

Florin Iov

List of Publications by Year in descending order

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51
papers

1,630
citations

623734

14
h-index

377865

34
g-index

51
all docs

51
docs citations

51
times ranked

1420
citing authors

#	ARTICLE	IF	CITATIONS
1	Centralised power control of wind farm with doubly fed induction generators. <i>Renewable Energy</i> , 2006, 31, 935-951.	8.9	382
2	Instability of Wind Turbine Converters During Current Injection to Low Voltage Grid Faults and PLL Frequency Based Stability Solution. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 1683-1691.	6.5	238
3	Review of Contemporary Wind Turbine Concepts and Their Market Penetration. <i>Wind Engineering</i> , 2004, 28, 247-263.	1.9	167
4	Control of Variable Speed Wind Turbines with Doubly-Fed Induction Generators. <i>Wind Engineering</i> , 2004, 28, 411-432.	1.9	133
5	Co-ordinated voltage control of DFIG wind turbines in uninterrupted operation during grid faults. <i>Wind Energy</i> , 2007, 10, 51-68.	4.2	87
6	Analysis of the short-term overproduction capability of variable speed wind turbines. <i>Renewable Energy</i> , 2014, 68, 326-336.	8.9	65
7	Power and Energy Management with Battery Storage for a Hybrid Residential PV-Wind System – A Case Study for Denmark. <i>Energy Procedia</i> , 2018, 155, 464-477.	1.8	50
8	Power Electronics in Renewable Energy Systems. , 2006, , .		44
9	Impact of wind power plant reactive current injection during asymmetrical grid faults. <i>IET Renewable Power Generation</i> , 2013, 7, 484-492.	3.1	34
10	Adaptive voltage control strategy for variable-speed wind turbine connected to a weak network. <i>IET Renewable Power Generation</i> , 2016, 10, 238-249.	3.1	32
11	A Study of Load Imbalance Influence on Power Quality Assessment for Distribution Networks. <i>Electricity</i> , 2021, 2, 77-90.	2.8	30
12	Grid Code Compliance of Grid-Side Converter in Wind Turbine Systems. , 0, , .		28
13	Provision of enhanced ancillary services from wind power plants – Examples and challenges. <i>Renewable Energy</i> , 2016, 97, 8-18.	8.9	27
14	Initialisation of Grid-Connected Wind Turbine Models in Power-System Simulations. <i>Wind Engineering</i> , 2003, 27, 21-38.	1.9	25
15	Battery Storage-Based Frequency Containment Reserves in Large Wind Penetrated Scenarios: A Practical Approach to Sizing. <i>Energies</i> , 2018, 11, 3065.	3.1	22
16	On the trade-off between timeliness and accuracy for low voltage distribution system grid monitoring utilizing smart meter data. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 121, 106090.	5.5	22
17	Power flow control through a multi-level H-bridge based power converter for Universal and Flexible Power Management in future electrical grids. , 2008, , .		21
18	Power electronics and control for wind power systems. , 2009, , .		18

#	ARTICLE	IF	CITATIONS
19	Grid support of a wind farm with active stall wind turbines and AC grid connection. Wind Energy, 2006, 9, 341-359.	4.2	16
20	Observability of low voltage grids: Actual DSOs challenges and research questions. , 2017, , .		14
21	Smart Meter Measurement-Based State Estimation for Monitoring of Low-Voltage Distribution Grids. Energies, 2020, 13, 5367.	3.1	13
22	A Novel Control Architecture for Hybrid Power Plants to Provide Coordinated Frequency Reserves. Energies, 2019, 12, 919.	3.1	12
23	Design and tuning of wind power plant voltage controller with embedded application of wind turbines and STATCOMs. IET Renewable Power Generation, 2017, 11, 216-225.	3.1	11
24	On the Participation of Power-To-Heat Assets in Frequency Regulation Marketsâ€™ A Danish Case Study. Energies, 2020, 13, 4608.	3.1	10
25	Analysis of a variable-speed wind energy conversion scheme with doubly-fed induction generator. International Journal of Electronics, 2003, 90, 779-794.	1.4	9
26	Implementation of PLL and FLL trackers for signals with high harmonic content and low sampling frequency. , 2014, , .		9
27	Smart grid control and communication: The SmartC2net Real-Time HIL approach. , 2015, , .		9
28	On the impact of cyberattacks on voltage control coordination by ReGen plants in smart grids. , 2017, , .		9
29	Distributed flexibility management targeting energy cost and total power limitations in electricity distribution grids. Sustainable Energy, Grids and Networks, 2018, 14, 35-46.	3.9	9
30	Validating Performance Models for Hybrid Power Plant Control Assessment. Energies, 2019, 12, 4330.	3.1	9
31	On the Use of Common Information Model for Smart Grid Applications â€™ A Conceptual Approach. IEEE Transactions on Smart Grid, 2021, 12, 5060-5072.	9.0	9
32	A Model-Based Design Approach for Stability Assessment, Control Tuning and Verification in Off-Grid Hybrid Power Plants. Energies, 2020, 13, 49.	3.1	9
33	ICT Based Performance Evaluation of Primary Frequency Control Support from Renewable Power Plants in Smart Grids. Energies, 2018, 11, 1329.	3.1	6
34	Towards Renewable-Dominated Power Systems Considering Long-Term Uncertainties: Case Study of Las Palmas. Energies, 2021, 14, 3317.	3.1	6
35	Experimental Validation and Deployment of Observability Applications for Monitoring of Low-Voltage Distribution Grids. Sensors, 2021, 21, 5770.	3.8	6
36	Modeling and Control of VSC Based DC Connection for Active Stall Wind Farms to Grid. IEEJ Transactions on Industry Applications, 2006, 126, 622-629.	0.2	5

#	ARTICLE	IF	CITATIONS
37	DiSC-OPAL: A simulation framework for real-time assessment of distribution grids. , 2017, , .		4
38	Flexible Platform for the Study and Testing of Smart Energy Systems Enabling-Technologies. , 2020, , .		4
39	Power Flow Control Through the UNIFLEX-PM Under Different Network Conditions. EPE Journal (European Power Electronics and Drives Journal), 2009, 19, 32-41.	0.7	3
40	Short-Circuit Analysis of the UNIFLEX-PM Using Stationary and Natural Reference Frame Control. EPE Journal (European Power Electronics and Drives Journal), 2009, 19, 42-50.	0.7	3
41	Influence of resolution of the input data on distributed generation integration studies. , 2014, , .		3
42	Distributed voltage control coordination between renewable generation plants in MV distribution grids. CIRED - Open Access Proceedings Journal, 2017, 2017, 1038-1042.	0.1	3
43	Three-Phase State Estimation for Distribution-Grid Analytics. Clean Technologies, 2021, 3, 395-408.	4.2	3
44	Smart control of energy distribution grids over heterogeneous communication networks. , 2014, , .		2
45	Active power reference tracking in electricity distribution grids over non-ideal communication networks. International Journal of Electrical Power and Energy Systems, 2018, 102, 122-130.	5.5	2
46	ICT Requirements and Challenges for Provision of Grid Services from Renewable Generation Plants. , 2018, , .		2
47	Hysteretic current controlled ZVS dc/dc converter for automobiles. , 2007, , .		1
48	Transient stability with grid connection and wind turbine drive-train effects. , 2009, , .		1
49	On-line configuration of network emulator for intelligent energy system testbed applications. , 2015, , .		1
50	ICT Based HIL Validation of Voltage Control Coordination in Smart Grids Scenarios. Energies, 2018, 11, 1327.	3.1	1
51	Propagation of Voltage Sags and Under-voltages through Scott Transformers. , 2021, , .		1