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Module 6

Module 6: ARDI Portal/Other Resources

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Wind turbine wake aerodynamics

by L. J. Vermeer A, J. N. Sørensen B, A. Crespo C

"... Progress in Aerospace Sciences 39 (2003) 467–510 Wind turbine wake aerodynamics L.J. Vermeer a ..."

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ARTICLE IN PRESS The aerodynamics of horizontal axis wind turbine

For each article, there is an abstract. To get full-text articles, copy the citation (or add to MetaCart) and look in ARDI or another R4L programs' portals.

Implementation of Wind Turbine Controllers

by W.E. Leithead, Department Of Electronic, Electrical Engineering

"... IMPLEMENTATION OF WIND TURBINE CONTROLLERS D.J.Leith W.E.Leithead De

Abstract - Cited by 2 (1 self) - Add to MetaCart

Wind Turbine Pitch Optimization

by Benjamin Biegel, Morten Juelsgaard, Matt Kraning, Stephen Boyd, Jakob Stoustrup, A. Description

"... -Conference on Systems and Control Denver, CO, USA. September 28-30, 2011 Wind Turbine Pitch Optimization Benjamin Biegel ..."

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VARIABLE SPEED WIND TURBINE

by Chatinderpal Singh

"... & ADVANCED TECHNOLOGY Volume-2, Issue-3, 652 – 656 VARIABLE SPEED WIND TURBINE Chatinderpal Singh Student ..."

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to systems and control researchers. In this paper we study the pitch control mechanism of wind turbine

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Articles

A comparison of the sensitivity of wound activity of **manuka** honey and other
DJ Willix, PC Molan, CG Harfoot - Journal of Applied ..., 1992 - Wiley Online Library
Seven major wound-infecting species of bacteria were studied to compare their sensitivity to the non-peroxide **antibacterial** activity of **manuka** honey and to a honey in which the **antibacterial** activity was primarily due to hydrogen peroxide. Honeys with activity in the ...
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Susceptibility of *Helicobacter pylori* to the **antibacterial** activity of **manuka** honey
NAI Somal, KE Coley, PC Molan... - Journal of the Royal ..., 1994 - jrs.sagepub.com
Abstract Honey is a traditional remedy for dyspepsia, and is still used for this by some medical practitioners although there is no rational basis for its use. The finding that *Helicobacter pylori* is probably the causative agent in many cases of dyspepsia has raised ...
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The 1, 2-dicarbonyl compounds 3-deoxyglucosulose (3-DG), glyoxal (GO), and methylglyoxal (MGO) were measured as the corresponding quinoxalines after derivatization with orthophenylenediamine using RP-HPLC and UV-detection in commercially available ...
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Research Article

Identification and quantification of methylglyoxal as the dominant antibacterial constituent of Manuka (*Leptospermum scoparium*) honeys from New Zealand

Elvira Mavric¹, Silvia Wittmann¹, Gerold Barth² and Thomas Henle¹

¹Institute of Food Chemistry, Technische Universität Dresden, Dresden, Germany

²Institute of Microbiology, Technische Universität Dresden, Dresden, Germany

The 1,2-dicarbonyl compounds 3-deoxyglucosulose (3-DG), glyoxal (GO), and methylglyoxal (MGO) were measured as the corresponding quinoxalines after derivatization with orthophenylendiamine using RP-HPLC and UV-detection in commercially available honey samples. Whereas for most of the samples values for 3-DG, MGO, and GO were comparable to previously published data, for six samples of New Zealand Manuka (*Leptospermum scoparium*) honey very high amounts of MGO were found, ranging from 38 to 761 mg/kg, which is up to 100-fold higher compared to conventional honeys. MGO was unambiguously identified as the corresponding quinoxaline *via* photodiode detection as well as by means of mass spectroscopy. Antibacterial activity of honey and solutions of 1,2-dicarbonyl towards *Escherichia coli* (*E. coli*) and *Staphylococcus aureus* (*S. aureus*) were analyzed using an agar well diffusion assay. Minimum concentrations needed for inhibition of bacterial growth (minimum inhibitory concentration, MIC) of MGO were 1.1 mM for both types of bacteria. MIC for GO was 6.9 mM (*E. coli*) or 4.3 mM (*S. aureus*), respectively. 3-DG showed no inhibition in concentrations up to 60 mM. Whereas most of the honey samples investigated showed no inhibition in dilutions of 80% (v/v with water) or below, the samples of Manuka honey exhibited antibacterial activity when diluted to 15–30%, which corresponded to MGO concentrations of 1.1–1.8 mM. This clearly demonstrates that the pronounced antibacterial activity of New Zealand Manuka honey

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Information literacy and international capacity development initiatives in life sciences: AGORA, OARE, HINARI, **ARDI** (Research4Life-R4L)
T Bartol - European Conference on Information Literacy, 2013 - Springer
... AGORA/FAO (2003), OARE/UNEP (2006), HINARI/WHO (2003) and **ARDI/WIPO** (2009), commonly referred to as Research4Life (R4L), are associated global initiatives in the life sciences (agriculture, food, nutrition, medicine, health, environment) founded with the purpose of ...
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WIPO services for access to patent information-Building patent information infrastructure and capacity in LDCs and developing countries
Y Takagi, A Czajkowski - World Patent Information, 2012 - Elsevier
... As described below, **WIPO** has launched three important projects (TISCs, **aRDi** and ASPI) to improve services for access to knowledge. 5. TISCs as a driver of innovation strategy ... [14] See further details at <http://www.wipo.int/ardi/en> ...
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M Blackman - World Patent Information, 2009
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UZT Develops - Citeseer
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(solar panel*) |

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Publications (7361)

[Maximum power point tracking for low power photovoltaic solar panels](#) (Citations: 29)

Mehmet BODUR, Mummer ERMIS

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Conference: MELECON - IEEE Mediterranean Electrotechnical Conference - MELECON, 1994

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Journal: IEEE Transactions on Power Electronics - IEEE TRANS POWER ELECT, vol. 18, no. 3, pp. 717-724, 2003

[Calculation of the optimum installation angle for fixed solar-cell panels based on the genetic algorithm and the Simulated annealing method](#) (Citations: 28)

Yaow-Ming Chen, Chien-Hsing Lee, Hsu-Chin Wu

...installation angle for the fixed solar-cell panels based on the genetic algorithm...the output power of the solar-cell panel is highly affected by the...

Journal: IEEE Transactions on Energy Conversion

[Photovoltaic solar panel for a hybrid system](#)

R. Zakharchenko, L. Licea-Jiménez, S. A. Hernández, Yu. Vorobiev

...was studied, with the photovoltaic panel panels in the system was investigated...the

Journal: Solar Energy Materials and Solar

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Yaow-Ming Chen, Chien-Hsing Lee, Hsu-Chin Wu

...installation angle for the fixed solar-cell panels based on the genetic algorithm...the output power of the solar-cell panel is highly affected by the...

Journal: IEEE Transactions on Energy Conversion - IEEE TRANS ENERG

[Photovoltaic solar panel for a hybrid PV/thermal system](#) (Citations: 7)

R. Zakharchenko, L. Licea-Jiménez, S. A. Pérez-García, P. Vorobiev, U. Hernández, Yu. Vorobiev

...was studied, with the photovoltaic panel (pvp) area much smaller than that of the solar collector. performance of the different panels in the system was investigated...the thermal contact between the panel and the collector. our conclusion...

Journal: Solar Energy Materials and Solar Cells - SOLAR ENERG MATER SOLAR CELLS, vol. 82, no. 1, pp. 253-261, 2004

[A microstrip reflectarray using crossed dipoles](#) (Citations: 7)

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- 2012 (16)
- 2011 (9)

Author Name

- Short, T.D. (3)
- Siddique, A.R.M. (3)
- Billings, L. (2)
- Ehrenfreund, P. (2)
- Ansdell, M. (2)

Subject Area

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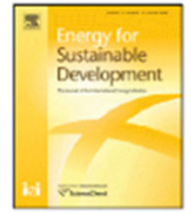
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Kevin Ark Kumar ^{a,*}, K. Sundareswaran ^b, P.R. Venkateswaran ^c

^a Bharat Heavy Electricals Limited (BHEL), Maintenance and Services, Tiruchirappalli 620014, India
^b Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli 620015, India
^c Bharat Heavy Electricals Limited (BHEL), Welding Research Institute, Tiruchirappalli 620014, India

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ABSTRACT

This paper discusses the details and results obtained from a study carried out on a roof top 20 kW_p solar photovoltaic (PV) power plant in a reputed manufacturing industry in India. Although there is plenty of sunshine, various financial supports and government policies, the growth of photovoltaic (PV) power plants in developing countries is still facing significant barriers due to unclear techno-economic aspects of the PV power plant. Therefore this paper highlights a few salient features of the installation, operational performance and economic calculations of a grid connected solar photovoltaic (PV) power plant. A few important aspects of solar power plant installation such as the feasibility of location in terms of climatic data, solar radiation, orientation, distance, interfac-

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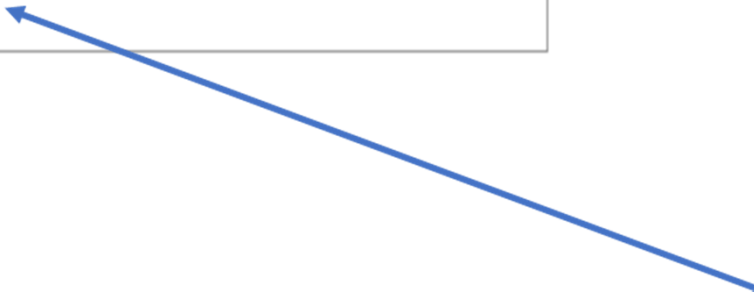
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