nanostructured jumping-droplet thermal rectifier. *Physical Review E*, **2021**, 103, 023110 | 2.4 | 9 |
| 231 | Hierarchical model-based predictive controller for a hybrid UAV powertrain. *Control Engineering Practice*, **2021**, 115, 104883 | 3.9 | 2 |
| 230 | Extremum seeking control of battery powered vapor compression systems for commercial vehicles. *International Journal of Refrigeration*, **2020**, 115, 63-72 | 3.8 | 4 |
| 229 | Optimal Sensor Placement Methods in Active High Power Density Electronic Systems With Experimental Validation. *Journal of Mechanical Design, Transactions of the ASME*, **2020**, 142, | 3 | 4 |
| 228 | A Novel Framework for Simultaneous Topology and Sizing Optimization of Complex, Multi-Domain Systems-of-Systems. *Journal of Mechanical Design, Transactions of the ASME*, **2020**, 142, | 3 | 4 |
| 227 | An Improved Iterative Learning Control for Uncertain Multi-Axis Systems **2020**, | | 1 |
| 226 | Low-Complexity Hierarchical Control for Distributed Shopping Center HVAC. *IFAC-PapersOnLine*, **2020**, 53, 6597-6603 | 0.7 | |
| 225 | 1D and 2D error assessment and correction for extrusion-based bioprinting using process sensing and control strategies. *Biofabrication*, **2020**, 12, 045023 | 10.5 | 6 |
| 224 | Hierarchical Hybrid MPC for Management of Distributed Phase Change Thermal Energy Storage **2020**, | | 1 |
| 223 | Hierarchical Control of Aircraft Electro-Thermal Systems. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 1218-1232 | 4.8 | 10 |
| 222 | Optimal Flow Control and Single Split Architecture Exploration for Fluid-Based Thermal Management. *Journal of Mechanical Design, Transactions of the ASME*, **2019**, 141, | 3 | 7 |

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| 221 | Fault Detection and Isolation for Complex Thermal Management Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141, | 1.6 | 3 |
| 220 | Model-based temperature estimation of power electronics systems. *Control Engineering Practice*, **2019**, 85, 206-215 | 3.9 | 4 |
| 219 | Numerical model for liquid-to-liquid heat pumps implementing switching mode. *Applied Thermal Engineering*, **2019**, 160, 114054 | 5.8 | 2 |
| 218 | Innentitelbild: Selective Autonomous Molecular Transport and Collection by Hydrogel-Embedded Supramolecular Chemical Gradients (Angew. Chem. 50/2019). *Angewandte Chemie*, **2019**, 131, 18046-18046 | 3.6 | |
| 217 | Selective Autonomous Molecular Transport and Collection by Hydrogel-Embedded Supramolecular Chemical Gradients. *Angewandte Chemie*, **2019**, 131, 18333-18338 | 3.6 | 4 |
| 216 | Selective Autonomous Molecular Transport and Collection by Hydrogel-Embedded Supramolecular Chemical Gradients. *Angewandte Chemie - International Edition*, **2019**, 58, 18165-18170 | 16.4 | 5 |
| 215 | Direct process feedback in extrusion-based 3D bioprinting. *Biofabrication*, **2019**, 12, 015017 | 10.5 | 12 |
| 214 | Cooperativity and Hierarchical MPC of State-Constrained Switched Power Flow Systems **2019**, | | 1 |
| 213 | Dynamical Graph Models of Aircraft Electrical, Thermal, and Turbomachinery Components. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140, | 1.6 | 10 |
| 212 | Multi-zone Temperature Modeling and Control. *Advances in Industrial Control*, **2018**, 139-166 | 0.3 | 0 |
| 211 | Directed Molecular Collection by E-Jet Printed Microscale Chemical Potential Wells in Hydrogel Films. *Advanced Materials*, **2018**, 30, e1803140 | 24 | 5 |
| 210 | Robust hierarchical model predictive control of graph-based power flow systems. *Automatica*, **2018** , 96, 127-133 | 5.7 | 6 |
| 209 | Two-Level Hierarchical Mission-Based Model Predictive Control **2018**, | | 3 |
| 208 | HVAC System Modeling and Control: Vapor Compression System Modeling and Control. *Advances in Industrial Control*, **2018**, 73-103 | 0.3 | 1 |
| 207 | Power Density as the Key Enabler for Electrified Mobility. *Polytechnica*, **2018**, 1, 10-18 | 1 | 3 |
| 206 | Hierarchical Control for Electro-Thermal Power Management of an Electric Vehicle Powertrain **2018**, | | 1 |
| 205 | Optimal Flow Control and Single Split Architecture Exploration for Fluid-Based Thermal Management **2018**, | | 2 |
| 204 | Passivity and Decentralized MPC of Switched Graph-Based Power Flow Systems* **2018**, | | 6 |

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| 203 | Experimental Validation of Graph-Based Hierarchical Control for Thermal Management. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140, | 1.6 | 9 |
| 202 | Dynamic Thermal Management for Aerospace Technology: Review and Outlook. *Journal of Thermophysics and Heat Transfer*, **2017**, 31, 86-98 | 1.3 | 25 |
| 201 | Autonomous Vehicle Control: A Nonconvex Approach for Obstacle Avoidance. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 469-484 | 4.8 | 64 |
| 200 | Stability of decentralized model predictive control of graph-based power flow systems via passivity. *Automatica*, **2017**, 82, 29-34 | 5.7 | 18 |
| 199 | Mitigating power systems variability in more electric aircraft utilizing power electronics implemented dynamic thermal storage **2017**, | | 3 |
| 198 | Hardware-in-the-Loop Validation of Advanced Fuel Thermal Management Control. *Journal of Thermophysics and Heat Transfer*, **2017**, 31, 901-909 | 1.3 | 10 |
| 197 | A decentralized algorithm for control of autonomous agents coupled by feasibility constraints **2017** , | | 1 |
| 196 | Graph-based hierarchical control of thermal-fluid power flow systems **2017**, | | 3 |
| 195 | A Metameric Crawling Robot Enabled by Origami and Smart Materials **2017**, | | 3 |
| 194 | A Simulation and Experimental Environment for Teaching Chemical Reaction Process Dynamics and Control. *IFAC-PapersOnLine*, **2017**, 50, 15692-15697 | 0.7 | 1 |
| 193 | Switched linear control of vapor compression systems under highly transient conditions **2016**, | | 1 |
| 192 | Combining self-optimizing control and extremum seeking for online optimization with application to Vapor Compression cycles **2016**, | | 1 |
| 191 | Net shape fabrication of calcium phosphate scaffolds with multiple material domains. *Biofabrication*, **2016**, 8, 015005 | 10.5 | 13 |
| 190 | Iterative Learning Identification for Linear Time-Varying Systems. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 310-317 | 4.8 | 11 |
| 189 | Feedback shape control for deployable mesh reflectors using gain scheduling method. *Acta Astronautica*, **2016**, 121, 241-255 | 2.9 | 15 |
| 188 | Experimental Validation of Graph-Based Modeling for Thermal Fluid Power Flow Systems **2016**, | | 8 |
| 187 | 20x-Real time modeling and simulation of more electric aircraft thermally integrated electrical power systems **2016**, | | 5 |
| 186 | Iterative Learning Identification/Iterative Learning Control for Linear Time-Varying Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2016**, 138, | 1.6 | 5 |

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| 185 | Hybrid model predictive control of multi-compressor vapor compression systems **2016**, | | 1 |
| 184 | Switched linear control for refrigerant superheat recovery in vapor compression systems. *Control Engineering Practice*, **2016**, 57, 142-156 | 3.9 | 3 |
| 183 | Model predictive control of hybrid thermal energy systems in transport refrigeration. *Applied Thermal Engineering*, **2015**, 82, 264-280 | 5.8 | 14 |
| 182 | Comparative Study of Energy Management Strategies for Hydraulic Hybrids. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2015**, 137, | 1.6 | 7 |
| 181 | Learning-Based Precool Algorithms for Exploiting Foodstuff as Thermal Energy Reserve. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 557-569 | 4.8 | 3 |
| 180 | Polarized quantum dot emission in electrohydrodynamic jet printed photonic crystals. *Applied Physics Letters*, **2015**, 107, 051101 | 3.4 | 11 |
| 179 | Printing: Mechanisms, Capabilities, and Applications of High-Resolution Electrohydrodynamic Jet Printing (Small 34/2015). *Small*, **2015**, 11, 4412-4412 | 11 | 4 |
| 178 | Fluid Power Systems **2015**, 1-34 | | |
| 177 | A Model Predictive Framework for Thermal Management of Aircraft **2015**, | | 2 |
| 176 | Mechanisms, Capabilities, and Applications of High-Resolution Electrohydrodynamic Jet Printing. *Small*, **2015**, 11, 4237-66 | 11 | 317 |
| 175 | PowerFlow: A Toolbox for Modeling and Simulation of Aircraft Systems **2015**, | | 6 |
| 174 | NLMPC for Real Time Path Following and Collision Avoidance. *SAE International Journal of Passenger Cars - Electronic and Electrical Systems*, **2015**, 8, 401-405 | | 4 |
| 173 | Hierarchical Control of Multi-Domain Power Flow in Mobile Systems: Part I Framework Development and Demonstration **2015**, | | 4 |
| 172 | A semi-continuous Roll-to-Roll (R2R) electrohydrodynamic jet printing system. *Mechatronics*, **2015**, 31, 243-254 | 3 | 13 |
| 171 | A comparison between finite volume and switched moving boundary approaches for dynamic vapor compression system modeling. *International Journal of Refrigeration*, **2015**, 53, 101-114 | 3.8 | 36 |
| 170 | Exergy-based optimal control of a vapor compression system. *Energy Conversion and Management*, **2015**, 92, 353-365 | 10.6 | 38 |
| 169 | Decentralized predictive thermal control for buildings. *Journal of Process Control*, **2014**, 24, 820-835 | 3.9 | 25 |
| 168 | Photonic crystal enhancement of a homogeneous fluorescent assay using submicron fluid channels fabricated by E-jet patterning. *Journal of Biophotonics*, **2014**, 7, 266-75 | 3.1 | 15 |

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|---|---|---|---|
| 167 | Iterative Learning Identification Applied to Automated Off-Highway Vehicle. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 331-337 | 4.8 | 9 |
| 166 | Electrohydrodynamic jet printing of micro-optical devices. *Manufacturing Letters*, **2014**, 2, 4-7 | 4.5 | 27 |
| 165 | A robust two degree-of-freedom controller for systems with both model and measurement uncertainty. *Control Engineering Practice*, **2014**, 25, 55-65 | 3.9 | 6 |
| 164 | A computationally efficient norm optimal iterative learning control approach for LTV systems. *Automatica*, **2014**, 50, 141-148 | 5.7 | 25 |
| 163 | Block copolymer assembly on nanoscale patterns of polymer brushes formed by electrohydrodynamic jet printing. *ACS Nano*, **2014**, 8, 6606-13 | 16.7 | 43 |
| 162 | A Cross-Coupled Non-lifted Norm Optimal Iterative Learning Control Approach with Application to a Multi-axis Robotic Testbed. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 2046-2051 | | 4 |
| 161 | Vision Based Iterative Learning Control for a Roll to Roll Micro/nano-manufacturing System. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 7202-7207 | | 1 |
| 160 | Robust Two Degree-Of-Freedom Control for MIMO System with Both Model and Signal Uncertainties. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 9313-9320 | | 3 |
| 159 | Model Accuracy of Variable Fidelity Vapor Cycle System Simulations **2014**, | | 5 |
| 158 | Transient Thermal Systems: Dynamics and Control. *Mechanical Engineering*, **2014**, 136, S4-S12 | 0.9 | |
| 157 | . *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1581-1588 | 4.8 | 18 |
| 156 | Switched-fidelity modeling and optimization for multi-physics dynamical systems **2014**, | | 2 |
| 155 | Two Degree of Freedom Control Synthesis With Applications to Agricultural Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2014**, 136, | 1.6 | 3 |
| 154 | Iterative Learning Control for image based visual servoing applications **2014**, | | 1 |
| 153 | **2014**, | | 4 |
| 152 | Partially decentralized control of large-scale variable-refrigerant-flow systems in buildings. *Journal of Process Control*, **2014**, 24, 798-819 | 3.9 | 17 |
| 151 | Optimal subcooling in vapor compression systems via extremum seeking control: Theory and experiments. *International Journal of Refrigeration*, **2014**, 43, 14-25 | 3.8 | 44 |
| 150 | Hierarchical patterns of three-dimensional block-copolymer films formed by electrohydrodynamic jet printing and self-assembly. *Nature Nanotechnology*, **2013**, 8, 667-75 | 28.7 | 138 |

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|---|---|---|---|
| 149 | Optimal Partitioning for the Decentralized Thermal Control of Buildings. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 1756-1770 | 4.8 | 21 |
| 148 | A learning based precool algorithm for utilization of foodstuff as thermal energy storage **2013**, | | 4 |
| 147 | Fundamental Limits in Combine Harvester Header Height Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2013**, 135, 345031-345038 | 1.6 | 17 |
| 146 | Optimal Subcooling in Vapor Compression Systems via Extremum Seeking Control **2013**, | | 1 |
| 145 | Norm Optimal Iterative Learning Control for a Roll to Roll nano/micro-manufacturing system **2013**, | | 4 |
| 144 | Decentralized controller analysis and design for multi-evaporator vapor compression systems **2013**, | | 7 |
| 143 | Motion control for magnetic micro-scale manipulation **2013**, | | 1 |
| 142 | Learning/repetitive control for building systems with nearly periodic disturbances **2013**, | | 3 |
| 141 | Enery management in Mobile Hydraulics. *Mechanical Engineering*, **2013**, 135, S4-S6 | 0.9 | |
| 140 | Decentralized architectures for thermal control of buildings **2012**, | | 5 |
| 139 | Adaptive Model Predictive Control of an SCR Catalytic Converter System for Automotive Applications. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 1533-1547 | 4.8 | 42 |
| 138 | A multimaterial electrohydrodynamic jet (E-jet) printing system. *Journal of Micromechanics and Microengineering*, **2012**, 22, 045008 | 2 | 62 |
| 137 | A framework for the optimization of integrated energy systems. *Applied Thermal Engineering*, **2012**, 48, 495-505 | 5.8 | 13 |
| 136 | Functional protein microarrays by electrohydrodynamic jet printing. *Analytical Chemistry*, **2012**, 84, 10012-8 | 7.8 | 53 |
| 135 | Optimal Energy Use in a Light Weight Hydraulic Hybrid Passenger Vehicle. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2012**, 134, | 1.6 | 19 |
| 134 | A Dynamic Modeling Toolbox for Air Vehicle Vapor Cycle Systems **2012**, | | 8 |
| 133 | Modeling and optimization of a combined cooling, heating and power plant system **2012**, | | 18 |
| 132 | An energy management strategy for a hydraulic hybrid vehicle **2012**, | | 3 |

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| 131 | Stability analysis for decentralized control of multi-evaporator vapor-compression cycle systems **2012**, | | 1 |
| 130 | High Throughput Electrohydrodynamic-Jet Printing System **2012**, | | 2 |
| 129 | Two Degrees of Freedom Control for Combine Harvester Header Height Control **2012**, | | 3 |
| 128 | Norm Optimal Iterative Learning Identification for Linear Time-Varying Systems **2012**, | | 3 |
| 127 | LMI Control Design for Nonlinear Vapor Compression Cycle Systems **2012**, | | 3 |
| 126 | Basis Task Approach to Iterative Learning Control With Applications to Micro-Robotic Deposition. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 1138-1148 | 4.8 | 62 |
| 125 | A Norm Optimal Approach to Time-Varying ILC With Application to a Multi-Axis Robotic Testbed. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 166-180 | 4.8 | 91 |
| 124 | Evaluation of Transient Refrigerant Migration Modeling Approach on Automotive Air Conditioning Systems. *SAE International Journal of Materials and Manufacturing*, **2011**, 4, 864-874 | 1 | 1 |
| 123 | Optimal Control Architecture Selection for Thermal Control of Buildings. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 3090-3095 | | |
| 122 | Thermodynamics-Based Optimization and Control of Vapor-Compression Cycle Operation: Control Synthesis **2011**, | | 3 |
| 121 | Control of high-resolution electrohydrodynamic jet printing. *Control Engineering Practice*, **2011**, 19, 1266-1273 | 3.9 | 53 |
| 120 | High Precision Electrohydrodynamic Printing of Polymer Onto Microcantilever Sensors. *IEEE Sensors Journal*, **2011**, 11, 2246-2253 | 4 | 29 |
| 119 | Optimal control architecture selection for thermal control of buildings **2011**, | | 9 |
| 118 | Thermodynamics-based optimization and control of vapor-compression cycle operation: Optimization criteria **2011**, | | 2 |
| 117 | Cross-coupled iterative learning control of systems with dissimilar dynamics: design and implementation. *International Journal of Control*, **2011**, 84, 1223-1233 | 1.5 | 27 |
| 116 | Refrigerant mass migration modeling and simulation for air conditioning systems. *Applied Thermal Engineering*, **2011**, 31, 1770-1779 | 5.8 | 15 |
| 115 | Bumpless transfer for a flexible adaptation of Iterative Learning Control **2011**, | | 4 |
| 114 | A model predictive control approach for a parallel hydraulic hybrid powertrain **2011**, | | 14 |

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| 113 | Model Predictive Control of an Electro-Hydraulic Powertrain With Energy Storage **2011**, | | 1 |
| 112 | Micropositioning of a Multimaterial Electrohydrodynamic Jet Deposition System Using Vision Feedback **2011**, | | 1 |
| 111 | Design and manufacture of combinatorial calcium phosphate bone scaffolds. *Journal of Biomechanical Engineering*, **2011**, 133, 101001 | 2.1 | 11 |
| 110 | Comparison of wind turbine operating transitions through the use of iterative learning control **2011**, | | 7 |
| 109 | Integrated Plant and Controller Design of a Combine Harvester System **2011**, | | 2 |
| 108 | Mixture Non-Uniformity in SCR Systems: Modeling and Uniformity Index Requirements for Steady-State and Transient Operation. *SAE International Journal of Fuels and Lubricants*, **2010**, 3, 486-499 | 1.8 | 29 |
| 107 | Control of high-resolution Electrohydrodynamic jet printing **2010**, | | 4 |
| 106 | Predictive control of complex hydronic systems **2010**, | | 8 |
| 105 | Decentralized Feedback Structures of a Vapor Compression Cycle System. *IEEE Transactions on Control Systems Technology*, **2010**, 18, 185-193 | 4.8 | 23 |
| 104 | Precision coordination and motion control of multiple systems via iterative learning control **2010**, | | 8 |
| 103 | Optimal on-off control of an air conditioning and refrigeration system **2010**, | | 3 |
| 102 | Gain Scheduled Control of an Air Conditioning System Using the Youla Parameterization. *IEEE Transactions on Control Systems Technology*, **2010**, 18, 1216-1225 | 4.8 | 32 |
| 101 | High precision polymer deposition onto microcantilever sensors using electrohydrodynamic printing **2010**, | | 1 |
| 100 | Decoupled feedforward control for an air-conditioning and refrigeration system **2010**, | | 6 |
| 99 | Header Height Control of a Combine Harvester System **2010**, | | 5 |
| 98 | Predictive Energy Management for Parallel Hydraulic Hybrid Passenger Vehicle **2010**, | | 9 |
| 97 | Model Predictive Control: A Unified Approach for Urea-Based SCR Systems. *SAE International Journal of Fuels and Lubricants*, **2010**, 3, 673-689 | 1.8 | 11 |
| 96 | . *IEEE Transactions on Control Systems Technology*, **2010**, 18, 336-351 | 4.8 | 60 |

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|---|---|---|---|
| 95 | A numerical method for determining monotonicity and convergence rate in iterative learning control. *International Journal of Control*, **2010**, 83, 219-226 | 1.5 | 17 |
| 94 | High-speed and drop-on-demand printing with a pulsed electrohydrodynamic jet. *Journal of Micromechanics and Microengineering*, **2010**, 20, 095026 | 2 | 161 |
| 93 | Nanoscale, electrified liquid jets for high-resolution printing of charge. *Nano Letters*, **2010**, 10, 584-91 | 11.5 | 106 |
| 92 | Stochastic iterative learning control design for nonrepetitive events **2010**, | | 2 |
| 91 | A Robust Controller Interpolation Design Technique. *IEEE Transactions on Control Systems Technology*, **2010**, 18, 1-10 | 4.8 | 28 |
| 90 | Robust gain-scheduled control **2010**, | | 2 |
| 89 | A desktop electrohydrodynamic jet printing system. *Mechatronics*, **2010**, 20, 611-616 | 3 | 63 |
| 88 | A dynamic model of a vapor compression cycle with shut-down and start-up operations. *International Journal of Refrigeration*, **2010**, 33, 538-552 | 3.8 | 106 |
| 87 | Optimal on/off control of refrigerated transport systems. *Control Engineering Practice*, **2010**, 18, 1406-1417 | 3.9 | 29 |
| 86 | Control of Unstable Oscillations in Flows. *The Electrical Engineering Handbook*, **2010**, 34-1-34-20 | | |
| 85 | Dimensionless Design of Variable Displacement Pumps **2009**, | | 1 |
| 84 | A Switched, Controls-Oriented SCR Catalyst Model Using On-Line Eigenvalue Estimation **2009**, | | 8 |
| 83 | A Urea Decomposition Modeling Framework for SCR Systems. *SAE International Journal of Fuels and Lubricants*, **2009**, 2, 612-626 | 1.8 | 2 |
| 82 | Iterative Learning Control using a basis signal library **2009**, | | 2 |
| 81 | Comparison of SISO and MIMO control techniques for a diagonally dominant vapor compression system **2009**, | | 2 |
| 80 | Norm optimal ILC with time-varying weighting matrices **2009**, | | 4 |
| 79 | An anti-windup technique for LMI regions. *Automatica*, **2009**, 45, 2344-2349 | 5.7 | 8 |
| 78 | Robust Wireless Servo Control Using a Discrete-Time Uncertain Markovian Jump Linear Model. *IEEE Transactions on Control Systems Technology*, **2009**, 17, 733-742 | 4.8 | 19 |

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| 77 | Modeling of Complex Hydronic Systems for Energy Efficient Operation **2009**, | | 2 |
| 76 | Cross Coupled Iterative Learning Control of Dissimilar Dynamical Systems **2009**, | | 2 |
| 75 | Monotonic Convergence of Iterative Learning Control for Uncertain Systems Using a Time-Varying Filter. *IEEE Transactions on Automatic Control*, **2008**, 53, 582-585 | 5.9 | 43 |
| 74 | A Cross-Coupled Iterative Learning Control Design for Precision Motion Control. *IEEE Transactions on Control Systems Technology*, **2008**, 16, 1218-1231 | 4.8 | 137 |
| 73 | Robust Controller Interpolation via Parameterization **2008**, | | 9 |
| 72 | An Analysis Framework for Evaluating Dropout Compensation Strategies in Wireless Servo Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2008**, 130, | 1.6 | 5 |
| 71 | Optimizing Learning Convergence Speed and Converged Error for Precision Motion Control. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2008**, 130, | 1.6 | 5 |
| 70 | Moving-Boundary Heat Exchanger Models With Variable Outlet Phase. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2008**, 130, | 1.6 | 26 |
| 69 | Norm optimal Cross-Coupled Iterative Learning Control **2008**, | | 16 |
| 68 | High bandwidth control of precision motion instrumentation. *Review of Scientific Instruments*, **2008**, 79, 103704 | 1.7 | 15 |
| 67 | Iterative Learning Control for robotic deposition using machine vision **2008**, | | 10 |
| 66 | A switched system model for heat exchangers using a moving boundary method **2008**, | | 2 |
| 65 | OPTIMIZATION OF A PASSENGER HYDRAULIC HYBRID VEHICLE TO IMPROVE FUEL ECONOMY. *Proceedings of the JFPS International Symposium on Fluid Power*, **2008**, 2008, 143-148 | | 13 |
| 64 | An advanced nonlinear switched heat exchanger model for vapor compression cycles using the moving-boundary method. *International Journal of Refrigeration*, **2008**, 31, 1253-1264 | 3.8 | 106 |
| 63 | Dimensional analysis for robust control of planar vehicle dynamics. *International Journal of Robust and Nonlinear Control*, **2008**, 18, 587-616 | 3.6 | 1 |
| 62 | Micro-robotic deposition guidelines by a design of experiments approach to maximize fabrication reliability for the bone scaffold application. *Acta Biomaterialia*, **2008**, 4, 897-912 | 10.8 | 31 |
| 61 | Decentralized Feedback Structures of a Vapor Compression Cycle System **2008**, | | 2 |
| 60 | High-resolution electrohydrodynamic jet printing. *Nature Materials*, **2007**, 6, 782-9 | 27 | 1011 |

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| 59 | Advances in Energy Systems Modeling and Control. *Proceedings of the American Control Conference*, **2007**, | 1.2 | 7 |
| 58 | Cross-Coupled ILC for Improved Precision Motion Control: Design and Implementation **2007**, | | 7 |
| 57 | Feedback Structures for Vapor Compression Cycle Systems. *Proceedings of the American Control Conference*, **2007**, | 1.2 | 5 |
| 56 | A Time-Varying Q-Filter Design for Iterative Learning Control. *Proceedings of the American Control Conference*, **2007**, | 1.2 | 1 |
| 55 | A KYP Lemma for LMI Regions. *IEEE Transactions on Automatic Control*, **2007**, 52, 1926-1930 | 5.9 | 16 |
| 54 | Scaled vehicle tire characteristics: dimensionless analysis. *Vehicle System Dynamics*, **2006**, 44, 87-105 | 2.8 | 8 |
| 53 | A High Precision Motion Control System With Application to Microscale Robotic Deposition. *IEEE Transactions on Control Systems Technology*, **2006**, 14, 1008-1020 | 4.8 | 47 |
| 52 | A Static Anti-Windup Compensator Design Technique for Robust Regional Pole Placement **2006**, 75 | | 2 |
| 51 | Automotive Vapor Compression Cycles: Validation of Control- Oriented Models **2006**, | | 1 |
| 50 | Improving Energy Efficiency in Automotive Vapor Compression Cycles through Advanced Control Design **2006**, | | 2 |
| 49 | Dynamic Emulation Using an Indirect Control Input. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2005**, 127, 114-124 | 1.6 | 16 |
| 48 | Generalized Multivariable Gain Scheduling With Robust Stability Analysis. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2005**, 127, 668-687 | 1.6 | 10 |
| 47 | Discussion on: Development and Experimental Verification of a Mobile Client-Centric Networked Controlled System *European Journal of Control*, **2005**, 11, 252-254 | 2.5 | |
| 46 | Model-driven system identification of transcritical vapor compression systems. *IEEE Transactions on Control Systems Technology*, **2005**, 13, 444-451 | 4.8 | 44 |
| 45 | A practical and effective approach to active suspension control View all notes. *Vehicle System Dynamics*, **2005**, 43, 305-330 | 2.8 | 35 |
| 44 | Stamp collapse in soft lithography. *Langmuir*, **2005**, 21, 8058-68 | 4 | 184 |
| 43 | Dimensionless robust control with application to vehicles. *IEEE Transactions on Control Systems Technology*, **2005**, 13, 624-630 | 4.8 | 11 |
| 42 | Optimal Time-Varying ILC Design to Monotonically Minimize Converged Error **2005**, 3 | | |

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| 41 | Stable Gain Scheduling Through Bumpless Transfer **2005**, 93 | | |
| 40 | Parametric Sensitivity Analysis and Model Tuning Applied to Vapor Compression Systems **2005**, 1203 | | 1 |
| 39 | A hybrid control strategy for active vibration isolation with electrohydraulic actuators. *Control Engineering Practice*, **2005**, 13, 279-289 | 3.9 | 29 |
| 38 | Mechanism for stamp collapse in soft lithography. *Applied Physics Letters*, **2005**, 87, 251925 | 3.4 | 53 |
| 37 | Vapor Compression Cycles: Control-Oriented Modeling and Validation **2005**, 1213 | | 2 |
| 36 | Design and Convergence of a Time-Varying Iterative Learning Control Law **2004**, 91 | | 5 |
| 35 | Control-Oriented Modeling of Transcritical Vapor Compression Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2004**, 126, 54-64 | 1.6 | 71 |
| 34 | Real-time identification of vehicle chassis dynamics using a novel reparameterization based on sensitivity invariance. *International Journal of Adaptive Control and Signal Processing*, **2004**, 18, 103-123 | 2.8 | 4 |
| 33 | Application of a multivariable adaptive control strategy to automotive air conditioning systems. *International Journal of Adaptive Control and Signal Processing*, **2004**, 18, 199-221 | 2.8 | 37 |
| 32 | Design of a class of nonlinear controllers via state dependent Riccati equations. *IEEE Transactions on Control Systems Technology*, **2004**, 12, 133-137 | 4.8 | 60 |
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