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References

- [1] Quoilin, Sylvain. "Sustainable Energy Conversion Through the Use of Organic Rankine Cycles for Waste Heat Recovery and Solar Applications." *Faculty of Applied Science of the University of Liège*, 2011: 183.
- [2] Dai Y, Wang J, Gao L. "Parametric optimization and comparative study of organic Rankine cycle (ORC) for low grade waste heat recovery." *Energy Conversion and Management* 50 (2009): 576–582.
- [3] Wang H, Peterson R, Harada K, Miller E, Ingram-Goble R, Fisher L, Yih J, Ward C. "Performance of a combined organic Rankine cycle and vapor compression cycle for heat activated cooling." *Energy* 36 (2011): 447-458.
- [4] Ganapathy, V. *Industrial Boilers and Heat Recovery Steam Generators*. Edited by Faulkner L.L. New York, NY: Marcel Dekker, Inc., 2003.
- [5] Larjola, J. "Electricity from industrial waste heat using high-speed organic Rankine cycle (ORC)." *International Journal of Production Economics* 41 (1995): 227-235.
- [6] Nguyen VM, Doherty PS, Riffat SB. "Development of a prototype low-temperature Rankine cycle electricity generation system." *Applied Thermal Engineering* 21 (2001): 169-181.
- [7] Quoilin S, Lemort V, Lebrun J. "Experimental study and modeling of an Organic Rankine Cycle using scroll expander." *Applied Energy* 87 (2010): 1260–1268.
- [8] Srinivasan K, Mago P, Krishnan S. "Analysis of exhaust waste heat recovery from a dual fuel low temperature combustion engine using an Organic Rankine Cycle." *Energy* 35 (2010): 2387-2399.

- [9] Zhang X, Yamaguchi H, Uneno D. "Experimental study on the performance of solar Rankine system using supercritical CO₂." *Renewable Energy* 32 (2007): 2617–2628.
- [10] Manolakos D, Kosmadakis G, Kyritsis S, Papadakis G. "Identification of behaviour and evaluation of performance of small scale, low-temperature Organic Rankine Cycle system coupled with a RO desalination unit." *Energy* 34 (2009): 767–774.
- [11] Vaja I, Gambarotta A. "Internal Combustion Engine (ICE) bottoming with Organic Rankine Cycles (ORCs)." *Energy* 35 (2010): 1084–1093.
- [12] Lemort V, Quoilin S, Cuevas C, Lebrun J. "Testing and modeling a scroll expander integrated into an Organic Rankine Cycle." *Applied Thermal Engineering* 29 (2009): 3094–3102.
- [13] Yamada N, Minami T, Mohamad M. "Fundamental experiment of pumpless Rankine-type cycle for low-temperature heat recovery." *Energy*, 2011: 1-8.
- [14] Bombarda P, Invernizzi C, Pietra C. "Heat recovery from Diesel engines: A thermodynamic comparison between Kalina and ORC cycles." *Applied Thermal Engineering* 30 (2010): 212–219.
- [15] DiBella FA, DiNanno LR, Koplow MD. "Laboratory and on-highway testing of diesel organic Rankine compound long-haul vehicle engine." *SAE Paper*, no. 830122 (1983).
- [16] Ringler J, Seifert M, Guyotot V, Huebner W. "Rankine cycle for waste heat recovery of IC engines." *SAE paper*, no. 2009-01-0174 (2009).
- [17] Drescher U, Brüggemann D. "Fluid selection for the Organic Rankine Cycle (ORC) in biomass power and heat plants." *Applied Thermal Engineering* 27 (2007): 223–228.
- [18] Invernizzi C, Iora P, Silva P. "Bottoming micro-Rankine cycles for micro-gas turbines." *Applied Thermal Engineering* 27 (2007): 100–110.
- [19] Chacartegui R, Sánchez D, Muñoz JM, Sánchez T. "Alternative ORC bottoming cycles for combined cycle power plants." *Applied Energy* 86 (2009): 2162–2170.

- [20] Delgado-Torres A, García-Rodríguez L. "Analysis and optimization of the low-temperature solar organic Rankine cycle (ORC)." *Energy Conversion and Management* 51 (2010): 2846–2856.
- [21] García-Rodríguez L, Blanco-Gálvez J. "Solar-heated Rankine cycles for water and electricity production: POWERSOL project." *Desalination* 212 (2007): 311–318.
- [22] Rayegan R, Tao YX,. "A procedure to select working fluids for Solar Organic Rankine Cycles (ORCs)." *Renewable Energy* 36 (2011): 659-670.
- [23] Tchanche B, Papadakis G, Lambrinos G, Frangoudakis A. "Fluid selection for a low-temperature solar organic Rankine cycle." *Applied Thermal Engineering* 29 (2009): 2468–2476.
- [24] Papadopoulos A, Stijepovic M, Linke P. "On the systematic design and selection of optimal working fluids for Organic Rankine Cycles." *Applied Thermal Engineering* 30 (2010): 760–769.
- [25] Heberle F, Brüggemann D. "Exergy based fluid selection for a geothermal Organic Rankine Cycle for combined heat and power generation." *Applied Thermal Engineering* 30 (2010): 1326-1332.
- [26] Mago P, Chamra L, Srinivasan K, Somayaji Ch. "An examination of regenerative organic Rankine cycles using dry fluids." *Applied Thermal Engineering* 28 (2008): 998–1007.
- [27] Nguyen TQ, Slawnwhite JD, Boulama K. "Power generation from residual industrial heat." *Energy Conversion and Management* 51 (2010): 2220–2229.
- [28] Hung TC, Shai TY, Wang SK. "A review of organic Rankine cycles (ORCs) for the recovery of low-grade waste heat." *Energy* 22 (1997): 661–667.
- [29] Hung, TC. "Waste heat recovery of organic Rankine cycle using dry fluids." *Energy Conversion and Management* 42 (2001): 539-553.
- [30] Roy JP, Mishra MK, Misra A. "Parametric optimization and performance analysis of a waste heat recovery system using Organic Rankine Cycle." *Energy* 35 (2010): 5049-5062.

- [31] Maizza V, Maizza A. "Unconventional working fluids in organic Rankine-cycles for waste energy recovery systems." *Applied Thermal Engineering* 21 (2001): 381-390.
- [32] Saleh B, Koglbauer G, Wendland M, Fischer J. "Working fluids for low-temperature organic Rankine cycles." *Energy* 32 (2007): 1210–1221.
- [33] Hettiarachchi HD, Golubovic M, Worek W, Ikegami Y. "Optimum design criteria for an Organic Rankine cycle using low-temperature geothermal heat sources." *Energy* 32 (2007): 1698–1706.
- [34] Bruno J, Lopez-Villada J, Letelier E, Romera S, Coronas A. "Modelling and optimisation of solar organic Rankine cycle engines for reverse osmosis desalination." *Applied Thermal Engineering* 28 (2008): 2212–2226.
- [35] Jing L, Gang P, Jie J. "Optimization of low temperature solar thermal electric generation with Organic Rankine Cycle in different areas." *Applied Energy* 87 (2010): 3355–3365.
- [36] Wei D, Lu X, Lu Z, Gu J. "Performance analysis and optimization of organic Rankine cycle (ORC) for waste heat recovery." *Energy Conversion and Management* 48 (2007): 1113–1119.
- [37] Wei D, Lu X, Lu Z, Gu J. "Dynamic modeling and simulation of an Organic Rankine Cycle (ORC) system for waste heat recovery." *Applied Thermal Engineering* 28 (2008): 1216–1224.
- [38] Quoilin S, Declaye S, Tchanche B, Lemort V. "Thermo-economic optimization of waste heat recovery Organic Rankine Cycles." *Applied Thermal Engineering*, no. 31 (2011): 2885-2893.
- [39] Zare V, Yari M, Mahmoudi SMS. "Proposal and analysis of a new combined cogeneration system based on the GT-MHR cycle." *Desalination*, no. 286 (2012): 417-428.
- [40] Roetzel W, Nicole FJL. "Mean Temperature Difference for Heat Exchanger Design - A General Approximate Explicit Equation." *Journal of Heat Transfer*, 1975: 5-8.
- [41] REFPROP 9.0, NIST Standard Reference Database 23, Lemmon EW, Huber ML, McLinden MO, 2010.

- [42] Aneke, Mathew, Brian Agnew, and Chris Underwood. "Performance analysis of the Chena binary geothermal power plant." *Applied Thermal Engineering* 31 (2011): 1825-1832.
- [43] Han DH, Lee KJ, Kim JH. "Experiments on the characteristics of evaporation of R410A in brazed plate heat exchangers with different geometric configurations." *Applied Thermal Engineering* 23 (2003): 1209–1225.
- [44] Shah RK, Sekulic DP. *Fundamentals of Heat Exchanger Design*. Hoboken, New Jersey: John Wiley & Sons, Inc., 2003.
- [45] Kattan N, Thome JR, Favrat D. "Development of a new heat transfer model based on flow patterns." *ASME Journal Heat Transfer* 120 (1988): 156–165.
- [46] Rouhani SZ, Axelsson E. "Calculation of void volume fraction in the subcooled and quality boiling regions." *International Journal Heat Mass Transfer* 13 (1970): 383-393.
- [47] Zhang, Shengjun, Huaixin Wang, and Tao Guo. "Performance comparison and parametric optimization of subcritical Organic Rankine Cycle (ORC) and transcritical power cycle system for low-temperature geothermal power generation." *Applied Energy*, no. 88 (2011): 2740-2754.
- [48] Baik Y, Kim M, Chang K, Kim S. "Power-based performance comparison between carbon dioxide and R125 transcritical cycles for a low-grade heat source." *Applied Energy* 88 (2011): 892–898.
- [49] Chen Y, Lundqvist P, Johansson A, Platell P. "A comparative study of the carbon dioxide transcritical power cycle compared with an organic Rankine cycle with R123 as working fluid in waste heat recovery." *Applied Thermal Engineering* 26 (2006): 2142–2147.
- [50] Chen H, Goswami D, Stefanakos E. "A review of thermodynamic cycles and working fluids for the conversion of low-grade heat." *Renewable and Sustainable Energy Reviews* 14 (2010): 3059–3067.
- [51] Desai N, Bandyopadhyay S. "Process integration of organic Rankine cycle." *Energy* 34 (2009): 1674–1686.

- [52] Gang P, Jing L, Jie J. "Analysis of low temperature solar thermal electric generation using regenerative Organic Rankine Cycle." *Applied Thermal Engineering* 30 (2010): 998–1004.
- [53] Hung TC, Wang SK, Kuo CH, Pei BS, Tsai KF. "A study of organic working fluids on system efficiency of an ORC using low-grade energy sources." *Energy* 35 (2010): 1403–1411.
- [54] Liu BT, Chien KH, Wang Ch. "Effect of working fluids on organic Rankine cycle for waste heat recovery." *Energy* 29 (2004): 1207–1217.
- [55] Manolakos D, Kosmadakis G, Kyritsis S, Papadakis G. "On site experimental evaluation of a low-temperature solar organic Rankine cycle system for RO desalination." *Solar Energy* 83 (2009): 646–656 .
- [56] Mikielewicz J, Piwowarski M, Kosowski K. "Design analysis of turbines for co-generating micro-power plant working in accordance with organic Rankine's cycle." *POLISH MARITIME RESEARCH*, 2009: 34-38.
- [57] Musthafah M, Yamada N. "Thermodynamic Analysis of Expansion Profile for Displacement-type Expander in Low-Temperature Rankine Cycle." *Journal of Thermal Science and Technology* 5, no. 1 (2010).
- [58] Schuster A, Karellas S, Kakaras E, Spliethoff H. "Energetic and economic investigation of Organic Rankine Cycle applications." *Applied Thermal Engineering* 29 (2009): 1809–1817.
- [59] Schuster A, Karellas S, Aumann R. "Efficiency optimization potential in supercritical Organic Rankine Cycles." *Energy* 35 (2010): 1033–1039.
- [60] Weerasinghe W, Stobart R, Hounsham S. "Thermal efficiency improvement in high output diesel engines a comparison of a Rankine cycle with turbo-compounding." *Applied Thermal Engineering* 30 (2010): 2253-2256.
- [61] Yamamoto T, Furuhashi T, Arai N, Mori K. "Design and testing of the Organic Rankine Cycle." *Energy* 26 (2001): 239–251.
- [62] Yari M, Mahmoudi S. "Utilization of waste heat from GT-MHR for power generation in organic Rankine cycles." *Applied Thermal Engineering* 30 (2010): 366–375.

- [63] Kays WM, London AL. *Compact Heat Exchangers*. 2nd Edition. Edited by Jr. Robert M Drake and Kline Stephen J. McGraw-Hill, Inc., 1964.
- [64] Parise JAR, Castillo-Martinez LC, Marques RP, Mena JB, Vargas JVC. "A study of the thermodynamic performance and CO₂ emissions of a vapour compression bio-trigeneration system." *Applied Thermal Engineering* 31 (2011): 1411-1420.