

Chresten TrÃholt

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

3,290
citations

201674

27
h-index

175258

52
g-index

105
all docs

105
docs citations

105
times ranked

2918
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-timescale coordinated operation of a CHP plant-wind farm portfolio considering multiple uncertainties. International Journal of Electrical Power and Energy Systems, 2021, 125, 106428.	5.5	19
2	Data-driven State of Health Modeling of Battery Energy Storage Systems Providing Grid Services. , 2021, , .		5
3	Applications of AI-Based Forecasts in Renewable Based Electricity Balancing Markets. , 2021, , .		3
4	Cooperative Control of Wind-Hydrogen-SMES Hybrid Systems for Fault-Ride-Through Improvement and Power Smoothing. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-7.	1.7	8
5	On the ease of being green: An investigation of the inconvenience of electric vehicle charging. Applied Energy, 2020, 258, 114090.	10.1	35
6	Assessment of Energy Storage Systems for Multiple Grid Service Provision. , 2020, , .		0
7	A framework for techno-economic assessment of demand-side power-to-heat solutions in low-temperature district heating. International Journal of Electrical Power and Energy Systems, 2020, 122, 106096.	5.5	13
8	Assessment of economic benefits for EV owners participating in the primary frequency regulation markets. International Journal of Electrical Power and Energy Systems, 2020, 120, 105985.	5.5	28
9	Site Selection Criteria for Battery Energy Storage in Power Systems. , 2020, , .		5
10	Facilitating Water electrolyzers for electricity-grid services in Europe through establishing standardized testing protocols. Clean Energy, 2020, 4, 379-388.	3.2	5
11	Flexibility of combined heat and power plants: A review of technologies and operation strategies. Applied Energy, 2019, 252, 113445.	10.1	91
12	Optimal dispatch of combined heat and power plant in integrated energy system: A state of the art review and case study of Copenhagen. Energy Procedia, 2019, 158, 2794-2799.	1.8	9
13	Distribution System Services Provided by Electric Vehicles: Recent Status, Challenges, and Future Prospects. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4277-4296.	8.0	110
14	Economic Evaluation of Frequency Reserve Provision using Battery Energy Storage. , 2019, , .		4
15	Investigation of real-time flexibility of combined heat and power plants in district heating applications. Applied Energy, 2019, 237, 196-209.	10.1	68
16	Optimization under uncertainty of a biomass-integrated renewable energy microgrid with energy storage. Renewable Energy, 2018, 123, 204-217.	8.9	87
17	Optimization of a biomass-integrated renewable energy microgrid with demand side management under uncertainty. Applied Energy, 2018, 230, 836-844.	10.1	80
18	Optimal design and operating strategies for a biomass-fueled combined heat and power system with energy storage. Energy, 2018, 155, 620-629.	8.8	12

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19	Supporting involvement of electric vehicles in distribution grids: Lowering the barriers for a proactive integration. Energy, 2017, 134, 458-468.	8.8	78
20	DC Fast-charging stations for EVs controlled by a local battery storage in low voltage grids. , 2017, , .		10
21	Optimal design of DC fast-charging stations for EVs in low voltage grids. , 2017, , .		26
22	A review of Danish integrated multi-energy system flexibility options for high wind power penetration. Clean Energy, 2017, 1, 23-35.	3.2	42
23	Guidelines for distribution system operators on reactive power provision by electric vehicles in low-voltage grids. CIRED - Open Access Proceedings Journal, 2017, 2017, 1787-1791.	0.1	1
24	Concurrent provision of frequency regulation and overvoltage support by electric vehicles in a real Danish low voltage network. , 2014, , .		8
25	Ranking Entities in Networks via Lefschetz Duality. , 2014, , .		0
26	Analysis of voltage support by electric vehicles and photovoltaic in a real Danish low voltage network. , 2014, , .		24
27	Implementation and demonstration of grid frequency support by V2G enabled electric vehicle. , 2014, , .		15
28	Electric vehicle smart charging using dynamic price signal. , 2014, , .		16
29	A Decentralized Storage Strategy for Residential Feeders With Photovoltaics. IEEE Transactions on Smart Grid, 2014, 5, 974-981.	9.0	168
30	A dynamic behaviour analysis on the frequency control capability of electric vehicles. , 2014, , .		5
31	EV Charging Facilities and Their Application in LV Feeders With Photovoltaics. IEEE Transactions on Smart Grid, 2013, 4, 1533-1540.	9.0	85
32	Integrating intelligent electric devices into Distributed Energy Resources in a cloud-based environment. , 2013, , .		4
33	Improvement of Local Voltage in Feeders With Photovoltaic Using Electric Vehicles. IEEE Transactions on Power Systems, 2013, 28, 3515-3516.	6.5	55
34	Demand profile study of battery electric vehicle under different charging options. , 2012, , .		95
35	Measurement of AC Losses in a Racetrack Superconducting Coil Made from YBCO Coated Conductor. Physics Procedia, 2012, 36, 980-984.	1.2	3
36	Integration of Fuel Cell Micro-CHPS on Low Voltage Grid: A Danish Case Study. , 2012, , .		7

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37	Low AC Loss in a 3 kA HTS Cable of the Dutch Project. Physics Procedia, 2012, 36, 1285-1289.	1.2	7
38	Low Friction Cryostat for HTS Power Cable of Dutch Project. Physics Procedia, 2012, 36, 1309-1312.	1.2	5
39	AC Losses in $\text{Bi}_{2}\text{Sr}_{2}\text{Ca}_{2}\text{Cu}_{3}\text{O}_{10+x}$ Tapes and a 3.15-m-Long Single-Phase Cable. IEEE Transactions on Applied Superconductivity, 2011, 21, 3599-3603.	1.7	1
40	High temperature superconductor machine prototype. , 2011, , .		5
41	Power quality issues into a Danish low-voltage grid with electric vehicles. , 2011, , .		7
42	Is micro-CHP price controllable under price signal controlled Virtual Power Plants?. , 2011, , .		6
43	Electric vehicle requirements for operation in smart grids. , 2011, , .		13
44	Coil Optimization for High Temperature Superconductor Machines. IEEE Transactions on Applied Superconductivity, 2011, 21, 1136-1140.	1.7	5
45	Towards Faster FEM Simulation of Thin Film Superconductors: A Multiscale Approach. IEEE Transactions on Applied Superconductivity, 2011, 21, 3273-3276.	1.7	85
46	Superconducting generators for wind turbines: Design considerations. Journal of Physics: Conference Series, 2010, 234, 032038.	0.4	7
47	AC loss in superconducting wires operating in a wind turbine like generator. Journal of Physics: Conference Series, 2010, 234, 032051.	0.4	3
48	Superconducting wind turbine generators. Superconductor Science and Technology, 2010, 23, 034019.	3.5	184
49	Economic dispatch of electric energy storage with multi-service provision. , 2010, , .		3
50	Electric vehicle fleet integration in the danish EDISON project - A virtual power plant on the island of Bornholm. , 2010, , .		69
51	Facilitating a Generic Communication Interface to Distributed Energy Resources: Mapping IEC 61850 to RESTful Services. , 2010, , .		37
52	Average behavior of battery-electric vehicles for distributed energy studies. , 2010, , .		23
53	Using Service Oriented Architecture in a Generic Virtual Power Plant. , 2009, , .		6
54	Design Study of 10 kW Superconducting Generator for Wind Turbine Applications. IEEE Transactions on Applied Superconductivity, 2009, 19, 1678-1682.	1.7	59

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55	A market-based Virtual Power Plant. , 2009, , .		35
56	Evaluation of a Generic Virtual Power Plant framework using service oriented architecture. , 2008, , .		35
57	Triaxial HTS Cable for the AEP Bixby Project. IEEE Transactions on Applied Superconductivity, 2007, 17, 2047-2050.	1.7	99
58	Testing of a Liquid Nitrogen Cooled 5-meter, 3000 A Tri-Axial High Temperature Superconducting Cable System. AIP Conference Proceedings, 2006, , .	0.4	5
59	Testing of a 1.5-m Single-Phase Short-Sample Cable Made With Copper Laminated HTS Tapes at ORNL. IEEE Transactions on Applied Superconductivity, 2005, 15, 1755-1758.	1.7	9
60	Tests of Tri-Axial HTS Cables. IEEE Transactions on Applied Superconductivity, 2005, 15, 1827-1830.	1.7	35
61	Operation experiences with a 30 kV/100 MVA high temperature superconducting cable system. Superconductor Science and Technology, 2004, 17, S101-S105.	3.5	26
62	Contactless electrical measurements of transport ac losses in a 3 m long superconducting cable. Superconductor Science and Technology, 2002, 15, 898-901.	3.5	2
63	A new concept for superconducting DC transmission from a wind farm. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1560-1563.	1.2	3
64	Electromagnetic losses in a three-phase high temperature superconducting cable determined by calorimetric measurements. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1564-1566.	1.2	3
65	First operation experiences from a 30 kV, 104 MVA HTS power cable installed in a utility substation. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1571-1579.	1.2	22
66	Short-circuit experiments on a high-Tc superconducting cable conductor. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1585-1587.	1.2	5
67	Calorimetric measurements of losses in HTS cables. IEEE Transactions on Applied Superconductivity, 2001, 11, 1777-1780.	1.7	9
68	Test results of full-scale high temperature superconductors cable models destined for a 36 kV, 2 kArms utility demonstration. Physica C: Superconductivity and Its Applications, 2001, 357-360, 1241-1244.	1.2	1
69	Overcurrent experiments on HTS tape and cable conductor. IEEE Transactions on Applied Superconductivity, 2001, 11, 1781-1784.	1.7	13
70	Test results of full-scale HTS cable models and plans for a 36 kV, 2 kA/sub rms/ utility demonstration. IEEE Transactions on Applied Superconductivity, 2001, 11, 2473-2476.	1.7	27
71	Alternating current losses of a 10 metre long low loss superconducting cable conductor determined from phase sensitive measurements. Superconductor Science and Technology, 1999, 12, 360-365.	3.5	19
72	Loss and inductance investigations in a 4-layer superconducting prototype cable conductor. IEEE Transactions on Applied Superconductivity, 1999, 9, 833-836.	1.7	89

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73	The electrical aspects of the choice of former in a high T/sub c/ superconducting power cable. IEEE Transactions on Applied Superconductivity, 1999, 9, 766-769.	1.7	0
74	Measuring AC-loss in high temperature superconducting cable-conductors using four probe methods. IEEE Transactions on Applied Superconductivity, 1999, 9, 1169-1172.	1.7	8
75	Solid state amorphization in the Co-Ti system. Thin Solid Films, 1999, 345, 319-329.	1.8	6
76	Transmission electron microscopy study of the interface of Bi ₂ Sr ₂ CaCu ₂ O ₈ + $\hat{\Gamma}$ thin films on (110) oriented SrTiO ₃ substrates. Journal of Crystal Growth, 1998, 191, 421-429.	1.5	4
77	Solid state amorphization in Ni-Ti systems: the effect of structure on the kinetics of interface and grain-boundary amorphization. Acta Materialia, 1998, 46, 5491-5508.	7.9	23
78	Structural properties of Bi ₂ Sr ₂ CaCu ₂ O ₈ + $\hat{\Gamma}$ thin films on (110) oriented SrTiO ₃ substrates. Thin Solid Films, 1998, 319, 215-218.	1.8	1
79	AC losses in circular arrangements of parallel superconducting tapes. Physica C: Superconductivity and Its Applications, 1998, 310, 192-196.	1.2	2
80	Measurements of AC losses in different former materials. Physica C: Superconductivity and Its Applications, 1998, 310, 267-271.	1.2	4
81	The crystal structure of the $\hat{\Gamma}$ phase in Al-Mg-Si alloys. Acta Materialia, 1998, 46, 3283-3298.	7.9	558
82	Measuring ac losses in superconducting cables using a resonant circuit: resonant current experiment (RESCUE). Superconductor Science and Technology, 1998, 11, 1306-1310.	3.5	1
83	Thin films of the charge-density-wave oxide Rb _{0.30} MoO ₃ by pulsed-laser deposition. Physical Review B, 1997, 55, 4817-4824.	3.2	16
84	Formation of edge dislocations in thin epitaxial YBCO films. IEEE Transactions on Applied Superconductivity, 1997, 7, 1396-1398.	1.7	61
85	The relation between the defect structure, the surface roughness and the growth conditions of YBa ₂ Cu ₃ O ₇ + $\hat{\Gamma}$ films. Journal of Alloys and Compounds, 1997, 251, 27-30.	5.5	14
86	Orientation of the charge-density-wave chains in thin films of Rb _{0.30} MoO ₃ . Synthetic Metals, 1997, 86, 2193-2194.	3.9	2
87	Growth phenomena of Bi ₂ Sr ₂ CaCu ₂ O ₈ + $\hat{\Gamma}$ thin films deposited on (110) oriented SrTiO ₃ substrates. Thin Solid Films, 1997, 304, 212-221.	1.8	2
88	Enhanced flux pinning in Bi-2212 single crystals by planar defects introduced via Ti-substitution. Physica C: Superconductivity and Its Applications, 1997, 274, 197-203.	1.2	32
89	TEM analysis of planar defects induced by Ti doping in Bi-2212 single crystals. Physica C: Superconductivity and Its Applications, 1997, 290, 239-251.	1.2	3
90	Large change of irreversible and reversible magnetic properties by Ti-doped in Bi-2212. European Physical Journal D, 1996, 46, 1677-1678.	0.4	0

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91	High resolution electron microscopy of heavy-ion induced defects in superconducting Bi-2212 thin films in relation to their effect on J_c . Physica C: Superconductivity and Its Applications, 1996, 268, 161-172.	1.2	45
92	Orientalional Changes in the ab plane of YBa ₂ Cu ₃ O _{7-δ} Films on Different Substrates. Journal of Applied Crystallography, 1996, 29, 125-133.	4.5	3
93	Thin film growth of the charge density wave oxide Rb _{0.30} MoO ₃ . Applied Physics Letters, 1996, 68, 3823-3825.	3.3	33
94	Molecular beam epitaxy growth and microstructure of thin superconducting Bi ₂ Sr ₂ CaCu ₂ O _x films. Physica C: Superconductivity and Its Applications, 1995, 253, 383-390.	1.2	8
95	Microstructures of ramp-edge YBa ₂ Cu ₃ O _x /PrBa ₂ Cu ₃ O _x /YBa ₂ Cu ₃ O _x Josephson junctions on different substrates. Physica C: Superconductivity and Its Applications, 1995, 255, 293-305.	1.2	22
96	Direct high resolution electron microscopy observation of nonunit cell nucleation in the initial stage of high T _c superconducting film growth. Applied Physics Letters, 1995, 66, 1830-1832.	3.3	30
97	Growth mechanisms of coevaporated SmBa ₂ Cu ₃ O _y thin films. Physical Review B, 1995, 52, 7604-7618.	3.2	43
98	High T _c bi-epitaxial junctions and dc SQUIDs structured by focused ion beam etching. IEEE Transactions on Applied Superconductivity, 1995, 5, 2513-2516.	1.7	1
99	Metallic interlayers between steel and diamond-like carbon. Surface and Coatings Technology, 1994, 68-69, 651-655.	4.8	57
100	A HREM study of the atomic structure and the growth mechanism at the YBa ₂ Cu ₃ O ₇ /YSZ interface. Physica C: Superconductivity and Its Applications, 1993, 218, 29-42.	1.2	34
101	Stacking sequence of YBa ₂ Cu ₃ O ₇ thin film on SrTiO ₃ substrate. Physica C: Superconductivity and Its Applications, 1993, 205, 354-362.	1.2	64
102	High resolution electron microscopy on superconducting YBa ₂ Cu ₃ O ₇ thin films. Thin Solid Films, 1993, 228, 178-181.	1.8	3
103	Nanostructural characterization of interfaces of thin films of YBa ₂ Cu ₃ O ₇ with various kinds of substrates. Journal of Alloys and Compounds, 1993, 195, 85-92.	5.5	24
104	TEM cross-section of high-T _c superconducting thin films. Micron and Microscopica Acta, 1992, 23, 225-226.	0.2	0
105	Topological Rankings in Communication Networks. International Journal of Simulation: Systems, Science and Technology, 0, , .	0.0	0