

CURRICULUM VITAE

Dr. DIMITRIS S. MANOLAKOS

Mechanical Engineer of NTUA

March 2014

1. PERSONNAL DATA

Family name Manolakos
Name Dimitris
Date of birth 29 June 1970
Marrital status Married – two children
Business adress Agricultural University of Athens
Department of Agricultural Engineering
75, Iera odos street, 11855 Athens Greece

Pisition Lecturer
Phone +30-210-5294036
FAX +30-210-5294023
e-mail dman@aua.gr

2. Studies

Year	Institution	Title
1994	National Technical University of Athens	Dipl. Ing Mechanical Engineer

Year	Institution	Title
2006	Agricultural University of Athens	Research Doctoral Degree

3. WORK EXPERIENCE

Period	Institute	Title
1994-2013	Agricultural University of Athens	Researcher-project manager in RTD projects
	National Technical University of Athens	Researcher-project manager in RTD projects
April 2013- today	Agricultural University of Athens	Lecturer in the dept. of Natural Resources Management and Agricultural Engineer

4. PARTICIPATION IN SCIENTIFIC ORGANISATION AND CHAMBERS

- Technical Bureau of Greece
- EurAgEng, (European Society of Agricultural Engineers).
- European Desalination Society
- ASME

5. TEACHING DUTIES

Lectures at AUA:

- i) Mechanical Drawing, 1st Semester

- ii) Renewable Energy Sources, 6th Semester
- iii) Heat and Mass Transfer, 6th Semester
- iv) Internal Combustion and Refrigeration Engines, 7th Semester
- v) Fuels-Combustion-Heat Production and Distribution, 7th Semester
- vi) Energy Efficiency, 8th Semester
- vii) RES Technologies, 9th Semester

6. RTD WORK – PARTICIPATION IN RTD PROJECTS

6.1. RTD FIELDS

- Renewable Energy Sources applications, emphasizing on small scale autonomous systems for rural electrification, water pumping and desalination.
- Energy efficiency and thermal applications for power generation and water treatment, through exploiting thermal sources (i.e. waste heat, solar, geothermal) with Organic Rankine Cycle energy conversion technology.

6.2. PROJECTS

Researcher, project manager or coordinator in 24 RTD projects, most of them financed by the European Commission. Details on the projects are provided in *Annex I: RTD projects*.

7. ACKNOWLEDGEMENT OF RTD WORK

7.1. REVIEWER

Reviewer in the following international journals:

- *Energy-The International Journal*
- *Desalination*
- *Applied Energy*

7.2. CITATIONS*

There have been found 349 citations in SCOPUS excluding self-citations of all authors. The h-index is 13 for the period 1998-March 2014.

8. PARTICIPATIONS IN CONFERENCES

Participation in the following conferences with oral or poster presentations.

- National conference "*Fifth National Conference of IST for the renewable sources*"; Athens Greece 6-8 November, 1996
- International conference, "*Mediterranean conference on Renewable Energy Sources for Water Production*", 10-12 June 1996, Santorini, Greece
- International conference "*XIIIth CIGR International Congress on Agricultural Engineering*"; Rabat, Morocco, 2-6 February 1998.
- International conference "*2nd world conference and exhibition on photovoltaic solar energy conversion*"; Vienna, 6-10 July 1998

* from Scopus

- International conference "12th European Conference on Biomass for Energy, Industry and Climate Protection" 17-21 June 2002, Amsterdam, The Netherlands
- International conference "MEDRC International Conference on Desalination Costing", 2004, Limassol
- International conference "Eurosun2004, 20-23" 20-23 June 2004, Freiburg, Germany
- International conference "Desalination and the Environment", Santa Margherita, Italy, 22-26 May 2005.
- International conference "Solar desalination for the 21st Century", 2007
- International conference "Desalination strategies in South Mediterranean Countries", 21-25/6/2006, Montpellier, France
- International conference "International Conference on Environmental Management, Engineering, Planning and Economics" Skiathos, June 24-28, 2007
- International conference "1st International Seminar on ORC Power Systems (ORC2011)", Delft, The Netherlands, 22-23 September 2011.
- International conference "WIN4Life International Conference", Tinos island, Greece, 19-21 September 2013.
- International conference "EU PV Solar Energy Conference and Exhibition 2013" (EU PVSEC 2013), Paris, France, 30 September-4 October 2013.
- International conference "2nd Int. Seminar on ORC Power Systems (ORC2013)", Rotterdam, The Netherlands, 7-8 October 2013

9. PUBLICATIONS

There are 33 scientific works distributed as follows:

- PhD thesis.
- 17 papers with peer review published in international journals.
- 2 papers published in the proceedings of international conferences with full paper review.
- 13 papers published in the proceedings of international conferences with abstract review.
- 1 paper published in national conference proceedings.

All publications are included in *ANNEX II: PUBLICATIONS*

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ANNEX I: RTD Projects

1. 1993-1996. *Theoretical and Experimental Investigation of Greenhouse Transmissivity in Solar Radiation as a Function of Geometry, Orientation and Latitude.*

Coordinating organisation: AUA

Funded by: Greek Secretariat of Research and Technology

Project budget: 30,000 €

Role in the project: Key researcher

2. 1993-1996. *Development of a Stand-Alone PV power System for Remote Villages, Making Use of Pumped Water as Energy Storage. An Intelligent Integration of a PV Power System in a Remote Village with Partial Central and Decentral PV Power.*

Coordinating organisation: AUA

Funded by: European Commission- JOULE2 Programme

Project budget: 1,159,500 €

Role in the project: Key researcher

3. 1994-1995. *Hybrid Renewable Energy Systems in Donoussa and La Graciosa Islands, as Prototype Systems for Applying Desalination to Small Villages in Mediterranean Islands and Isolated Coastal Areas, by Using Local Energy Sources for Electricity production. DG XVII WSME.*

Coordinating organisation: AUA

Funded by: European Commission- DG XVII WSME

Project budget: 150,000 €

Role in the project: Key researcher

4. 1997-1999. *Follow up activities concerning the promotion of hybrid renewable energy technologies in Eastern Europe.*

Coordinating organisation: AUA

Funded by: European Commission- DG XVII WSME- INCO-COPERNICUS programme

Project budget: 275,000 €

Role in the project: Key researcher

5. 1998-1999. *Visits-training on photovoltaic applications.*

Coordinating organisation: AUA

Funded by: European Commission- DG XVII WSME- INCO-COPERNICUS programme

Project budget: 134,000 €

Role in the project: Key researcher

6. 1997-2000. *Development and application of a water pumping system for remote areas consisted of photovoltaic modules, inverter and a new type of an asynchronous pump motor.*

Coordinating organisation: AUA

Funded by: European Commission- DG XVII WSME- INCO-COPERNICUS programme

Project budget: 380,000 €

Role in the project: Key researcher

7. 1998-2001. *Solar-thermally driven desalination system with corrosion-free collectors and 24-hours per day storage.*

Coordinating organisation: FhG-Fraunhofer

Funded by: European Commission- DG XII JOULE III programme

Project budget: 500,000 €

Role in the project: Key researcher

8. 1998-2002. 64.000 €, *Optimisation of RO Desalination Systems Powered by Renewable Energies.*

Coordinating organisation: University of Las Palmas-Gran Canaria

Funded by: European Commission- JOULE programme

Role in the project: Key researcher

9. 1999-2001. *Development of an autonomous solar thermally driven distillation system.*

Coordinating organisation: AUA

Funded by: European Commission- CRAFT programme

Project budget: 1,000,000 €

Role in the project: Key researcher

10. 1999-2002. *Contribution of Biomass District Heating to Sustainable Regional Development.*

Coordinating organisation: Dimosineteristiki Evros S.A.

Funded by: European Commission- ECOS-OUVERTURE programme

Project budget: 1,146,490 €

Role in the project: Key researcher

11. 2002. *Development of an Autonomous Desalination System, Consisted of a Solar Assisted Heat Pump and a Micro CHP Turbine.*

Coordinating organisation: AUA

Funded by: European Commission- CRAFT-Exploratory award programme

Project budget: 25,000 €

Role in the project: Key researcher

12. 2002-2004. *Development of an Autonomous Biomass-Solar Thermally Driven Distillation System.*

Coordinating organisation: AUA

Funded by: European Commission- CRAFT programme

Project budget: 853,145 €

Role in the project: Key researcher

13. 2004-2006. *Development of an Autonomous Low-Temperature Solar Rankine Cycle System for Reverse Osmosis Desalination (RO-Solar Rankine).*

Coordinating organisation: AUA

Funded by: European Commission- Cooperative Reserch programme

Project budget: 1,516,000 €

Role in the project: Manager-Key researcher

14. 2005-2007. *Improvement of Performance of an RO desalination System powered by a Low Temperature Organic Rankine Cycle System. In-depth investigation of Technical parameters that Affect on.*

Coordinating organisation: AUA

Funded by: Greek General Secretariat of Research and Technology-Collaboration between Greece an US programme

Project budget: 60,000 €

Role in the project: Key researcher

15. 2003-2008. *Autonomous desalination system concepts for sea water and brackish water in rural areas with renewable energies – potentials, technologies, field experience, socio-technical and socio-economic impacts, (ADIRA).*

Coordinating organisation: AUA

Funded by: European Commission- MEDA programme

Project budget: 3,411,573 €

Role in the project: Manager-Key researcher

16. 2006-2008. *Energy for cohesion.*

Coordinating organisation: WIP-Renewables

Funded by: European Commission- Intelligent Energy Europe programme

Project budget: 1,196,400 €

Role in the project: Key researcher

17. 2008-2011. *Development and laboratory testing of improved action and Matrix hydro turbines designed by advanced analysis and optimisation tools.*

Coordinating organisation: NTUA

Funded by: European Commission- Cooperative research programme

Project budget: 3,277,244 €

Role in the project: Manager

18. 2008-2010. *Promotion of Renewable Energy for Water Production through Desalination.*

Coordinating organisation: WIP-Renewables

Funded by: European Commission- Intelligent Energy Europe programme

Project budget: 1,023,594 €

Role in the project: Manager-Key researcher for Hellas Energy partner

19. 2010-2013. *Regional Networks for the development of a Sustainable Market for Bioenergy in Europe.*

Coordinating organisation: WIP-Renewables

Funded by: European Commission- Intelligent Energy Europe programme

Project budget: 1,499,608 €

Role in the project: Key researcher

20. 2011-2014. *Development and Experimental Evaluation of a Two-Stage Autonomous Solar Organic Rankine Cycle System for RO Desalination.*

Coordinating organisation: AUA

Funded by: Greek General Secretariat of Research and Technology-Cooperation 2009 programme

Project budget: 731,673.29 €

Role in the project: Manager-Key researcher

21. 2011-2014. *Fasciliating Energy Storage to Allow High Penetration of Intermittent Renewable Energy.*

Coordinating organisation: WIP-Renewables

Funded by: European Commission- Intelligent Energy Europe programme

Project budget: 1,643,642 €

Role in the project: Key researcher

22. 2012-2015. *Renewable Energy Sources Transforming Our Regions - Hydro.*

Coordinating organisation: ESHA-Belgium

Funded by: European Commission- Intelligent Energy Europe programme

Project budget: 2,581,853 €

Role in the project: Manager-Key researcher for NTUA partner

23. 2012-2015: *Development of a small-scale Low Temperature Super Critical Organic Rankine Cycle with Optimised Expander and Evaporator.*

Coordinating organisation: Hellas Energy

Funded by: Greek General Secretariat of Research and Technology-Cooperation 2011 programme

Project budget: 769.359,38 €

Role in the project: Manager-Key researcher

24. 2013-2014. *Coordinator: Improving the Performance of Concentrating PV by Exploiting the Excess Heat through a Low Temperature Supercritical Organic Rankine Cycle.*

Coordinating organisation: AUA

Funded by: European Commission- Research for SMEs programme

Project budget: 1,247,525 €

Role in the project: Coordinator-Key researcher

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ANNEX II: PUBLICATIONS

PhD Thesis

Title: Design and Experimental Evaluation of a Low Temperature Solar Organic Rankine Cycle System for Reverse Osmosis Desalination, Agricultural University of Athens, 2006, 181 pages.

I. Peer reviewed publications in international journals

I.1) Papadakis, G., Manolakos, D., Kyritsis, S.

Solar radiation transmissivity of a single-span greenhouse through measurements on scale models (1998) Journal of Agricultural Engineering Research, 71 (4), pp. 331-338.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0039391459&partnerID=40&md5=a7f74c2ca33a9a6bd14401b1bd5de1cd>

SCOPUS citations: 22

I.2) Manolakos, D., Papadakis, G., Papantonis, D., Kyritsis, S.

A simulation-optimisation programme for designing hybrid energy systems for supplying electricity and fresh water through desalination to remote areas case study: The Merssini village, Donoussa island, Aegean Sea, Greece

(2001) Energy, 26 (7), pp. 679-704.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0035395757&partnerID=40&md5=be9b2584d3ef57ec4d5bb0ec3efdb4fc>

SCOPUS citations: 43

I.3) Manolakos, D., Papadakis, G., Papantonis, D., Kyritsis, S.

A stand-alone photovoltaic power system for remote villages using pumped water energy storage (2004) Energy, 29 (1), pp. 57-69.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-0142187171&partnerID=40&md5=4e6340048bc7f13aff959ba015367530>

SCOPUS citations: 28

I.4) Manolakos, D., Papadakis, G., Mohamed, E.Sh., Kyritsis, S., Bouzianas, K.

Design of an autonomous low-temperature solar Rankine cycle system for reverse osmosis desalination

(2005) Desalination, 183 (1-3), pp. 73-80.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-27944471387&partnerID=40&md5=4bcb7f0b3ce001d437fb7741ca74386c>

SCOPUS citations: 26

I.5) Manolakos, D., Papadakis, G., Kyritsis, S., Bouzianas, K.

Experimental evaluation of an autonomous low-temperature solar Rankine cycle system for reverse osmosis desalination

(2007) Desalination, 203 (1-3), pp. 366-374.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-33846417306&partnerID=40&md5=e68049f7f48bb9b7d7006a98be4598f0>

SCOPUS citations: 46

I.6) Manolakos, D., Mohamed, E.Sh., Karagiannis, I., Papadakis, G.

Technical and economic comparison between PV-RO system and RO-Solar Rankine system. Case study: Thirasia island

(2008) Desalination, 221 (1-3), pp. 37-46.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-38349066246&partnerID=40&md5=d6bd8d41b379544f6af2747f86b1dcb4>

SCOPUS citations: 20

I.7) Kosmadakis, G., Manolakos, D., Kyritsis, S., Papadakis, G.

Simulation of an autonomous, two-stage solar organic Rankine cycle system for reverse osmosis desalination

(2009) Desalination and Water Treatment, 1 (1-3), pp. 114-127.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-73249136722&partnerID=40&md5=717d7c160041d2d76f25c421730da9f5>

SCOPUS citations: 5

I.8) Manolakos, D., Kosmadakis, G., Kyritsis, S., Papadakis, G.

On site experimental evaluation of a low-temperature solar organic Rankine cycle system for RO desalination

(2009) Solar Energy, 83 (5), pp. 646-656.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-63449105186&partnerID=40&md5=a36bfb21af6ab6c8bcbfd4524691a098>

SCOPUS citations: 37

I.9) Kosmadakis, G., Manolakos, D., Kyritsis, S., Papadakis, G.

Economic assessment of a two-stage solar organic Rankine cycle for reverse osmosis desalination

(2009) Renewable Energy, 34 (6), pp. 1579-1586.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-59049088984&partnerID=40&md5=115096d077b3f5707c7ba08ea0e12dcc>

SCOPUS citations: 15

I.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

(2009) Energy, 34 (6), pp. 767-774.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-67349250900&partnerID=40&md5=4d351685e27a896ebb3b049ce30d85b6>

SCOPUS citations: 32

I.11) Kosmadakis, G., Manolakos, D., Kyritsis, S., Papadakis, G.

Comparative thermodynamic study of refrigerants to select the best for use in the high-temperature stage of a two-stage organic Rankine cycle for RO desalination

(2009) Desalination, 243 (1-3), pp. 74-94.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-65549131518&partnerID=40&md5=9fdc7ae4e8494ce3931aa43fe06c6a07>

SCOPUS citations: 21

I.12) Kosmadakis, G., Manolakos, D., Kyritsis, S., Papadakis, G.

Design of a two stage Organic Rankine Cycle system for reverse osmosis desalination supplied from a steady thermal source

(2010) Desalination, 250 (1), pp. 323-328.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-71849095737&partnerID=40&md5=05499d4ef1a0458badb7095c6c11dbee>

SCOPUS citations: 14

I.13) Kosmadakis, G., Manolakos, D., Papadakis, G.

Parametric theoretical study of a two-stage solar organic Rankine cycle for RO desalination

(2010) Renewable Energy, 35 (5), pp. 989-996.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-73249114202&partnerID=40&md5=fcc94bcfc91dd71732c16a14b3b4ce17>

SCOPUS citations: 15

I.14) Karellas, S., Terzis, K., Manolakos, D.

Investigation of an autonomous hybrid solar thermal ORC-PV RO desalination system. The Chalki island case

(2011) Renewable Energy, 36 (2), pp. 583-590.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-77957354596&partnerID=40&md5=c8e5338bd658ae1d6ce7e59cf48d7af0>

SCOPUS citations: 6

I.15) Kosmadakis, G., Manolakos, D., Papadakis, G.

Simulation and economic analysis of a CPV/thermal system coupled with an organic Rankine cycle for increased power generation

(2011) Solar Energy, 85 (2), pp. 308-324.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-78651347243&partnerID=40&md5=023afac5c6cf232af76445b7097676f4>

SCOPUS citations: 15

I.16) Li, C., Kosmadakis, G., Manolakos, D., Stefanakos, E., Papadakis, G., Goswami, D.Y.

Performance investigation of concentrating solar collectors coupled with a transcritical organic Rankine cycle for power and seawater desalination co-generation

(2013) Desalination, 318, pp. 107-117.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84876979795&partnerID=40&md5=29bca7304b075afa7cbc3ec1c7ac09aa>

SCOPUS citations: 3

I.17) Kosmadakis, G., Manolakos, D., Papadakis, G.

An investigation of design concepts and control strategies of a double-stage expansion solar organic Rankine cycle

(2013) International Journal of Sustainable Energy, . Article in Press.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-84881534424&partnerID=40&md5=d84c1403a038d41162d1e46b0dd5aa2a>

SCOPUS citations: 0

II. Publications in proceedings of international conferences with paper review

II.1. D. Manolakos, S. Kyritsis, G. Papadakis, J. Karagiannis, P. Soldatos

Cost analysis and Economic Evaluation of an Autonomous Low-Temperature Solar Rankine Cycle System for Reverse Osmosis Desalination-Comparison with a Simple Solar Still.

WSEAS Transactions on environment and Development 1 (2005) 205-211

II.2. Papadakis, G., Mohamed, E.Sh., Manolakos, D.

Small autonomous RO desalination systems powered by renewable energies. Technological advances and economics

(2007) NATO Security through Science Series C: Environmental Security, pp. 293-303.

<http://www.scopus.com/inward/record.url?eid=2-s2.0-34249282671&partnerID=40&md5=fc899563e2385c8ea0490b9e265938dc>

SCOPUS citations: 1

III. Publications in proceedings of international conferences with abstract review

III.1. G. Papadakis, D. Manolakos, S. Kyritsis

Greenhouse design for best solar transmissivity through mathematical modeling and measurements under scale greenhouse models. AgEng'96 Conference on Agricultural Engineering, Madrid (Spain) 23-26 September 1996

III.2. G. Papadakis, D. Manolakos, D. Papantonis, S. Kyritsis

A hybrid renewable energy system for supplying electricity and fresh water through desalination to remote areas. Mediterranean Conference on Renewable Energy Sources for Water Production, Santorini Greece, 10-12 June 1996, pp. 265-270.

III.3. G. Papadakis, D. Manolakos, D. Papantonis, S. Kyritsis

A Stand Alone Photovoltaic Power System for Remote Villages Using of Pumped Water Energy Storage. 2-6 February 1998, Rabat, Morocco Vol. 4, pp 165-177

III.4. L. Kalivroussis, D. Manolakos, G.Papadakis

Technical and Economic Evaluation of PV Water Pumping Systems Based on a DC-Driven Positive Displacement Pump. 2nd world conference and exhibition on photovoltaic solar energy conversion, Vienna, 6-10 July 1998, Proceedings, vol 3, pp. 3186-3189

III.5. Farkas, I., Buzás, J., Seres, I., Pradescu, M., Bartha, S. Nita, I., Papadakis, G. and Manolakos, D.

Development of a hybrid system for ornamental tree garden and grape farm applications satisfying the energy and water needs.

World Renewable Energy Congress V, 20-25 September 1998, Florence, Italy, (In Four Parts), Edited by: A A M Sayigh, Part IV, pp. 2239-2242.

III.6. Manolakos D., Sooter C., Kalivroussis L., Kyritsis S.,

Contribution of Biomass District Heating to Sustainable Regional Development.

12th European Conference on Biomass for Energy, Industry and Climate Protection, 17-21 June 2002, Amsterdam, The Netherlands, pp. 1431-1433

III.7. D. Manolakos, G. Makris G. Papadakis and S. Kyritsis

Autonomous Low-Temperature Solar Rankine Cycle System for Reverse Osmosis Desalination. Eurosun2004, 20-23 June 2004, Freiburg, Germany, Vol.1, pp. 453-459

III.8. Essam Sh. Mohamed, D. Manolakos and P. Soldatos

Design of an autonomous brackish water reverse osmosis (BWRO) desalination plant powered by photovoltaics and battery bank, a case study for Cyprus.

MEDRC International Conference on Desalination Costing., 6-8 December 2004, Limassol, Cyprus pp. 317-321.

III.9. G. Kosmadakis, D. Manolakos, S. Kyritsis, G. Papadakis and K. Bouzianas

Design of an autonomous, two stages solar organic Rankine cycle system for reverse osmosis desalination.

Proceedings of the International Conference on Environmental Management, Engineering, Planning and Economics Skiathos, June 24-28 2007, Vol. 2, pp. 1267-1272

III.10. Kosmadakis G, Manolakos D, Papadakis G.

Investigating the double-stage expansion in a solar ORC.

1st International Seminar on ORC Power Systems (ORC2011), Delft, The Netherlands, 22-23 September 2011.

III.11. Kosmadakis G, Manolakos D, Papadakis G.

Investigation of Multiple Reverse Osmosis Sub-Units Coupled to a Small-Scale Solar Subcritical Organic Rankine Cycle Engine.

Proceedings of WIN4Life Int. Conference, Tinos island, Greece, 19-21 September 2013.

III.12. Kosmadakis G, Manolakos D, Papadakis G.

Low-concentration PV/T combined with a low temperature supercritical organic Rankine engine for increased power production by exploiting PV waste heat.

Proceedings of EU PV Solar Energy Conference and Exhibition 2013 (EU PVSEC 2013), Paris, France, 30 September-4 October 2013.

III.13. Kosmadakis G, Manolakos D, Ntavou E, Papadakis G.

Implementation of a two-stage organic Rankine cycle using scroll expanders operating under variable heat input.

Poster presentation at the 2nd Int. Seminar on ORC Power Systems (ORC2013), Rotterdam, The Netherlands, 7-8 October 2013

http://www.asme-orc2013.nl/program/show_slot/14

III.14. Kosmadakis G, Manolakos D, Bouzianas K, Papadakis G.

Heat recovery in low-concentration PV/thermal units using a low-temperature supercritical organic Rankine cycle for improved system performance.

Oral presentation at the 2nd Int. Seminar on ORC Power Systems (ASME-ORC2013), Rotterdam, The Netherlands, 7-8 October 2013

<http://www.asme-orc2013.nl/program/day/1>

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