

Xiongfei Wang

List of Publications by Citations

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342
papers

9,157
citations

48
h-index

86
g-index

423
ext. papers

12,948
ext. citations

5.7
avg, IF

7.32
L-index

#	Paper	IF	Citations
342	Modeling and Analysis of Harmonic Stability in an AC Power-Electronics-Based Power System. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6421-6432	7.2	452
341	Harmonic Stability in Power Electronic-Based Power Systems: Concept, Modeling, and Analysis. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2858-2870	10.7	358
340	Unified Impedance Model of Grid-Connected Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1775-1787	7.2	337
339	Passivity-Based Stability Assessment of Grid-Connected VSCs: An Overview. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 116-125	5.6	312
338	Virtual-Impedance-Based Control for Voltage-Source and Current-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 7019-7037	7.2	277
337	Distributed Power-Generation Systems and Protection. <i>Proceedings of the IEEE</i> , 2017 , 105, 1311-1331	14.3	229
336	Grid-Current-Feedback Active Damping for LCL Resonance in Grid-Connected Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 213-223	7.2	215
335	A Review of Passive Power Filters for Three-Phase Grid-Connected Voltage-Source Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 54-69	5.6	214
334	. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3318-3329	7.2	213
333	Virtual RC Damping of LCL-Filtered Voltage Source Converters With Extended Selective Harmonic Compensation. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4726-4737	7.2	168
332	Active Harmonic Filtering Using Current-Controlled, Grid-Connected DG Units With Closed-Loop Power Control. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 642-653	7.2	147
331	. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 452-461	4.3	146
330	Optimal Design of High-Order Passive-Damped Filters for Grid-Connected Applications. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2083-2098	7.2	140
329	An Improved Second-Order Generalized Integrator Based Quadrature Signal Generator. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 8068-8073	7.2	138
328	Couplings in Phase Domain Impedance Modeling of Grid-Connected Converters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 1-1	7.2	131
327	Highly Accurate Derivatives for LCL-Filtered Grid Converter With Capacitor Voltage Active Damping. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3612-3625	7.2	128
326	Harmonic Instability Assessment Using State-Space Modeling and Participation Analysis in Inverter-Fed Power Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 806-816	8.9	117

325	Grid-Current-Feedback Control for LCL-Filtered Grid Converters With Enhanced Stability. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3216-3228	7.2	113
324	Influences of Device and Circuit Mismatches on Paralleling Silicon Carbide MOSFETs. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 621-634	7.2	112
323	An Overview of Assessment Methods for Synchronization Stability of Grid-Connected Converters Under Severe Symmetrical Grid Faults. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9655-9670	7.2	109
322	Passivity-Based Stability Analysis and Damping Injection for Multiparalleled VSCs with LCL Filters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8922-8935	7.2	107
321	A Robust Passive Damping Method for LLCL-Filter-Based Grid-Tied Inverters to Minimize the Effect of Grid Harmonic Voltages. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3279-3289	7.2	107
320	Design-Oriented Transient Stability Analysis of PLL-Synchronized Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3573-3589	7.2	102
319	Transient Stability of Voltage-Source Converters With Grid-Forming Control: A Design-Oriented Study. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1019-1033	5.6	101
318	VSC Input-Admittance Modeling and Analysis Above the Nyquist Frequency for Passivity-Based Stability Assessment. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6362-6370	8.9	97
317	Design-Oriented Transient Stability Analysis of Grid-Connected Converters With Power Synchronization Control. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6473-6482	8.9	97
316	A Review of Power Electronics Based Microgrids. <i>Journal of Power Electronics</i> , 2012 , 12, 181-192	0.9	93
315	Grid-Synchronization Stability of Converter-Based Resources: An Overview. <i>IEEE Open Journal of Industry Applications</i> , 2020 , 1, 115-134	4.7	93
314	Resonance Interaction of Multiparallel Grid-Connected Inverters With LCL Filter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 894-899	7.2	90
313	On Stability of Voltage Source Inverters in Weak Grids. <i>IEEE Access</i> , 2018 , 6, 4427-4439	3.5	85
312	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4627-4642	7.2	76
311	An Estimator-Based Distributed Voltage-Predictive Control Strategy for AC Islanded Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3934-3951	7.2	73
310	Current Limiting Control With Enhanced Dynamics of Grid-Forming Converters During Fault Conditions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1062-1073	5.6	71
309	Stability Analysis and Controller Synthesis for Single-Loop Voltage-Controlled VSIs. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7394-7404	7.2	69
308	Impedance-Based Analysis of DC-Link Voltage Dynamics in Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3973-3985	7.2	66

307	Harmonic Stability Assessment for Multiparalleled, Grid-Connected Inverters. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1388-1397	8.2	66
306	Small-Signal Stability Analysis of Inverter-Fed Power Systems Using Component Connection Method. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 5301-5310	10.7	62
305	Harmonic Interaction Analysis in a Grid-Connected Converter Using Harmonic State-Space (HSS) Modeling. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6823-6835	7.2	61
304	Harmonic Stability and Resonance Analysis in Large PMSG-Based Wind Power Plants. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 12-23	8.2	61
303	Grid-Forming Converters: Control Approaches, Grid-Synchronization, and Future Trends A Review. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 2, 93-109	4.7	57
302	Impedance Analysis of SOGI-FLL-Based Grid Synchronization. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7409-7413	7.2	56
301	Adaptive Reactive Power Control of PV Power Plants for Improved Power Transfer Capability Under Ultra-Weak Grid Conditions. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1269-1279	10.7	54
300	A Novel DBC Layout for Current Imbalance Mitigation in SiC MOSFET Multichip Power Modules. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 8042-8045	7.2	53
299	A Series-LC-Filtered Active Damper With Grid Disturbance Rejection for AC Power-Electronics-Based Power Systems. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4037-4041	7.2	52
298	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3536-3548	7.2	50
297	Synthesis of Variable Harmonic Impedance in Inverter-Interfaced Distributed Generation Unit for Harmonic Damping Throughout a Distribution Network. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 1407-1417	4.3	50
296	Power electronics - the key technology for renewable energy system integration 2015 ,		49
295	Graphical Evaluation of Time-Delay Compensation Techniques for Digitally Controlled Converters. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2601-2614	7.2	48
294	LLCL-Filtered Grid Converter With Improved Stability and Robustness. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3958-3967	7.2	47
293	Voltage-Modulated Direct Power Control for a Weak Grid-Connected Voltage Source Inverters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11383-11395	7.2	45
292	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4643-4659	7.2	45
291	. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4188-4200	4.3	45
290	Control Strategy for Single-Phase Transformerless Three-Leg Unified Power Quality Conditioner Based on Space Vector Modulation. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2840-2849	7.2	44

289	Distributed Optimal Control of Reactive Power and Voltage in Islanded Microgrids. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 340-349	4.3	44
288	Control of Grid-Connected Voltage-Source Converters: The Relationship Between Direct-Power Control and Vector-Current Control. <i>IEEE Industrial Electronics Magazine</i> , 2019 , 13, 31-40	6.2	43
287	A Mode-Adaptive Power-Angle Control Method for Transient Stability Enhancement of Virtual Synchronous Generators. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1034-1049	5.6	42
286	Vector Current Control Derived from Direct Power Control for Grid-Connected Inverters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9224-9235	7.2	42
285	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1473-1483	7.2	41
284	Realization of Digital Differentiator Using Generalized Integrator For Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6520-6523	7.2	40
283	Impedance-Based Harmonic Instability Assessment in a Multiple Electric Trains and Traction Network Interaction System. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5083-5096	4.3	40
282	A review of passive filters for grid-connected voltage source converters 2014 ,		40
281	Impedance-Based Stability Analysis for Interconnected Converter Systems With Open-Loop RHP Poles. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4388-4397	7.2	39
280	High-Frequency Resonance Damping of DFIG-Based Wind Power System Under Weak Network. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1927-1940	7.2	38
279	Droop Control With Improved Disturbance Adaption for a PV System With Two Power Conversion Stages. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6073-6085	8.9	38
278	Influence of Paralleling Dies and Paralleling Half-Bridges on Transient Current Distribution in Multichip Power Modules. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6483-6487	7.2	38
277	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 838-847	8.9	36
276	An impedance-based stability analysis method for paralleled voltage source converters 2014 ,		36
275	Improved Power Decoupling Scheme for a Single-Phase Grid-Connected Differential Inverter With Realistic Mismatch in Storage Capacitances. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 186-199	7.2	35
274	Review of Small-Signal Modeling Methods Including Frequency-Coupling Dynamics of Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3313-3328	7.2	35
273	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8104-8117	7.2	34
272	Impedance-Based Stability Analysis of Voltage-Controlled MMCs Feeding Linear AC Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 4060-4074	5.6	34

271	Passivity Enhancement in Renewable Energy Source Based Power Plant With Paralleled Grid-Connected VSIs. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 3793-3802	4.3	33
270	Impedance Measurement of Traction Network and Electric Train for Stability Analysis in High-Speed Railways. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 10086-10100	7.2	33
269	Passivity Enhancement of Grid-Tied Converters by Series LC-Filtered Active Damper. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 369-379	8.9	31
268	Frequency-coupled admittance modelling of grid-connected voltage source converters for the stability evaluation of subsynchronous interaction. <i>IET Renewable Power Generation</i> , 2019 , 13, 285-295	2.9	30
267	Current Reference Generation Based on Next-Generation Grid Code Requirements of Grid-Tied Converters During Asymmetrical Faults. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3784-3797	5.6	30
266	A Highly Robust Single-Loop Current Control Scheme for Grid-Connected Inverter With an Improved LCCL Filter Configuration. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8474-8487	7.2	28
265	Sideband Harmonic Instability of Paralleled Inverters With Asynchronous Carriers. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4571-4577	7.2	28
264	Transient Stability Impact of the Phase-Locked Loop on Grid-Connected Voltage Source Converters 2018 ,		28
263	The influence of phase-locked loop on the stability of single-phase grid-connected inverter 2015 ,		27
262	Unified Modular State-Space Modeling of Grid-Connected Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9700-9715	7.2	27
261	SISO Transfer Functions for Stability Analysis of Grid-Connected Voltage-Source Converters. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2931-2941	4.3	26
260	Analysis of phase-locked loop influence on the stability of single-phase grid-connected inverter 2015 ,		26
259	Bus Participation Factor Analysis for Harmonic Instability in Power Electronics Based Power Systems. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 10341-10351	7.2	26
258	A Passivity-Based Stability Analysis of the Active Damping Technique in the Offshore Wind Farm Applications. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5074-5082	4.3	26
257	Dynamic Impact of Zero-Sequence Circulating Current on Modular Multilevel Converters: Complex-Valued AC Impedance Modeling and Analysis. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1947-1963	5.6	25
256	Accuracy Analysis of the Zero-Order Hold Model for Digital Pulse Width Modulation. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 10826-10834	7.2	24
255	Active Damping of LLCL-Filter Resonance Based on LC-Trap Voltage or Current Feedback. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2337-2346	7.2	23
254	A Practical Core Loss Model for Filter Inductors of Power Electronic Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 29-39	5.6	23

253	Distributed energy resources in grid interactive AC microgrids 2010 ,		23
252	A Robust DC-Split-Capacitor Power Decoupling Scheme for Single-Phase Converter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8419-8433	7.2	22
251	A Grid-Voltage-Sensorless Resistive-Active Power Filter With Series LC-Filter. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4429-4440	7.2	22
250	Principle and Robust Impedance-Based Design of Grid-tied Inverter with LLCL-Filter under Wide Variation of Grid-Reactance. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4362-4374	7.2	22
249	Improved DC-Link Voltage Regulation Strategy for Grid-Connected Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4977-4987	8.9	22
248	Resonance analysis in parallel voltage-controlled Distributed Generation inverters 2013 ,		21
247	AC Impedance Modeling of Modular Multilevel Converters and Two-Level Voltage-Source Converters: Similarities and Differences 2018 ,		21
246	Frequency-Domain Modeling and Simulation of DC Power Electronic Systems Using Harmonic State Space Method. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1044-1055	7.2	20
245	Complex-Valued Multifrequency Admittance Model of Three-Phase VSCs in Unbalanced Grids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1934-1946	5.6	20
244	Analysis and Active Damping of Multiple High Frequency Resonances in DFIG System. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 369-381	5.4	20
243	Modeling of VSC-Based Power Systems in the Extended Harmonic Domain. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5907-5916	7.2	19
242	An Efficient Reduced-Order Model for Studying Synchronization Stability of Grid-Following Converters during Grid Faults 2019 ,		19
241	Stationary-Frame Complex-Valued Frequency-Domain Modeling of Three-Phase Power Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1922-1933	5.6	19
240	An Enhanced Dual Droop Control Scheme for Resilient Active Power Sharing Among Paralleled Two-Stage Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6091-6104	7.2	19
239	A unified impedance model of voltage-source converters with phase-locked loop effect 2016 ,		19
238	A Comprehensive Design Approach of Power Electronic-Based Distributed Generation Units Focused on Power-Quality Improvement. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 942-950	4.3	18
237	Effects of Auxiliary-Source Connections in Multichip Power Module. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7816-7823	7.2	18
236	Doubly Fed Induction Generator System Resonance Active Damping Through Stator Virtual Impedance. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 125-137	8.9	18

235	Systematic Approach for Transient Stability Evaluation of Grid-Tied Converters during Power System Faults 2019 ,		18
234	Impact Analysis and Mitigation of Synchronization Dynamics for DQ Impedance Measurement. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8797-8807	7.2	18
233	Linearized Modeling Methods of ACDC Converters for an Accurate Frequency Response. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1526-1541	5.6	17
232	Passivity-Based Analysis and Design of Linear Voltage Controllers For Voltage-Source Converters. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 114-126	3.6	17
231	Grid Synchronization With Selective Harmonic Detection Based on Generalized Delayed Signal Superposition. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 3938-3949	7.2	17
230	Multisampling Method for Single-Phase Grid-Connected Cascaded H-Bridge Inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8322-8334	8.9	17
229	Suppression of synchronous resonance for VSGs. <i>Journal of Engineering</i> , 2017 , 2017, 2574-2579	0.7	16
228	Analysis and design of grid-current-feedback active damping for LCL resonance in grid-connected voltage source converters 2014 ,		16
227	Control of grid interactive AC microgrids 2010 ,		16
226	Grid-forming converters: an overview of control approaches and future trends 2020 ,		16
225	Transient angle stability analysis of grid-connected converters with the first-order active power loop 2018 ,		16
224	A unified active damping control for single-phase differential mode buck inverter with LCL-filter 2015 ,		15
223	Proportional derivative based stabilizing control of paralleled grid converters with cables in renewable power plants 2014 ,		15
222	DQ-Frame Impedance Measurement of Three-Phase Converters Using Time-Domain MIMO Parametric Identification. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2131-2142	7.2	15
221	An active damper to suppress multiple resonances with unknown frequencies 2014 ,		14
220	Secondary voltage control for harmonics suppression in islanded microgrids 2011 ,		14
219	Transient Stability of Single-Loop Voltage-Magnitude Controlled Grid-Forming Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 6158-6162	7.2	14
218	Passivation of Current-Controlled Grid-Connected VSCs Using Passivity Indices. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8971-8980	8.9	14

217	Interaction and aggregated modeling of multiple paralleled inverters with LCL filter 2015,		13
216	Comparative evaluation of passive damping topologies for parallel grid-connected converters with LCL filters 2014,		13
215	A centralized control architecture for harmonic voltage suppression in islanded microgrids 2011,		13
214	Physics-Based Modeling of Parasitic Capacitance in Medium-Voltage Filter Inductors. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 829-843	7.2	13
213	An Adaptive Phase-Locked Loop for the Transient Stability Enhancement of Grid-Connected Voltage Source Converters 2018,		13
212	Microstructure characterization and HCF Fracture mode transition for modified 9Cr-1Mo dissimilarly welded joint at different elevated temperatures. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 1610-1620	9.1	12
211	An analysis method for harmonic resonance and stability of multi-paralleled LCL-filtered inverters 2015,		12
210	Reducing Harmonic Instability and Resonance Problems in PMSG-Based Wind Farms. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 73-83	5.6	12
209	Power decoupling with autonomous reference generation for single-phase differential inverters 2015,		12
208	An improved design of virtual output impedance loop for droop-controlled parallel three-phase voltage source inverters 2012,		12
207	Evaluation of Voltage Regulators for Dual-Loop Control of Voltage-Controlled VSCs 2019,		12
206	Reduced-Order and Aggregated Modeling of Large-Signal Synchronization Stability for Multiconverter Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3150-3165	5.6	12
205	A Universal Controller for Grid-Connected Voltage-Source Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 5761-5770	5.6	12
204	The Impact of PLL Dynamics on the Low Inertia Power Grid: A Case Study of Bonaire Island Power System. <i>Energies</i> , 2019 , 12, 1259	3.1	11
203	A Carrier Synchronization Method for Global Synchronous Pulsewidth Modulation Application Using Phase-Locked Loop. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10720-10732	7.2	11
202	Harmonic interaction analysis in grid connected converter using Harmonic State Space (HSS) modeling 2015,		11
201	Regional modeling approach for analyzing harmonic stability in radial power electronics based power system 2015,		11
200	High-performance feedback-type active damping of LCL-filtered voltage source converters 2015,		11

199	Design of Multifrequency Proportional Resonant Current Controllers for Voltage-Source Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13573-13589	7.2	11
198	Real-time impedance-based stability assessment of grid converter interactions 2017 ,		11
197	Sub-Synchronous Control Interaction in Grid-Forming VSCs with Droop Control 2019 ,		11
196	Modeling and identification of harmonic instability problems in wind farms 2016 ,		11
195	Artificial Neural Network Based Identification of Multi-Operating-Point Impedance Model. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1231-1235	7.2	11
194	Asymmetric Complex-Vector Models With Application to VSC Grid Interaction. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1911-1921	5.6	10
193	Low-Complexity Model Predictive Control of Single-Phase Three-Level Rectifiers With Unbalanced Load. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8936-8947	7.2	10
192	Upregulation of Neuronal Adenosine A1 Receptor in Human Rasmussen Encephalitis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2017 , 76, 720-731	3.1	10
191	Modeling of Converter Synchronization Stability under Grid Faults: The General Case. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	10
190	Virtual-Flux-Based Passivation of Current Control for Grid-Connected VSCs. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12673-12677	7.2	9
189	Harmonic Analysis and Mitigation of Low-Frequency Switching Voltage Source Inverter With Auxiliary VSI. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1355-1365	5.6	9
188	Efficient approach for harmonic resonance identification of large Wind Power Plants 2016 ,		9
187	Harmonic stability assessment for multi-paralleled, grid-connected inverters 2014 ,		9
186	Transient Stability Impact of Reactive Power Control on Grid-Connected Converters 2019 ,		9
185	Real-Time Calculation Method for Single-Phase Cascaded H-Bridge Inverters Based on Phase-Shifted Carrier Pulsewidth Modulation. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 977-987	7.2	9
184	General Rules of Using Bode Plots for Impedance-Based Stability Analysis 2018 ,		9
183	Comparative Effectiveness of Stereotactic Electroencephalography Versus Subdural Grids in Epilepsy Surgery. <i>Annals of Neurology</i> , 2021 , 90, 927-939	9.4	9
182	Rethinking Current Controller Design for PLL-Synchronized VSCs in Weak Grids. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	9

181	Power decoupling method for single phase differential buck converter 2015,		8
180	Improved delayed signal cancellation-based SRF-PLL for unbalanced grid 2017,		8
179	SiC MOSFETs based split output half bridge inverter: Current commutation mechanism and efficiency analysis 2014,		8
178	Stability Analysis and Active Damping for LLCL-Filter-Based Grid-Connected Inverters. <i>IEEJ Journal of Industry Applications</i> , 2015 , 4, 187-195	0.7	8
177	A laboratory grid simulator based on three-phase four-leg inverter: Design and implementation 2011,		8
176	A Current Limiting Method for Single-Loop Voltage-Magnitude Controlled Grid-Forming Converters During Symmetrical Faults. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	8
175	Multitask Fuzzy Secondary Controller for AC Microgrid Operating in Stand-Alone and Grid-Tied Mode. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5640-5649	10.7	8
174	Two-Port Network Modeling and Stability Analysis of Grid-Connected Current-Controlled VSCs. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3519-3529	7.2	8
173	Aliasing Suppression of Multi-sampled Current Controlled LCL-Filtered Inverters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	8
172	An Active Trap Filter for Switching Harmonic Attenuation of Low-Pulse-Ratio Inverters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 9078-9092	7.2	7
171	Passivity-based design of passive damping for LCL-filtered voltage source converters 2015,		7
170	2016,		7
169	Evaluation of core loss in magnetic materials employed in utility grid AC filters 2016,		7
168	Harmonic current control for LCL-filtered VSCs connected to ultra-weak grids 2017,		7
167	A Numerical Matrix-Based Method for Stability and Power Quality Studies Based on Harmonic Transfer Functions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1542-1552 ^{5.6}		7
166	Resonant-inductor-voltage-feedback active damping based control for grid-connected inverters with LLCL-filters 2014,		7
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164	PLL Synchronization Stability Analysis of MMC-Connected Wind Farms Under High-Impedance AC Faults. <i>IEEE Transactions on Power Systems</i> , 2020 , 1-1	7	7

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162	Grid Synchronization of Wind Turbines during Severe Symmetrical Faults with Phase Jumps 2018 ,		7
161	Active damping of LLCL-filter resonance based on LC-trap voltage and capacitor current feedback 2015 ,		6
160	Robust Admittance Shaping Approach to Grid Current Harmonic Attenuation and Resonance Damping. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5039-5053	4.3	6
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155	Transient Stability Analysis of Droop-Controlled Grid-Connected Converters With Inertia Emulating Low-Pass Filters 2019 ,		6
154	Control Interaction Modeling and Analysis of Grid-Forming Battery Energy Storage System for Offshore Wind Power Plant. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	6
153	Influence of Reactive Power Flow on the DC-Link Voltage Control in Voltage-Source Converters 2018 ,		6
152	Parasitic Capacitance Modeling of Copper-Foiled Medium-Voltage Filter Inductors Considering Fringe Electrical Field. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8181-8192	7.2	6
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148	Thermal Characterization of Silicon Carbide MOSFET Module Suitable for High-Temperature Computationally Efficient Thermal-Profile Prediction. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	5
147	Multi-objective optimization of large wind farm parameters for harmonic instability and resonance conditions 2016 ,		5
146	Harmonic compensation capability-based coordinated control for hybrid wind farms under distorted grid voltage conditions. <i>IET Renewable Power Generation</i> , 2019 , 13, 1603-1614	2.9	5

145	A hybrid damping method for LLCL-filter based grid-tied inverter with a digital filter and an RC parallel passive damper 2013 ,		5
144	Harmonic stability analysis of offshore wind farm with component connection method 2017 ,		5
143	Harmonic instability analysis of single-phase grid connected converter using Harmonic State Space (HSS) modeling method 2015 ,		5
142	An active damper for stabilizing power electronics-based AC systems 2013 ,		5
141	A DQ-Frame Asymmetrical Virtual Impedance Control for Enhancing Transient Stability of Grid-Forming Inverters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
140	Line Voltage Sensorless Control of Grid-Connected Inverters Using Multisampling. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
139	Loop-at-a-Time Stability Analysis for Grid-Connected Voltage-Source Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	5
138	Interaction admittance based modeling of multi-paralleled grid-connected inverter with LCL-filter 2016 ,		5
137	State-space-based harmonic stability analysis for paralleled grid-connected inverters 2016 ,		5
136	Analysis of harmonics suppression by active damping control on multi slim dc-link drives 2016 ,		5
135	Distributed optimal control of reactive power and voltage in islanded microgrids 2016 ,		5
134	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2792-2799	4.3	5
133	Generic PLL-Based Grid-Forming Control. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
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131	Impact of Synchronization Phase Dynamics on DQ Impedance Measurement 2018 ,		5
130	Complex-Vector PLL for Enhanced Synchronization with Weak Power Grids 2018 ,		5
129	Distributed Privacy-Preserving Active Power Sharing and Frequency Regulation in Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3665-3668	10.7	5
128	Reliability Assessment of Hybrid Capacitor Bank Using Electrolytic- and Film-Capacitors in Three-Level Neutral-Point-Clamped Inverters 2019 ,		4

127	Harmonic Transfer-Function Model of Three-Phase Synchronous Reference Frame PLL under Unbalanced Grid Conditions 2019 ,		4
126	Voltage Stability and Transient Symmetrical Fault Current Control of Voltage-Controlled MMCs. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 2506-2516	4-3	4
125	Small signal modeling of wind farms 2017 ,		4
124	Anti-epileptic effect of ifenprodil on neocortical pyramidal neurons in patients with malformations of cortical development. <i>Experimental and Therapeutic Medicine</i> , 2017 , 14, 5757-5766	2.1	4
123	Comparison of LTI and LTP models for stability analysis of grid converters 2016 ,		4
122	Design-oriented analysis of resonance damping and harmonic compensation for LCL-filtered voltage source converters 2014 ,		4
121	Frequency scanning-based stability analysis method for grid-connected inverter system 2017 ,		4
120	Harmonic resonance assessment of multiple paralleled grid-connected inverters system 2017 ,		4
119	Investigation of the sideband effect for the LCL-type grid-connected inverter with high LCL resonance frequency 2017 ,		4
118	Passivity enhancement of grid-tied converter by series LC-filtered active damper 2015 ,		4
117	Eigenvalue-based harmonic stability analysis method in inverter-fed power systems 2015 ,		4
116	The modeling and harmonic coupling analysis of multiple-parallel connected inverter using Harmonic State Space (HSS) 2015 ,		4
115	New optimal design method for trap damping sections in grid-connected LCL filters 2014 ,		4
114	Effects of auxiliary source connections in multichip power module 2016 ,		4
113	Four new applications of Second-Order Generalized Integrator Quadrature Signal Generator 2016 ,		4
112	Long-term efficacy and cognitive effects of bilateral hippocampal deep brain stimulation in patients with drug-resistant temporal lobe epilepsy. <i>Neurological Sciences</i> , 2021 , 42, 225-233	3-5	4
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109	Benchmarking of small-signal dynamics of single-phase PLLs 2015 ,		3
108	Identification of the DQ Impedance Model for Three-Phase Power Converter Considering the Coupling Effect of the Grid Impedance 2019 ,		3
107	Comparative analysis of the selective resonant LCL and LCL plus trap filters 2014 ,		3
106	An improved current control scheme for grid-connected DG unit based distribution system harmonic compensation 2013 ,		3
105	Adaptive reactive power control of PV power plants for improved power transfer capability under ultra-weak grid conditions 2017 ,		3
104	Active DaMPing control methods for three-phase slim DC-link drive system 2017 ,		3
103	Kalman-Filter-Based State Estimation for System Information Exchange in a Multi-bus Islanded Microgrid 2014 ,		3
102	Autonomous control of inverter-interfaced Distributed Generation units for harmonic current filtering and resonance damping in an islanded microgrid 2012 ,		3
101	Small-Signal Modeling and Controller Parameters Tuning of Grid-Forming VSCs with Adaptive Virtual Impedance-Based Current Limitation. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
100	Near-Synchronous Resonance Interaction of Paralleled Grid-forming Converters in Islanded Operation 2019 ,		3
99	Predictors and Long-term Outcome of Resective Epilepsy Surgery in Patients with Tuberous Sclerosis Complex: A Single-centre Retrospective Cohort Study. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2021 , 88, 45-52	3.2	3
98	Harmonic stability analysis of inverter-fed power systems using Component Connection Method 2016 ,		3
97	Passivity Analysis and Enhancement of Voltage Control for Voltage-Source Converters 2019 ,		3
96	Behavioral Modeling and Analysis of Ground Current in Medium-Voltage Inductors. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1236-1241	7.2	3
95	Frequency-Domain Modal Analysis for Power-Electronic-Based Power Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 4910-4914	7.2	3
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93	A Temperature-dependent Thermal Model of Silicon Carbide MOSFET Module for Long-term Reliability Assessment 2018 ,		3
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91	Model-Based Control Design of Series Resonant Converter Based on the Discrete Time Domain Modelling Approach for DC Wind Turbine. <i>Journal of Renewable Energy</i> , 2018 , 2018, 1-18	1.4	3
90	SISO Transfer Functions for Stability Analysis of Grid-Connected Voltage-Source Converters 2018 ,		3
89	Passivity-Based Dual-Loop Vector Voltage and Current Control for Grid-Forming VSCs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8647-8652	7.2	3
88	Power Dynamic Decoupling Control of Grid-Forming Converter in Stiff Grid. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	3
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86	Harmonic analysis and mitigation of low-frequency switching voltage source inverter with series LC filtered VSI 2017 ,		2
85	Accurate Open-Loop Impedance Model of Single-Phase Voltage Source Inverter (VSI) Considering the Dead-Time Effects 2019 ,		2
84	Impact of Nonlinear Dynamics on Converter DQ Impedance Measurement 2019 ,		2
83	Robust Fault Ride Through of Converter-Based Generation During Severe Faults With Phase Jumps. <i>IEEE Transactions on Industry Applications</i> , 2019 , 1-1	4.3	2
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81	Modeling and simulation of DC power electronics systems using Harmonic State Space (HSS) method 2015 ,		2
80	An active trap filter for high-power voltage source converters 2015 ,		2
79	A unified grid current control for grid-interactive DG inverters in microgrids 2015 ,		2
78	Reflection Coefficient Stability Criterion for Multi-Bus Multi-VSC Power Systems. <i>IEEE Access</i> , 2020 , 8, 111186-111199	3.5	2
77	The role of adenosine A1 receptor agonist in adenosine augmentation therapy for patients with refractory epilepsy in Sturge-Weber syndrome: An in vitro electrophysiological study. <i>Epilepsy and Behavior</i> , 2020 , 106, 107034	3.2	2
76	Real-time calculation method for single-phase multilevel converters based on phase-shifted carrier pulsewidth modulation 2018 ,		2
75	Impedance based analysis and design of harmonic resonant controller for a wide range of grid impedance 2014 ,		2
74	Stability analysis of direct current control in current source rectifier 2017 ,		2

73	Dynamic resonance sensitivity analysis in wind farms 2017 ,		2
72	Comparative analysis about dynamic performances of grid synchronization schemes 2017 ,		2
71	A grid-voltage-sensorless resistive active power filter with series LC-filter 2017 ,		2
70	Harmonic instability source identification in large wind farms 2017 ,		2
69	Analysis of harmonic coupling and stability in back-to-back converter systems for wind turbines using Harmonic State Space (HSS) 2015 ,		2
68	Influence of modulation method on using LC-traps with single-phase voltage source inverters 2015 ,		2
67	LC filter design for wide band gap device based adjustable speed drives 2014 ,		2
66	Multi-Frequency State-Space Model of MMC-HVDC System for Design-Oriented Stability Analysis 2020 ,		2
65	Vagus nerve stimulation for drug-resistant epilepsy induced by tuberous sclerosis complex. <i>Epilepsy and Behavior</i> , 2021 , 126, 108431	3.2	2
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63	MMC Admittance Model Simplification Based on Signal-Flow Graph. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	2
62	Multisampling Control of Two-Cell Interleaved Three-phase Grid-connected Converters 2021 ,		2
61	Extended stable boundary of LCL-filtered grid-connected inverter based on an improved grid-voltage feedforward control 2016 ,		2
60	Analysis and comparison of high frequency resonance in small and large scale DFIG system 2016 ,		2
59	Fuzzy secondary controller for autonomous stand-alone and grid-connected AC microgrid 2016 ,		2
58	Robust power decoupling control scheme for DC side split decoupling capacitor circuit with mismatched capacitance in single phase system 2016 ,		2
57	Passivity enhancement in RES based power plant with paralleled grid-connected inverters 2016 ,		2
56	Small-signal model of a decoupled double synchronous reference frame current controller 2016 ,		2

55	Modeling and Design of a 1.2 pF Common-Mode Capacitance Transformer for Powering MV SiC MOSFETs Gate Drivers 2019 ,		2
54	Parametric Identification of DQ Impedance Model for Three-Phase Voltage-Source Converters 2018 ,		2
53	Investigation on the AC/DC Interactions in Voltage-Source Rectifiers and Current-Source Rectifiers 2018 ,		2
52	Interactions Between Two Phase-Locked Loop Synchronized Grid Converters. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3935-3947	4.3	2
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50	Admittance-Dissipativity Analysis and Shaping of Dual-Sequence Current Control for VSCs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	2
49	Physical Insight Into Hybrid-Synchronization-Controlled Grid-Forming Inverters Under Large Disturbances. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
48	A review of multi-sampling techniques in power electronics applications. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
47	Equivalent Circuit Model of Grid-Forming Converters With Circular Current Limiter for Transient Stability Analysis. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	2
46	A robust grid current controller with grid harmonic and filter resonance damping capabilities using a closed-loop admittance shaping 2017 ,		1
45	Globus Pallidus Internus Electric High-Frequency Stimulation Modulates Dopaminergic Activity in the Striatum of a Rat Model of Tourette Syndrome. <i>World Neurosurgery</i> , 2019 , 127, e881-e887	2.1	1
44	2015 ,		1
43	Stabilization of multiple unstable modes for small-scale inverter-based power systems with impedance-based stability analysis 2015 ,		1
42	LC-filter resonance cancellation with DPWM inverters in adjustable speed drives 2015 ,		1
41	Three-phase multiple harmonic sequence detection based on Generalized Delayed Signal Superposition 2016 ,		1
40	Stability Analysis of Multi-Paralleled VSCs with Mismatched Parameters 2019 ,		1
39	Enhanced stability of capacitor-current feedback active damping for LCL-filtered grid converters 2015 ,		1
38	Synthesis of variable harmonic impedance in inverter-interfaced distributed generation unit for harmonic damping throughout a distribution network 2012 ,		1

37	Scalable State-Space Model of Voltage Source Converter for Low-Frequency Stability Analysis 2020 ,		1
36	A Voltage-Droop-free Reactive Power Sharing Solution in Microgrids 2020 ,		1
35	Passivity-Based Harmonic Stability Analysis of Voltage Source Converters Considering the Impact of Sequence Decomposition Algorithms 2020 ,		1
34	Multisampling based Grid Impedance Estimation for Two-Cell Interleaved Three-phase Inverters 2021 ,		1
33	Multisampling Control of LCL-type Grid-connected Inverter with an Improved Repetitive Filter 2020 ,		1
32	Transient Performance Evaluation of Grid-forming Control for Railway Traction Converters Considering Inter-Phase Operation 2021 ,		1
31	EMI Filter Robustness in Three-Level Active Neutral-Point-Clamped Inverter. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 4641-4657	7.2	1
30	Current Harmonic Analysis of Multisampled LCLType Grid-connected Inverter 2020 ,		1
29	State-feedback-based Low-Frequency Active Damping for VSC Operating in Weak-Grid Conditions 2020 ,		1
28	Switching Harmonics Suppression of Single-loop Multi-sampling Control of Grid-connected Inverter 2020 ,		1
27	Long-term efficacy and cognitive effects of voltage-based deep brain stimulation for drug-resistant essential tremor. <i>Clinical Neurology and Neurosurgery</i> , 2020 , 194, 105940	2	1
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24	A Heteromodal Word-Meaning Binding Site in the Visual Word Form Area under Top-Down Frontoparietal Control. <i>Journal of Neuroscience</i> , 2021 , 41, 3854-3869	6.6	1
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21	A novel DBC layout for current imbalance mitigation in SiC MOSFET multichip power modules 2016 ,		1
20	Stability analysis and controller synthesis for digital single-loop voltage-controlled inverters 2016 ,		1

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18	Parasitic Capacitance Modeling of Inductors Without Using the Floating Voltage Potential of Core. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
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11	Wireless Control of Modular Multilevel Converter Submodules With Communication Errors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
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3	Stability and robustness improvement of power converters 2021 , 303-337		
2	Harmonic Susceptibility Study of DC Collection Network Based on Frequency Scan and Discrete Time-Domain Modelling Approach. <i>Journal of Electrical and Computer Engineering</i> , 2018 , 2018, 1-25	1.9	

- 1 Physics Informed Neural Network based Online Impedance Identification of Voltage Source Converters. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1 8.9