

No	Year Month Link	Authors	Title	Where	Keywords
1	<a href="#">2017-09</a>	R. M. Jakobs	IEA HPT TCP Annex 35 + 48: Heat Pump Application in Commercial and Industrial Processes	International Workshop on High Temperature Heat Pumps, Copenhagen	IEA-HPT TCP, HPP-IETS Annex 35/13, Case studies IHPs
2	<a href="#">2017-10</a>	R. M. Jakobs	Commercial and Industrial Heat Pump Application, Introduction	European Heat Pump Summit 2017 Nuremberg	IEA-HPT TCP, Annex 35 results and Annex 48 introduction
3	<a href="#">2017-10</a>	Ch. Watanabe et al.	Application of Heat Pumps to Cutting and Washing Processes	European Heat Pump Summit 2017 Nuremberg	Industry: Automobile parts production, system before/after, 6 units 22 kW, 8 units 44 kW
4	<a href="#">2017-10</a>	V. Wilk et al.	Industrial Heat Pumps in Austria: Applications and research	European Heat Pump Summit 2017 Nuremberg	Roadmap for HPs; IHPs in Austria; 63 case studies; HyPump, HotCycle, SOFCool, HIGHBUTANE, HIGHREF, DRYPUMP, DRYFICIENCY
5	<a href="#">2017-10</a>	S. A. Wallerand et al.	Methods for estimating heat pump potential in industrial processes	European Heat Pump Summit 2017 Nuremberg	Fundamentals of pinch analysis, Limitations, Developments (methods), Results, Outlook
6	<a href="#">2017-10</a>	J.-M. Fourmigue et al.	Increasing the Heat Pumps dissemination through Energy Database analysis	European Heat Pump Summit 2017 Nuremberg	HP opportunities in industry, heat needs, heat waste, milk industry, malt industry, overall potential
7	<a href="#">2017-10</a>	C. Arpagaus et al.	Review on High Temperature Heat Pumps	European Heat Pump Summit 2017 Nuremberg	Market overview, research status, refrigerants
8	<a href="#">2017-10</a>	L. Reinholdt	Higher Heat Pump COP through better temperature match	European Heat Pump Summit 2017 Nuremberg	Maximum HP COP, Carnot and Lorenz
9	<a href="#">2017-10</a>	M. Nampoothiri	Industrial Heat Pumps in India - Unlocking the potential	European Heat Pump Summit 2017 Nuremberg	India story, state of the industry, HP opportunity, case studies
10	<a href="#">2017-10</a>	B. Zühlsdorf et al.	Heat Pump Integration with Zeotropic Working Fluid Mixtures	European Heat Pump Summit 2017 Nuremberg	ThermCycproject, excess heat a. heat demand in the industry, standard HP cycle with zeotropic mixtures

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11	<a href="#">2018-05</a>	R. M. Jakobs	Gewerbe und Industrie Wärmepumpen weltweit in vielfältigen Anwendungen erfolgreich	Großwärmepumpen Forum 2018 Vienna	Background, market overview, barriers for applications, technology, case studies, summary, outlook
12	<a href="#">2018-05</a>	Th. Fleckl et al.	Wärmepumpen in der Prozessindustrie: Aktuelle Entwicklungen in der Forschung und Herausforderungen in der Anwendung	Großwärmepumpen Forum 2018 Vienna	Potential, Prozessbewertung, Technologie-entwicklung, Prozessintegration
13	<a href="#">2018-05</a>	J. Herunter	Hochtemperaturwärmepumpen – praktische Beispiele und Anwendungsfälle für Nah- und Fernwärme	Großwärmepumpen Forum 2018 Vienna	HTWP, Fernwärmenetze
14	<a href="#">2018-05</a>	St. Irmisch	Großwärmepumpen: die umweltfreundliche und flexible Energielösung für Wohnraum, Gewerbe und Industrie	Großwärmepumpen Forum 2018 Vienna	Gebäudebeheizung, Hotel& Resort, Fernwärmenetz
15	<a href="#">2018-10</a>	R. M. Jakobs	Introduction Heat pumping Technologies	Chillventa Congress 2018 Nuremberg	Research, development, Annexes=projects, introduction
16	<a href="#">2018-10</a>	V. Wilk et al.	Industrial heat pumps in Austria: Current status and future potential	Chillventa Congress 2018 Nuremberg	Status, potential, energy use, examples: food, metal, plastics, power plants...
17	<a href="#">2018-10</a>	T. Kaida	Industrial Heat Pump Applications in Japan	Chillventa Congress 2018 Nuremberg	Electrification, energy consumption in Japan, IHPs, installations, HP types, energy savings, case studies
18	<a href="#">2018-10</a>	R. Rudischhauser	Ammonia Heat-Pump for Heating and Cooling in Residential/Commercial Areas	Chillventa Congress 2018 Nuremberg	Semi-hermetic NH <sub>3</sub> chiller-HP, re-use of a factory building, cooling and heating system
19	<a href="#">2018-10</a>	C. Arpagaus	High Temperature Heat Pumps	Chillventa Congress 2018 Nuremberg	Market & research status, refrigerants, application potentials, results with HP using HCFO R1233zd
20	<a href="#">2018-10</a>	N. Hewitt	Heat Pumping Technologies for Commercial and Industrial Applications - A UK perspective	Chillventa Congress 2018 Nuremberg	UK energy pricing, a challenge for HPs, thermal storage, new working fluids
21	<a href="#">2018-10</a>	L. Reinholdt	Industrial Heat pumps in District Heating (Denmark)	Chillventa Congress 2018 Nuremberg	Danish energy system, IHPs in Denmark, tolls for IHP implementation, IHPs in district heating
22	<a href="#">2018-10</a>	A. Bechem	HeatBooster – High temperature industrial heat pump for up to 160 °C	Chillventa Congress 2018 Nuremberg	Potential of process heat in Europe, development, to reach 160 °C with HFO refrigerants, applications
23	<a href="#">2018-10</a>	S. A. Wallerand	Application of models for IHP integration	Chillventa Congress 2018 Nuremberg	Theoretical principles, overview of various tools, guidelines, case-study
24	<a href="#">2018-10</a>	R. M. Jakobs	Summary	Chillventa Congress 2018 Nuremberg	Energy use, applications in different industries and countries
25	<a href="#">2018-10</a>	X. Li	Decreasing energy consumption of heating and AC system with energy-efficient heat pump combined with natural energy	Chillventa Congress 2018 Nuremberg	Analysis of existing technologies, new idea and methods, effects of hybrid sources heat pump systems

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26	<a href="#">2019-05</a>	C. Arpagaus	Hochtemperatur-Wärmepumpen für industrielle Anwendungen de	Großwärmepumpen Kongress 2019 Zurich	Marktübersicht HTWP, Anwendungsmöglichkeiten, Stand der Forschung, Auswahl Kältemittel
27	<a href="#">2019-05</a>	R. M. Jakobs	Annex 48 Overview and Status, Case studies in NL + D	Annex 48 Workshop Tokyo	Review IHP-Annexes, Status Annex 48
29	<a href="#">2019-05</a>	V. Wilk, et al.	Industrial Heat Pumps in Austria: Status, case studies, potentials	Annex 48 Workshop Tokyo	IHPs in Austria, 64 case studies, potential, different industries
30	<a href="#">2019-05</a>	B. Zuehlsdorf	Situation in Denmark	Annex 48 Workshop Tokyo	Political treaties and strategies, energy system, industrial HPs, best cases
31	<a href="#">2019-05</a>	J.-M. Fourmigue	IHP Cases in France + Assessment the heat pump market in industry	Annex 48 Workshop Tokyo	French IHP references database, heat sources, COP,
32	<a href="#">2019-05</a>	J.-M. Fourmigue	Assessment IHPs in the industry	Annex 48 Workshop Tokyo	Heat needs, waste heat, temperatures,
33	<a href="#">2019-05</a>	Y. Uchiyama et al.	Good and Best Practices of Industrial Heat Pumps in Japan	Annex 48 Workshop Tokyo	Good and best practices, heat demand in industry, role of HPs, barriers for application, countermeasures
34	<a href="#">2019-05</a>	I. Kantor et al.	Application of existing models and tools for IHP integration	Annex 48 Workshop Tokyo	Industrial heat pump feasibility, advanced models & tools, guidance on how to approach integration of heat pumps, application in a case study
35	<a href="#">2019-05</a>	C. Arpagaus	Industrial Heat Pump Applications in Switzerland	Annex 48 Workshop Tokyo	Examples of IHPs, data sources,
36	<a href="#">2019-05</a>	N.J. Hewitt	UK Country Report	Annex 48 Workshop Tokyo	UK policy, examples of larger scale HPs
37	<a href="#">2019-08</a>	R. M. Jakobs	SUCCESSFUL APPLICATIONS OF INDUSTRIAL HEAT PUMPS	International Congress of Refrigeration 2019 Montreal WS Annex 48	IEA-TCP-HTHP, history IHP annexes, heat sink and heat source, outlook
38	<a href="#">2019-08</a>	V. Wilk et al.	INCREASING ENERGY EFFICIENCY IN INDUSTRY	International Congress of Refrigeration 2019 Montreal WS Annex 48	Efficient processes with waste heat recovery, IHPs in Austria, case studies, potential, market, applications
39	<a href="#">2019-08</a>	N. J. Hewitt et al.	Taking high temperature heat pumps to the next level – Power to heat and heat to power	International Congress of Refrigeration 2019 Montreal WS Annex 48	Heat Pumps for demand side response, IHPs in UK, HTHPs, recovering energy from expansion, organic Rankine cycle, the combined HP-Organic Rankine Cycle, future work
40	<a href="#">2019-08</a>	A.S. Wallerand et al.	Identifying optimal industrial heta pump placemnet	International Congress of Refrigeration 2019 Montreal WS Annex 48	Industrial heat pump feasibility, advanced models & tools, guidance on how to approach integration of heat pumps, application in a case study

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41	<a href="#">2019-08</a>	B. Zühlsdorf et al.	Heat pumps for district heating and industry in Denmark	International Congress of Refrigeration 2019 Montreal WS Annex 48	Danish energy system and political targets, status, perspectives and ongoing developments
42	<a href="#">2019-08</a>	Y. Uchiyama et al.	Evaluation of Good Practices for Industrial Heat Pump in Japan	International Congress of Refrigeration 2019 Montreal WS Annex 48	Targets for GHG emission in Japan, energy saving potential, samples of good applications, barriers and countermeasures for IHPs
43	<a href="#">2019-08</a>	C. Arpagaus	Industrial heat pump applications in Switzerland – Heat pump integration case studies	International Congress of Refrigeration 2019 Montreal WS Annex 48	Introduction to IHPs in Switzerland, application examples in the food industry
44	<a href="#">2019-08</a>	R. M. Jakobs	Summary	International Congress of Refrigeration 2019 Montreal WS Annex 48	Summary
45	<a href="#">2019-08</a>	T. Kaida et al.	Application of R1224yd(Z) as R245fa Alternative for High Temperature Heat Pump	International Congress of Refrigeration 2019 Montreal WS 2_IHPs	HTHPs, low GWP refrigerants, comparison between refrigerants
46	<a href="#">2019-08</a>	V. Wilk et al.	Decarbonization of industrial processes with heat pumps	International Congress of Refrigeration 2019 Montreal WS 1_IHPs	Starch drying, brick drying , impact on primary energy and CO <sub>2</sub> emissions
47	<a href="#">2019-08</a>	N. N. SHAH et al.	Overview on HCFO-R1233ZD(E) use for high temperature heat pump application	International Congress of Refrigeration 2019 Montreal WS 2_IHPs	Experiment setup and test methods, thermodynamic analysis, results and discussion
48	<a href="#">2019-08</a>	C. Arpagaus et al.	High temperature heat pump using HFO and HCFO refrigerants – system design and experimental results	International Congress of Refrigeration 2019 Montreal WS 3_IHPs	Introduction to HTHPS, HFOs and HCFOs, experimental results with R1336mzz(Z) and R1233zdE
49	<a href="#">2019-08</a>	N. J. Hewitt et al.	Industrial Heat Pumps in the UK Current Constraints and Future Possibilities	International Congress of Refrigeration 2019 Montreal WS 4_IHPs	IHP, UK energy pricing, HP performance, Replacing R410A, HTHP, future works
50	<a href="#">2019-08</a>	C. Arpagaus et al.	High temperature heat pumps – Theoretical study on low GWP HFO and HCFO refrigerants	International Congress of Refrigeration 2019 Montreal WS 5_IHPs	HTHP, HFO, HCFO, R1336mzz(Z), R1233zd(E), R1224yd(Z), Efficiency, COP
51	<a href="#">2019-10</a>	R. Rudischhauser	Heat Pumps for District Heating	European Heat Pump Summit 2019 Nuremberg	Selection criteria, environmental criteria, site criteria, commercial criteria, technical criteria, tender-decision process
52	<a href="#">2019-10</a>	V. Wilk et al.	DryFiciency: high temperature heat pumps for industrial processes	European Heat Pump Summit 2019 Nuremberg	COP, Cycle, Efficiency, HFO, HCFO, HTHP, Low GWP refrigerant

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53	<a href="#">2019-10</a>	E. Perdu et al.	Very High Temperature Heat Pump (120°C) Installed at Ghent, Belgium, Heating District Network	European Heat Pump Summit 2019 Nuremberg	A 120°C industrial prototype HP in heating district network of Ghent (B)
54	<a href="#">2019-10</a>	M. Nampoothiri	Accelerating the decarbonization of Industrial and Commercial sectors in India using Heat Pumps	European Heat Pump Summit 2019 Nuremberg	Technological innovations like HTHPs and the business model innovations like Heat-as-a-Service
55	<a href="#">2019-10</a>	W. Meesenburg	Flexible operation of heat pumps in district heating systems to unlock synergies between the heating & power sector	European Heat Pump Summit 2019 Nuremberg	experimental and theoretical results on operation strategies, technical limitations and feasibility of operating large-scale HPs
56	<a href="#">2019-10</a>	T. Funder-Kristensen	Evaluation of large heat pumps to decarbonize District Thermal Networks	European Heat Pump Summit 2019 Nuremberg	The potential of energy performance, integrated systems, serving energy grids, comparison between refrigerants
57	<a href="#">2019-10</a>	B. Vanslambrouck	ENERGETIC OPTIMIZATION POSSIBILITIES OF INDUSTRIAL DRYING PROCESSES	European Heat Pump Summit 2019 Nuremberg	development and simulation of an electrically driven heat pump dryer test bench
58	<a href="#">2019-10</a>	M. Blaser	Three concepts for high efficient, high economic ammonia heat pumps for industrial applications up to 95°C	European Heat Pump Summit 2019 Nuremberg	Development and standardization of high efficient and economic HPs in different industries