

Chris Manzie

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.

181 papers	2,392 citations	27 h-index	42 g-index
197 ext. papers	2,877 ext. citations	4 avg, IF	5.53 L-index

#	Paper	IF	Citations
181	A comparison of turbine mass flow models based on pragmatic identification data sets for turbogenerator model development. <i>Energy</i> , 2022 , 247, 123073	7.9	0
180	Robust distributed model predictive control of linear systems: Analysis and synthesis. <i>Automatica</i> , 2022 , 137, 110141	5.7	0
179	A greedy and distributable approach to the Lexicographic Bottleneck Assignment Problem with conditions on exactness. <i>Automatica</i> , 2022 , 140, 110240	5.7	
178	Tracking and Regret Bounds for Online Zeroth-Order Euclidean and Riemannian Optimization. <i>SIAM Journal on Optimization</i> , 2022 , 32, 445-469	2	
177	Zeroth-Order Optimization on Subsets of Symmetric Matrices With Application to MPC Tuning. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-14	4.8	
176	Practical exponential stability and closeness of solutions for singularly perturbed systems via averaging. <i>Automatica</i> , 2021 , 126, 109449	5.7	0
175	Exploiting Inherent Human Motor Behaviour in the Online Personalisation of Human-Prosthetic Interfaces. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 1973-1980	4.2	3
174	Control Barrier Functions for Mechanical Systems: Theory and Application to Robotic Grasping. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 530-545	4.8	19
173	Personalized Online Adaptation of Kinematic Synergies for Human-Prosthesis Interfaces. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1070-1084	10.2	8
172	Interior Point Differential Dynamic Programming. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-8	4.8	9
171	Robustness analysis of nonlinear observers for the slow variables of singularly perturbed systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 5628-5656	3.6	1
170	A review of industrial tracking control algorithms. <i>Control Engineering Practice</i> , 2020 , 102, 104536	3.9	10
169	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8143-8154	8.9	5
168	Tuning of multivariable model predictive controllers through expert bandit feedback. <i>International Journal of Control</i> , 2020 , 1-9	1.5	2
167	Technical Note for Tactile-Based Blind Grasping: A Discrete-Time Object Manipulation Controller for Robotic Hands. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 3475-3476	4.2	3
166	Task-Space Synergies for Reaching Using Upper-Limb Prostheses. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 2966-2977	4.8	6
165	Tuning of model predictive engine controllers over transient drive cycles. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14022-14027	0.7	

164	A Multi-observer Approach for Parameter and State Estimation of Nonlinear Systems with Slowly Varying Parameters. <i>IFAC-PapersOnLine</i> , 2020 , 53, 4208-4213	0.7	
163	A distributed algorithm for UAV-based communication networks using constrained extremum seeking. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5429-5434	0.7	1
162	Complexity minimisation of suboptimal MPC without terminal constraints. <i>IFAC-PapersOnLine</i> , 2020 , 53, 6089-6094	0.7	
161	Active Learning for Linear Parameter-Varying System Identification. <i>IFAC-PapersOnLine</i> , 2020 , 53, 989-994	0.7	0
160	Exploiting Structure in the Bottleneck Assignment Problem. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3310-3315	0.7	1
159	Minimax strategy in approximate model predictive control. <i>Automatica</i> , 2020 , 111, 108649	5.7	1
158	Scan Rate Adaptation for AFM Imaging Based on Performance Metric Optimization. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 418-428	5.5	1
157	Control of an isolated microgrid using hierarchical economic model predictive control. <i>Applied Energy</i> , 2020 , 280, 115960	10.7	8
156	Collision Avoidance Based on Robust Lexicographic Task Assignment. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 5693-5700	4.2	2
155	Adaptive Scan for Atomic Force Microscopy Based on Online Optimization: Theory and Experiment. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 869-883	4.8	7
154	Fast Calibration of a Robust Model Predictive Controller for Diesel Engine Airpath. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1505-1519	4.8	10
153	Early Termination of NMPC Interior Point Solvers: Relating the Duality Gap to Stability 2019 ,		2
152	Robust object manipulation for tactile-based blind grasping. <i>Control Engineering Practice</i> , 2019 , 92, 104136	3.6	7
151	Bounded Error Tracking Control for Contouring Systems with End Effector Measurements 2019 ,		3
150	Model predictive controller with average emissions constraints for diesel airpath. <i>Control Engineering Practice</i> , 2019 , 90, 182-189	3.9	8
149	Constrained extremum seeking of a MIMO dynamic system. <i>Automatica</i> , 2019 , 108, 108496	5.7	4
148	Uncertainty Intervals for Robust Bottleneck Assignment 2019 ,		1
147	Modelling and Contouring Error Bounded Control of a Biaxial Industrial Gantry Machine 2019 ,		1

146	2019,		2
145	Tactile-Based Blind Grasping: A Discrete-Time Object Manipulation Controller for Robotic Hands. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1064-1071	4.2	15
144	Model Predictive Control for Lithium-Ion Battery Optimal Charging. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 947-957	5.5	50
143	Multiplexed extremum seeking for calibration of spark timing in a CNG-fuelled engine. <i>Control Engineering Practice</i> , 2018 , 72, 42-52	3.9	1
142	Hierarchical economic MPC for systems with storage states. <i>Automatica</i> , 2018 , 94, 138-150	5.7	8
141	Mesh adaptation in direct collocated nonlinear model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4624	3.6	2
140	Convergence of full-order observers for the slow states of a singularly perturbed system (Part I: Theory) 2018 ,		1
139	A Framework for Robust Nonlinear Economic MPC Without Terminal Constraints for a Class of Time Varying Systems 2018 ,		1
138	Global stability of the error dynamics of an observer designed for the slow states of a singularly perturbed system 2018 ,		1
137	A Machine Learning Approach for Tuning Model Predictive Controllers 2018 ,		5
136	Grasp Constraint Satisfaction for Object Manipulation using Robotic Hands 2018 ,		2
135	Hybrid Extremum Seeking for Black-Box Optimization in Hybrid Plants: An Analytical Framework 2018 ,		4
134	Singularly Perturbed Algorithms for Velocity Consensus and Shape Control of Single Integrator Multi-Agent Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 200-205	0.7	4
133	Convergence of full-order observers for the slow states of a singularly perturbed system (Part II: Applications) 2018 ,		1
132	On the Relationship Between Human Motor Control Performance and Kinematic Synergies in Upper Limb Prosthetics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 3194-3197	0.9	3
131	On-line Synergy Identification for Personalized Active Arm Prosthesis: a Feasibility Study 2018 ,		2
130	Economic Model Predictive Control and Applications for Diesel Generators. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 388-400	4.8	24
129	Extremum-Seeking in Singularly Perturbed Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3014-3020	5.9	9

128	Nonlinear Model-Predictive Integrated Missile Control and Its Multiobjective Tuning. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 2961-2970	2.1	9
127	Online optimisation of fuel consumption subject to NOx constraints. <i>IFAC-PapersOnLine</i> , 2017 , 50, 8901-8906	4	
126	Efficient calibration of real-time model-based controllers for diesel engines [Part I: Approach and drive cycle results 2017 ,	8	
125	Efficient calibration of real-time model-based controllers for diesel engines [Part II: Incorporating practical robustness guarantees 2017 ,	4	
124	Extremum-seeking-based adaptive scan for atomic force microscopy 2017 ,	3	
123	An experimental investigation of additional actuators on a submarine diesel generator. <i>Control Engineering Practice</i> , 2016 , 55, 26-37	3.9	1
122	Multi-time-scale observer design for state-of-charge and state-of-health of a lithium-ion battery. <i>Journal of Power Sources</i> , 2016 , 335, 121-130	8.9	149
121	Optimization Framework for Codesign of Controlled Aerodynamic Systems. <i>AIAA Journal</i> , 2016 , 54, 3149-3159	2	
120	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 2964-2976	5.5	13
119	A Framework for Simplification of PDE-Based Lithium-Ion Battery Models. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1594-1609	4.8	112
118	Continuity and monotonicity of the MPC value function with respect to sampling time and prediction horizon. <i>Automatica</i> , 2016 , 63, 330-337	5.7	12
117	Enhancing the performance of existing urban traffic light control through extremum-seeking. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 62, 1-20	8.4	20
116	Consideration of plant behaviour in optimal servo-compensator design. <i>International Journal of Control</i> , 2016 , 89, 1316-1331	1.5	1
115	An economic MPC approach to microgrid control 2016 ,	8	
114	A class of adaptive feedforward control using multiplexed extremum seeking 2016 ,	2	
113	2016 ,	1	
112	Towards dynamic object manipulation with tactile sensing for prosthetic hands 2016 ,	3	
111	Least cost, utility scale abatement from Australia's NEM (National Electricity Market). Part 2: Scenarios and policy implications. <i>Energy</i> , 2016 , 101, 621-628	7.9	8

110	Least cost, utility scale abatement from Australia's NEM (National Electricity Market). Part 1: Problem formulation and modelling. <i>Energy</i> , 2016 , 101, 606-620	7.9	17
109	Analytical results for the multi-objective design of model-predictive control. <i>Control Engineering Practice</i> , 2016 , 56, 1-12	3.9	3
108	Fast extremum seeking on Hammerstein plants: A model-based approach. <i>Automatica</i> , 2015 , 59, 171-181	5.7	9
107	Receding horizon time-optimal control for a class of differentially flat systems. <i>Systems and Control Letters</i> , 2015 , 83, 61-66	2.4	3
106	Robust periodic economic MPC for linear systems. <i>Automatica</i> , 2015 , 60, 30-37	5.7	26
105	Extremum seeking of dynamical systems via gradient descent and stochastic approximation methods. <i>Automatica</i> , 2015 , 56, 44-52	5.7	19
104	Dither Re-Use in Nash Equilibrium Seeking. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 1433-1438	5.9	14
103	Optimal move blocking strategies for model predictive control. <i>Automatica</i> , 2015 , 61, 27-34	5.7	28
102	Simplification techniques for PDE-based Li-Ion battery models 2015 ,		4
101	Model Reduction of Diesel Mean Value Engine Models 2015 ,		5
100	Model reduction and MIMO model predictive control of gas turbine systems. <i>Control Engineering Practice</i> , 2015 , 45, 194-206	3.9	29
99	. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2336-2343	4.8	5
98	PDE battery model simplification for SOC and SOH estimator design 2015 ,		11
97	State of Charge Management for Plug-In Hybrid Vehicles With Uncertain Trip Information. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	5
96	Active Brake Judder Compensation Using an Electro-Hydraulic Brake System. <i>SAE International Journal of Commercial Vehicles</i> , 2015 , 8, 20-26	1	4
95	Multi-agent source seeking via discrete-time extremum seeking control. <i>Automatica</i> , 2014 , 50, 2312-2320	5.7	28
94	Online optimization of spark advance in alternative fueled engines using extremum seeking control. <i>Control Engineering Practice</i> , 2014 , 29, 201-211	3.9	20
93	Multi-agent gradient climbing via extremum seeking control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 9973-9978		0

92	Extremum-Seeking for Adaptation of Urban Traffic Signal Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5067-5072		3
91	Nonlinear model predictive missile control with a stabilising terminal constraint. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 457-462		5
90	Control-Oriented Modeling of A Lithium-Ion Battery for Fast Charging. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 3912-3917		9
89	Adjoint assisted geometry design of a feedback controlled missile. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 451-456		
88	A Robust Model Predictive Control Framework for Diesel Generators. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 11848-11853		2
87	Robust stable economic MPC with applications in engine control 2014 ,		8
86	Fast extremum seeking for optimization of brake specific fuel consumption 2014 ,		4
85	Distributed Thermal-Electrochemical Modeling of a Lithium-Ion Battery to Study the Effect of High Charging Rates. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6258-6263		7
84	Optimal control of a parallel hybrid vehicle with a traffic preview. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2014 , 228, 719-733	1.4	4
83	ECMS Controller Robustness in Flex-Fuel Hybrid Vehicles. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136,	1.6	6
82	Discrete-time extremum-seeking for Wiener-Hammerstein plants. <i>Automatica</i> , 2014 , 50, 2998-3008	5.7	9
81	Extremum Seeking Methods for Online Automotive Calibration. <i>Lecture Notes in Control and Information Sciences</i> , 2014 , 23-39	0.5	4
80	Demonstration of Model-Based, Off-Line Performance Analysis on a Gas Turbine Air Compressor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013 , 135,	1.7	1
79	Multi-axis model predictive contouring control. <i>International Journal of Control</i> , 2013 , 86, 1410-1424	1.5	7
78	A non-gradient approach to global extremum seeking: An adaptation of the Shubert algorithm. <i>Automatica</i> , 2013 , 49, 809-815	5.7	33
77	Spark ignition engine control strategies for minimising cold start fuel consumption under cumulative tailpipe emissions constraints. <i>Control Engineering Practice</i> , 2013 , 21, 1007-1019	3.9	7
76	Suboptimal Cold Start Strategies for Spark Ignition Engines. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1295-1308	4.8	5
75	Unified frameworks for sampled-data extremum seeking control: Global optimisation and multi-unit systems. <i>Automatica</i> , 2013 , 49, 2720-2733	5.7	66

74	Extremum-seeking control of a supercritical carbon-dioxide closed Brayton cycle in a direct-heated solar thermal power plant. <i>Energy</i> , 2013 , 60, 380-387	7.9	45
73	. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 808-816	11.9	48
72	State of charge management for plug in hybrid electric vehicles with uncertain distance to recharge 2013 ,		6
71	A Framework for Extremum Seeking Control of Systems With Parameter Uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 435-448	5.9	53
70	Sampled Data Model Predictive Idle Speed Control of Ultra-Lean Burn Hydrogen Engines. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 538-545	4.8	5
69	Model Predictive Contouring Control for Biaxial Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 552-559	4.8	42
68	Multidimensional global extremum seeking via the DIRECT optimisation algorithm. <i>Automatica</i> , 2013 , 49, 1970-1978	5.7	35
67	Conventional, hybrid and electric vehicles for Australian driving conditions. Part 2: Life cycle CO ₂ -e emissions. <i>Transportation Research Part C: Emerging Technologies</i> , 2013 , 28, 63-73	8.4	53
66	2013 ,		1
65	Semi-global stability analysis of a discrete-time extremum-seeking scheme using LDI methods 2013 ,		2
64	Fast model-based extremum seeking on Hammerstein plants 2013 ,		10
63	Rapid parameter identification for an electromechanical brake 2013 ,		2
62	Is there a need for fully converged CFD solutions? Global extremum seeking applied to aerodynamic shape optimisation 2013 ,		2
61	Robustness of ECMS-based Optimal Control in Parallel Hybrid Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 127-132		4
60	A Technical and Financial Analysis of Potentially Near-Zero Greenhouse Gas Emission Passenger Vehicles. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2013 , 6, 61-77	0.3	5
59	Development and Validation of a Physics-Based, Dynamic Model of a Gas Turbine 2013 ,		1
58	Fast extremum-seeking for Wiener-Hammerstein plants. <i>Automatica</i> , 2012 , 48, 2433-2443	5.7	44
57	. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1685-1695	5.9	21

56	Optimal use of telemetry by parallel hybrid vehicles in urban driving. <i>Transportation Research Part C: Emerging Technologies</i> , 2012 , 25, 134-151	8.4	13
55	Conventional, hybrid and electric vehicles for Australian driving conditions [Part 1: Technical and financial analysis. <i>Transportation Research Part C: Emerging Technologies</i> , 2012 , 25, 238-249	8.4	51
54	A Physics-Based Integrated Model of a Spark Ignition Engine and a Three-Way Catalyst. <i>Combustion Science and Technology</i> , 2012 , 184, 1269-1301	1.5	5
53	Adaptive Brake Torque Variation Compensation for an Electromechanical Brake. <i>SAE International Journal of Passenger Cars - Electronic and Electrical Systems</i> , 2012 , 5, 600-606		2
52	An Economic and In-Service Emissions Analysis of Conventional, Hybrid and Electric Vehicles for Australian Driving Conditions. <i>SAE International Journal of Commercial Vehicles</i> , 2012 , 5, 291-298	1	3
51	High-Bandwidth Clamp Force Control for an Electromechanical Brake. <i>SAE International Journal of Passenger Cars - Electronic and Electrical Systems</i> , 2012 , 5, 590-599		6
50	A Methodology for Minimising Emissions Constrained Cold Start Fuel Consumption 2012 ,		3
49	Near-time-optimal tracking controller design for an automotive electromechanical brake. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2012 , 226, 537-549	1	8
48	Non-local stability of a Nash equilibrium seeking scheme with dither re-use 2012 ,		3
47	On a shubert algorithm-based global Extremum Seeking Scheme 2012 ,		1
46	A unifying framework for analysis and design of extremum seeking controllers 2012 ,		6
45	Thermodynamic Analysis of a Steam Injected and Recuperated Gas Turbine Air Compressor 2012 ,		1
44	Control-Oriented Modeling Requirements of a Direct-Drive Machine Tool Axis. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	4
43	Extremum Seeking Methods for Online Optimization of Spark Advance in Alternative Fueled Engines*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1-8		2
42	Model Reduction of Turbocharged (TC) Spark Ignition (SI) Engines. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 297-310	4.8	24
41	Optimal cold start calibration of spark ignition engines. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 13022-13027		4
40	Real time model predictive idle speed control of ultra-lean burn engines: experimental results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 13004-13009		
39	Two-Stage Optimal Control of a Parallel Hybrid Vehicle with Traffic Preview. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 2115-2120		10

38	Explicit Model Predictive Control for Reference Tracking on an Industrial Machine Tool. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 14513-14518		4
37	Application of Model Predictive Contouring Control to an X-Y Table. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10325-10330		4
36	Fast extremum-seeking on Hammerstein plants. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 108-113		10
35	Gain Selection in Observer-based Extremum Seeking Schemes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 114-119		
34	Cold start modelling of spark ignition engines. <i>Control Engineering Practice</i> , 2011 , 19, 912-925	3.9	16
33	A Cold-Start Emissions Model of an Engine and Aftertreatment System for Optimisation Studies 2010 ,		6
32	A systematic approach to extremum seeking based on parameter estimation 2010 ,		10
31	Model predictive contouring control 2010 ,		34
30	On the stability analysis and modelling of a multirate control direct-drive machine tool axis subject to large changes in load dynamics 2010 ,		3
29	A unifying approach to extremum seeking: Adaptive schemes based on estimation of derivatives 2010 ,		51
28	Idle speed control using linear time varying model predictive control and discrete time approximations 2010 ,		7
27	Relative Fuel Economy Potential of Intelligent, Hybrid and IntelligentHybrid Passenger Vehicles 2010 , 61-90		3
26	Newton-Like Extremum-Seeking for the Control of Thermoacoustic Instability. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2094-2105	5.9	100
25	Control Oriented Modeling of Turbocharged (TC) Spark Ignition (SI) Engine 2009 ,		4
24	Model reduction of automotive engines using perturbation theory 2009 ,		1
23	Newton-like extremum-seeking part II: Simulations and experiments 2009 ,		5
22	Extremum Seeking With Stochastic Perturbations. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 580-585	5.9	83
21	2009 ,		32

20	Newton-like extremum-seeking part I: Theory 2009 ,		19
19	A control-oriented model for cold start operation of spark ignition engines. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 216-223		1
18	The Effect of Grid Resolution and Oxygen Storage in a One-Dimensional Monolithic Three-Way Catalyst Model. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 191-198		3
17	Electromechanical Brake Modeling and Control: From PI to MPC. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 446-457	4.8	47
16	Fuel Economy Benefits of Look-ahead Capability in a Mild Hybrid Configuration. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 5646-5651		4
15	Fuel economy improvements for urban driving: Hybrid vs. intelligent vehicles. <i>Transportation Research Part C: Emerging Technologies</i> , 2007 , 15, 1-16	8.4	107
14	Discrete time extremum seeking using stochastic perturbations 2007 ,		2
13	Misfire-misfuel classification using support vector machines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2007 , 221, 1183-1195	1.4	8
12	The forced response of choked nozzles and supersonic diffusers. <i>Journal of Fluid Mechanics</i> , 2007 , 585, 281-304	3.7	75
11	A comparison of fuel consumption between hybrid and intelligent vehicles during urban driving. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2006 , 220, 67-76	1.4	9
10	Optimization of cold start automotive fuel economy using a spark timing strategy 2006 ,		4
9	Indicated Torque Reconstruction from Instantaneous Engine Speed in a Six-cylinder SI Engine Using Support Vector Machines 2005 ,		9
8	Modelling Combustion Variability in LPG Injected Engines for Improved Engine Performance at Idle 2004 ,		6
7	Control of an Electromechanical Brake for Automotive Brake-By-Wire Systems with an Adapted Motion Control Architecture 2004 ,		21
6	A novel approach to disturbance rejection in idle speed control towards reduced idle fuel consumption. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2003 , 217, 677-690	1.4	15
5	Modeling the Effects of Combustion Variability for Application to Idle Speed Control in SI Engines 2002 ,		1
4	Model Predictive Control of a Fuel Injection System with a Radial Basis Function Network Observer. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2002 , 124, 648-658	1.6	48
3	Effects of moving the center's in an RBF network. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 1299-307		53

2	Gaussian networks for fuel injection control. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2001 , 215, 1053-1068	1.4	30
1	On the potential for improving fuel economy using a traffic flow sensor network		2