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Doktora: (2014) Makine Mühendisliği A.B.D, Tohoku Üniversitesi, Sendai, Japonya.

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ÜNVAN:

2015-present Doktor Öğretim Üyesi Makine Mühendisliği, Bartın Üniversitesi, Bartın, Türkiye.

2014-2015 Dr. Arş. Gör Makine Mühendisliği, Bartın Üniversitesi, Bartın, Türkiye.

2009-2014 Araştırma Görevlisi Makine Mühendisliği, Bartın Üniversitesi, Bartın, Türkiye.

ONUR VE ÖDÜLLER:

2011-2014, Doktora bursu (PhD fellowship), Ministry of Education, Culture, Sports, Science and Technology of Japan (Monbukagakusho), JAPONYA, 2011-2014

YAYINLANMIŞ MAKALELER (SCI indeks):

1. **Ustaoglu, A.**, Okajima, J., Zhang, X.-R., Maruyama S. (2016), "Performance Evaluation of a Nonimaging Solar Concentrator in Terms of Optical and Thermal Characteristics." Environmental Progress & Sustainable Energy 32 (2): 553-564.
2. **Ustaoglu, A.**, Okajima, J., Zhang, X.-R., Maruyama S. (2016), "Evaluation of the Efficiency of Dual Compound Parabolic and Involute Concentrator". Energy for Sustainable Development. 32, 1-13.
3. **Ustaoglu, A.**, Alptekin, M., Okajima, J., Maruyama, S. (2016), "Evaluation of Uniformity of Solar Illumination on the Receiver of Compound Parabolic Concentrator (CPC) ". Solar Energy. 132, 150-164
4. **Ustaoglu, A.**, Alptekin, M., Akay, M. E., (2017), "Thermal and exergetic approach to wet type rotary kiln process and evaluation of waste heat powered organic Rankine cycle (ORC) ". Applied Thermal Engineering. 112, 281-295.
5. **Ustaoglu, A.**, Alptekin, M., Akay, M. E., Selbas R. (2017) "Advanced exergy analysis of waste heat powered ejector refrigeration system for dry and wet type working fluids, International Journal of Exergy. 24-4, 301-324.
6. **Ustaoglu, A.**, Okajima, J., Zhang, X.-R., Maruyama S. (2018) "Truncation effects in an evacuated compound parabolic and involute concentrator with experimental and analytical investigations", Applied Thermal Engineering. 2018, 38, 433-445.
7. **Ustaoglu, A.**, Okajima, J., Zhang, X.-R., Maruyama S. (2018) "Assessment of a Solar Energy Powered Regenerative Organic Rankine Cycle Using Compound Parabolic Involute Concentrator" Under Review, Applied Thermal Engineering
8. **Ustaoglu, A.**, Ozbey, U., Evaluation of the temperature effect on the performance of V-trough, Compound Parabolic (CPC) and Compound Hyperbolic (CHC)-Trumpet Concentrators in

YAYINLANMIŞ ULUSAL MAKALELER:

1. **Ustaoglu, A.**, Okajima, J., Zhang, X.-R., Maruyama S., (2015) "Evaluation of an Organic Rankine Cycle Using a Non-Imaging Solar Concentrator for Different Working Fluids." Academic platform journal of engineering and science., 3-3,1-7.
2. **Ustaoglu, A.**, Okajima, J., Ozbey, U., Zhang, X.-R., Maruyama S., (2018) "Truncation Effect on Thermal Uniformity of a Novel Compound Parabolic Involute Concentrator" Journal of Bartin University Engineering and Technological Sciences 6(1): 49-53.

YAYINLANMIŞ KONFERANS MAKALELERİ:

1. **A. Ustaoglu**, J. Okajima, X.-R. Zhang, S. Maruyama, (2012), "Optical and Thermal Characteristic of a Solar Concentrator with Compound Parabolic and Involute Reflector." Ninth International Conference on Flow Dynamics ICFD2012. Sendai, Japan.
2. **A. Ustaoglu**, J. Okajima, X.-R. Zhang, S. Maruyama, (2013), "Comparison of Seasonal Performance of the Combined Involute and Compound Parabolic Solar Concentrator in Single and Dual Forms." Tenth International Conference on Flow Dynamics ICFD2013, Sendai, Japan.
3. **A. Ustaoglu**, J. Okajima, X.-R. Zhang, S. Maruyama, Efficiency of combined involute and compound parabolic solar concentrator on energy collection (インボリュートおよび複合放物面を用いた太陽集光器のエネルギー収集効率). Mechanical Engineering Congress 2013. pp J031012-1- J0310125 [2013.9.8－11] Okayama, Japan.
4. **A. Ustaoglu**, J. Okajima, X.-R. Zhang, S. Maruyama, (2013), Evaluation of dual combined parabolic solar concentrator in evacuated tube. Proceedings of the 7th International Symposium on Radiative Transfer, RAD-13, Izmir, Turkey.
5. **A. Ustaoglu**, J. Okajima, X.-R. Zhang, S. Maruyama, (2014), "Evaluation of a truncated non-imaging concentrator in terms of annual performance." Solar Conference & Exhibition, SOLARTR 2014. Izmir, Turkey.
6. **A. Ustaoglu**, M. Alptekin, J. Okajima, S. Maruyama, Evaluation of a compound parabolic concentrator in terms of temperature distribution." Solar Conference & Exhibition, SOLARTR 2014. Izmir, Turkey.
7. **A. Ustaoglu**, J. Okajima, X.-R. Zhang, S. Maruyama, (2015), "Evaluation of an Organic Rankine Cycle Using a Non-Imaging Solar Concentrator for Different Working Fluids." 3rd International Symposium on Innovative Technologies in Engineering and Science ISITES2015. Valencia, Spain.
8. **A. Ustaoglu**, M.Emin AKAY, (2015), "Energy and exergy analysis of tras mill in a cement factory using wet type production." 3. Anadolu enerji sempozyumu, AES2015, Mugla, Turkey.
9. **A. Ustaoglu**, S. Ertaş, M.E. Akay (2016), "Energy and exergy analysis of the coal drying section in cement factory using wet method." 8th Ege energy symposium and exhibition. IEESE8, Afyon, Turkey.
10. **A. Ustaoglu**, M. Alptekin, M.E. Akay, "Performance evaluation of a waste heat powered trigeneration system." 8th Ege energy symposium and exhibition. IEESE8, Afyon, Turkey.
11. **A. Ustaoglu**, M. Alptekin, M.E. Akay, R. Selbas (2016), Advanced exergy analysis of an application of waste heat powered ejector refrigeration system to rotary kiln. 8th International Exergy, Energy and Environment Symposium. IEES-8., Antalya, Turkey.
12. M. Alptekin, **A. Ustaoglu**, M.E. Akay, R. Selbas. (2016), "Thermodynamic evaluation of

- absorption-compression cascade refrigeration cycles for advanced exergy analysis.” 8th International Exergy, Energy and Environment Symposium. IEEEES-8., Antalya, Turkey.
13. **A. Ustaoglu**, M. Alptekin, (2016) “Energetic and Exergetic Approach to a Geothermal Energy Powered Organic Rankine Cycles.” 2th International Conference on Engineering and Natural Science. ICENS-2 2016., Sarajevo, Bosnia.
 14. M. Alptekin, **A. Ustaoglu**, R. Selbas. (2016) “A parametric Study of a Reheat Organic Rankine Cycles (ORC).” 2th International Conference on Engineering and Natural Science. ICENS-2 2016., Sarajevo, Bosnia.
 15. S. Ertaş, M. Alptekin, **A. Ustaoglu**, (2016) “Thermodynamic Analysis of Waste Heat Recovery of Coal Drying Section in Cement Fabric using Organic Rankine Cycles (ORC)”. 2th International Conference on Engineering and Natural Science. ICENS-2 2016., Sarajevo, Bosnia.
 16. **A. Ustaoglu**, J. Okajima, M. Alptekin, X.-R. Zhang, S. Maruyama, (2016), Advanced Exergy Analysis of a Non-imaging Solar Concentrator Powered Organic Rankine Cycle (ORC). Thirteenth International Conference on Flow Dynamics ICFD2016, Sendai, Japan.
 17. **A. Ustaoglu**, M. Alptekin, A Preliminary Assessment of Working Fluids as an Optical Filter in a Concentrator Photovoltaic (CPV). Thirteenth International Conference on Flow Dynamics ICFD2016, Sendai, Japan.
 18. **A. Ustaoglu**, M. Alptekin, (2017), Considering of V-trough Concentrator and Compound Parabolic Concentrator (CPC) for Concentrating Photovoltaic Applications. Fourteenth International Conference on Flow Dynamics ICFD2017, Sendai, Japan.
 19. **A. Ustaoglu**, M. Alptekin, (2017), Advanced Exergy Analysis of Waste Heat Powered Combined Power Generation and Refrigeration System. Fourteenth International Conference on Flow Dynamics ICFD2017, Sendai, Japan.
 20. **A. Ustaoglu**, K. Kurtoğlu, O. Gencil, E. Erdoğan, M.S. Gök, (2017) “Effect of paper waste reinforced clay bricks on building energy cost”, International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT2017), 2017, Tokat, Turkey
 21. **A. Ustaoglu**, M. Alptekin, B. Parilti. (2017) “Energy and exergy analysis of an absorption refrigeration system” International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT2017), 2017, Tokat, Turkey
 22. **A. Ustaoglu**, K. Kurtoğlu, O. Gencil, E. Erdoğan, M.S. Gök, (2017), “Evaluation of building energy performance with paper waste reinforced clay brick”, International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT2017), Tokat, Turkey
 23. **A. Ustaoglu**, M. Alptekin, (2017) “Evaluation of Improvement Potential of Vapor-Compression Refrigeration Cycle Using Advanced Exergy Analysis Method” International Advanced Researches & Engineering Congress-2017 (IAREC2017), Osmaniye, Turkey
 24. **A. Ustaoglu**, M. Alptekin, (2017) “Thermodynamic Evaluation of Vapor-Compression Refrigeration Cycle Using Advanced Exergy Analysis Method” International Advanced Researches & Engineering Congress-2017 (IAREC2017), Osmaniye, Turkey
 25. **A. Ustaoglu**, U. Ozbey, (2018), Assessment of temperature effect on performance of PV-V-trough and CPC systems. Fifteenth International Conference on Flow Dynamics ICFD2018, Sendai, Japan.
 26. **A. Ustaoglu**, U. Ozbey, (2018), An Experimental Evaluation of Temperature Effect on Performance of PV- CPC Systems. Fifteenth International Conference on Flow Dynamics ICFD2018, Sendai, Japan.

ARAŞTIRMA PROJELERİ:

1. Yürütücü, Özgün Bir Birleşik Parabolik Yoğunlaştırıcı-Fotovoltaik Termal Sistem (Pvt-Cpc) Tasarımı, Kurulumu Ve Performansının Değerlendirilmesi, (TÜBİTAK – 93.195 TL), 2017-2019.
2. Yürütücü, V-Oluk Tipi Yoğunlaştırıcıların Fotovoltaik Uygulamalar İçin Değerlendirilmesi (BAP – 9.766 TL) 2018-2019
3. Yürütücü, Katı Atık Güç Santrali Organik Rankine Çevriminin Analitik Ve Deneysel Olarak İncelenmesi (BAP – 9.660 TL) 2018-2019