## Gerardo Escobar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26 146 3,525 57 g-index h-index citations papers 4,460 175 5.2 5.17 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
146	Direct Output-Voltage Control of Non-Minimum Phase Higher-Order DC-DC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	
145	. IEEE Access, <b>2021</b> , 9, 168004-168014	3.5	
144	DC-Link capacitors voltage balance in an HB-NPC five-level grid-tied inverter via the common-mode control component. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	
143	From Real to Complex FLL With Unbalance and Harmonic Distortion Compensation. <i>IEEE Access</i> , <b>2021</b> , 9, 158710-158725	3.5	1
142	. IEEE Transactions on Industrial Electronics, <b>2021</b> , 68, 5966-5977	8.9	7
141	. IEEE Transactions on Industrial Electronics, <b>2021</b> , 68, 175-185	8.9	3
140	Nonlinear Stabilizing Control Design for DCDC Converters Using Lifted Models. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 10772-10783	8.9	3
139	. IEEE Transactions on Power Delivery, <b>2021</b> , 36, 1640-1650	4.3	
138	Analysis of the Input Current-Ripple in the Series-Capacitor Boost Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 10303-10308	8.9	3
137	An improved algorithm for fault detection and location in multi-terminal transmission lines based on wavelet correlation modes. <i>Electric Power Systems Research</i> , <b>2021</b> , 192, 106953	3.5	10
136	A model-based controller for a single-phase n-level CHB multilevel converter. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 125, 106454	5.1	1
135	Nonlinear Stability Analysis of the Conventional SRF-PLL and Enhanced SRF-EPLL. <i>IEEE Access</i> , <b>2021</b> , 9, 59446-59455	3.5	5
134	. IEEE Transactions on Industrial Electronics, <b>2021</b> , 1-1	8.9	Ο
133	A Single-Phase Globally Stable Frequency-Locked Loop Based on the Second-Order Harmonic Oscillator Model. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 525	2.6	
132	A Fast-Dynamic Control Scheme for a Power-Electronics-Based PV Emulator. <i>IEEE Journal of Photovoltaics</i> , <b>2021</b> , 11, 485-495	3.7	8
131	. IEEE Transactions on Industrial Electronics, <b>2021</b> , 68, 6750-6761	8.9	4
130	Power Grid Dynamic Performance Enhancement via STATCOM Data-Driven Control. <i>Mathematics</i> , <b>2021</b> , 9, 2361	2.3	O

129	Differential and common-mode model-based controller for the double-dual buck transformerless inverter. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 131, 107065	5.1	О
128	Control Design and Experimental Validation of a HB-NPC as a Shunt Active Power Filter. <i>Energies</i> , <b>2020</b> , 13, 1691	3.1	1
127	Analysis and Validation for an Inverter-side Current Controller in LCL Grid-connected Power Systems. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2020</b> , 8, 387-398	4	6
126	Data-driven short-circuit detection and location in microgrids using micro-synchrophasors. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 1353-1365	2.5	3
125	A Discrete-Time Frequency-Locked Loop for Single-Phase Grid Synchronization Under Harmonic Distortion. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 4647-4657	7.2	9
124	. IEEE Transactions on Smart Grid, <b>2020</b> , 11, 2182-2194	10.7	6
123	An Architecture for Level-3 EV Battery Charger Stations Using Integrated Solid State Transformer (I-SST) <b>2020</b> ,		2
122	Step-Up seven-level neutral-point-clamped inverter based topology for TL-PVS. <i>IET Power Electronics</i> , <b>2020</b> , 13, 2847-2853	2.2	O
121	Mitigation of Leakage-Ground Currents in Transformerless Grid-Tied Inverters via Virtual-Ground Connection. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 3111-3123	5.6	6
120	A model-based controller for a single-phase grid-tied modular multilevel inverter with regulation and balance of energy. <i>International Transactions on Electrical Energy Systems</i> , <b>2019</b> , 29, e12030	2.2	
119	Effects of modulation techniques on leakage ground currents in a grid-tied transformerless HB-NPC inverter. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 1250-1260	2.9	11
118	Model based current mode control design and experimental validation for a (3phi) rectifier under unbalanced grid voltage conditions. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2018</b> , 6, 777-79	o <sup>4</sup>	2
117	A current controller for the modular multilevel converter operating under distorted grid voltage. <i>International Transactions on Electrical Energy Systems</i> , <b>2018</b> , 28, e2524	2.2	1
116	Reactive Power Control for Single-Phase Grid-Tie Inverters Using Quasi-Sinusoidal Waveform. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 3-11	8.2	10
115	A Single-Phase Asymmetrical T-Type Five-Level Transformerless PV Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2018</b> , 6, 140-150	5.6	67
114	Design of an inverter-side current reference and controller for a single-phase LCL-based grid-connected inverter. <i>International Transactions on Electrical Energy Systems</i> , <b>2018</b> , 28, e2476	2.2	7
113	A Modulation Strategy for a Single-Phase Transformerless Multilevel Inverter with Dual Bidirectional Switch <b>2018</b> ,		1
112	Voltage and Current Switching-Ripple Cancelation in the Double Dual Boost Converter 2018,		1

111	Multisampling Maximum Power Point Tracker (MS-MPPT) to Compensate Irradiance and Temperature Changes. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 1096-1105	8.2	23
110	Active Power Injection Control for Power Converters Connected to the Grid Through an L Filter. <i>Electric Power Components and Systems</i> , <b>2017</b> , 45, 660-671	1	3
109	Analysis and experimental validation of a controller for a single-phase active power filter based on a 3L-NPC topology. <i>International Transactions on Electrical Energy Systems</i> , <b>2017</b> , 27, e2385	2.2	11
108	A fast dynamic photovoltaic simulator with instantaneous output impedance matching controller <b>2017</b> ,		5
107	Modelling and control of a hybrid power filter to compensate harmonic distortion under unbalanced operation. <i>IET Power Electronics</i> , <b>2017</b> , 10, 782-791	2.2	8
106	A phase-locked loop with saturated estimator for single-phase grid synchronization <b>2016</b> ,		1
105	A comparative analysis of the 5L-AH6 and 5L-SC topologies for grid-connected transformer-less multilevel inverters for PV systems <b>2016</b> ,		3
104	A combined method for anti-islanding in PV inverters <b>2016</b> ,		1
103	A comparative analysis of grid-tied single-phase transformerless five-level NPC-based inverters for photovoltaic applications <b>2016</b> ,		12
102	A six-de-characterist NDC inverte-to-class 2046		
102	A single-phase asymmetrical NPC inverter topology <b>2016</b> ,		1
101	A Single-phase asymmetrical NPC inverter topology <b>2016</b> ,  A PWM method for single-phase cascade multilevel inverters to reduce leakage ground current in transformerless PV systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2016</b> , 26, 2353-236	59 <sup>2.2</sup>	26
	A PWM method for single-phase cascade multilevel inverters to reduce leakage ground current in	59 <sup>2.2</sup>	
101	A PWM method for single-phase cascade multilevel inverters to reduce leakage ground current in transformerless PV systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2016</b> , 26, 2353-236	8.9	26
101	A PWM method for single-phase cascade multilevel inverters to reduce leakage ground current in transformerless PV systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2016</b> , 26, 2353-236  Reduced output current ripple DC-DC buck converter control <b>2016</b> ,  Implementation of a \$6n pm 1\$ Repetitive Controller Subject to Fractional Delays. <i>IEEE</i>		26
101	A PWM method for single-phase cascade multilevel inverters to reduce leakage ground current in transformerless PV systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2016</b> , 26, 2353-236  Reduced output current ripple DC-DC buck converter control <b>2016</b> ,  Implementation of a \$6n pm 1\$ Repetitive Controller Subject to Fractional Delays. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 444-452		26 1 23
101 100 99 98	A PWM method for single-phase cascade multilevel inverters to reduce leakage ground current in transformerless PV systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2016</b> , 26, 2353-236  Reduced output current ripple DC-DC buck converter control <b>2016</b> ,  Implementation of a \$6n pm 1\$ Repetitive Controller Subject to Fractional Delays. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 444-452  A model-based controller for a DC-DC boost converter with an LCL input filter <b>2015</b> ,  Compensation of Variable Fractional Delays in the \$6kpm 1\$ Repetitive Controller. <i>IEEE</i>	8.9	26 1 23 5
101 100 99 98 97	A PWM method for single-phase cascade multilevel inverters to reduce leakage ground current in transformerless PV systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2016</b> , 26, 2353-236  Reduced output current ripple DC-DC buck converter control <b>2016</b> ,  Implementation of a \$6n pm 1\$ Repetitive Controller Subject to Fractional Delays. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 444-452  A model-based controller for a DC-DC boost converter with an LCL input filter <b>2015</b> ,  Compensation of Variable Fractional Delays in the \$6kpm 1\$ Repetitive Controller. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 6448-6456  A generalized model-based controller for the n-level CHB multilevel converter used as a shunt	8.9	26 1 23 5 11

## (2013-2015)

93	An improved current mode control of a three-phase rectifier based on positive-sequence detection <b>2015</b> ,		1
92	A model-based controller of a three-level stacked-cell grid connected converter 2015,		2
91	H5-HERIC based transformerless multilevel inverter for single-phase grid connected PV systems <b>2015</b> ,		18
90	Current control of a three-phase inverter grid connected through an LCL filter <b>2015</b> ,		1
89	A combined controller for a PV simulator <b>2014</b> ,		5
88	Direct Power Control of a Three-Phase Rectifier Based on Positive Sequence Detection. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4084-4092	8.9	26
87	Filters With Linear-Phase Properties for Repetitive Feedback. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 405-413	8.9	32
86	Comparative evaluation of L and LCL filters in transformerless grid tied converters for active power injection <b>2014</b> ,		7
85	Cascade three-phase PLL for unbalance and harmonic distortion operation (CSRF-PLL) 2014,		5
84	Multi-sampling maximum power point tracker (MS-MPPT) to compensate irradiation and temperature changes <b>2014</b> ,		3
83	A model-based controller for a single-phase active filter using a full bridge NPC 2014,		2
82	Transformerless single-phase multilevel inverter for grid tied photovoltaic systems 2014,		12
81	A current mode control for a single phase full bridge Power Factor Compensator 2014,		1
80	Inverter-side current control of a single-phase inverter grid connected trough an LCL filter <b>2014</b> ,		8
79	Model based controller for an LCL coupling filter for transformerless grid connected inverters in PV applications <b>2013</b> ,		9
78	A Comparative Performance Study of an Interleaved Boost Converter Using Commercial Si and SiC Diodes for PV Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 289-299	7.2	85
77	. IEEE Transactions on Industrial Electronics, <b>2013</b> , 60, 5019-5028	8.9	61
76	Implementation of repetitive controllers subject to fractional delays 2013,		5

75	A model-based controller for a half-bridge NPC used as an active power filter <b>2013</b> ,		3
74	Control of single-phase inverter connected to the grid through an LCL filter <b>2012</b> ,		7
73	Grid Synchronisation Based on Frequency-Locked Loop Schemes. <i>Advances in Industrial Control</i> , <b>2012</b> , 133-159	0.3	4
72	Adaptive PI Stabilisation of Switched Power Converters Described by Port-Hamiltonian Models. <i>Advances in Industrial Control</i> , <b>2012</b> , 355-388	0.3	3
71	Maximum power point searching method for partial shaded PV strings 2012,		14
70	. IEEE Transactions on Power Electronics, <b>2012</b> , 27, 2835-2845	7.2	80
69	A comparative performance study of an interleaved boost converter using commercialized Si and SiC diodes for PV applications <b>2011</b> ,		10
68	PV current sensorless MPPT for a single-phase PV inverter <b>2011</b> ,		8
67	Fixed-Reference-Frame Phase-Locked Loop for Grid Synchronization Under Unbalanced Operation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 1943-1951	8.9	67
66	Phase-locked loop for grid synchronization under unbalanced operation and harmonic distortion <b>2011</b> ,		9
65	Practical implementation of an interleaved boost converter using SiC diodes for PV applications <b>2011</b> ,		12
64	A direct power control for three-phase rectifier based on positive sequence detection <b>2011</b> ,		2
63	Performance evaluation of full SiC switching cell in an interleaved boost converter for PV applications <b>2011</b> ,		11
62	. IEEE Transactions on Control Systems Technology, <b>2010</b> , 18, 688-698	4.8	87
61	Robust adaptive PI stabilization of a quadratic converter: Experimental results 2010,		2
60	Modifications to repetitive-based controllers using FIR filters for practical implementation 2009,		5
59	An Adaptive Controller for the Shunt Active Filter Considering a Dynamic Load and the Line Impedance. <i>IEEE Transactions on Control Systems Technology</i> , <b>2009</b> , 17, 458-464	4.8	23
58	A model-based controller for a hybrid power filter to compensate harmonic distortion in unbalanced operation. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,		3

## (2007-2008)

57	A model-based controller for a three-phase four-leg shunt active filter with homopolar current compensation <b>2008</b> ,		2
56	A Repetitive-Based Controller for the Compensation of \$6ellpm 1\$ Harmonic Components. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 3150-3158	8.9	80
55	An adaptive controller for a shunt active filter considering load and line impedances 2008,		1
54	Practical modifications of a repetitive-based controller aimed to compensate $6 \pm 1$ harmonics <b>2008</b> ,		1
53	Fixed reference frame phase-locked loop (FRF-PLL) for unbalanced line voltage conditions. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,		7
52	A modified repetitive-based controller for an active filter to compensate harmonics 6k+/1. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,		6
51	On the passivity properties of a new family of repetitive (hyperbolic) controllers. <i>International Journal of Control</i> , <b>2008</b> , 81, 1424-1433	1.5	1
50	An adaptive direct power control for three-phase pwm rectifier in the unbalanced case. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,		7
49	Power factor compensation of a controlled rectifier with non-sinusoidal generator voltage using passive components <b>2008</b> ,		1
48	On ultimate boundedness around non-assignable equilibria of linear time-invariant systems. <i>Automatica</i> , <b>2008</b> , 44, 286-288	5.7	2
47	A Repetitive-Based Controller for a Power Factor Precompensator. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2007</b> , 54, 1968-1976	3.9	18
46	. IEEE Transactions on Industrial Electronics, <b>2007</b> , 54, 567-573	8.9	46
45	Repetitive-Based Controller for a UPS Inverter to Compensate Unbalance and Harmonic Distortion. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 504-510	8.9	176
44	A Model-Based Controller for A Three-Phase Four-Wire Shunt Active Filter With Compensation of the Neutral Line Current. <i>IEEE Transactions on Power Electronics</i> , <b>2007</b> , 22, 2261-2270	7.2	25
43	An Adaptive Control for UPS to Compensate Unbalance and Harmonic Distortion Using a Combined Capacitor/Load Current Sensing. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 839-847	8.9	104
42	A repetitive-based controller for the compensation of 6l $\oplus$ 1 harmonic components <b>2007</b> ,		4
41	A Model-Based Controller for the Cascade Multilevel Converter Used as a Shunt Active Filter. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007,		4
40	Digital Implementation Issues for a Three-Phase Power Converter Development Using a Repetitive Control Scheme <b>2007</b> ,		3

39	Power factor correction with an active filter using a repetitive controller 2006,		3
38	Optimized Direct Power Control Strategy using Output Regulation Subspaces and Pulse Width Modulation. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , <b>2006</b> ,		10
37	A repetitive-based controller for a single-phase shunt active filter 2006,		1
36	A model-based controller for a three-phase four-wire shunt active filter with compensation of the neutral line current <b>2006</b> ,		1
35	A Negative Feedback Repetitive Control Scheme for Harmonic Compensation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2006</b> , 53, 1383-1386	8.9	50
34	A repetitive-based controller in stationary reference frame for D-Statcom in unbalanced operation <b>2006</b> ,		2
33	A repetitive-based controller for the boost converter to compensate the harmonic distortion of the output Voltage. <i>IEEE Transactions on Control Systems Technology</i> , <b>2005</b> , 13, 500-508	4.8	32
32	. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, <b>2005</b> , 52, 466-470		18
31	A hybrid active filter implementation of an overvoltage suppression scheme 2004,		2
30	A controller for a boost converter with harmonic reduction. <i>IEEE Transactions on Control Systems Technology</i> , <b>2004</b> , 12, 717-726	4.8	15
29	An adaptive controller in stationary reference frame for D-statcom in unbalanced operation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2004</b> , 51, 401-409	8.9	82
28	A switching control strategy based on output regulation subspaces for the control of induction motors using a three-level inverter. <i>IEEE Power Electronics Letters</i> , <b>2003</b> , 1, 29-32		10
27	A family of switching control strategies for the reduction of torque ripple in DTC. <i>IEEE Transactions on Control Systems Technology</i> , <b>2003</b> , 11, 933-939	4.8	16
26	Dissipativity-based adaptive and robust control of UPS in unbalanced operation. <i>IEEE Transactions on Power Electronics</i> , <b>2003</b> , 18, 1056-1062	7.2	38
25	Analysis and design of direct power control (DPC) for a three phase synchronous rectifier via output regulation subspaces. <i>IEEE Transactions on Power Electronics</i> , <b>2003</b> , 18, 823-830	7.2	123
24	Interconnection and damping assignment passivity-based control of port-controlled Hamiltonian systems. <i>Automatica</i> , <b>2002</b> , 38, 585-596	5.7	935
23	. IEEE Transactions on Automatic Control, <b>2001</b> , 46, 1209-1222	5.9	43
22	Reactive power and imbalance compensation using STATCOM with dissipativity-based control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2001</b> , 9, 718-727	4.8	33

An adaptive passivity-based controller for a unity power factor rectifier. <i>IEEE Transactions on Control Systems Technology</i> , <b>2001</b> , 9, 637-644	4.8	95
Dissipativity-based adaptive and robust control of UPS. <i>IEEE Transactions on Industrial Electronics</i> , <b>2001</b> , 48, 334-343	8.9	19
A robustly stable output feedback saturated controller for the boost DC-to-DC converter. <i>Systems and Control Letters</i> , <b>2000</b> , 40, 1-8	2.4	83
Analysis and experimentation of nonlinear adaptive controllers for the series resonant converter. <i>IEEE Transactions on Power Electronics</i> , <b>2000</b> , 15, 536-544	7.2	36
Output-feedback global stabilization of a nonlinear benchmark system using a saturated passivity-based controller. <i>IEEE Transactions on Control Systems Technology</i> , <b>1999</b> , 7, 289-293	4.8	45
A Hamiltonian viewpoint in the modeling of switching power converters. <i>Automatica</i> , <b>1999</b> , 35, 445-452	2 5.7	153
An experimental comparison of several nonlinear controllers for power converters. <i>IEEE Control Systems</i> , <b>1999</b> , 19, 66-82	2.9	123
Regulation and tracking of the nonholonomic double integrator: A field-oriented control approach. <i>Automatica</i> , <b>1998</b> , 34, 125-131	5.7	38
To tune or not to tune?: A monitoring procedure to decide. <i>Automatica</i> , <b>1992</b> , 28, 179-184	5.7	3
A model-based controller for the cascade h-bridge multilevel converter used as a shunt active filter		5
A repetitive based controller for a shunt active filter to compensate for reactive power and harmonic distortion		5
A novel model-based controller for a three-phase four-wire shunt active filter		3
Control of a three level converter used as a synchronous rectifier		12
Modeling of a three level converter used in a synchronous rectifier application		13
An adaptive controller for a boost converter with harmonic reduction		3
An adaptive control for UPS to compensate unbalance and harmonic distortion using a combined capacitor/load current approach		3
A Repetitive-Based Controller for a Power Factor Precompensator With Harmonic Compensation		1
		4
	Control Systems Technology, 2001, 9, 637-644  Dissipativity-based adaptive and robust control of UPS. IEEE Transactions on Industrial Electronics, 2001, 48, 334-343  A robustly stable output feedback saturated controller for the boost DC-to-DC converter. Systems and Control Letters, 2000, 40, 1-8  Analysis and experimentation of nonlinear adaptive controllers for the series resonant converter. IEEE Transactions on Power Electronics, 2000, 15, 536-544  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  A Hamiltonian viewpoint in the modeling of switching power converters. Automatica, 1999, 35, 445-452  An experimental comparison of several nonlinear controllers for power converters. IEEE Control Systems, 1999, 19, 66-82  Regulation and tracking of the nonholonomic double integrator: A field-oriented control approach. Automatica, 1998, 34, 125-131  To tune or not to tune?: A monitoring procedure to decide. Automatica, 1992, 28, 179-184  A model-based controller for the cascade h-bridge multilevel converter used as a shunt active filter  A repetitive based controller for a shunt active filter to compensate for reactive power and harmonic distortion  A novel model-based controller for a three-phase four-wire shunt active filter  Control of a three level converter used as a synchronous rectifier  Modeling of a three level converter used in a synchronous rectifier application  An adaptive controller for a boost converter with harmonic reduction  An adaptive control for UPS to compensate unbalance and harmonic distortion using a combined capacitor/load current approach	Control Systems Technology, 2001, 9, 637-644  Dissipativity-based adaptive and robust control of UPS. IEEE Transactions on Industrial Electronics, 2001, 48, 334-343  A robustly stable output feedback saturated controller for the boost DC-to-DC converter. Systems and Control Letters, 2000, 40, 1-8  Analysis and experimentation of nonlinear adaptive controllers for the series resonant converter. IEEE Transactions on Power Electronics, 2000, 15, 536-544  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  4.8  A Hamiltonian viewpoint in the modeling of switching power converters. Automatica, 1999, 35, 445-452 57  An experimental comparison of several nonlinear controllers for power converters. IEEE Control Systems, 1999, 19, 66-82  Regulation and tracking of the nonholonomic double integrator: A field-oriented control approach. Automatica, 1998, 34, 125-131  To tune or not to tune?: A monitoring procedure to decide. Automatica, 1992, 28, 179-184  5.7  A model-based controller for the cascade h-bridge multilevel converter used as a shunt active filter  A repetitive based controller for a shunt active filter to compensate for reactive power and harmonic distortion  A novel model-based controller for a three-phase four-wire shunt active filter  Control of a three level converter used as a synchronous rectifier application  An adaptive controller for a boost converter with harmonic reduction  An adaptive control for UPS to compensate unbalance and harmonic distortion using a combined capacitor/load current approach

3 Passivity-based controller for harmonic compensation in distribution lines with nonlinear loads

2

Passivity-based controller for a three phase synchronous rectifier

2

Regulation and compensation of source harmonics for the boost converter-based power factor precompensator