Romeo Ortega

List of Publications by Citations

454 papers	16,819 citations	64 h-index	118 g-index
477 ext. papers	20,724 ext. citations	3.6 avg, IF	6.94 L-index

#	Paper	IF	Citations
454	Interconnection and damping assignment passivity-based control of port-controlled Hamiltonian systems. *Automatica*, **2002**, 38, 585-596	5.7	935
453	Passivity-based Control of Euler-Lagrange Systems. *Communications and Control Engineering*, **1998**,	0.6	813
452	Adaptive motion control of rigid robots: A tutorial. *Automatica*, **1989**, 25, 877-888	5.7	803
451	Stabilization of a class of underactuated mechanical systems via interconnection and damping assignment. *IEEE Transactions on Automatic Control*, **2002**, 47, 1218-1233	5.9	505
450	Putting energy back in control. *IEEE Control Systems*, **2001**, 21, 18-33	2.9	493
449	. *IEEE Transactions on Automatic Control*, **2003**, 48, 590-606	5.9	457
448	Interconnection and Damping Assignment Passivity-Based Control: A Survey. *European Journal of Control*, **2004**, 10, 432-450	2.5	357
447	Synchronization of Networks of Nonidentical Euler-Lagrange Systems With Uncertain Parameters and Communication Delays. *IEEE Transactions on Automatic Control*, **2011**, 56, 935-941	5.9	317
446	Passivity-based control for bilateral teleoperation: A tutorial. *Automatica*, **2011**, 47, 485-495	5.7	260
445	Conditions for stability of droop-controlled inverter-based microgrids. *Automatica*, **2014**, 50, 2457-2469	5.7	256
444	. *IEEE Transactions on Automatic Control*, **1999**, 44, 698-713	5.9	222
443	Passivity-based controllers for the stabilization of Dc-to-Dc Power converters. *Automatica*, **1997**, 33, 499-513	5.7	207
442	Nonlinear and Adaptive Control with Applications. *Communications and Control Engineering*, **2008**,	0.6	206
441	Robustness of adaptive controllers—A survey. *Automatica*, **1989**, 25, 651-677	5.7	197
440	A Globally Stable PD Controller for Bilateral Teleoperators. *IEEE Transactions on Robotics*, **2008**, 24, 753-758	6.8	195
439	. *IEEE Transactions on Automatic Control*, **2005**, 50, 1936-1955	5.9	188
438	Control by Interconnection and Standard Passivity-Based Control of Port-Hamiltonian Systems. *IEEE Transactions on Automatic Control*, **2008**, 53, 2527-2542	5.9	185

437	Position Tracking for Non-linear Teleoperators with Variable Time Delay. *International Journal of Robotics Research*, **2009**, 28, 895-910	5.7	176
436	. *IEEE Transactions on Automatic Control*, **2000**, 45, 1498-1502	5.9	173
435	. *IEEE Transactions on Industrial Informatics*, **2014**, 10, 1992-2002	11.9	156
434	A Hamiltonian viewpoint in the modeling of switching power converters. *Automatica*, **1999**, 35, 445-452	5.7	153
433	An adaptive controller for nonlinear teleoperators. *Automatica*, **2010**, 46, 155-159	5.7	146
432	A survey on modeling of microgrids□rom fundamental physics to phasors and voltage sources. *Automatica*, **2016**, 74, 135-150	5.7	139
431	Global tracking controllers for flexible-joint manipulators: a comparative study. *Automatica*, **1995**, 31, 941-956	5.7	137
430	Sensorless Control of Surface-Mount Permanent-Magnet Synchronous Motors Based on a Nonlinear Observer. *IEEE Transactions on Power Electronics*, **2010**, 25, 290-297	7.2	135
429	Design and implementation of an adaptive controller for torque ripple minimization in PM synchronous motors. *IEEE Transactions on Power Electronics*, **2000**, 15, 871-880	7.2	132
428	Transient stabilization of multimachine power systems with nontrivial transfer conductances. *IEEE Transactions on Automatic Control*, **2005**, 50, 60-75	5.9	128
427	. *IEEE Transactions on Automatic Control*, **1995**, 40, 1432-1436	5.9	126
426	Performance Enhancement of Parameter Estimators via Dynamic Regressor Extension and Mixing*. *IEEE Transactions on Automatic Control*, **2017**, 62, 3546-3550	5.9	124
425	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	7.2	123
424	An experimental comparison of several nonlinear controllers for power converters. *IEEE Control Systems*, **1999**, 19, 66-82	2.9	123
423	On speed control of induction motors. *Automatica*, **1996**, 32, 455-460	5.7	121
422	The matching conditions of controlled Lagrangians and IDA-passivity based control. *International Journal of Control*, **2002**, 75, 645-665	1.5	113
421	Estimation of Rotor Effective Wind Speed: A Comparison. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 1155-1167	4.8	110
420	An energy-shaping approach to the design of excitation control of synchronous generators. *Automatica*, **2003**, 39, 111-119	5.7	108

419	An observer-based set-point controller for robot manipulators with flexible joints. *Systems and Control Letters*, **1993**, 21, 329-335	2.4	107
418	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	8.9	103
417	A globally exponentially convergent immersion and invariance speed observer for mechanical systems with non-holonomic constraints. *Automatica*, **2010**, 46, 182-189	5.7	101
416	Necessary and sufficient conditions for passivity of the LuGre friction model. *IEEE Transactions on Automatic Control*, **2000**, 45, 830-832	5.9	99
415	Robustness of discrete-time direct adaptive controllers. *IEEE Transactions on Automatic Control*, **1985**, 30, 1179-1187	5.9	99
414	Torque regulation of induction motors. *Automatica*, **1993**, 29, 621-633	5.7	98
413	. *IEEE Transactions on Automatic Control*, **1990**, 35, 92-95	5.9	96
412	An adaptive passivity-based controller for a unity power factor rectifier. *IEEE Transactions on Control Systems Technology*, **2001**, 9, 637-644	4.8	95
411	. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 601-614	4.8	94
410	. *IEEE Transactions on Automatic Control*, **1994**, 39, 1222-1224	5.9	94
409	On global output feedback regulation of Euler-Lagrange systems with bounded inputs. *IEEE Transactions on Automatic Control*, **1997**, 42, 1138-1143	5.9	91
408	Power shaping: a new paradigm for stabilization of nonlinear RLC circuits. *IEEE Transactions on Automatic Control*, **2003**, 48, 1762-1767	5.9	89
407	. *IEEE Transactions on Control Systems Technology*, **2010**, 18, 688-698	4.8	87
406	Two solutions to the adaptive visual servoing problem. *IEEE Transactions on Automation Science and Engineering*, **2002**, 18, 387-392		84
405	A Nonlinear Tracking Controller for Voltage-Fed Induction Motors With Uncertain Load Torque. *IEEE Transactions on Control Systems Technology*, **2009**, 17, 608-619	4.8	83
404	A robustly stable output feedback saturated controller for the boost DC-to-DC converter. *Systems and Control Letters*, **2000**, 40, 1-8	2.4	83
403	. *IEEE Transactions on Automatic Control*, **1990**, 35, 761-762	5.9	83
402	Passivity-based control of a class of Blondel-Park transformable electric machines. *IEEE Transactions on Automatic Control*, **1997**, 42, 629-647	5.9	81

401	Globally stable adaptive controller for systems with delay. *International Journal of Control*, **1988**, 47, 17-23	1.5	81
400	Passivity properties for stabilization of cascaded nonlinear systems. *Automatica*, **1991**, 27, 423-424	5.7	77
399	Interconnection and damping assignment approach to control of PM synchronous motors. *IEEE Transactions on Control Systems Technology*, **2001**, 9, 811-820	4.8	75
398	Passivity of nonlinear incremental systems: Application to PI stabilization of nonlinear RLC circuits. *Systems and Control Letters*, **2007**, 56, 618-622	2.4	73
397	Indirect field-oriented control of induction motors is robustly globally stable. *Automatica*, **1996**, 32, 1393-1402	5.7	73
396	Passivity-based PI control of switched power converters. *IEEE Transactions on Control Systems Technology*, **2004**, 12, 881-890	4.8	71
395	An adaptive friction compensator for global tracking in robot manipulators. *Systems and Control Letters*, **1998**, 33, 307-313	2.4	70
394	Total Energy Shaping Control of Mechanical Systems: Simplifying the Matching Equations Via Coordinate Changes. *IEEE Transactions on Automatic Control*, **2007**, 52, 1093-1099	5.9	70
393	. *IEEE Transactions on Automatic Control*, **1993**, 38, 1191-1202	5.9	69
392	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	3.9	68
391	A port-Hamiltonian approach to power network modeling and analysis. *European Journal of Control*, **2013**, 19, 477-485	2.5	64
390	State observers are unnecessary for induction motor control. *Systems and Control Letters*, **1994**, 23, 315-323	2.4	61
389	Robust energy shaping control of mechanical systems. *Systems and Control Letters*, **2013**, 62, 770-780	2.4	59
388	PID Passivity-Based Control of Port-Hamiltonian Systems. *IEEE Transactions on Automatic Control*, **2018**, 63, 1032-1044	5.9	58
387	Immersion and invariance adaptive control of linear multivariable systems. *Systems and Control Letters*, **2003**, 49, 37-47	2.4	58
386	Immersion and Invariance Adaptive Control of Nonlinearly Parameterized Nonlinear Systems $ $. *IEEE Transactions on Automatic Control*, **2010**, 55, 2209-2214	5.9	57
385	Output-feedback stabilization of a class of uncertain non-minimum-phase nonlinear systems. *Automatica*, **2005**, 41, 1609-1615	5.7	56
384	Interactor structure estimation for adaptive control of discrete-time multivariable nondecouplable systems. *Automatica*, **1993**, 29, 635-647	5.7	56

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380	An energy-balancing perspective of interconnection and damping assignment control of nonlinear systems. *Automatica*, **2004**, 40, 1643-1646	5.7	53
379	On feedback equivalence to port controlled Hamiltonian systems. *Systems and Control Letters*, **2005** , 54, 911-917	2.4	53
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376	. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2014**, 61, 2204-2211	3.9	50
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374	A constructive solution for stabilization via immersion and invariance: The cart and pendulum system. *Automatica*, **2008**, 44, 2352-2357	5.7	50
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369	. *IEEE Transactions on Power Electronics*, **2017**, 32, 3989-3997	7.2	48
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367	Stabilization of nonlinear systems via forwarding mod {L/sub g/V}. *IEEE Transactions on Automatic Control*, **2001**, 46, 1461-1466	5.9	47
366	A solution to the decentralized adaptive stabilization problem. *Systems and Control Letters*, **1993**, 20, 299-306	2.4	47

365	Adaptive motion control design of robot manipulators: an input-output approach. *International Journal of Control*, **1989**, 50, 2563-2581	1.5	47
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361	Adaptive passivity-based control for maximum power extraction of stand-alone windmill systems. *Control Engineering Practice*, **2012**, 20, 173-181	3.9	42
360	Constructive immersion and invariance stabilization for a class of underactuated mechanical systems. *Automatica*, **2013**, 49, 1442-1448	5.7	42
359	A parameter estimation approach to state observation of nonlinear systems. *Systems and Control Letters*, **2015**, 85, 84-94	2.4	41
358	Achieving Consensus of Euler□agrange Agents With Interconnecting Delays and Without Velocity Measurements via Passivity-Based Control. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 222-232	4.8	41
357	On adaptive control of nonlinearly parameterized nonlinear systems: Towards a constructive procedure. *Systems and Control Letters*, **2011**, 60, 36-43	2.4	41
356	Adaptive L2 Disturbance Attenuation Of Hamiltonian Systems With Parametric Perturbation And Application To Power Systems. *Asian Journal of Control*, **2008**, 5, 143-152	1.7	40
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353	A Globally Exponentially Stable Tracking Controller for Mechanical Systems Using Position Feedback. *IEEE Transactions on Automatic Control*, **2015**, 60, 818-823	5.9	39
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350	Regulation and tracking of the nonholonomic double integrator: A field-oriented control approach. *Automatica*, **1998**, 34, 125-131	5.7	38
349	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	3.6	38
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342	Passivity-based controllers for the stabilization of DC-to-DC power converters		35
341	Online Estimation of Power System Inertia Using Dynamic Regressor Extension and Mixing. *IEEE Transactions on Power Systems*, **2019**, 34, 4993-5001	7	34
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339	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	1.5	34
338	Towards applied nonlinear adaptive control. *Annual Reviews in Control*, **2008**, 32, 136-148	10.3	33
337	Adaptive control of a class of non-linearly parametrized systems using convexification. *International Journal of Control*, **2000**, 73, 1312-1321	1.5	33
336	Stability of a class of delayed port-Hamiltonian systems with application to microgrids with distributed rotational and electronic generation. *Automatica*, **2016**, 74, 71-79	5.7	33
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331	On generalized predictive control: Two alternative formulations. *Automatica*, **1989**, 25, 753-755	5.7	31
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325	An experimental comparison of several PWM controllers for a single-phase AC-DC converter. *IEEE Transactions on Control Systems Technology*, **2003**, 11, 940-947	4.8	29
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303	An asymptotically stable sensorless speed controller for non-salient permanent magnet synchronous motors. *International Journal of Robust and Nonlinear Control*, **2014**, 24, 644-668	3.6	22
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298	Asymptotic stabilization of passive systems without damping injection: A sampled integral technique. *Automatica*, **2011**, 47, 262-271	5.7	20
297	Dynamic Control of Uncertain Manipulators Through Immersion and Invariance Adaptive Visual Servoing. *International Journal of Robotics Research*, **2006**, 25, 1149-1159	5.7	20
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273	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	2.8	16
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