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	Interconnection and damping assignment passivity-based control of port-controlled Hamiltonian systems. Automatica, 2002, 38, 585-596.	5.0	1,266
2	Passivity-based Control of Euler-Lagrange Systems. Communications and Control Engineering, 1998, , .	1.6	1,265
3	Adaptive motion control of rigid robots: A tutorial. Automatica, 1989, 25, 877-888.	5.0	1,085
4	Stabilization of a class of underactuated mechanical systems via interconnection and damping assignment. IEEE Transactions on Automatic Control, 2002, 47, 1218-1233.	5.7	695
5	Putting energy back in control. IEEE Control Systems, 2001, 21, 18-33.	0.8	663
6	Immersion and invariance: a new tool for stabilization and adaptive control of nonlinear systems. IEEE Transactions on Automatic Control, 2003, 48, 590-606.	5.7	631
7	Interconnection and Damping Assignment Passivity-Based Control: A Survey. European Journal of Control, 2004, 10, 432-450.	2.6	487
8	Synchronization of Networks of Nonidentical Euler-Lagrange Systems With Uncertain Parameters and Communication Delays. IEEE Transactions on Automatic Control, 2011, 56, 935-941.	5.7	406
9	Nonlinear and Adaptive Control with Applications. Communications and Control Engineering, 2008, , .	1.6	353
10	Passivity-based control for bilateral teleoperation: A tutorial. Automatica, 2011, 47, 485-495.	5.0	349
11	Conditions for stability of droop-controlled inverter-based microgrids. Automatica, 2014, 50, 2457-2469.	5.0	340
12	Passivity-based controllers for the stabilization of Dc-to-Dc Power converters. Automatica, 1997, 33, 499-513.	5.0	290
13	A globally convergent frequency estimator. IEEE Transactions on Automatic Control, 1999, 44, 698-713.	5.7	287
14	Interconnection and damping assignment passivity-based control of mechanical systems with underactuation degree one. IEEE Transactions on Automatic Control, 2005, 50, 1936-1955.	5.7	264
15	Control by Interconnection and Standard Passivity-Based Control of Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2008, 53, 2527-2542.	5.7	255
16	Energy Management of Fuel Cell/Battery/Supercapacitor Hybrid Power Sources Using Model Predictive Control. IEEE Transactions on Industrial Informatics, 2014, 10, 1992-2002.	11.3	248
17	Robustness of adaptive controllersâ€"A survey. Automatica, 1989, 25, 651-677.	5.0	242
18	A Globally Stable PD Controller for Bilateral Teleoperators. IEEE Transactions on Robotics, 2008, 24, 753-758.	10.3	242

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19	Energy-based Lyapunov functions for forced Hamiltonian systems with dissipation. IEEE Transactions on Automatic Control, 2000, 45, 1498-1502.	5.7	236
20	Performance Enhancement of Parameter Estimators via Dynamic Regressor Extension and Mixing. IEEE Transactions on Automatic Control, 2017, 62, 3546-3550.	5.7	228
21	Position Tracking for Non-linear Teleoperators with Variable Time Delay. International Journal of Robotics Research, 2009, 28, 895-910.	8.5	213
22	A Hamiltonian viewpoint in the modeling of switching power converters. Automatica, 1999, 35, 445-452.	5.0	206
23	A survey on modeling of microgridsâ€"From fundamental physics to phasors and voltage sources. Automatica, 2016, 74, 135-150.	5.0	196
24	Sensorless Control of Surface-Mount Permanent-Magnet Synchronous Motors Based on a Nonlinear Observer. IEEE Transactions on Power Electronics, 2010, 25, 290-297.	7.9	191
25	Global tracking controllers for flexible-joint manipulators: a comparative study. Automatica, 1995, 31, 941-956.	5.0	182
26	An adaptive controller for nonlinear teleoperators. Automatica, 2010, 46, 155-159.	5.0	182
27	Transient stabilization of multimachine power systems with nontrivial transfer conductances. IEEE Transactions on Automatic Control, 2005, 50, 60-75.	5.7	179
28	A semiglobally stable output feedback PI/sup 2/D regulator for robot manipulators. IEEE Transactions on Automatic Control, 1995, 40, 1432-1436.	5.7	178
29	On speed control of induction motors. Automatica, 1996, 32, 455-460.	5.0	174
30	Design and implementation of an adaptive controller for torque ripple minimization in PM synchronous motors. IEEE Transactions on Power Electronics, 2000, 15, 871-880.	7.9	170
31	Analysis and design of direct power control (DPC) for a three phase synchronous rectifier via output regulation subspaces. IEEE Transactions on Power Electronics, 2003, 18, 823-830.	7.9	166
32	An experimental comparison of several nonlinear controllers for power converters. IEEE Control Systems, 1999, 19, 66-82.	0.8	160
33	On adaptive inverse dynamics control of rigid robots. IEEE Transactions on Automatic Control, 1990, 35, 92-95.	5.7	153
34	Estimation of Rotor Effective Wind Speed: A Comparison. IEEE Transactions on Control Systems Technology, 2013, 21, 1155-1167.	5.2	153
35	Estimation of Rotor Position and Speed of Permanent Magnet Synchronous Motors With Guaranteed Stability. IEEE Transactions on Control Systems Technology, 2011, 19, 601-614.	5.2	152
36	The matching conditions of controlled Lagrangians and IDA-passivity based control. International Journal of Control, 2002, 75, 645-665.	1.9	150

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37	Experimental Validation of a PEM Fuel-Cell Reduced-Order Model and a Moto-Compressor Higher Order Sliding-Mode Control. IEEE Transactions on Industrial Electronics, 2010, 57, 1906-1913.	7.9	144
38	An observer-based set-point controller for robot manipulators with flexible joints. Systems and Control Letters, 1993, 21, 329-335.	2.3	143
39	An energy-shaping approach to the design of excitation control of synchronous generators. Automatica, 2003, 39, 111-119.	5.0	136
40	Robustness of discrete-time direct adaptive controllers. IEEE Transactions on Automatic Control, 1985, 30, 1179-1187.	5.7	134
41	Torque regulation of induction motors. Automatica, 1993, 29, 621-633.	5.0	131
42	Global regulation of flexible joint robots using approximate differentiation. IEEE Transactions on Automatic Control, 1994, 39, 1222-1224.	5.7	125
43	A Nonlinear Tracking Controller for Voltage-Fed Induction Motors With Uncertain Load Torque. IEEE Transactions on Control Systems Technology, 2009, 17, 608-619.	5.2	125
44	Power shaping: A new paradigm for stabilization of nonlinear RLC circuits. IEEE Transactions on Automatic Control, 2003, 48, 1762-1767.	5.7	124
45	Adaptive PI Stabilization of Switched Power Converters. IEEE Transactions on Control Systems Technology, 2010, 18, 688-698.	5.2	124
46	Two solutions to the adaptive visual servoing problem. IEEE Transactions on Automation Science and Engineering, 2002, 18, 387-392.	2.3	123
47	On global output feedback regulation of Euler-Lagrange systems with bounded inputs. IEEE Transactions on Automatic Control, 1997, 42, 1138-1143.	5.7	121
48	An adaptive passivity-based controller for a unity power factor rectifier. IEEE Transactions on Control Systems Technology, 2001, 9, 637-644.	5.2	121
49	Passivity-based control of a class of Blondel-Park transformable electric machines. IEEE Transactions on Automatic Control, 1997, 42, 629-647.	5.7	120
50	A globally exponentially convergent immersion and invariance speed observer for mechanical systems with non-holonomic constraints. Automatica, 2010, 46, 182-189.	5.0	120
51	Necessary and sufficient conditions for passivity of the LuGre friction model. IEEE Transactions on Automatic Control, 2000, 45, 830-832.	5.7	113
52	Comments on "Adaptive manipulator control: a case study" by J. Slotine and W. Li. IEEE Transactions on Automatic Control, 1990, 35, 761-762.	5.7	108
53	A robustly stable output feedback saturated controller for the boost DC-to-DC converter. Systems and Control Letters, 2000, 40, 1-8.	2.3	106
54	Globally stable adaptive controller for systems with delay. International Journal of Control, 1988, 47, 17-23.	1.9	103

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55	Passivity-Based PI Control of Switched Power Converters. IEEE Transactions on Control Systems Technology, 2004, 12, 881-890.	5.2	102
56	On Morse's new adaptive controller: parameter convergence and transient performance. IEEE Transactions on Automatic Control, 1993, 38, 1191-1202.	5.7	100
57	Total Energy Shaping Control of Mechanical Systems: Simplifying the Matching Equations Via Coordinate Changes. IEEE Transactions on Automatic Control, 2007, 52, 1093-1099.	5.7	100
58	Passivity of nonlinear incremental systems: Application to PI stabilization of nonlinear RLC circuits. Systems and Control Letters, 2007, 56, 618-622.	2.3	96
59	Passivity properties for stabilization of cascaded nonlinear systems. Automatica, 1991, 27, 423-424.	5.0	95
60	Interconnection and damping assignment approach to control of PM synchronous motors. IEEE Transactions on Control Systems Technology, 2001, 9, 811-820.	5.2	95
61	State observers are unnecessary for induction motor control. Systems and Control Letters, 1994, 23, 315-323.	2.3	93
62	Indirect field-oriented control of induction motors is robustly globally stable. Automatica, 1996, 32, 1393-1402.	5.0	90
63	An adaptive friction compensator for global tracking in robot manipulators. Systems and Control Letters, 1998, 33, 307-313.	2.3	89
64	Online Estimation of Power System Inertia Using Dynamic Regressor Extension and Mixing. IEEE Transactions on Power Systems, 2019, 34, 4993-5001.	6.5	88
65	PID Passivity-Based Control of Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2018, 63, 1032-1044.	5.7	87
66	Immersion and Invariance Adaptive Control of Nonlinearly Parameterized Nonlinear Systems $ $. IEEE Transactions on Automatic Control, 2010, 55, 2209-2214.	5.7	86
67	Interactor structure estimation for adaptive control of discrete-time multivariable nondecouplable systems. Automatica, 1993, 29, 635-647.	5.0	81
68	Direct torque control of induction motors: stability analysis and performance improvement. IEEE Transactions on Automatic Control, 2001, 46, 1209-1222.	5.7	81
69	A port-Hamiltonian approach to power network modeling and analysis. European Journal of Control, 2013, 19, 477-485.	2.6	80
70	Output-feedback stabilization of a class of uncertain non-minimum-phase nonlinear systems. Automatica, 2005, 41, 1609-1615.	5.0	79
71	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
72	Nonlinear control of induction motors: torque tracking with unknown load disturbance. IEEE Transactions on Automatic Control, 1993, 38, 1675-1680.	5.7	78

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73	Immersion and invariance adaptive control of linear multivariable systems. Systems and Control Letters, 2003, 49, 37-47.	2.3	75
74	Robust energy shaping control of mechanical systems. Systems and Control Letters, 2013, 62, 770-780.	2.3	73
75	A robust globally convergent position observer for the permanent magnet synchronous motor. Automatica, 2015, 61, 47-54.	5.0	73
76	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
77	PID Self-Tuners: Some Theoretical and Practical Aspects. IEEE Transactions on Industrial Electronics, 1984, IE-31, 332-338.	7.9	70
78	Speed Observation and Position Feedback Stabilization of Partially Linearizable Mechanical Systems. IEEE Transactions on Automatic Control, 2010, 55, 1059-1074.	5.7	70
79	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
80	Two results for adaptive output feedback stabilization of nonlinear systems. Automatica, 2003, 39, 857-866.	5.0	68
81	A parameter estimation approach to state observation of nonlinear systems. Systems and Control Letters, 2015, 85, 84-94.	2.3	68
82	Robust Adaptive Sensorless Control for Permanent-Magnet Synchronous Motors. IEEE Transactions on Power Electronics, 2017, 32, 3989-3997.	7.9	68
83	Robust integral control of port-Hamiltonian systems: The case of non-passive outputs with unmatched disturbances. Systems and Control Letters, 2012, 61, 11-17.	2.3	67
84	Reformulation of the parameter identification problem for systems with bounded disturbances. Automatica, 1987, 23, 247-251.	5.0	66
85	On feedback equivalence to port controlled Hamiltonian systems. Systems and Control Letters, 2005, 54, 911-917.	2.3	66
86	SOME REMARKS ON ADAPTIVE NEURO-FUZZY SYSTEMS. International Journal of Adaptive Control and Signal Processing, 1996, 10, 79-83.	4.1	65
87	Power-based control of physical systems. Automatica, 2010, 46, 127-132.	5.0	65
88	Conditions for Existence of Equilibria of Systems With Constant Power Loads. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2204-2211.	5.4	65
89	Achieving Consensus of Eulerâ€“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	An energy-balancing perspective of interconnection and damping assignment control of nonlinear systems. Automatica, 2004, 40, 1643-1646.	5.0	64

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91	Shaping the Energy of Mechanical Systems Without Solving Partial Differential Equations. IEEE Transactions on Automatic Control, 2016, 61, 1051-1056.	5.7	64
92	A constructive solution for stabilization via immersion and invariance: The cart and pendulum system. Automatica, 2008, 44, 2352-2357.	5.0	63
93	On the control of non-linear processes: An IDAâ€“PBC approach. Journal of Process Control, 2009, 19, 405-414.	3.3	63
94	A solution to the decentralized adaptive stabilization problem. Systems and Control Letters, 1993, 20, 299-306.	2.3	62
95	Output-feedback global stabilization of a nonlinear benchmark system using a saturated passivity-based controller. IEEE Transactions on Control Systems Technology, 1999, 7, 289-293.	5.2	62
96	Tuning rules for the PI gains of field-oriented controllers of induction motors. IEEE Transactions on Industrial Electronics, 2000, 47, 592-602.	7.9	62
97	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
98	Stabilization of nonlinear systems via forwarding mod {L/sub g/V}. IEEE Transactions on Automatic Control, 2001, 46, 1461-1466.	5.7	61
99	Adaptive L₂ Disturbance Attenuation Of Hamiltonian Systems With Parametric Perturbation And Application To Power Systems. Asian Journal of Control, 2003, 5, 143-152.	3.0	61
100	A robust adaptive robot controller. IEEE Transactions on Automation Science and Engineering, 1993, 9, 825-830.	2.3	60
101	Passivity-based controllers for the stabilization of DC-to-DC power converters. , 0, , .		60
102	Adaptive motion control design of robot manipulators: an input-output approach. International Journal of Control, 1989, 50, 2563-2581.	1.9	59
103	Constructive immersion and invariance stabilization for a class of underactuated mechanical systems. Automatica, 2013, 49, 1442-1448.	5.0	59
104	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
105	On adaptive control of nonlinearly parameterized nonlinear systems: Towards a constructive procedure. Systems and Control Letters, 2011, 60, 36-43.	2.3	57
106	A Globally Exponentially Stable Tracking Controller for Mechanical Systems Using Position Feedback. IEEE Transactions on Automatic Control, 2015, 60, 818-823.	5.7	56
107	An output feedback globally stable controller for induction motors. IEEE Transactions on Automatic Control, 1995, 40, 138-143.	5.7	55
108	Power-factor compensation of electrical circuits. IEEE Control Systems, 2007, 27, 46-59.	0.8	52

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109	<inline-formula> <tex-math notation="TeX">${m L}_{1}$</tex-math></inline-formula>-Adaptive Control: Stability, Robustness, and Interpretations. IEEE Transactions on Automatic Control, 2014, 59, 3075-3080.	5.7	52
110	Further constructive results on interconnection and damping assignment control of mechanical systems: the Acrobot example. International Journal of Robust and Nonlinear Control, 2006, 16, 671-685.	3.7	50
111	Adaptive controllers for discrete-time systems with arbitrary zeros: An overview. Automatica, 1985, 21, 413-423.	5.0	49
112	Adaptive control of a class of non-linearly parametrized systems using convexification. International Journal of Control, 2000, 73, 1312-1321.	1.9	49
113	Nonlinear PI control of uncertain systems: an alternative to parameter adaptation. Systems and Control Letters, 2002, 47, 259-278.	2.3	49
114	Passivity and robust PI control of the air supply system of a PEM fuel cell model. Automatica, 2011, 47, 2554-2561.	5.0	49
115	Theoretical and experimental comparison of two nonlinear controllers for current-fed induction motors. IEEE Transactions on Control Systems Technology, 1997, 5, 338-348.	5.2	48
116	Adaptive passivity-based control of average dc-to-dc power converter models. International Journal of Adaptive Control and Signal Processing, 1998, 12, 63-80.	4.1	48
117	Adaptive passivity-based control for maximum power extraction of stand-alone windmill systems. Control Engineering Practice, 2012, 20, 173-181.	5.5	47
118	Generalized parameter estimation-based observers: Application to power systems and chemicalâ€“biological reactors. Automatica, 2021, 129, 109635.	5.0	47
119	Discrete-time model reference adaptive control for continuous-time systems using generalized sampled-data hold functions. IEEE Transactions on Automatic Control, 1990, 35, 334-338.	5.7	46
120	Regulation and tracking of the nonholonomic double integrator: A field-oriented control approach. Automatica, 1998, 34, 125-131.	5.0	46
121	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
122	A controller tuning methodology for the air supply system of a PEM fuel-cell system with guaranteed stability properties. International Journal of Control, 2009, 82, 1706-1719.	1.9	45
123	Euler-Lagrange systems. Communications and Control Engineering, 1998, , 15-37.	1.6	44
124	Analysis and experimentation of nonlinear adaptive controllers for the series resonant converter. IEEE Transactions on Power Electronics, 2000, 15, 536-544.	7.9	44
125	Global stabilisation of underactuated mechanical systems via PID passivity-based control. Automatica, 2018, 96, 178-185.	5.0	44
126	Stabilization and Disturbance Attenuation of Nonlinear Systems Using Dissipativity Theory. European Journal of Control, 2002, 8, 408-431.	2.6	43

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127	On generalized predictive control: Two alternative formulations. Automatica, 1989, 25, 753-755.	5.0	42
128	Asymptotic stabilization of some equilibria of an underactuated underwater vehicle. Systems and Control Letters, 2002, 45, 193-206.	2.3	42
129	Voltage Regulation in Buckâ€“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
130	A note on direct adaptive control of systems with bounded disturbances. Automatica, 1987, 23, 253-254.	5.0	40
131	On dynamic regressor extension and mixing parameter estimators: Two Luenberger observers interpretations. Automatica, 2018, 95, 548-551.	5.0	40
132	A Passivation Approach to Power Systems Stabilization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 309-313.	0.4	39
133	Extended hybrid model reference adaptive control of piecewise affine systems. Nonlinear Analysis: Hybrid Systems, 2016, 21, 11-21.	3.5	39
134	On global asymptotic stability of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml1" display="inline" overflow="scroll" altimg="si1.gif"><mml:mover accent="true"><mml:mrow><mml:mi>x</mml:mi></mml:mrow><mml:mrow><mml:mo>ì‡</mml:mo></mml:mrow></mml:mover><mml Systems and Control Letters, 2017, 109, 24-29.	2.3	39
135	Design and Implementation of Adaptive Energy Shaping Control for DCâ€“DC Converters With Constant Power Loads. IEEE Transactions on Industrial Informatics, 2020, 16, 5053-5064.	11.3	39
136	Coordination of multi-agent Eulerâ€“Lagrange systems via energy-shaping: Networking improves robustness. Automatica, 2013, 49, 3065-3071.	5.0	38
137	Sensorless Control of IPMSM Based on Regression Model. IEEE Transactions on Power Electronics, 2019, 34, 9191-9201.	7.9	38
138	A class of output feedback globally stabilizing controllers for flexible joints robots. IEEE Transactions on Automation Science and Engineering, 1995, 11, 766-770.	2.3	37
139	Semi-adaptive control of convexly parametrized systems with application to temperature regulation of chemical reactors. International Journal of Adaptive Control and Signal Processing, 2001, 15, 415-426.	4.1	37
140	An Adaptive Controller for the Shunt Active Filter Considering a Dynamic Load and the Line Impedance. IEEE Transactions on Control Systems Technology, 2009, 17, 458-464.	5.2	37
141	Modeling and control of HVDC transmission systems from theory to practice and back. Control Engineering Practice, 2015, 45, 133-146.	5.5	37
142	Adaptive force control of robot manipulators. International Journal of Control, 1990, 52, 37-54.	1.9	36
143	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
144	An experimental comparison of several PWM controllers for a single-phase AC-DC converter. IEEE Transactions on Control Systems Technology, 2003, 11, 940-947.	5.2	35

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145	Towards applied nonlinear adaptive control. Annual Reviews in Control, 2008, 32, 136-148.	7.9	35
146	A â€œGloballyâ€•Convergent Controller for Multi-Machine Power Systems Using Structure-Preserving Models. IEEE Transactions on Automatic Control, 2009, 54, 2179-2185.	5.7	34
147	Passivity-Based Control of a Grid-Connected Small-Scale Windmill With Limited Control Authority. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 247-259.	5.4	34
148	Cascaded control of feedback interconnected nonlinear systems: Application to robots with AC drives. Automatica, 1997, 33, 1935-1947.	5.0	33
149	Hopf bifurcation in indirect field-oriented control of induction motors. Automatica, 2002, 38, 829-835.	5.0	33
150	Orbital stabilization of nonlinear systems via Mexican sombrero energy shaping and pumping-and-damping injection. Automatica, 2020, 112, 108661.	5.0	33
151	Energy shaping control for buckâ€“boost converters with unknown constant power load. Control Engineering Practice, 2018, 74, 33-43.	5.5	32
152	An energy amplification condition for decentralized adaptive stabilization. IEEE Transactions on Automatic Control, 1996, 41, 285-288.	5.7	31
153	Application of nonlinear time-scaling for robust controller design of reaction systems. International Journal of Robust and Nonlinear Control, 2002, 12, 57-69.	3.7	31
154	A novel induction motor control scheme using IDA-PBC. Journal of Control Theory and Applications, 2008, 6, 59-68.	0.8	31
155	An asymptotically stable sensorless speed controller for nonâ€salient permanent magnet synchronous motors. International Journal of Robust and Nonlinear Control, 2014, 24, 644-668.	3.7	31
156	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
157	A state observer for sensorless control of magnetic levitation systems. Automatica, 2018, 97, 263-270.	5.0	31
158	Relaxing the high-frequency gain sign assumption in direct model reference adaptive control. European Journal of Control, 2018, 43, 12-19.	2.6	31
159	An Adaptive Passivityâ€Based Controller of a Buckâ€Boost Converter with a Constant Power Load. Asian Journal of Control, 2019, 21, 581-595.	3.0	31
160	Power Flow Control of a Doubly-Fed Induction Machine Coupled to a Flywheel. European Journal of Control, 2005, 11, 209-221.	2.6	30
161	On nonlinear control of Euler-Lagrange systems: Disturbance attenuation properties. Systems and Control Letters, 1997, 30, 49-56.	2.3	29
162	Simultaneous interconnection and damping assignment passivity-based control: the induction machine case study. International Journal of Control, 2009, 82, 241-255.	1.9	29

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163	Permanent magnet synchronous motors are globally asymptotically stabilizable with PI current control. Automatica, 2018, 98, 296-301.	5.0	29
164	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
165	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
166	Droop-controlled inverter-based microgrids are robust to clock drifts. , 2015, , .		28
167	Parameters estimation via dynamic regressor extension and mixing. , 2016, , .		28
168	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
169	A robust nonlinear position observer for synchronous motors with relaxed excitation conditions. International Journal of Control, 2017, 90, 813-824.	1.9	28
170	Asymptotic stability of a class of adaptive systems. International Journal of Adaptive Control and Signal Processing, 1993, 7, 255-260.	4.1	27
171	A globally convergent wind speed estimator for wind turbine systems. International Journal of Adaptive Control and Signal Processing, 2013, 27, 413-425.	4.1	27
172	Improved Transients in Multiple Frequencies Estimation via Dynamic Regressor Extension and Mixing. IFAC-PapersOnLine, 2016, 49, 99-104.	0.9	27
173	Energy shaping control of an inverted flexible pendulum fixed to a cart. Control Engineering Practice, 2016, 56, 27-36.	5.5	27
174	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
175	A new family of energy-based non-linear controllers for switched power converters. , 0, , .		26
176	Dynamic Control of Uncertain Manipulators Through Immersion and Invariance Adaptive Visual Servoing. International Journal of Robotics Research, 2006, 25, 1149-1159.	8.5	26
177	Asymptotic stabilization via control by interconnection of port-Hamiltonian systems. Automatica, 2009, 45, 1611-1618.	5.0	26
178	An Estimator of Solar Irradiance in Photovoltaic Arrays With Guaranteed Stability Properties. IEEE Transactions on Industrial Electronics, 2014, 61, 3359-3366.	7.9	26
179	Output Regulation of Large-Scale Hydraulic Networks. IEEE Transactions on Control Systems Technology, 2014, 22, 238-245.	5.2	26
180	Robustness of delayed multistable systems with application to droop-controlled inverter-based microgrids. International Journal of Control, 2016, 89, 909-918.	1.9	26

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181	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
182	Averaging level control: An approach based on mass balance. Journal of Process Control, 2007, 17, 621-629.	3.3	25
183	Study of the Stability of a Direct Stator Current Controller for a Doubly Fed Induction Machine Using the Complex Hurwitz Test. IEEE Transactions on Control Systems Technology, 2013, 21, 2323-2331.	5.2	25
184	Asymptotic stabilization of passive systems without damping injection: A sampled integral technique. Automatica, 2011, 47, 262-271.	5.0	24
185	Immersion and Invariance Stabilization of Nonlinear Systems Via Virtual and Horizontal Contraction. IEEE Transactions on Automatic Control, 2017, 62, 4017-4022.	5.7	24
186	Parameter identification of linear timeâ€invariant systems using dynamic regressor extension and mixing. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1016-1030.	4.1	24
187	A constructive procedure for energy shaping of portâ€”Hamiltonian systems. Automatica, 2016, 72, 230-234.	5.0	23
188	Conditions on shifted passivity of port-Hamiltonian systems. Systems and Control Letters, 2019, 123, 55-61.	2.3	23
189	PI Stabilization of Power Converters With Partial State Measurements. IEEE Transactions on Control Systems Technology, 2013, 21, 560-568.	5.2	22
190	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
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