Majid Mehrasa

List of Publications by Year
in descending order

55 papers	1,115 citations	471509 17 h-index	501196 28 g-index
55 all docs	55 docs citations	55 times ranked	721 citing authors

#	Article	IF	Citations
1	Dynamic Model, Control and Stability Analysis of MMC in HVDC Transmission Systems. IEEE Transactions on Power Delivery, 2017, 32, 1471-1482.	4.3	99
2	Control technique for enhancing the stable operation of distributed generation units within a microgrid. Energy Conversion and Management, 2015, 97, 362-373.	9.2	60
3	A control plan for the stable operation of microgrids during grid-connected and islanded modes. Electric Power Systems Research, 2015, 129, 10-22.	3.6	54
4	A Back-Stepping Control Method for Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 443-453.	7.9	51
5	Passivity-based control technique for integration of DG resources into the power grid. International Journal of Electrical Power and Energy Systems, 2014, 58, 281-290.	5.5	47
6	Floating Weighting Factors ANN-MPC Based on Lyapunov Stability for Seven-Level Modified PUC Active Rectifier. IEEE Transactions on Industrial Electronics, 2022, 69, 387-398.	7.9	47
7	A multi-loop control technique for the stable operation of modular multilevel converters in HVDC transmission systems. International Journal of Electrical Power and Energy Systems, 2018, 96, 194-207.	5.5	45
8	Multilevel converter control approach of active power filter forÂharmonics elimination in electric grids. Energy, 2015, 84, 722-731.	8.8	43
9	Supervised Learning Model Predictive Control Trained by ABC Algorithm for Common-Mode Voltage Suppression in NPC Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3446-3456.	5.4	41
10	Direct Lyapunov Control Technique for the Stable Operation of Multilevel Converter-Based Distributed Generation in Power Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 931-941.	5.4	37
11	Optimized Based Algorithm First Order Sliding Mode Control for Grid-Connected Packed E-Cell (PEC) Inverter. , 2019, , .		36
12	Control technique for the operation of grid-tied converters with high penetration of renewable energy resources. Electric Power Systems Research, 2019, 166, 18-28.	3.6	36
13	An Inputâ€"Output Feedback Linearization Control Method Synthesized by Artificial Neural Network for Grid-Tied Packed E-Cell Inverter. IEEE Transactions on Industry Applications, 2021, 57, 3131-3142.	4.9	34
14	Functionâ€based modulation control for modular multilevel converters under varying loading and parameters conditions. IET Generation, Transmission and Distribution, 2017, 11, 3222-3230.	2.5	32
15	A control strategy for the stable operation of shunt active power filters in power grids. Energy, 2016, 96, 325-334.	8.8	30
16	Control of power electronics-based synchronous generator for the integration of renewable energies into the power grid. International Journal of Electrical Power and Energy Systems, 2019, 111, 300-314.	5.5	30
17	Lyapunov Based Neural Network Estimator Designed for Grid-Tied Nine-Level Packed E-Cell Inverter. , 2020, , .		29
18	Passivity ANFIS-Based Control for an Intelligent Compact Multilevel Converter. IEEE Transactions on Industrial Informatics, 2021, 17, 5141-5151.	11.3	28

#	Article	IF	Citations
19	Low Frequency Finite Set Model Predictive Control for Seven-Level Modified Packed U-Cell Rectifier. , 2019, , .		26
20	A Droop Based-Control Strategy of Stand-Alone Single-Phase Converters for Microgrid Applications. , 2018, , .		21
21	A Novel Modulation Function-Based Control of Modular Multilevel Converters for High Voltage Direct Current Transmission Systems. Energies, 2016, 9, 867.	3.1	19
22	DQ-Based Radial Basis Function Controller for Single-Phase PEC9 Inverter. , 2020, , .		19
23	Power Sharing Management of a PEC9-based Microgrid by Feedback-Feedforward Control Strategy. , 2020, , .		19
24	Synchronous Resonant Control Technique to Address Power Grid Instability Problems Due to High Renewables Penetration. Energies, 2018, 11, 2469.	3.1	17
25	Low Switching Frequency Operation of PEC9 Multilevel Inverter Using Modified SHM-PWM. , 2020, , .		17
26	Power management using robust control strategy in hybrid microgrid for both grid-connected and islanding modes. Journal of Energy Storage, 2021, 39, 102600.	8.1	17
27	Distributed energy storage systemâ€based nonlinear control strategy for hybrid microgrid power management included wind/PV units in gridâ€connected operation. International Transactions on Electrical Energy Systems, 2020, 30, e12237.	1.9	16
28	Passivity-based control with dual lagrangian model of four-wire three-level three-phase NPC voltage-source rectifier. , 2009, , .		15
29	A New Dual Lagrangian Model and Input/Output Feedback Linearization Control of 3-Phase/Level NPC Voltage-Source Rectifier. Automatika, 2014, 55, 99-111.	2.0	15
30	Packed E-Cell Converter-based STATCOM for Supporting Grid Stability. , 2020, , .		14
31	Linearized control technique with Lyapunov function-based compensators for MMC-based HVDC system under load variation and fault condition. International Journal of Electrical Power and Energy Systems, 2021, 124, 106333.	5.5	12
32	Analysis and control of single-phase converters for integration of small-scaled renewable energy sources into the power grid. , 2016, , .		11
33	DC-Link Voltage Stability-Based Control Strategy for Grid-Connected Hybrid AC/DC Microgrid. , 2020, , .		11
34	Virtual Inertia and Mechanical Power-Based Control Strategy to Provide Stable Grid Operation under High Renewables Penetration. Applied Sciences (Switzerland), 2019, 9, 1043.	2.5	10
35	Simple 1D-SVM Technique for single-phase Nine-level Packed E-Cell (PEC9) Inverter. , 2020, , .		8
36	A Novel Reference Current Detection Algorithm (RCDA) in 9-Level PEC Converter-based Shunt Active Power Filter. , 2021, , .		8

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37	Decoupled dq Current Control of Grid-Tied Packed E-Cell Inverters in Vehicle-to-Grid Technologies. IEEE Transactions on Industrial Electronics, 2023, 70, 1356-1366.	7.9	8
38	Lyapunov theory-based control strategy for multi-terminal MMC-HVDC systems. International Journal of Electrical Power and Energy Systems, 2021, 129, 106778.	5.5	7
39	An Intelligent Linearization Control Method for Grid-Tied Packed E-Cell Inverter under Load Variations and Parameters Mismatch. , 2021, , .		6
40	Feedbackâ€"feedforward control technique with a comprehensive mathematical analysis for singleâ€input dualâ€output threeâ€level dcâ€dc converter. IET Power Electronics, 2020, 13, 4685-4694.	2.1	5
41	Power Management of a Smart Vehicle-to-Grid (V2G) System Using Fuzzy Logic Approach. , 2021, , .		5
42	A Robust Fractional-Order Control Technique for Stable Performance of Multilevel Converter-Based Grid-Tied DG Units. IEEE Transactions on Industrial Electronics, 2022, 69, 10192-10201.	7.9	5
43	A new single-phase single-switch PWM three-level high power factor rectifier with separate regulation of output capacitors voltage. , 2009, , .		4
44	Limiting discharge cycles numbers for plug-in electric vehicles in bidirectional smart charging algorithm. , 2021, , .		4
45	Power Quality Improvement with a Pulse Width Modulation Control Method in Modular Multilevel Converters under Varying Nonlinear Loads. Applied Sciences (Switzerland), 2020, 10, 3292.	2.5	3
46	Direct Active and Reactive Power Control for Grid-Connected PEC9 Inverter Using Finite Control Set Model Predictive Method. , 2021, , .		3
47	A nine-level PEC based Active Power Filter With Double-Frequency Oscillation Cancellation (DFOC) Ability In Reference Current Detection. , 2021, , .		2
48	Grid Integration of an Enhanced Packed E-Cell Inverter for Renewable Energy Applications. , 2021, , .		2
49	Novel Switched-Capacitor Compact Multilevel Converter Based on Packed E-Cell Design with Fault Tolerant Operation. , 2021, , .		2
50	An Adaptive Fuzzy Passivity-based Control Strategy for Grid-Tied Packed E-Cell Converter. , 2021, , .		1
51	Circuit Reconfiguration of Packed E-Cell Multilevel Inverter for Renewable Energy Applications. , 2021, , .		1
52	Convex Optimization-based Vector Current Control Design for Grid-connected Packed E-Cell Inverters. , 2021, , .		1
53	Fault Operating Condition of Modular Multilevel Converter-Based HVDC Using Lyapunov Method Compensators. , 2020, , .		1
54	A Novel asymmetric multilevel inverter topology based on PEC9 using a hybrid PWM modulation. , 2021, , .		1

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55	Large-Scale Grid Integration of Renewable Energy Resources with a Double Synchronous Controller. Applied Sciences (Switzerland), 2019, 9, 5548.	2.5	0