

RESUMÉ

I General Information

Name : K.UMA MAHESWARI
Father's Name : K.Krishnan
Age : 53 Years
Designation : Associate Professor
Department : PHYSICS
Email ID : umannt@gmail.com
Date of appointment : 20.02.1985
Date of retirement : 31.05.2020



II Educational Qualification

Examination Passed	Board/University	Subject	Year of Passing
SSLC	Board of Secondary Education	Tamil, English, Maths, Science & History & Geography	1978
PUC	Madurai Kamaraj University. Madurai	Physics Chemistry Biology	1979
Bachelor's Degree	Madurai Kamaraj University. Madurai	Physics	1982
Master's Degree	Madurai Kamaraj University. Madurai	Physics	1984
M.Phil	Madurai Kamaraj University. Madurai	Physics	1992
PhD	M.S University.	Physics	Pursuing

III Teaching Experience : UG : 31 Years
PG : 4 Years

Field of Specialization : Thin Films & Solar Thermal Energy Technology

IV Research Experience

Minor Research Project

Topic	Period	Funding Agency	Amount sanctioned in Rs
Experimental investigation on conical shaped Desalination system used for irrigating medicinal plants.	2008-2010	UGC	56,640

No. of papers presented in Seminars / Conferences

International : 2

National : 6

No. of articles published in Books / Conference Proceedings :

Papers presented

Date	Seminar / Conference	Title of the paper	Venue
21.01.2010 - 23.01.2010	National Conference	Design, Fabrication and Performance Evaluation of low cost Conical Shaped Desalination System- UGC Sponsored	V.H.N.S.N .College, Virudrunagar.
15.10.2010	National Conference	Experimental Investigations on Novel Conical Shaped Desalination System	Government Arts & Science College, Melur, Madurai, Tamilnadu.
03.04.2011 - 04.03.2011	National Seminar	Experimental Estimation The Thermal Performances of Copper, Aluminium And Mild Steel Absorber Integrated solar collectors'- sponsored by MNRE, Government of India	V.H.N.S.N .College, Virudrunagar.
22.09.2011 - 23.09.2011	National Seminar	A Study on viability of selected Solar Gadgets'- UGC Sponsored	Département of Commerce, V.V.V.Collège
03.01.2012	National Conférence	Estimation of Thermal Performance of Solar flat plate collectors with variations in number of black chrome coated copper absorber fins.	V.V.V College
09.02.2013	National Seminar	Experimental Investigations Solar Arrays- UGC Sponsored	Amman College of Atrs & Science, Dindugal.
29.09.2014	National Seminar	Thermal analysis on solar collector with nano-chromium coated absorbers- UGC Sponsored	Manonmanium Sundaranar University, Tirunelveli.
11.12.2014 - 13.12.2014	International	Solar heating and cooking systems: An assessment on technical feasibility, thermal performance and mitigation of pollutants	

Articles published in Books / Conference Proceedings

Year	Book title / Conference	ISBN	Article title
2010	Renewable Energy Research.	ISBN: 978-81-908283-7-6 Page no : 67-71	Experimental investigation on conical shaped Desalination system
2011	Innovative Strategy for Technical Developments and Designing New Business Model in Renewable Energy Sector.	ISBN::978-81-910426-6-5 Page no : 40-45	Experimental Estimation The Thermal Performances of Copper, Aluminium and Mild Steel Absorber Integrated solar collectors’-
2011	Energy Conservation and Renewable Energy Technology	Page no : 22	Optical and Thermal Characteristics of integral components of solar thermal gadgets.
2011	Challenges of Commerce Education in the Twenty first century	Page no :316	A Study on viability of selected Solar Gadgets
2012	Science and Technology for Clean and Green Environment	Page no : 88-89	Experimental assessment of the Energy, Environmental and Economic benefits of Flat Plate Collector assisted Solar Thermal Systems.
2013	Multidisciplinary Research Journal of VVVCollege	ISSN:2347-3967 Volume 1- Number 2	Characterization of nano-chromium based absorptive coating on solar Fins
2014	National Seminar on Advances in Material Science	ISBN: 978-93-81402-16-0 Page no : 147-149	Thermal analysis on solar collector with nano-chromium coated absorbers
2014	Solutions to Ecological Challenges: Multidimensional perspectives	ISBN: 978-81-926370-2-0 Page no : 130-135	Solar heating and cooking systems: An assessment on technical feasibility, thermal performance and mitigation of pollutants
2015	Modern Trends in Chemistry	ISBN: 978-93-85109-02-7 Page no :24-28	Studies on Nano-sized carbon coated fin, C/Al ₂ O ₃ coated-absorber and TiO ₂ /Si O ₂ /Ag thin film coated Reflector.

Books published / edited

Year	Book title	Published / edited	ISBN	Publisher
2013	Heat, Thermodynamics & Statistical Mechanics	Published	ISBN:978-81-921895-0-5	Daisy & Darein Publisher Lld, Madurai.

V **No. of Seminars/Conferences/Workshops attended-47**

VI **Course attended (Refresher / Orientation / any other)**

Name of the Course	Venue	Duration
Orientation Course	Bharathidhasan University, Trichy.	03.10.1988 – 31.10.1988
Refresher course in Energy Science	Madurai Kamaraj University, .Madurai	26.02.1996 – 18.03.1996
Refresher course in Physics	Madurai Kamaraj University, .Madurai .	01.02.2000 – 21.02.2000
Refresher course in Value education	Vivekananda College Thiruvudagam, Madurai	23.04.2001 – 14.05.2001

As a member of Board of Studies

University / College	Period	Board
Sri Meenakshi Govt College For Women, Madurai.	2007-2008, 2012-2013	B.Sc, Physics
Devanga Arts College, Aruppukkottai.	2012-2013	B.Sc, Physics
Madurai Kamaraj University, Madurai	2014-2016	B.Sc., Physics
Sri Kaliswari Cllege (Autonomous) Sivakasi.	2014-2016	B.Sc, Physics
Mannar Thirumalai College Madurai	2015-2017	B.Sc, Physics

As a member in

Inspection Commission / Interview Panel / others

Particulars	Date	Venue	Course / Post
CSIR-Research Associate Interview Selection	01.07.2011	Government Arts & Science College, Melur, Madurai, Tamilnadu	Selection committee member.
Selection committee member for the Best Exhibit –INSPIRE AWARD	31.10.2011	K.V.Sala Higher Secondary School, Virudrunagar.	Selection of the Best Exhibit – INSPIRE AWARD Science Exhibition-TNSCST, Chennai

Faculty Development Programme- UGC XII Plan	23.09.2015	Arulmigu Palaniandavar College Arts Culture, Palani	University Nominee for the Verification Process
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IX Seminars / Conferences / Workshops organized

Date	Level	Theme
03.01.2012	National Conference	Recent Trends in Physics
14.02.2014	National Seminar	Emerging Technology in Physics
08.10.2014	National	Recent Trends in Astrophysics.