Manuel Berenguel

List of Publications by Year
in descending order

293 papers	6,095 citations	66234 42 h-index	118652 62 g-index
301 all docs	301 docs citations	301 times ranked	3669 citing authors

#	Article	IF	Citations
1	A New IoT-Based Platform for Greenhouse Crop Production. IEEE Internet of Things Journal, 2022, 9, 6325-6334.	5.5	19
2	A computer-based tool to simulate raceway photobioreactors for design, operation and control purposes. Computers and Chemical Engineering, 2022, 156, 107572.	2.0	2
3	A nonlinear control approach for hybrid solar thermal plants based on operational conditions. Renewable Energy, 2022, 183, 114-129.	4.3	8
4	Improving the performance of solar membrane distillation processes for treating high salinity feeds: A process control approach for cleaner production. Journal of Cleaner Production, 2022, 338, 130446.	4.6	4
5	Integration of Photovoltaic Generation Within a Modeling Framework for Energy Hubs. Frontiers in Control Engineering, 2022, 3, .	0.4	0
6	A stabilizing predictive controller with implicit feedforward compensation for stable and time-delayed systems. Journal of Process Control, 2022, 115, 12-26.	1.7	6
7	A new model to analyze the temperature effect on the microalgae performance at large scale raceway reactors. Biotechnology and Bioengineering, 2021, 118, 877-889.	1.7	19
8	Optimal Water Management in Agro-Industrial Districts: An Energy Hub's Case Study in the Southeast of Spain. Processes, 2021, 9, 333.	1.3	6
9	Experimental evaluation of feedforward tuning rules. Control Engineering Practice, 2021, 114, 104877.	3.2	10
10	Indirect regulation of temperature in raceway reactors by optimal management of culture depth. Biotechnology and Bioengineering, 2021, 118, 1186-1198.	1.7	16
11	Dynamic Model for the pH in a Raceway Reactor Using Deep Learning Techniques. Lecture Notes in Electrical Engineering, 2021, , 190-199.	0.3	2
12	Multiobjective control architecture to estimate optimal set points for user comfort and energy saving in buildings. ISA Transactions, 2020, 99, 454-464.	3.1	11
13	Solar tower power mockup for the assessment of advanced control techniques. Renewable Energy, 2020, 149, 682-690.	4.3	5
14	Hierarchical control for the start-up procedure of solar thermal fields with direct storage. Control Engineering Practice, 2020, 95, 104254.	3.2	15
15	Adaptive UKF-based model predictive control of a Fresnel collector field. Journal of Process Control, 2020, 85, 76-90.	1.7	18
16	Development of an empirical tomato crop disease model: a case study on gray leaf spot. European Journal of Plant Pathology, 2020, 156, 477-490.	0.8	8
17	A Flexible Tool for Modeling and Optimal Dispatch of Resources in Agri-Energy Hubs. Sustainability, 2020, 12, 8820.	1.6	4
18	Diurnal and nocturnal pH control in microalgae raceway reactors by combining classical and event-based control approaches. Water Science and Technology, 2020, 82, 1155-1165.	1.2	11

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19	An IoT Architecture for Water Resource Management in Agroindustrial Environments: A Case Study in AlmerÃa (Spain). Sensors, 2020, 20, 596.	2.1	23
20	Optimal operation of solar thermal desalination systems coupled to double-effect absorption heat pumps. Energy Conversion and Management, 2020, 210, 112705.	4.4	4
21	Revisiting the simplified IMC tuning rules for lowâ€order controllers: Novel 2DoF feedback controller. IET Control Theory and Applications, 2020, 14, 1700-1710.	1.2	9
22	Revisiting the simplified internal model control tuning rules for lowâ€order controllers: feedforward controller. IET Control Theory and Applications, 2020, 14, 1612-1618.	1.2	5
23	Modelado y control automÃ¡tico en destilaciÃ³n por membranas solar: fundamentos y propuestas para su desarrollo tecnolÃ³gico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 329.	0.6	9
24	Modelado y control de la producciÃ³n de microalgas en fotobiorreactores industriales. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 18, 1.	0.6	16
25	A Simple and Effective Heuristic Control System for the Heliostat Field of Solar Power Tower Plants. Acta Polytechnica Hungarica, 2020, 17, 7-26.	2.5	6
26	Starting-up strategies for solar thermal fields attending to time and economic criteria: Application of hierarchical control. IFAC-PapersOnLine, 2020, 53, 12822-12828.	0.5	1
27	A virtual lab for modeling and control of a solar collector field. IFAC-PapersOnLine, 2020, 53, 17216-17221.	0.5	2
28	Leaf area index soft sensor for tomato crops in greenhouses. IFAC-PapersOnLine, 2020, 53, 15796-15803.	0.5	4
29	Design of a parallel genetic algorithm for continuous and pattern-free heliostat field optimization. Journal of Supercomputing, 2019, 75, 1268-1283.	2.4	9
30	An IoT based Control System for a Solar Membrane Distillation Plant used for Greenhouse Irrigation. , 2019, , .		6
31	Optimal thermal energy management of a distributed energy system comprising a solar membrane distillation plant and a greenhouse. Energy Conversion and Management, 2019, 198, 111791.	4.4	22
32	Machine learning for solar trackers. AIP Conference Proceedings, 2019, , .	0.3	7
33	Biomass estimation of an industrial raceway photobioreactor using an extended Kalman filter and a dynamic model for microalgae production. Algal Research, 2019, 37, 103-114.	2.4	15
34	Application of a Symmetric-Send-On-Delta event-based controller for a microalgal raceway reactor. , 2019, , .		1
35	Control System for pH in Raceway Photobioreactors Based on Wiener Models. IFAC-PapersOnLine, 2019, 52, 928-933.	0.5	18
36	Hybrid NMPC Applied to a Solar-powered Membrane Distillation System. IFAC-PapersOnLine, 2019, 52, 124-129.	0.5	6

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37	Daytime/Nighttime Event-Based PI Control for the pH of a Microalgae Raceway Reactor. Processes, 2019, 7, 247.	1.3	16
38	A lightweight heliostat field post-optimizer. AIP Conference Proceedings, 2019, , .	0.3	0
39	Control and optimal management of a heliostat field for solar power tower systems. , 2019, , .		2
40	New approach for solar tracking systems based on computer vision, low cost hardware and deep learning. Renewable Energy, 2019, 133, 1158-1166.	4.3	48
41	Incremental State-Space Model Predictive Control of a Fresnel Solar Collector Field. Energies, 2019, 12, 3.	1.6	17
42	Parabolic trough collector field dynamic model: Validation, energetic and exergetic analyses. Applied Thermal Engineering, 2019, 148, 777-786.	3.0	11
43	Apparent delay analysis for a flat-plate solar field model designed for control purposes. Solar Energy, 2019, 177, 241-254.	2.9	8
44	Gain-scheduling model predictive control of a Fresnel collector field. Control Engineering Practice, 2019, 82, 1-13.	3.2	30
45	An Indoor Illuminance Prediction Model Based on Neural Networks for Visual Comfort and Energy Efficiency Optimization Purposes. Lecture Notes in Computer Science, 2019, , 146-156.	1.0	4
46	A feedback control system with reference governor for a solar membrane distillation pilot facility. Renewable Energy, 2018, 120, 536-549.	4.3	34
47	Event-Based Generalized Predictive Control. , 2018, , 151-176.		1
48	Optimal operation of a Solar Membrane Distillation pilot plant via Nonlinear Model Predictive Control. Computers and Chemical Engineering, 2018, 109, 151-165.	2.0	45
49	Multivariable controller for stationary flat plate solar collectors. , 2018, , .		0
50	New Interactive Books for Control Education âŽ âŽThis work has been partially funded by the IEEE Control	0.5	5
51	A Multivariable Controller for the Start-up Procedure of a Solar Membrane Distillation Facility. IFAC-PapersOnLine, 2018, 51, 376-381.	0.5	5
52	Inverse pole placement method for PI control in the tracking problem âŽ âŽThis work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-56364-C2-1-R and DPI2017-84259-C2-1-R (financed by the Spanish Ministry of Economy, Industry and Competitiveness and EU-ERDF funds).. IFAC-PapersOnLine, 2018, 51, 406-411.	0.5	1
53	Use of the benchmark for PID control in engineering studies at the University of AlmerÃa âŽ âŽThis work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-56364-C2-1-R and DPI2017-84259-C2-1-R (financed by the Spanish Ministry of Economy Industry and Competitiveness and) Tj ETQq1 1 0.784314 rgBT	0.5	1
54	Nonlinear Control of a Fan-Coil Operation. , 2018, , .		0

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55	Control and Optimization of Distributed Solar Collector Fields. , 2018, , .		0
56	New low-cost solar tracking system based on open source hardware for educational purposes. Solar Energy, 2018, 174, 826-836.	2.9	31
57	A two-layered solution for automatic heliostat aiming. Engineering Applications of Artificial Intelligence, 2018, 72, 253-266.	4.3	14
58	Prediction models to analyse the performance of a commercial-scale membrane distillation unit for desalting brines from RO plants. Desalination, 2018, 445, 15-28.	4.0	55
59	Application of Predictive Feedforward Compensator to Microalgae Production in a Raceway Reactor: A Simulation Study. Energies, 2018, 11, 123.	1.6	8
60	On building-up a yearly characterization of a heliostat field: A new methodology and an application example. Solar Energy, 2018, 173, 578-589.	2.9	7
61	Heterogeneous resource management in energy hubs with self-consumption: Contributions and application example. Applied Energy, 2018, 229, 537-550.	5.1	22
62	Modeling and simulation of a solar field based on flat-plate collectors. Solar Energy, 2018, 170, 369-378.	2.9	10
63	Hector, a new methodology for continuous and pattern-free heliostat field optimization. Applied Energy, 2018, 225, 1123-1131.	5.1	16
64	Optimizing the Heliostat Field Layout by Applying Stochastic Population-Based Algorithms. Informatica, 2018, 29, 21-39.	1.5	7
65	High performance computing for the heliostat field layout evaluation. Journal of Supercomputing, 2017, 73, 259-276.	2.4	15
66	Review of software for optical analyzing and optimizing heliostat fields. Renewable and Sustainable Energy Reviews, 2017, 72, 1001-1018.	8.2	51
67	Leaf area index estimation for a greenhouse transpiration model using external climate conditions based on genetics algorithms, back-propagation neural networks and nonlinear autoregressive exogenous models. Agricultural Water Management, 2017, 183, 107-115.	2.4	35
68	Event-Based GPC for Multivariable Processes: A Practical Approach With Sensor Deadband. IEEE Transactions on Control Systems Technology, 2017, 25, 1621-1633.	3.2	7
69	Using a Nonlinear Model Predictive Control strategy for the efficient operation of a solar-powered membrane distillation system. , 2017, , .		1
70	Event-Based Control Systems for Microalgae Culture in Industrial Reactors. , 2017, , 1-48.		5
71	Dynamic Modeling of Microalgal Production in Photobioreactors. , 2017, , 49-87.		5
72	A parallel Teaching–Learning-Based Optimization procedure for automatic heliostat aiming. Journal of Supercomputing, 2017, 73, 591-606.	2.4	21

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73	Predictive feedforward compensator for dead-time processes * *This work has been partially funded by the following projects: DPI2014-55932-C2-1-R, DPI2014-55932-C2-2-R, DPI2014-56364-C2-1-R and and the UNED through a postdoctoral scholarship.. IFAC-PapersOnLine, 2017, 50, 1239-1244.	0.5	2
74	Fast MPC with staircase parametrization of the inputs: Continuous input blocking. , 2017, , .		10
75	A New Methodology for Building-Up a Robust Model for Heliostat Field Flux Characterization. Energies, 2017, 10, 730.	1.6	4
76	Measurable Disturbances Compensation: Analysis and Tuning of Feedforward Techniques for Dead-Time Processes. Processes, 2016, 4, 12.	1.3	6
77	A Comparison of Energy Consumption Prediction Models Based on Neural Networks of a Bioclimatic Building. Energies, 2016, 9, 57.	1.6	83
78	Predictive Control Applied to a Solar Desalination Plant Connected to a Greenhouse with Daily Variation of Irrigation Water Demand. Energies, 2016, 9, 194.	1.6	24
79	Tools and methodologies for teaching robotics in computer science & engineering studies. Computer Applications in Engineering Education, 2016, 24, 202-214.	2.2	22
80	Dynamic model of an industrial raceway reactor for microalgae production. Algal Research, 2016, 17, 67-78.	2.4	47
81	Event-based selective control strategy for raceway reactor: A simulation study**This work has been supported by Cajamar Foundation and partially funded by the following projects: DPI2014- 55932-C2-1-R,		

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91	On reduction of control effort in feedback linearization GPC strategy applied to a solar furnace. Optimal Control Applications and Methods, 2016, 37, 521-536.	1.3	8
92	Bayesian networks for greenhouse temperature control. Journal of Applied Logic, 2016, 17, 25-35.	1.1	35
93	Optimization of biomass production in outdoor tubular photobioreactors. Journal of Process Control, 2016, 37, 58-69.	1.7	32
94	On the filtered Smith predictor with feedforward compensation. Journal of Process Control, 2016, 41, 35-46.	1.7	29
95	An Interactivity-Based Methodology to Support Control Education: How to Teach and Learn Using Simple Interactive Tools [Lecture Notes]. IEEE Control Systems, 2016, 36, 63-76.	1.0	39
96	Distributed Sliding Mode Control of pH in Tubular Photobioreactors. IEEE Transactions on Control Systems Technology, 2016, 24, 1160-1173.	3.2	26
97	Robust design methodology for simultaneous feedforward and feedback tuning. IET Control Theory and Applications, 2016, 10, 84-94.	1.2	12
98	Hierarchical Non-linear Control of a Tubular Photobioreactor. IFAC-PapersOnLine, 2015, 48, 224-229.	0.5	2
99	Event-based GPC for multivariable processes. , 2015, , .		1
100	Teaching Control Engineering Concepts using Open Source tools on a Raspberry Pi board**This work has been partially funded by the following projects: DPI2014- 55932-C2-1-R and DPI2014-56364-C2-1-R (financed by the Spanish Ministry of Science and Innovation and EU- ERDF funds). IFAC-PapersOnLine, 2015, 48, 99-104.	0.5	14
101	Understanding closed-loop identification with ITCLI. IFAC-PapersOnLine, 2015, 48, 739-744.	0.5	4
102	Nonlinear controllers for solar thermal plants: A comparative study. Control Engineering Practice, 2015, 43, 12-20.	3.2	8
103	Selective pH and dissolved oxygen control strategy for a raceway reactor within an event-based approach. Control Engineering Practice, 2015, 44, 209-218.	3.2	42
104	A fuzzy controller for visual comfort inside a meeting-room. , 2015, , .		5
105	Solar membrane distillation: A control perspective. , 2015, , .		3
106	Modeling and Control of Greenhouse Crop Growth. Advances in Industrial Control, 2015, , .	0.4	41
107	Lagrange interpolation for signal reconstruction in event-based GPC. , 2014, , .		2
108	Robust constrained economic receding horizon control applied to the two time‐scale dynamics problem of a greenhouse. Optimal Control Applications and Methods, 2014, 35, 435-453.	1.3	23

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109	Event-based predictive control of pH in tubular photobioreactors. Computers and Chemical Engineering, 2014, 65, 28-39.	2.0	44
110	Generalized Predictive Control With Actuator Deadband for Event-Based Approaches. IEEE Transactions on Industrial Informatics, 2014, 10, 523-537.	7.2	39
111	Optimal feedforward compensators for systems with right-half plane zeros. Journal of Process Control, 2014, 24, 368-374.	1.7	12
112	Sliding Mode Control of Distributed Parameter Processes: Application to a Solar Power Plant. Journal of Control, Automation and Electrical Systems, 2014, 25, 291-302.	1.2	6
113	Control of thermal solar energy plants. Journal of Process Control, 2014, 24, 332-340.	1.7	42
114	Filtered Smith Predictor with nonlinear model applied to a solar field. , 2014, , .		2
115	Advanced Control Strategy Combined with Solar Cooling for Improving Ethanol Production in Fermentation Units. Industrial & Engineering Chemistry Research, 2014, 53, 11384-11392.	1.8	7
116	Effective utilization of flue gases in raceway reactor with event-based pH control for microalgae culture. Bioresource Technology, 2014, 170, 1-9.	4.8	64
117	First Principles Model of a Tubular Photobioreactor for Microalgal Production. Industrial & Engineering Chemistry Research, 2014, 53, 11121-11136.	1.8	34
118	A lumped parameter chemical–physical model for tubular photobioreactors. Chemical Engineering Science, 2014, 112, 116-129.	1.9	19
119	Thermo-economic design optimization of parabolic trough solar plants for industrial process heat applications with memetic algorithms. Applied Energy, 2014, 113, 603-614.	5.1	69
120	Uncertainty and global sensitivity analysis in the design of parabolic-trough direct steam generation plants for process heat applications. Applied Energy, 2014, 121, 233-244.	5.1	36
121	Symmetric send-on-delta PI control of a greenhouse system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4411-4416.	0.4	8
122	ITCLI : An Interactive Tool for Closed-Loop Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12249-12254.	0.4	6
123	Optimal feedforward compensators for integrating plants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 170-175.	0.4	3
124	Event-based predictive control triggered by input and output deadband conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8116-8121.	0.4	0
125	Boundary Control of an Industrial Tubular Photobioreactor Using Sliding Mode Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4903-4908.	0.4	4
126	Understanding PID design through interactive tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12243-12248.	0.4	17

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127	Comfort in Buildings. Advances in Industrial Control, 2014, , 39-78.	0.4	2
128	Comfort Control Techniques for the Users of a Room. Advances in Industrial Control, 2014, , 143-218.	0.4	1
129	Subsystems and Disturbance Models. Advances in Industrial Control, 2014, , 79-142.	0.4	0
130	Interactivity in education: An experience in the automatic control field. Computer Applications in Engineering Education, 2013, 21, 360-371.	2.2	47
131	A practical NMPC with robustness of stability applied to distributed solar power plants. Solar Energy, 2013, 92, 106-122.	2.9	43
132	Perspectives on control-relevant identification through the use of interactive tools. Control Engineering Practice, 2013, 21, 171-183.	3.2	15
133	A combined FSP and reset control approach to improve the set-point tracking task of dead-time processes. Control Engineering Practice, 2013, 21, 351-359.	3.2	10
134	Implementation of feedback linearization GPC control for a solar furnace. Journal of Process Control, 2013, 23, 1545-1554.	1.7	22
135	Generalized feedforward tuning rules for non-realizable delay inversion. Journal of Process Control, 2013, 23, 1241-1250.	1.7	28
136	Hybrid modeling of a solar-thermal heating facility. Solar Energy, 2013, 97, 577-590.	2.9	26
137	Constrained control strategies for disturbance rejection in a solar furnaces. Control Engineering Practice, 2013, 21, 1410-1421.	3.2	10
138	Optimizing building comfort temperature regulation via model predictive control. Energy and Buildings, 2013, 57, 361-372.	3.1	101
139	Viability and application of ethanol production coupled with solar cooling. Applied Energy, 2013, 102, 501-509.	5.1	12
140	A feedback linearization-based two-degree-of-freedom constrained controller strategy for a solar furnace. , 2013, , .		2
141	A multivariable nonlinear MPC control strategy for thermal comfort and indoor-air quality. , 2013, , .		12
142	Development of interactive books for Control Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 150-155.	0.4	7
143	An educational software to develop robot mapping and localization practices using visual information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 174-179.	0.4	0
144	Teaching Cascaded Controllers with a Fuel Cell Plant in a Hands-on Laboratory. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 203-207.	0.4	4

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145	Solar Energy Fundamentals. Advances in Industrial Control, 2012, , 1-23.	0.4	19
146	Integrated Control of Solar Systems. Advances in Industrial Control, 2012, , 369-385.	0.4	0
147	Other Solar Applications. Advances in Industrial Control, 2012, , 315-368.	0.4	0
148	Integrated virtual and remote lab for greenhouse climate control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 264-269.	0.4	0
149	Interactive Tools to Learn Basic Concepts of Nonlinear Systems Linearization Through a Case Study*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 66-71.	0.4	7
150	A New Framework to develop Web-based Interactive Tools for Control Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 183-188.	0.4	7
151	i-pIDtune: An interactive tool for integrated system identification and PID control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 146-151.	0.4	9
152	Design of PID Controller with Filter for Distributed Parameter Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 495-500.	0.4	5
153	ITCRI: An Interactive Software Tool for Evaluating Control-Relevant Identification*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1529-1534.	0.4	1
154	Control of Solar Energy Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 848-855.	0.4	65
155	Improvements on the Filtered Smith Predictor using the Clegg Integrator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 110-115.	0.4	3
156	Photovoltaics. Advances in Industrial Control, 2012, , 49-66.	0.4	0
157	A feedback linearization GPC control strategy for a solar furnace. , 2012, , .		3
158	Constrained Temperature Control of a Solar Furnace. IEEE Transactions on Control Systems Technology, 2012, 20, 1263-1274.	3.2	18
159	Advanced Control of Parabolic Troughs. Advances in Industrial Control, 2012, , 129-238.	0.4	2
160	Basic Control of Parabolic Troughs. Advances in Industrial Control, 2012, , 67-127.	0.4	2
161	Dynamic model of microalgal production in tubular photobioreactors. Bioresource Technology, 2012, 126, 172-181.	4.8	66
162	Control Issues in Solar Systems. Advances in Industrial Control, 2012, , 25-47.	0.4	8

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163	Control of Solar Energy Systems. Advances in Industrial Control, 2012, , .	0.4	91
164	An interactive software tool for system identification. Advances in Engineering Software, 2012, 45, 115-123.	1.8	36
165	A practical approach for Generalized Predictive Control within an event-based framework. Computers and Chemical Engineering, 2012, 41, 52-66.	2.0	22
166	Multiobjective hierarchical control architecture for greenhouse crop growth. Automatica, 2012, 48, 490-498.	3.0	87
167	Improving feedforward disturbance compensation capabilities in Generalized Predictive Control. Journal of Process Control, 2012, 22, 527-539.	1.7	46
168	Learning Switching Control: A Tank Level-Control Exercise. IEEE Transactions on Education, 2012, 55, 226-232.	2.0	16
169	Control of Central Receiver Systems. Advances in Industrial Control, 2012, , 239-313.	0.4	1
170	Study of fundamental control concepts through interactive learning objects. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7286-7291.	0.4	6
171	Predictive Control with Disturbance Forecasting for Greenhouse Diurnal Temperature Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1779-1784.	0.4	21
172	Control Strategies for Disturbance Rejection in a Solar Furnace. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12243-12248.	0.4	5
173	Practical MPC with robust dead-time compensation applied to a solar desalination plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4909-4914.	0.4	10
174	Feedforward control concepts through Interactive Tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6361-6366.	0.4	6
175	ITCRI: An Interactive Software Tool for Control-Relevant Identification Education*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6367-6372.	0.4	3
176	A comparison of thermal comfort predictive control strategies. Energy and Buildings, 2011, 43, 2737-2746.	3.1	120
177	Nonlinear MPC based on a Volterra series model for greenhouse temperature control using natural ventilation. Control Engineering Practice, 2011, 19, 354-366.	3.2	81
178	A switching control strategy applied to a solar collector field. Control Engineering Practice, 2011, 19, 135-145.	3.2	36
179	The input amplitude saturation problem in QFT: A survey. Annual Reviews in Control, 2011, 35, 34-55.	4.4	15
180	Local model predictive controller in a solar desalination plant collector field. Renewable Energy, 2011, 36, 3001-3012.	4.3	37

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181	Filtered Smith predictor with feedback linearization and constraints handling applied to a solar collector field. Solar Energy, 2011, 85, 1056-1067.	2.9	18
182	Interactive Tool to Teach Solar Parabolic Trough Concepts. , 2011, , .		3
183	Control Predictivo por Desacoplo con Compensación de Perturbaciones para el Benchmark de Control 2009-2010. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2011, 8, 112-121.	0.6	6
184	Thermal Comfort Predictive Control Strategies for a Solar Energy Research Center. , 2011, , .		0
185	Robust control of solar plants with distributed collectors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 823-828.	0.4	9
186	Teaching System Identification Through Interactivity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 43-48.	0.4	0
187	Diurnal greenhouse temperature control with predictive control and online constrains mapping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 140-145.	0.4	4
188	Control of Solar Power Systems: a survey. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 817-822.	0.4	6
189	Modelling and Control Issues of pH in Tubular Photobioreactors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 186-191.	0.4	20
190	An open-source graphical library for the development of Interactive Tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 42, 37-42.	0.4	1
191	The Design of QFT Robust Compensators with Magnitude and Phase Specifications. Mathematical Problems in Engineering, 2010, 2010, 1-20.	0.6	5
192	Application of time-series methods to disturbance estimation in predictive control problems. , 2010, , .		19
193	A Wireless Sensor Network for greenhouse climate monitoring. , 2010, , .		10
194	Bumpless switching in control - A comparative study. , 2010, , .		14
195	A repetitive control scheme for distributed solar collector field. International Journal of Control, 2010, 83, 970-982.	1.2	9
196	A QFT Framework for Antiwindup Control Systems Design. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	13
197	Técnicas de Control del Confort en Edificios. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 5-24.	0.6	18
198	Object-oriented modelling and simulation of ACUREX solar thermal power plant. Mathematical and Computer Modelling of Dynamical Systems, 2010, 16, 211-224.	1.4	8

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199	Entornos de experimentación para la Enseñanza de Conceptos Básicos de Modelado y Control. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2010, 7, 10-22.	0.6	7
200	Nonlinear model predictive control of greenhouse temperature using a Volterra model. , 2009, , .		1
201	Interactive Learning Module for control interaction understanding. , 2009, , .		4
202	Virtual lab for programmable logic controllers. , 2009, , .		1
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