

Romeo Ortega

List of Publications by Year in descending order

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464
papers

23,682
citations

10986

71
h-index

11052

137
g-index

477
all docs

477
docs citations

477
times ranked

6955
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameter estimation and adaptive control of Euler-Lagrange systems using the power balance equation parameterisation. International Journal of Control, 2023, 96, 475-487.	1.9	7
2	Conditions for Convergence of Dynamic Regressor Extension and Mixing Parameter Estimators Using LTI Filters. IEEE Transactions on Automatic Control, 2023, 68, 1253-1258.	5.7	9
3	State Observation of Power Systems Equipped With Phasor Measurement Units: The Case of Fourth-Order Flux-Decay Model. IEEE Transactions on Automatic Control, 2022, 67, 2123-2130.	5.7	0
4	Diffusion-Based Distributed Parameter Estimation Through Directed Graphs With Switching Topology: Application of Dynamic Regressor Extension and Mixing. IEEE Transactions on Automatic Control, 2022, 67, 4256-4263.	5.7	3
5	Adaptive state estimation of state-affine systems with unknown time-varying parameters. International Journal of Control, 2022, 95, 2460-2472.	1.9	9
6	An algebraic, distributed state observer for continuous and discrete-time linear time-invariant systems with time-varying communication graphs. International Journal of Adaptive Control and Signal Processing, 2022, 36, 1340-1352.	4.1	1
7	Nonlinear Stability Analysis of the Classical Nested PI Control of Voltage Sourced Inverters. , 2022, 6, 1442-1447.		3
8	Parameter Identification With Finite-Convergence Time Alertness Preservation. , 2022, 6, 205-210.		10
9	A new on-line exponential parameter estimator without persistent excitation. Systems and Control Letters, 2022, 159, 105079.	2.3	9
10	PID passivity-based droop control of power converters: Large-signal stability, robustness and performance. International Journal of Robust and Nonlinear Control, 2022, 32, 1769-1795.	3.7	14
11	A State Observer for Sensorless Control of Power Converters With Unknown Load Conductance. IEEE Transactions on Power Electronics, 2022, 37, 9187-9199.	7.9	9
12	Indirect adaptive control of nonlinearly parameterized nonlinear dissipative systems. International Journal of Robust and Nonlinear Control, 2022, 32, 5105-5119.	3.7	3
13	On-line estimation of the parameters of the windmill power coefficient. Systems and Control Letters, 2022, 164, 105242.	2.3	5
14	Adaptive State Observer for Linear Time-Varying System with Partially Unknown State Matrix and Input Matrix Parameters. Mekhatronika, Avtomatizatsiya, Upravlenie, 2022, 23, 283-288.	0.4	1
15	Adaptive sensorless control for buck converter with constant power load. Control Engineering Practice, 2022, 126, 105237.	5.5	10
16	A PI+passivity-based control of a wind energy conversion system enabled with a solid-state transformer. International Journal of Control, 2021, 94, 2453-2463.	1.9	7
17	New Results on Stabilization of Port-Hamiltonian Systems via PID Passivity-Based Control. IEEE Transactions on Automatic Control, 2021, 66, 625-636.	5.7	29
18	Consensus in networks of uncertain euler-lagrange agents using adaptive gravity compensation. European Journal of Control, 2021, 57, 194-204.	2.6	3

#	ARTICLE	IF	CITATIONS
19	Voltage Regulation in Buck-Boost Converters Feeding an Unknown Constant Power Load: An Adaptive Passivity-Based Control. IEEE Transactions on Control Systems Technology, 2021, 29, 395-402.	5.2	41
20	New Results on Parameter Estimation via Dynamic Regressor Extension and Mixing: Continuous and Discrete-Time Cases. IEEE Transactions on Automatic Control, 2021, 66, 2265-2272.	5.7	62
21	Passivity-Based Control. , 2021, , 1684-1691.		0
22	A globally exponentially stable position observer for interior permanent magnet synchronous motors. Automatica, 2021, 125, 109424.	5.0	13
23	A flux and speed observer for induction motors with unknown rotor resistance and load torque and no persistent excitation requirement. International Journal of Adaptive Control and Signal Processing, 2021, 35, 1578-1593.	4.1	0
24	Parameter estimation of nonlinearly parameterized regressions without overparameterization: Application to adaptive control. Automatica, 2021, 127, 109544.	5.0	21
25	Full State Observer with Finite Time Convergence for Permanent Magnets Synchronous Motors. , 2021, , .		1
26	State Observer with Relaxed Excitation Conditions with Application to MagLev System. , 2021, , .		0
27	Generalized parameter estimation-based observers: Application to power systems and chemical-biological reactors. Automatica, 2021, 129, 109635.	5.0	47
28	A globally stable practically implementable PI passivity-based controller for switched power converters. International Journal of Adaptive Control and Signal Processing, 2021, 35, 2155-2174.	4.1	6
29	State observation of LTV systems with delayed measurements: A parameter estimation-based approach with fixed convergence time. Automatica, 2021, 131, 109674.	5.0	9
30	A behavioural dynamic model for constant power loads in single-phase AC systems. Automatica, 2021, 131, 109744.	5.0	6
31	Estimation of State Variables in the Ąuk Converter Mathematical Model with Partially Unknown Parameters. Mekhatronika, Avtomatizatsiya, Upravlenie, 2021, 22, 451-458.	0.4	1
32	Distributed Observers for LTI Systems With Finite Convergence Time: A Parameter-Estimation-Based Approach. IEEE Transactions on Automatic Control, 2021, 66, 4967-4974.	5.7	11
33	An Adaptive Observer-Based Controller Design for Active Damping of a DC Network With a Constant Power Load. IEEE Transactions on Control Systems Technology, 2021, 29, 2312-2324.	5.2	6
34	Robust nonlinear observer design for permanent magnet synchronous motors. IET Control Theory and Applications, 2021, 15, 604-616.	2.1	4
35	State Observation of Affine-in-the-States Time-Varying Systems with Unknown Parameters and Delayed Measurements. IFAC-PapersOnLine, 2021, 54, 108-113.	0.9	2
36	Parameter Estimation and Adaptive Control of Euler-Lagrange Systems Using the Power Balance Equation Parameterization. IFAC-PapersOnLine, 2021, 54, 119-124.	0.9	1

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37	A Globally Convergent Adaptive Indirect Field-Oriented Torque Controller for Induction Motors. Asian Journal of Control, 2020, 22, 11-24.	3.0	2
38	A robust adaptive flux observer for a class of electromechanical systems. International Journal of Control, 2020, 93, 1619-1629.	1.9	6
39	Finite-time identification of the Thevenin equivalent parameters in power grids. International Journal of Electrical Power and Energy Systems, 2020, 116, 105534.	5.5	11
40	Orbital stabilization of nonlinear systems via Mexican sombrero energy shaping and pumping-and-damping injection. Automatica, 2020, 112, 108661.	5.0	33
41	Matched Disturbance Rejection for a Class of Nonlinear Systems. IEEE Transactions on Automatic Control, 2020, 65, 1710-1715.	5.7	15
42	Correction to the Paper "A Robust IDA-PBC Approach for Handling Uncertainties in Underactuated Mechanical Systems" [Oct 18 3495-3502]. IEEE Transactions on Automatic Control, 2020, 65, 3223-3226.	5.7	3
43	A Tool for Analysis of Existence of Equilibria and Voltage Stability in Power Systems With Constant Power Loads. IEEE Transactions on Automatic Control, 2020, 65, 4726-4740.	5.7	20
44	Orbital stabilization of nonlinear systems via the immersion and invariance technique. International Journal of Robust and Nonlinear Control, 2020, 30, 1850-1871.	3.7	17
45	On generation of virtual outputs via signal injection: Application to observer design for electromechanical systems. European Journal of Control, 2020, 54, 129-139.	2.6	5
46	Design and Implementation of Adaptive Energy Shaping Control for DC-DC Converters With Constant Power Loads. IEEE Transactions on Industrial Informatics, 2020, 16, 5053-5064.	11.3	39
47	Path following of a class of underactuated mechanical systems via immersion and invariance-based orbital stabilization. International Journal of Robust and Nonlinear Control, 2020, 30, 8521-8544.	3.7	13
48	On modified parameter estimators for identification and adaptive control. A unified framework and some new schemes. Annual Reviews in Control, 2020, 50, 278-293.	7.9	71
49	Robustification of nonlinear control systems vis-à-vis actuator dynamics: An immersion and invariance approach. Systems and Control Letters, 2020, 146, 104811.	2.3	4
50	Smooth, time-invariant regulation of nonholonomic systems via energy pumping and damping. International Journal of Robust and Nonlinear Control, 2020, 30, 6399-6413.	3.7	9
51	A new signal injection-based method for estimation of position in interior permanent magnet synchronous motors. IET Power Electronics, 2020, 13, 1865-1874.	2.1	7
52	On universal stabilization property of Interconnection and Damping Assignment Control. Automatica, 2020, 119, 109087.	5.0	5
53	On Matched Disturbance Suppression for Port-Hamiltonian Systems. , 2020, 4, 892-897.		5
54	Passivity-Based Control. , 2020, , 1-7.		0

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55	PMU-based decentralised mixed algebraic and dynamic state observation in multi-machine power systems. IET Generation, Transmission and Distribution, 2020, 14, 6267-6275.	2.5	5
56	P+leaky I passivity-based control of power converters. , 2020, , .		3
57	Sensorless Control of Permanent Magnet Synchronous Motors based on Finite-Time Robust Flux Observer. IFAC-PapersOnLine, 2020, 53, 9270-9275.	0.9	4
58	Parameter Estimation of Nonlinearly Parameterized Regressions: Application to System Identification and Adaptive Control. IFAC-PapersOnLine, 2020, 53, 1206-1212.	0.9	5
59	A Globally Convergent State Observer for Multimachine Power Systems with Lossy Lines. IFAC-PapersOnLine, 2020, 53, 5028-5033.	0.9	1
60	On State Observers for Nonlinear Systems: A New Design and a Unifying Framework. IEEE Transactions on Automatic Control, 2019, 64, 1193-1200.	5.7	22
61	A globally convergent direct adaptive pole-placement controller for nonminimum phase systems with relaxed excitation assumptions. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1491-1505.	4.1	5
62	State observers for reaction systems with improved convergence rates. Journal of Process Control, 2019, 83, 53-62.	3.3	12
63	Power-controlled Hamiltonian systems: Application to electrical systems with constant power loads. Automatica, 2019, 109, 108527.	5.0	13
64	On contraction of time-varying port-Hamiltonian systems. Systems and Control Letters, 2019, 133, 104545.	2.3	4
65	Active Damping of a DC Network with a Constant Power Load: An Adaptive Observer-based Design. , 2019, , .		3
66	Global synchronization analysis of droop-controlled microgrids – A multivariable cell structure approach. Automatica, 2019, 109, 108550.	5.0	18
67	Adaptive state observers using dynamic regressor extension and mixing. Systems and Control Letters, 2019, 133, 104519.	2.3	22
68	Adaptive control of linear multivariable systems using dynamic regressor extension and mixing estimators: Removing the high-frequency gain assumptions. Automatica, 2019, 110, 108589.	5.0	29
69	Conditions on shifted passivity of port-Hamiltonian systems. Systems and Control Letters, 2019, 123, 55-61.	2.3	23
70	Parameter identification of linear time-invariant systems using dynamic regressor extension and mixing. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1016-1030.	4.1	24
71	Online Estimation of Power System Inertia Using Dynamic Regressor Extension and Mixing. IEEE Transactions on Power Systems, 2019, 34, 4993-5001.	6.5	88
72	Robustness of linear time-varying systems with relaxed excitation. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1885-1900.	4.1	11

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73	Two Constructive Solutions to Orbital Stabilization of Nonlinear Systems via Passivity-based Control. , 2019, , .		1
74	DREM-based Adaptive Observer for Induction Motors. , 2019, , .		3
75	An adaptive passivity-based controller for a wind energy conversion systemâ††. , 2019, , .		0
76	Sensorless Control of the Levitated Ball. IFAC-PapersOnLine, 2019, 52, 274-279.	0.9	4
77	An Adaptive Flux and Position Observer for Interior Permanent Magnet Synchronous Motors. IFAC-PapersOnLine, 2019, 52, 43-48.	0.9	3
78	Regulation of nonholonomic systems: A smooth, time-invariant approach. IFAC-PapersOnLine, 2019, 52, 150-155.	0.9	0
79	A Frequency Domain Interpretation of Signal Injection Methods for Salient PMSMs. , 2019, , .		2
80	New solutions to the 2D adaptive visual servoing problem with relaxed excitation requirements. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1843-1856.	4.1	6
81	PI Passivity-Based Control and Performance Analysis of MMC Multiterminal HVDC Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2453-2466.	5.4	27
82	Sensorless Control of IPMSM Based on Regression Model. IEEE Transactions on Power Electronics, 2019, 34, 9191-9201.	7.9	38
83	Adaptive state observers for sensorless control of switched reluctance motors. International Journal of Robust and Nonlinear Control, 2019, 29, 990-1006.	3.7	7
84	A globally exponentially stable speed observer for a class of mechanical systems: experimental and simulation comparison with high-gain and sliding mode designs. International Journal of Control, 2019, 92, 1620-1633.	1.9	15
85	An Adaptive Passivity-Based Controller of a Buck-Boost Converter with a Constant Power Load. Asian Journal of Control, 2019, 21, 581-595.	3.0	31
86	Robustness of Delayed Multistable Systems. Advances in Delays and Dynamics, 2019, , 83-97.	0.4	0
87	Global Consensus of Time-Varying Multiagent Systems Without Persistent Excitation Assumptions. IEEE Transactions on Automatic Control, 2018, 63, 3935-3939.	5.7	11
88	Energy shaping control for buck-boost converters with unknown constant power load. Control Engineering Practice, 2018, 74, 33-43.	5.5	32
89	Achieving Consensus of Euler-Lagrange Agents With Interconnecting Delays and Without Velocity Measurements via Passivity-Based Control. IEEE Transactions on Control Systems Technology, 2018, 26, 222-232.	5.2	65
90	A Tool for Stability and Power-Sharing Analysis of a Generalized Class of Droop Controllers for High-Voltage Direct-Current Transmission Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 1110-1119.	3.7	10

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91	PID Passivity-Based Control of Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2018, 63, 1032-1044.	5.7	87
92	Relaxing the conditions for parameter estimation-based observers of nonlinear systems via signal injection. Systems and Control Letters, 2018, 111, 18-26.	2.3	16
93	On the need of projections in input-error model reference adaptive control. International Journal of Adaptive Control and Signal Processing, 2018, 32, 403-411.	4.1	2
94	An Adaptive Observer for Sensorless Control of the Levitated Ball Using Signal Injection. , 2018, , .		3
95	Robust Stability Under Relaxed Persistent Excitation Conditions. , 2018, , .		9
96	Almost Global Synchronization in Radial Multi-Machine Power Systems. , 2018, , .		6
97	Parameter Identification of Linear Discrete-Time Systems with Guaranteed Transient Performance. IFAC-PapersOnLine, 2018, 51, 1038-1043.	0.9	4
98	New results on PID passivity-based controllers for port-Hamiltonian systems. IFAC-PapersOnLine, 2018, 51, 175-180.	0.9	4
99	Robust integral action of port-Hamiltonian systems. IFAC-PapersOnLine, 2018, 51, 181-186.	0.9	8
100	Adaptive Control of Multivariable Systems with Reduced Knowledge of High Frequency Gain: Application of Dynamic Regressor Extension and Mixing Estimators. IFAC-PapersOnLine, 2018, 51, 886-890.	0.9	18
101	Dynamic Zero Finding for Algebraic Equations. , 2018, , .		5
102	Enhanced Parameter Convergence for Linear Systems Identification: The DREM Approach. , 2018, , .		12
103	Permanent magnet synchronous motors are globally asymptotically stabilizable with PI current control. Automatica, 2018, 98, 296-301.	5.0	29
104	A state observer for sensorless control of magnetic levitation systems. Automatica, 2018, 97, 263-270.	5.0	31
105	Sensorless control of PM synchronous motors with a robust nonlinear observer. , 2018, , .		9
106	Relaxing the high-frequency gain sign assumption in direct model reference adaptive control. European Journal of Control, 2018, 43, 12-19.	2.6	31
107	On dynamic regressor extension and mixing parameter estimators: Two Luenberger observers interpretations. Automatica, 2018, 95, 548-551.	5.0	40
108	Global stabilisation of underactuated mechanical systems via PID passivity-based control. Automatica, 2018, 96, 178-185.	5.0	44

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109	DC-DC Buck-Boost Converters with Unknown CPL: An Adaptive PBC. , 2018, , .		3
110	Robust Adaptive Sensorless Control for Permanent-Magnet Synchronous Motors. IEEE Transactions on Power Electronics, 2017, 32, 3989-3997.	7.9	68
111	A new family of interconnection and damping assignment passivity-based controllers. International Journal of Robust and Nonlinear Control, 2017, 27, 50-65.	3.7	19
112	Conditions for Almost Global Attractivity of a Synchronous Generator Connected to an Infinite Bus. IEEE Transactions on Automatic Control, 2017, 62, 4905-4916.	5.7	26
113	Identification of photovoltaic arrays' maximum power extraction point via dynamic regressor extension and mixing. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1337-1349.	4.1	17
114	On Existence of Equilibria of Multi-Port Linear AC Networks With Constant-Power Loads. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2772-2782.	5.4	16
115	A relaxed characterization of ISS for periodic systems with multiple invariant sets. European Journal of Control, 2017, 37, 1-7.	2.6	14
116	Passivity-Based Control of Mechanical Systems. Lecture Notes in Control and Information Sciences, 2017, , 167-199.	1.0	12
117	Modeling, Analysis, and Experimental Validation of Clock Drift Effects in Low-Inertia Power Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 5942-5951.	7.9	28
118	Relaxing the conditions of ISS for multistable periodic systems. IFAC-PapersOnLine, 2017, 50, 7217-7222.	0.9	2
119	A New Approach for Flux and Rotor Resistance Estimation of Induction Motors * *This article is supported by the Russian Federation President Grant 14.Y31.16.9281-HLLI, the Government of the Russian Federation (GOSZADANIE 2.8878.2017, grant 074-U01) and the Ministry of Education and Science of the Russian Federation (project 14.Z50.31.0031).. IFAC-PapersOnLine. 2017, 50, 1885-1890.	0.9	9
120	An input-to-state stability approach to verify almost global stability of a synchronous-machine-infinite-bus system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160304.	3.4	9
121	On global asymptotic stability of $\dot{x} = -x^2$. Systems and Control Letters, 2017, 109, 24-29.	2.3	39
122	PI passivity-based control of modular multilevel converters for multi-terminal HVDC systems. , 2017, , .		10
123	Performance Enhancement of Parameter Estimators via Dynamic Regressor Extension and Mixing. IEEE Transactions on Automatic Control, 2017, 62, 3546-3550.	5.7	228
124	Robust IDA-PBC for underactuated mechanical systems subject to matched disturbances. International Journal of Robust and Nonlinear Control, 2017, 27, 1000-1016.	3.7	59
125	A robust nonlinear position observer for synchronous motors with relaxed excitation conditions. International Journal of Control, 2017, 90, 813-824.	1.9	28
126	Immersion and Invariance Stabilization of Nonlinear Systems Via Virtual and Horizontal Contraction. IEEE Transactions on Automatic Control, 2017, 62, 4017-4022.	5.7	24

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127	Global Stabilisation of Underactuated Mechanical Systems via PID Passivity-Based Control. IFAC-PapersOnLine, 2017, 50, 9577-9582.	0.9	20
128	A Passivity-based Controller without Velocity Measurements for the Leaderless Consensus of Euler-Lagrange Systems. IFAC-PapersOnLine, 2017, 50, 15452-15457.	0.9	1
129	On global asymptotic stability of SPR adaptive systems without persistent excitation. , 2017, , .		3
130	Matched disturbance rejection for energy-shaping controlled underactuated mechanical systems. , 2017, , .		6
131	Position observer for salient PMSM with measured speed. , 2017, , .		0
132	A new approach for estimation of electrical parameters and flux observation of permanent magnet synchronous motors. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1434-1448.	4.1	15
133	Simultaneous interconnection and damping assignment passivity-based control of mechanical systems using dissipative forces. , 2016, , .		0
134	Passivity-based and standard PI controls application to wind energy conversion system. , 2016, , .		9
135	On existence and stability of equilibria of DC LTI circuits with constant power loads. , 2016, , .		0
136	Robust IDA-PBC for underactuated mechanical systems subject to matched disturbances. , 2016, , .		2
137	Towards a constructive interconnection and damping assignment stabilization methodology. , 2016, , .		0
138	Almost global attractivity of a synchronous generator connected to an infinite bus. , 2016, , .		11
139	A tool for power flow analysis of a generalized class of droop controllers for high-voltage direct-current transmission systems. , 2016, , .		2
140	Improved Transients in Multiple Frequencies Estimation via Dynamic Regressor Extension and Mixing. IFAC-PapersOnLine, 2016, 49, 99-104.	0.9	27
141	Parameters estimation via dynamic regressor extension and mixing. , 2016, , .		28
142	A survey on modeling of microgridsâ€”From fundamental physics to phasors and voltage sources. Automatica, 2016, 74, 135-150.	5.0	196
143	Stability of a class of delayed port-Hamiltonian systems with application to microgrids with distributed rotational and electronic generation. Automatica, 2016, 74, 71-79.	5.0	46
144	From adaptive control to variable structure systems â€” seeking harmony. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1074-1079.	4.1	7

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145	Comments on "comparison of architectures and robustness of model reference adaptive controllers and L1-adaptive controllers". International Journal of Adaptive Control and Signal Processing, 2016, 30, 125-127.	4.1	0
146	Energy shaping control of an inverted flexible pendulum fixed to a cart. Control Engineering Practice, 2016, 56, 27-36.	5.5	27
147	Identification of the Current-Voltage Characteristic of Photovoltaic Arrays. IFAC-PapersOnLine, 2016, 49, 223-228.	0.9	3
148	A constructive procedure for energy shaping of port-Hamiltonian systems. Automatica, 2016, 72, 230-234.	5.0	23
149	Simultaneous interconnection and damping assignment passivity-based control of mechanical systems using dissipative forces. Systems and Control Letters, 2016, 94, 118-126.	2.3	31
150	PI Passivity-Based Control for Maximum Power Extraction of a Wind Energy System with Guaranteed Stability Properties. International Journal of Emerging Electric Power Systems, 2016, 17, 567-573.	0.8	7
151	A robust PI passivity-based control of nonlinear systems and its application to temperature regulation. International Journal of Robust and Nonlinear Control, 2016, 26, 2216-2231.	3.7	8
152	An adaptive flux observer for the permanent magnet synchronous motor. International Journal of Adaptive Control and Signal Processing, 2016, 30, 473-487.	4.1	16
153	Energy Shaping of Mechanical Systems via PID Control and Extension to Constant Speed Tracking. IEEE Transactions on Automatic Control, 2016, 61, 3551-3556.	5.7	36
154	Robustness of delayed multistable systems with application to droop-controlled inverter-based microgrids. International Journal of Control, 2016, 89, 909-918.	1.9	26
155	Extended hybrid model reference adaptive control of piecewise affine systems. Nonlinear Analysis: Hybrid Systems, 2016, 21, 11-21.	3.5	39
156	Adaptation Is Unnecessary in L_1 -Adaptive Control: What Makes an Adaptive Controller "Adaptive"? IEEE Control Systems, 2016, 36, 47-52.	0.8	11
157	On Existence and Stability of Equilibria of Linear Time-Invariant Systems With Constant Power Loads. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 114-121.	5.4	79
158	Shaping the Energy of Mechanical Systems Without Solving Partial Differential Equations. IEEE Transactions on Automatic Control, 2016, 61, 1051-1056.	5.7	64
159	Global Tracking Passivity-based PI Control of Bilinear Systems and its Application to the Boost and Modular Multilevel Converters—Due to a lack of space the proofs were not included. The interested reader is referred to the full version Cisneros et al. (2015). IFAC-PapersOnLine, 2015, 48, 420-425.	0.9	6
160	Control by Interconnection of Distributed Port-Hamiltonian Systems Beyond the Dissipation Obstacle. IFAC-PapersOnLine, 2015, 48, 99-104.	0.9	4
161	A robust output error identifier for continuous-time systems. International Journal of Adaptive Control and Signal Processing, 2015, 29, 443-456.	4.1	2
162	Immersion and invariance stabilization of nonlinear systems: A horizontal contraction approach. , 2015, , .		3

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163	A parameter estimation approach to state observation of nonlinear systems. , 2015, , .		1
164	Stability of a class of delayed port-Hamiltonian systems with application to droop-controlled microgrids. , 2015, , .		7
165	ISS of multistable systems with delays: Application to droop-controlled inverter-based microgrids. , 2015, , .		12
166	Flux and Position Observer of Permanent Magnet Synchronous Motors with Relaxed Persistency of Excitation Conditions—This article is supported by Government of Russian Federation (grant 074-U01,) (project 14.Z50.31.0031).. IFAC-PapersOnLine, 2015, 48, 301-306.	0.9	20
167	Dissipation Obstacle hampers Control by Interconnection Methodology. IFAC-PapersOnLine, 2015, 48, 123-128.	0.9	0
168	uk converter full state adaptive observer design. , 2015, , .		2
169	Shaping the energy of port-Hamiltonian systems without solving PDE's. , 2015, , .		8
170	Robust PI passivity-based control of nonlinear systems: Application to port-Hamiltonian systems and temperature regulation. , 2015, , .		7
171	A Globally Exponentially Stable Tracking Controller for Mechanical Systems Using Position Feedback. IEEE Transactions on Automatic Control, 2015, 60, 818-823.	5.7	56
172	On the matching equations of energy shaping controllers for mechanical systems. International Journal of Control, 2015, 88, 1757-1765.	1.9	10
173	Consensus control of flexible-joint robots. International Journal of Control, 2015, 88, 1201-1208.	1.9	18
174	Stabilization of Nonlinear Systems Nonlinearly Depending on Fast Time-Varying Parameters: An Immersion and Invariance Approach. IEEE Transactions on Automatic Control, 2015, 60, 559-564.	5.7	18
175	Global tracking passivity-based PI control of bilinear systems: Application to the interleaved boost and modular multilevel converters. Control Engineering Practice, 2015, 43, 109-119.	5.5	69
176	Smooth stabilisation of nonholonomic robots subject to disturbances. , 2015, , .		8
177	Two globally convergent adaptive speed observers for mechanical systems. Automatica, 2015, 60, 7-11.	5.0	17
178	When is a parameterized controller suitable for adaptive control?. European Journal of Control, 2015, 22, 13-16.	2.6	2
179	Further deleterious effects of the dissipation obstacle in control-by-interconnection of port-Hamiltonian systems. Automatica, 2015, 61, 227-231.	5.0	13
180	A robust globally convergent position observer for the permanent magnet synchronous motor. Automatica, 2015, 61, 47-54.	5.0	73

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181	A parameter estimation approach to state observation of nonlinear systems. Systems and Control Letters, 2015, 85, 84-94.	2.3	68
182	Transient stabilization of multimachine power systems: Towards a global decentralized solution. European Journal of Control, 2015, 26, 44-52.	2.6	6
183	Modeling and control of HVDC transmission systems from theory to practice and back. Control Engineering Practice, 2015, 45, 133-146.	5.5	37
184	Modular multilevel converter passivity-based PI control suited for balanced and unbalanced grid conditions. , 2015, , .		5
185	Control of HVDC Transmission Systems: From Theory to Practice and Back. Lecture Notes in Control and Information Sciences, 2015, , 153-177.	1.0	1
186	Shaping the energy of mechanical systems without solving partial differential equations. , 2015, , .		10
187	Droop-controlled inverter-based microgrids are robust to clock drifts. , 2015, , .		28
188	An Observer-Based Scheme for Decentralized Stabilization of Large-Scale Systems With Application to Power Systems. Asian Journal of Control, 2015, 17, 124-132.	3.0	17
189	Robust control of rapid thermal processes applied to vapor deposition processing. , 2014, , .		2
190	Constrained stabilization of a cart on an asymmetric-beam system through IDA-PBC. , 2014, , .		1
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