Baoming Ge

List of Publications by Year
in descending order

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106 papers	4,188 citations	126907 33 h-index	161849 54 g-index
111 all docs	111 docs citations	111 times ranked	2211 citing authors

#	Article	IF	Citations
1	Dual, Three-Level, Quasi-Z-Source, Indirect Matrix Converter for Motors With Open-Ended Windings. IEEE Transactions on Energy Conversion, 2023, 38, 64-74.	5.2	5
2	Interactive Grid Interfacing System by Matrix-Converter-Based Solid State Transformer With Model Predictive Control. IEEE Transactions on Industrial Informatics, 2020, 16, 2533-2541.	11.3	36
3	Quasiâ€Zsource indirect matrix converterâ€fed induction motor drive. IET Electric Power Applications, 2020, 14, 797-808.	1.8	2
4	Modeling and analysis of LC filter integrated quasiâ€Z source indirect matrix converter. International Journal of Circuit Theory and Applications, 2020, 48, 567-586.	2.0	5
5	A Simple Space Vector Modulation of High-Frequency AC Linked Three-Phase-to-Single-Phase/DC Converter. IEEE Access, 2020, 8, 59278-59289.	4.2	10
6	Common Mode Voltage Reduction of Single-Phase Quasi-Z-Source Inverter-Based Photovoltaic System. IEEE Access, 2019, 7, 154572-154580.	4.2	11
7	Night operation, analysis, and control of singleâ€phase quasiâ€Zâ€source photovoltaic power system. IET Renewable Power Generation, 2019, 13, 2817-2829.	3.1	7
8	Optimum Boost Control of Quasi-Z Source Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2018, 65, 8393-8404.	7.9	17
9	Direct Instantaneous Ripple Power Predictive Control for Active Ripple Decoupling of Single-Phase Inverter. IEEE Transactions on Industrial Electronics, 2018, 65, 3165-3175.	7.9	44
10	Quasi-Z-Source Three-to-Single-Phase Matrix Converter and Ripple Power Compensation Based on Model Predictive Control. IEEE Transactions on Industrial Electronics, 2018, 65, 5146-5156.	7.9	15
11	Double-Line-Frequency Ripple Model, Analysis, and Impedance Design for Energy-Stored Single-Phase Quasi-Z-Source Photovoltaic System. IEEE Transactions on Industrial Electronics, 2018, 65, 3198-3209.	7.9	39
12	State-of-Charge Balancing Control for a Battery-Energy-Stored Quasi-Z-Source Cascaded-Multilevel-Inverter-Based Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2018, 65, 2268-2279.	7.9	85
13	General Space Vector Modulation of A High-Frequency AC Linked Universal Converter for Distributed Generations. , 2018, , .		1
14	Single-Phase Z-Source/Quasi-Z-Source Inverters and Converters: An Overview of Double-Line-Frequency Power-Decoupling Methods and Perspectives. IEEE Industrial Electronics Magazine, 2018, 12, 6-23.	2.6	98
15	DC-Link Voltage Balance Control Strategy Based on Multidimensional Modulation Technique for Quasi-Z-Source Cascaded Multilevel Inverter Photovoltaic Power System. IEEE Transactions on Industrial Informatics, 2018, 14, 4905-4915.	11.3	37
16	A model predictive control for low-frequency ripple power elimination of active power filter integrated single-phase quasi-Z-source inverter. , 2017, , .		10
17	Pulse width amplitude modulation based single-phase quasi-Z-source photovoltaic inverter with energy storage battery. , 2017, , .		9
18	Improved Radial Force Modeling and Rotor Suspension Dynamics Simulation Studies for Double-winding Bearingless Switched Reluctance Motor. Electric Power Components and Systems, 2017, 45, 111-120.	1.8	6

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19	Front-End Isolated Quasi-Z-Source DCâ€“DC Converter Modules in Series for High-Power Photovoltaic Systemsâ€”Part I: Configuration, Operation, and Evaluation. IEEE Transactions on Industrial Electronics, 2017, 64, 347-358.	7.9	71
20	Front-End Isolated Quasi-Z-Source DCâ€“DC Converter Modules in Series for High-Power Photovoltaic Systemsâ€”Part II: Control, Dynamic Model, and Downscaled Verification. IEEE Transactions on Industrial Electronics, 2017, 64, 359-368.	7.9	30
21	Capacitance, dc Voltage Utilizaton, and Current Stress: Comparison of Double-Line Frequency Ripple Power Decoupling for Single-Phase Systems. IEEE Industrial Electronics Magazine, 2017, 11, 37-49.	2.6	62
22	Investigation on pulseâ€width amplitude modulationâ€based singleâ€phase quasiâ€Zâ€source photovoltaic inverter. IET Power Electronics, 2017, 10, 1810-1818.	2.1	16
23	Overview of double-line-frequency power decoupling techniques for single-phase Z-Source/Quasi-Z-Source inverter. , 2017, , .		10
24	Comparison of SiC and GaN devices for front-end isolation of quasi-Z-source cascaded multilevel photovoltaic inverter. , 2016, , .		5
25	Comparison of GaN and SiC power devices in application to MW-scale quasi-Z-source cascaded multilevel inverters. , 2016, , .		11
26	Modeling, analysis, and impedance design of battery energy stored single-phase quasi-Z source photovoltaic inverter system. , 2016, , .		13
27	Model predictive control of a matrix-converter based solid state transformer for utility grid interaction. , 2016, , .		9
28	Dual buck based power decoupling circuit for single phase inverter/rectifier. , 2016, , .		5
29	An active power decoupling quasi-Z-source cascaded multilevel inverter. , 2016, , .		16
30	Current Ripple Damping Control to Minimize Impedance Network for Single-Phase Quasi-Z Source Inverter System. IEEE Transactions on Industrial Informatics, 2016, 12, 1043-1054.	11.3	86
31	An Active Filter Method to Eliminate DC-Side Low-Frequency Power for Single-Phase Quasi-Z Source Inverter. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	55
32	Modeling, Analysis, and Parameters Design of LC-Filter-Integrated Quasi-Z -Source Indirect Matrix Converter. IEEE Transactions on Power Electronics, 2016, 31, 7544-7555.	7.9	35
33	1-MW quasi-Z-source based multilevel PV energy conversion system. , 2016, , .		25
34	Hybrid Pulsewidth Modulated Single-Phase Quasi-Z-Source Grid-Tie Photovoltaic Power System. IEEE Transactions on Industrial Informatics, 2016, 12, 621-632.	11.3	90
35	Common mode voltage reduction of quasiâ€Z source indirect matrix converter. International Journal of Circuit Theory and Applications, 2016, 44, 162-184.	2.0	14
36	SiC power devices and applications in quasi-z-source converters/inverters. , 2015, , .		8

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37	An active filter method to eliminate dc-side low-frequency power for single-phase quasi-Z source inverter. , 2015, , .		15
38	Comprehensive Modeling of Single-Phase Quasi-Z-Source Photovoltaic Inverter to Investigate Low-Frequency Voltage and Current Ripple. IEEE Transactions on Industrial Electronics, 2015, 62, 4194-4202.	7.9	97
39	An Energy Stored Quasi-Z-Source Cascade Multilevel Inverter-Based Photovoltaic Power Generation System. IEEE Transactions on Industrial Electronics, 2015, 62, 5458-5467.	7.9	141
40	Hybrid pulsewidth modulated single-phase quasi-Z-source grid-tie Photovoltaic power system. , 2015, , .		3
41	Minimized Quasi-Z source network for single-phase inverter. , 2015, , .		11
42	State-of-charge balancing control for battery energy stored quasi-Z source cascaded multilevel inverter based photovoltaic power system. , 2015, , .		5
43	Simplified quasiâ€Z source indirect matrix converter. International Journal of Circuit Theory and Applications, 2015, 43, 1775-1793.	2.0	6
44	A Quasi-Z-Source Direct Matrix Converter Feeding a Vector Controlled Induction Motor Drive. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 339-348.	5.4	55
45	Comparative Evaluation of Three Z-Source/Quasi-Z-Source Indirect Matrix Converters. IEEE Transactions on Industrial Electronics, 2015, 62, 692-701.	7.9	54
46	A novel quasiâ€Zâ€source indirect matrix converter. International Journal of Circuit Theory and Applications, 2015, 43, 438-454.	2.0	23
47	Z-Source/Quasi-Z-Source Inverters: Derived Networks, Modulations, Controls, and Emerging Applications to Photovoltaic Conversion. IEEE Industrial Electronics Magazine, 2014, 8, 32-44.	2.6	178
48	Comprehensive modeling of single-phase quasi-Z-source photovoltaic inverter to investigate low-frequency voltage and current ripples. , 2014, , .		5
49	An Effective Control Method for Quasi-Z-Source Cascade Multilevel Inverter-Based Grid-Tie Single-Phase Photovoltaic Power System. IEEE Transactions on Industrial Informatics, 2014, 10, 399-407.	11.3	154
50	Resonance Issues and Damping Techniques for Grid-Connected Inverters With Long Transmission Cable. IEEE Transactions on Power Electronics, 2014, 29, 110-120.	7.9	167
51	Overview of Space Vector Modulations for Three-Phase Z-Source/Quasi-Z-Source Inverters. IEEE Transactions on Power Electronics, 2014, 29, 2098-2108.	7.9	188
52	An Effective Control Method for Three-Phase Quasi-Z-Source Cascaded Multilevel Inverter Based Grid-Tie Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2014, 61, 6794-6802.	7.9	97
53	Modeling, Impedance Design, and Efficiency Analysis of Quasi- <inline-formula> <tex-math notation="TeX">Z</tex-math></inline-formula> Source Module in Cascaded Multilevel Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2014, 61, 6108-6117.	7.9	185
54	An effective control method for quasi-Z-source cascade multilevel three-phase grid-tie photovoltaic power system. , 2014, , .		6

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55	Multiphase-Leg Coupling Current Balancer for Parallel Operation of Multiple MW Power Modules. IEEE Transactions on Industrial Electronics, 2014, 61, 1147-1157.	7.9	38
56	Novel Energy Stored Single-Stage Photovoltaic Power System With Constant DC-Link Peak Voltage. IEEE Transactions on Sustainable Energy, 2014, 5, 28-36.	8.8	83
57	Modelling and controller design of quasiâ€Zâ€source inverter with batteryâ€based photovoltaic power system. IET Power Electronics, 2014, 7, 1665-1674.	2.1	59
58	Radial Force Analytic Modeling for a Novel Bearingless Switched Reluctance Motor When Considering Rotor Eccentricity. Electric Power Components and Systems, 2014, 42, 544-553.	1.8	18
59	Modelling and controller design of quasiâ€Zâ€source cascaded multilevel inverterâ€based threeâ€phase gridâ€tie photovoltaic power system. IET Renewable Power Generation, 2014, 8, 925-936.	3.1	38
60	Impedance design of 21-kW quasi-Z-source H-bridge module for MW-scale medium-voltage cascaded multilevel photovoltaic inverter. , 2014, , .		11
61	Phaseâ€shifted pulseâ€widthâ€amplitude modulation for quasiâ€Zâ€source cascade multilevel inverterâ€based photovoltaic power system. IET Power Electronics, 2014, 7, 1444-1456.	2.1	75
62	Current balancer-based grid-connected parallel inverters for high power wind-power system. International Transactions on Electrical Energy Systems, 2014, 24, 108-124.	1.9	10
63	A modular multilevel space vector modulation for photovoltaic quasi-Z-source cascade multilevel inverter. , 2013, , .		25
64	Impedance design of quasi-Z source network to limit double fundamental frequency voltage and current ripples in single-phase quasi-Z source inverter. , 2013, , .		28
65	Nine IGBTs based UPFC topology and control for renewable power integration. , 2013, , .		6
66	Theoretical and experimental evaluation of four spaceâ€vector modulations applied to quasiâ€•Z â€source inverters. IET Power Electronics, 2013, 6, 1257-1269.	2.1	36
67	Analysis and control of quasi-Z source inverter with battery for grid-connected PV system. International Journal of Electrical Power and Energy Systems, 2013, 46, 234-240.	5.5	74
68	Winding Design, Modeling, and Control for Pole-Phase Modulation Induction Motors. IEEE Transactions on Magnetics, 2013, 49, 898-911.	2.1	63
69	Control System Design of Battery-Assisted Quasi-Z-Source Inverter for Grid-Tie Photovoltaic Power Generation. IEEE Transactions on Sustainable Energy, 2013, 4, 994-1001.	8.8	118
70	Energy storage system-based power control for grid-connected wind power farm. International Journal of Electrical Power and Energy Systems, 2013, 44, 115-122.	5.5	68
71	A compact nX DC-DC converter for photovoltaic power systems. , 2013, , .		22
72	1.5MVA grid-connected interleaved inverters using coupled inductors for wind power generation system. , 2013, , .		15

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73	A novel indirect quasi-Z-source matrix converter applied to induction motor drives. , 2013, , .		17
74	An Energy-Stored Quasi-Z-Source Inverter for Application to Photovoltaic Power System. IEEE Transactions on Industrial Electronics, 2013, 60, 4468-4481.	7.9	249
75	Modeling, analysis, and motor drive application of quasi-Z-source indirect matrix converter. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 33, 298-319.	0.9	16
76	Current balancer for parallel operation of multiple MW power modules. , 2013, , .		0
77	Auto-tuning based resonance damping of grid-connected voltage source inverters with long transmission cable. , 2013, , .		2
78	Analysis of space vector modulations for three-phase Z-Source / quasi-Z-source inverter. , 2012, , .		0
79	A novel bearingless switched reluctance motor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1681-1695.	0.9	8
80	A Family of Z-Source Matrix Converters. IEEE Transactions on Industrial Electronics, 2012, 59, 35-46.	7.9	123
81	Modeling and controller design of quasi-Z-Source inverter with battery based photovoltaic power system. , 2012, , .		11
82	A new grid-connected PV system based on cascaded H-bridge quasi-Z source inverter. , 2012, , .		32
83	Pulse-Width-Amplitude-Modulated voltage-fed quasi-Z-source direct matrix converter with maximum constant boost. , 2012, , .		25
84	Digital control issue of high speed switched reluctance motor. , 2012, , .		2
85	An improved MPPT method for quasi-Z-source inverter based grid-connected photovoltaic power system. , 2012, , .		4
86	Reliability, efficiency, and cost comparisons of MW-scale photovoltaic inverters. , 2012, , .		55
87	Minimizing DC capacitance requirement of cascadeded H-bridge multilevel inverters for photovoltaic systems by 3rd harmonic injection. , 2012, , .		4
88	Quasi-Z-source matrix converter based induction motor drives. , 2012, , .		3
89	Transverse-flux linear switched reluctance motor for semi-magnetic suspending rail vehicle. , 2011, , .		4
90	An effective power electronic transformer applied to distribution system. , 2011, , .		12

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91	Practical control implementation for 100 kVA three-phase four-wire online voltage regulator. , 2011, , .		1
92	Hybrid PWM control for Z-source matrix converter. , 2011, , .		5
93	Control strategy of grid-connected photovoltaic system with energy storage. , 2011, , .		6
94	Quasi-Z source inverter with battery based PV power generation system. , 2011, , .		10
95	Quasi-Z-Source inverter based PMSG wind power generation system. , 2011, , .		36
96	An effective PV power generation control system using quasi-Z source inverter with battery. , 2011, , .		13
97	Power flow control for quasi-Z source inverter with battery based PV power generation system. , 2011, , .		31
98	Modeling and SVPWM control of quasi-Z-source inverter. , 2011, , .		50
99	Transient modeling of current-fed quasi-Z-source inverter. , 2011, , .		7
100	Modeling and analysis of closed-loop gate drive. , 2010, , .		12
101	Winding design for pole-phase modulation of induction machines. , 2010, , .		21
102	An Effective Control Technique for Medium-Voltage High-Power Induction Motor Fed by Cascaded Neutral-Point-Clamped Inverter. IEEE Transactions on Industrial Electronics, 2010, 57, 2659-2668.	7.9	61
103	Energy storage based LVRT and stabilizing power control for direct-drive wind power system. , 2010, , .		14
104	Grid-connected wind farm power control using VRB-based energy storage system. , 2010, , .		30
105	An Effective SPWM Control Technique for 1MVA 6000V Cascaded Neutral Point Clamped Inverter. , 2008, , .		3
106	Estimation of primary current in saturated current transformer using flexible neural network. Transactions of the Institute of Measurement and Control, 2006, 28, 81-91.	1.7	9