

# Saban S Ozdemir

## List of Publications by Year in descending order

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47  
papers

1,401  
citations

567281

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47  
docs citations

47  
times ranked

1147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lyapunov-Function and Proportional-Resonant-Based Control Strategy for Single-Phase Grid-Connected VSI With LCL Filter. IEEE Transactions on Industrial Electronics, 2016, 63, 2838-2849.	7.9	176
2	An Extended Lyapunov-Function-Based Control Strategy for Single-Phase UPS Inverters. IEEE Transactions on Power Electronics, 2015, 30, 3976-3983.	7.9	159
3	Sliding-Mode Control for Single-Phase Grid-Connected $\frac{LCL}{Filtered}$ VSI With Double-Band Hysteresis Scheme. IEEE Transactions on Industrial Electronics, 2016, 63, 864-873.	7.9	143
4	Fuzzy PI controlled inverter for grid interactive renewable energy systems. IET Renewable Power Generation, 2015, 9, 729-738.	3.1	96
5	Single stage three level grid interactive MPPT inverter for PV systems. Energy Conversion and Management, 2014, 80, 561-572.	9.2	89
6	Three-phase three-level grid interactive inverter with fuzzy logic based maximum power point tracking controller. Energy Conversion and Management, 2013, 69, 17-26.	9.2	84
7	Fuzzy logic based MPPT controller for high conversion ratio quadratic boost converter. International Journal of Hydrogen Energy, 2017, 42, 17748-17759.	7.1	76
8	Sliding-Mode Control in Natural Frame With Reduced Number of Sensors for Three-Phase Grid-Tied $\frac{LCL}{Interfaced}$ Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 2903-2913.	7.9	73
9	Design and Development of a High-Frequency Multiport Solid-State Transformer With Decoupled Control Scheme. IEEE Transactions on Industry Applications, 2019, 55, 7515-7526.	4.9	49
10	An Enhanced Lyapunov-Function Based Control Scheme for Three-Phase Grid-Tied VSI With LCL Filter. IEEE Transactions on Sustainable Energy, 2019, 10, 504-513.	8.8	45
11	Comparative study on Lyapunov-based control schemes for single-phase grid-connected voltage source inverter with LCL filter. IET Renewable Power Generation, 2017, 11, 1473-1482.	3.1	44
12	Z-source T-type inverter for renewable energy systems with proportional resonant controller. International Journal of Hydrogen Energy, 2016, 41, 12591-12602.	7.1	37
13	Design and performance analysis of the three-level isolated DC-DC converter with the nanocrystalline core transformer. International Journal of Hydrogen Energy, 2017, 42, 17801-17812.	7.1	24
14	Design and Implementation of a LLC Resonant Solid State Transformer. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	22
15	Two-stage grid-connected inverter for PV systems. , 2018, , .		21
16	PV Supplied Single Stage MPPT Inverter for Induction Motor Actuated Ventilation Systems. Elektronika Ir Elektrotechnika, 2014, 20, .	0.8	21
17	Experimental study of interleaved MPPT converter for PV systems. , 2009, , .		17
18	A Novel Solar PV Inverter Topology Based on an LLC Resonant Converter. , 2019, , .		16

#	ARTICLE	IF	CITATIONS
19	Multifunctional interleaved boost converter for PV systems. , 2010, , .		15
20	Three-phase three-level T-type grid-connected inverter with reduced number of switches. , 2018, , .		14
21	dSPACE based control of voltage source utility interactive inverter. , 2008, , .		13
22	Three-phase multilevel grid interactive inverter for PV systems with reactive power support capability. , 2015, , .		13
23	A High Power High Frequency Transformer Design for Solid State Transformer Applications. , 2019, , .		13
24	Sliding Mode Control of Three-Phase Three-Level Two-Leg NPC Inverter with LCL Filter for Distributed Generation Systems. , 2018, , .		11
25	Super twisting sliding mode control of three-phase grid-tied neutral point clamped inverters. ISA Transactions, 2022, 125, 547-559.	5.7	11
26	A Novel Topology for Solar PV Inverter Based on an LLC Resonant Converter With Optimal Frequency and Phase-Shift Control. IEEE Transactions on Industry Applications, 2022, 58, 5042-5054.	4.9	11
27	Design and Implementation of a Medium Voltage, High Power, High Frequency Four-Port Transformer. , 2020, , .		10
28	Development of a Medium Voltage, High Power, High Frequency Four-Port Solid State Transformer. CES Transactions on Electrical Machines and Systems, 2022, 6, 95-104.	3.5	10
29	Neural Modeling of Fuzzy Controllers for Maximum Power Point Tracking in Photovoltaic Energy Systems. Journal of Electronic Materials, 2018, 47, 4519-4532.	2.2	9
30	A Complete Design of a High Frequency Medium Voltage Multi-Port Transformer. , 2019, , .		9
31	Comprehensive analysis of inductors for an interleaved buck converter. , 2012, , .		8
32	Sliding-mode and proportional-resonant based control strategy for three-phase grid-connected LCL-filtered VSI. , 2016, , .		7
33	A modified Lyapunov-function based control strategy for three-phase grid-connected VSI with LCL filter. , 2016, , .		7
34	Three-phase three-level inverter with reduced number of switches for stand-alone PV systems. , 2017, , .		7
35	Review of Standards on Insulation Coordination for Medium Voltage Power Converters. IEEE Open Journal of Power Electronics, 2021, 2, 236-249.	5.7	7
36	A three-level MPPT capability rectifier for high power direct drive WECS. , 2012, , .		6

#	ARTICLE	IF	CITATIONS
37	Sliding-Mode and Proportional-Resonant Based Control Strategy for Three-Phase Two-Leg T - Type Grid-Connected Inverters with LCL Filter. , 2018, , .		6
38	A Decoupled Control Scheme of Four-Port Solid State Transformer. , 2019, , .		6
39	Design and loss analysis of LCL filter inductors for two-level and three-level inverters. , 2017, , .		5
40	Second-Order Sliding Mode Control of Three-Phase Three-Level Grid-Connected Neutral Point Clamped Inverters. , 2021, , .		3
41	A comparison of single and three phase DC/DC converter structures for battery charging. , 2013, , .		2
42	Three-phase three-level inverter based shunt active power filter. , 2014, , .		2
43	A Modified Lyapunov-Function Based Control Scheme for Three-Phase Three-Level Two-Leg Grid-Tied NPC Inverter. , 2019, , .		2
44	Maximum Power Point Tracking Algorithms for Partial Shaded PV Systems. Lecture Notes in Energy, 2017, , 261-292.	0.3	1
45	An analysis on cooling requirements of the high power medium frequency inductors. , 2018, , .		1
46	A Modified Lyapunov-Function Based Control Scheme for Two-Leg Three-Level T-Type Grid-Tied Inverter with LCL Filter. , 2019, , .		0
47	Erratum to "Design and Development of a High-Frequency Multiport Solid-State Transformer With Decoupled Control Scheme" IEEE Transactions on Industry Applications, 2020, 56, 898-898.	4.9	0