

# Sai Tang

## List of Publications by Year in descending order

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22  
papers

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1684188  
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22  
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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Model Predictive Control Using Artificial Neural Network for Power Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 3689-3699.	7.9	71
2	Detection and Identification of Power Device Failures Using Discrete Fourier Transform for Fault-Tolerant Operation of Flying Capacitor Multilevel Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5081-5091.	5.4	1
3	Vector Analysis Based Multiobjective-Modulated Model Predictive Control for Four-Switching-State Multilevel Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 12999-13010.	7.9	4
4	Detection and Identification of Power Switch Failures Using Discrete Fourier Transform for DC-DC Flying Capacitor Buck Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4062-4071.	5.4	15
5	Detection of Power Switch Failures Using Discrete Fourier Transform for DC-DC Flying Capacitor Multilevel Converters. , 2020, , .		2
6	Coordinated Two-Stage Operation and Control for Minimizing Energy Storage Capacitors in Cascaded Boost-Buck PFC Converters. IEEE Access, 2020, 8, 191286-191297.	4.2	10
7	A Simplified Modulated Model Predictive Control for Direct Matrix Converter. , 2020, , .		1
8	A New PFC Design With Interleaved MHz-Frequency GaN Auxiliary Active Filter Phase and Low-Frequency Base Power Si Phase. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 557-566.	5.4	18
9	Modulated Model Predictive Control Based on Voltage-Error Vector Analysis for Direct Matrix Converter. , 2020, , .		2
10	Flying Capacitor Voltages Estimation in Flying Capacitor Multilevel DC-DC Converters Based on Peak Inductor Current Detection and Output Voltage Measurement. , 2020, , .		5
11	Diagnosis of Power Device Failures Using Discrete Fourier Transform for DC-AC Flying Capacitor Multilevel Converters. , 2020, , .		1
12	Model Predictive Control Based on State-Space Averaging Model for Three-Level Flying Capacitor Boost Converter with Constant Switching Frequency and Improved Dynamic Performance. , 2020, , .		5
13	5-Level Flying Capacitor Bridgeless PFC Converter Using Cost-Effective Low-Voltage GaN Transistors. , 2019, , .		5
14	A Modulated Model Predictive Control Method Based on Vector Analysis for Four-State Multilevel Converters. , 2019, , .		3
15	WBG Partial Power Processing: A New PFC Design with Interleaved MHz-Frequency GaN and Low-Frequency Si Phases. , 2019, , .		4
16	A Deep Neural Network Based Predictive Control Strategy for High Frequency Multilevel Converters. , 2018, , .		7
17	A New Energy Management Method for High Power Density Boost Cascaded Buck-Boost PFC Converter. , 2018, , .		3
18	Detection and Identification of Power Switch Failures Using Discrete Fourier Transform for Fault-Tolerant Operation of Flying Capacitor Multilevel Converters. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	A New Proportional Base Drive Technique for SiC Bipolar Junction Transistor. IEEE Transactions on Power Electronics, 2017, 32, 4600-4606.	7.9	14
20	Commutation strategies for single-chip dual-gate bidirectional IGBTs in matrix converters. , 2016, , .		1
21	Applicability of single-chip dual-gate bidirectional IGBTs in matrix converters. , 2016, , .		0
22	A new proportional base driver technique for SiC bipolar junction transistor. , 2015, , .		2