

Sanjay K Chaudhary

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1826692/publications.pdf>

Version: 2024-02-01

55
papers

1,340
citations

759233

12
h-index

794594

19
g-index

56
all docs

56
docs citations

56
times ranked

1452
citing authors

#	ARTICLE	IF	CITATIONS
1	Sizing of an Energy Storage System for Grid Inertial Response and Primary Frequency Reserve. IEEE Transactions on Power Systems, 2016, 31, 3447-3456.	6.5	286
2	Power Flow Analysis for Low-Voltage AC and DC Microgrids Considering Droop Control and Virtual Impedance. IEEE Transactions on Smart Grid, 2017, 8, 2754-2764.	9.0	146
3	Economic Dispatch for Operating Cost Minimization Under Real-Time Pricing in Droop-Controlled DC Microgrid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 587-595.	5.4	104
4	Negative Sequence Current Control in Wind Power Plants With VSC-HVDC Connection. IEEE Transactions on Sustainable Energy, 2012, 3, 535-544.	8.8	94
5	Enhancing the Capacity of the AC Distribution System Using DC Interlinks – A Step Toward Future DC Grid. IEEE Transactions on Smart Grid, 2015, 6, 1722-1729.	9.0	88
6	Chopper controlled resistors in VSC-HVDC transmission for WPP with full-scale converters. , 2009, , .		51
7	Improving the Reactive Current Compensation Capability of Cascaded H-Bridge Based STATCOM Under Unbalanced Grid Voltage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1466-1476.	5.4	44
8	Wind Farm Grid Integration Using VSC Based HVDC Transmission - An Overview. , 2008, , .		43
9	Grid inertial response with Lithium-ion battery energy storage systems. , 2014, , .		39
10	Modular multi-level converter based HVDC system for grid connection of offshore wind power plant. , 2010, , .		38
11	Machine Learning Emulation of Model Predictive Control for Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 11628-11634.	7.9	30
12	Power flow analysis for droop controlled LV hybrid AC-DC microgrids with virtual impedance. , 2014, , .		25
13	A Novel Submodule Voltage Balancing Scheme for Modular Multilevel Cascade Converter – Double-Star Chopper-Cells (MMCC-DSCC) Based STATCOM. IEEE Access, 2019, 7, 83058-83073.	4.2	25
14	Benchmarking of Modular Multilevel Converter Topologies for ES-STATCOM Realization. Energies, 2020, 13, 3384.	3.1	24
15	High Performance Simulation Models for ES-STATCOM Based on Modular Multilevel Converters. IEEE Transactions on Energy Conversion, 2020, 35, 474-483.	5.2	24
16	Power flow analysis algorithm for islanded LV microgrids including distributed generator units with droop control and virtual impedance loop. , 2014, , .		22
17	A Reference-Feedforward-Based Damping Method for Virtual Synchronous Generator Control. IEEE Transactions on Power Electronics, 2022, 37, 7566-7571.	7.9	22
18	An adaptive overcurrent protection in smart distribution grid. , 2015, , .		21

#	ARTICLE	IF	CITATIONS
19	Machine Learning Based Operating Region Extension of Modular Multilevel Converters Under Unbalanced Grid Faults. IEEE Transactions on Industrial Electronics, 2021, 68, 4554-4560.	7.9	20
20	Control of transformerless MMC-HVDC during asymmetric grid faults. , 2013, , .		19
21	Operation cost minimization of droop-controlled DC microgrids based on real-time pricing and optimal power flow. , 2015, , .		17
22	Capacitor voltage ripple reduction and arm energy balancing in MMC-HVDC. , 2016, , .		14
23	Control and operation of wind turbine converters during faults in an offshore wind power plant grid with VSC-HVDC connection. , 2011, , .		12
24	Improved post-fault operation strategy for a cascaded H-bridge based STATCOM. IET Power Electronics, 2020, 13, 2413-2423.	2.1	12
25	Primary frequency regulation supported by battery storage systems in power system dominated by renewable energy sources. Journal of Engineering, 2019, 2019, 4986-4990.	1.1	11
26	Modeling and Mitigation Control of the Submodule-Capacitor Voltage Ripple of a Modular Multilevel Converter under Unbalanced Grid Conditions. Energies, 2021, 14, 651.	3.1	11
27	Internal Balance during Low-Voltage-Ride-Through of the Modular Multilevel Converter STATCOM. Energies, 2017, 10, 935.	3.1	10
28	Power flow analysis for DC voltage droop controlled DC microgrids. , 2014, , .		9
29	Hosting capacity of solar photovoltaics in distribution grids under different pricing schemes. , 2015, , .		7
30	Staphylococcal bullous impetigo in a neonate. World Journal of Clinical Cases, 2016, 4, 191.	0.8	7
31	Black Start Service from Offshore Wind Power Plant using IBESS. , 2021, , .		7
32	Distribution system augmented by DC links for increasing the hosting capacity of PV generation. , 2012, , .		6
33	A Comparison of Fixed-Parameter Active-Power-Oscillation Damping Solutions for Virtual Synchronous Generators. , 2021, , .		6
34	Grid code requirements "A case study on the assessment for integration of offshore wind power plants in Turkey. Sustainable Energy Technologies and Assessments, 2022, 52, 102137.	2.7	6
35	Development of field data logger for recording mission profile of power converters. , 2015, , .		5
36	Capacitor Voltage Ripple Reduction Methods of Modular Multilevel Converter under Unbalanced Fault Conditions: A Comparison. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
37	Participation of flexible loads in load frequency control to support high wind penetration. , 2016, , .		4
38	Challenges with harmonic compensation at a remote bus in offshore wind power plant. , 2016, , .		4
39	Effect of energy storage in increasing the penetration of RES in the remote island of Agios Efstratios. , 2012, , .		3
40	Islanded Operation of Offshore Wind Power Plant using IBESS. , 2021, , .		3
41	Control of SiC based front-end rectifier under unbalanced supply voltage. , 2015, , .		2
42	Design of reactive power regulator of synchronous generators by considering grid impedance angle for characteristic index objectives. IET Generation, Transmission and Distribution, 2016, 10, 3508-3516.	2.5	2
43	Customized power quality service provided by converter interfaced microgrids â€” Voltage harmonics as a study case. , 2017, , .		2
44	Frequency Control with Flexible Demand and Storages to Support Large Renewable Energy Generation. , 2018, , .		2
45	A Novel Harmonic Control Method for MMC Combining Improved Nearest Level Control and Selective Harmonic Elimination method. , 2019, , .		2
46	A MTDC system layout review based on system revenue a Kriegers Flak case study. , 2013, , .		1
47	Impact of negative sequence current injection by wind power plants. , 2013, , .		1
48	Field Data logger prototype for power converters. , 2014, , .		1
49	Low voltage fault ride through control in MMC-HVDC. , 2017, , .		1
50	Primary Frequency Regulation with Battery Energy Storages in Wind Dominated Power System. , 2018, , .		1
51	An Overview of Grid-Forming Control for Wind Turbine Converters. , 2021, , .		1
52	Modeling and control of low voltage flexible units for enhanced operation of distribution feeders. , 2013, , .		0
53	Analysis of back-to-back MMC for medium voltage applications under faulted condition. , 2017, , .		0
54	Estimation and Sizing of Frequency Reserves from Flexible Demand Units. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	A Review of Grid Code Requirements for the Integration of Renewable Energy Sources in Ethiopia. Energies, 2022, 15, 5197.	3.1	0