

Dr.S.SELVAKUMAR

ASSISTANT PROFESSOR

Department of Natural Resources
and Waste Recycling

School of Energy, Environment and
Natural Resources



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Educational Qualifications : M.Sc., PhD

Professional Experience : 28 years

FIELD OF SPECIALIZATION

- Marine Biology
- Marine Environmental Toxicology
- Environmental Sciences
- Solid Waste Management

RESEARCH SPECIALIZATION

- Larval Development of Brachyuran crabs
- Larval Bio-assay Studies
- Water Quality Analysis
- Bio-diesel Production from Non-edible Oilseeds

Research Supervision:

Program	Completed	Ongoing
Ph.D	Five	Two
M.Phil	Five	One

PROFESSIONAL EXPERIENCE

No	Institution	Position	From (date)	To (date)	Duration
1.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai	Research Associate (MKU)	28.12.1990	30.06.1991	6 months & 4 days.
2.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai	Research Associate (CSIR)	01.07.1991	30.06.1996	5 years
3.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai	CSIR-Pool Officer (Senior Research Associate)	21.08.1996	26.7.1999	Two years Eleven months
4.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai	Teaching Assistant	27.07.1999	April, 2002	Three years
5.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai	Guest Lecturer	2002	2010	Eight years
6.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai	Assistant Professor	12.07.2010	Till date	Ten Years

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/Research/Online)
Dr.A.Palavesam	Manonmanium Sundaranar University	Exopoly sacchrides from salt pan bacteria	Arun.,J.S.Selvakumar, R.Sathishkumar, M.Moovendhan, G.ananthan, T.Maruthiah and A.Palavesam. Invitro antioxidant activities of an exopolysaccharides from a salt pan bacterium Halolactibacillus miurensis. Carbohydrate Polymers, 155 : 400 – 407, 2017. (IF 6.015)

Dr.R.Senbagarathai	Lady Doak College	Waste Water Treatment	K.Bhavani, R.A.Begam, S.Selvakumar and R.Senbagarathai Chitosan - A low cost adsorbent for electroplating waste water treatment. Journal of Bioremediation and Biodegradation Vol.7:346, 2016.(IF -0.55)
Dr.K.Sabariswaran	Institute of Energy Research, Jiangsu Univ. China	Biodiesel production and engine performance	Sabriswaran, K. S.Selvakumar Engine performance and emission profile of <i>Simarouba glauca</i> biodiesel and blends. International Journ. Of oil, gas and Coal tech.(2019)- Accepted for publication (IF 0.563)

COMPLETED RESEARCH PROJECT

No	Title of the Project	Funding Agency	Total Grant(Lakh)	Year
1.	Ecological Status and Heavy Metal Pollution of Periyar river, Tamil Nadu, South India	UGC, Govt. of India	11.63	2011 2015
2.	IREP - Sustainable Energy Security System – Thekkampatty cluster, Theni District	MNRE, Govt. of India, New Delhi	1.0	2007 2008
3.	IREP - Sustainable Energy Security System – Maniampatty cluster, Theni District	MNRE, Govt. of India,	1.0	2007 2008
4.	IREP - Sustainable Energy Security System – Megamalai cluster, Theni District	MNRE, Govt. of India, New Delhi	1.0	2007 2008
5.	Biomass Assessment Study at Taluk Level - Kalkulam Taluk, Kanyakumari District	MNES, Govt. of India, New Delhi	1.5	1998
6.	Biomass Assessment Study at Taluk Level - Ambasamudram Taluk, Tirunelveli District	MNES, Govt. of India, New Delhi	1.5	1996
7.	IREP Survey at Block Level - Udangudi Block, Tirunelveli District	MNES, Govt. of India, New Delhi	1.5	1995

HONORS/AWARDS/RECOGNITIONS

- **Research Associate (CSIR), Madurai Kamaraj University, (CSIR) Council of Scientific and Industrial research , Government of India, New Delhi, National level Award, From 01.7.1991 to 30.6.1996.**
- **Pool Officer (Senior Research Associate) (CSIR), Madurai Kamaraj University(CSIR) Council of Scientific and Industrial research , Government of India, New Delhi, National level Award , From 21.8.1996 to 26.7.1999**
- **Best Assistant Professor Award, PEARL – A Foundation for Educational Excellence, Madurai, National level, 10th December, 2016.**
- **Best Presentation Award –II Place. Chemical studies on surface water quality of Mullai Periyar River, Tamil Nadu, India, Department of Immunology and Microbiology, The American College, Madurai National Conference on Frontier vistas in modern Biotechnology, 12th December, 2013.**

PUBLICATIONS

- **Sabriswaran, K. S.Selvakumar, 2019. Engine performance and emission profile of *Simarouba glauca* biodiesel and blends, International Journal of oil, gas and Coal Tech. Accepted for publication (1753-3309), I F: 0.563**
- **Sabariswaran Kandasamy & Selvakumar Sundararaj, 2018. Improvement of emission reduction in nano additive *Simaroubaglauca* biodiesel blends, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 40:16, 1929-1934, DOI: 10.1080/15567036.2018.1488900, I F 0.75.**
- **Arun.J, S.Selvakumar, R.Sathishkumar, M.Moovendhan, G.Ananthan, T.Maruthiah and A.Palavesam, 2017. Invitro antioxidant activities of an exopolysaccharides from a salt pan bacterium *Halolactibacillus miurensis*. Carbohydrate Polymers, 155: 400 – 407: I F: 6.015.**
- **Sabriswaran,K. S.Selvakumar, 2017. Evaluation of engine performance and emission studies of waste cooking oil methyl ester and blends with diesel fuel in marine engine. Indian Journal of Marine Geo Science Vol. 46(02) 284-289. (0379-5136) I F : 0313.**
- **K.Bhavani, R.A.Begam, S.Selvakumar and R.Senbagarathai, 2016. Chitosan - A low cost adsorbent for electroplating waste water treatment. Journal of Bioremediation and Biodegradation Vol.7:346. (104172/2155 61991000 346) I F : 0.5.**
- **R.Deepa and S.Selvakumar, 2015. Preliminary phytochemical Analysis and Antifungal Activity of Methanoloic extract of leaves of *Actinodaphne bourdillonii***

Gamble, *Chemical Science Review and letters*—Vol. 4, (13) 148-152, (2278 – 6783), I F : 4.014.

- K.Roshinibegam and S.Selvakumar, 2015. Assessing of water quality pollution indices for heavy metal contamination of Periyar river, Tamil Nadu, South India, *Chemical Science Review and letters*— Vol.4(13)153-163, (2278 – 6783), I F : 4.014.
- K.Sabariswaran, S.Selvakumar and S.Lavanya, 2015. Biodiesel synthesis from *Pongamia pinnata* oil by acid and alkaline transesterification method, *Chemical Science Review and letters* Vol.4(13) 164-170, (2278 – 6783), I F : 4.014.
- R.Deepa and S.Selvakumar, 2014. Determination of some elements, phytochemical and physicochemical parameters of leaves of *Actinodaphne bourdillonii* Gamble, *Journal of Chem. and Pharmaceutical Sciences* pp45-47, (0974-2115). I F 0.21
- R.Deepa and S.Selvakumar, 2014. GC – MS Analysis of Bioactive constituents of methanolic extract of leaves of *Actinodaphne Bourdillonii*, *International J.Pharma. and Pharmaceutical Sciences*, Vol.6 (10), 212-213, (0975 – 1491) I F : 0.803.
- K.Roshinibegam, S.Selvakumar, K.Murugan and R.Indhumathi, 2014. Analysis of Water quality in different sampling sites of Vaigai river, Tamil Nadu, India. *J.Biosci. Res.* Vol.4,(2),46-53, (0976-2272) .
- V.Karthiga and S.Selvakumar, 2014. Antibacterial activity of ZnO nanoparticles and Ag doped ZnO nanoparticles against *E. coli*. *Chemical Science Review and letters* Vol.3,(9),40-44, (2278 – 6783), I F : 4.014.
- K.Roshinibegam and S.Selvakumar, 2014. Seasonal changes in Physico-chemical parameters of mullai periyar river Tamil Nadu, India *Chemical Science Review and letters* Vol.3,(9),66-73, (2278 – 6783), I F : 4.014.
- K.Sabariswaran, S.Selvakumar and A.Kathirselvi, 2014. Biodiesel production from mahua oil by using two-step trans-esterification process. *Chemical Science Review and letters* Vol.3,(9),52-57, (2278 – 6783), I F : 4.014.
- K.Sabariswaran, P.Papitha, R.Indhumathi, S.Selvakumar and S P Raj, 2013. Bio-hydrogen Production from sago effluent. *Journal of Biodiversity and Environmental Sciences* 3, No. 2, p. 17 (2220-6663) I F : 1.356.
- S.Selvakumar, and T.M.Haridasan, 2000. Effects of heavy metals copper, zinc, cadmium and mercury on the zoeal development of *Nanosesarma (Beanium) batavicum*. *Journal of Environmental Biology.* 21(2): 101-104. (0254-8704/96/221). I F: 0.681.

- S.Selvakumar, 1999. The complete larval development of *Parasesarma plicatum* (Latreille, 1806) (Decapode: Brachyura: Grapsidae) reared in the laboratory. Raffles Bull. Zool. 48(1): 237-250, (0217-2445), I F : 1.68.
- A.K.Kumaraguru, Chidambaram and S.Selvakumar, 1996. Heavy metals copper, zinc and iron in some marine organisms around Rameswaram islands S.India. J.Ecobiol 4 (2): 141-144 .
- S.Selvakumar, S.Ajmalkhan and A.K.Kumaraguru, 1996. Effects of heavy metal zinc in relation to salinity on the survival and intermoult duration of larvae of estuarine crab *Heteropanope indica*.. Poll. Res., 15(4): 379-384, (0257-8050).I F 0.31
- S.Selvakumar, S.Ajmalkhan and A.K.Kumaraguru, 1996. Influence of salinity on the larval development of two brachyuran crabs. J. Ecol. Emt. & Conserv. 2 (51-55), (0971-765).
- S.Selvakumar, and S.Ajmalkhan, 1993. Grapsid and xanthid crabs of porto-novo Coast. Rec. Zool. Surv. India, 93(34): 329-354, (0375-1511).
- S.Selvakumar, S.Ajmalkhan and A.K.Kumaraguru, 1993. Acute toxicity of some heavy metals, pesticides and WSF of diesel oil to the larvae of some brachyurn crabs. J. Envntal. Biol., 15 (3): 221-226 (0254-704/96/221). I F 0.68
- S.Selvakumar, S.Ajmalkhan and R.Natarajan, 1989. Toxicity of heavy-metal zinc on the zoeal development of the grapsid crab *Neoepisesarma (Neoepisesarma) mederi* (H. Milne Edwards). Proc. Nat. Acad. Sci. 59 (B) III: 261-266, (1091-6490) I F : .396.
- S.Selvakumar, S.Ajmalkhan and R.Natarajan, 1989. Effect of salinity on the development of larvae and juvenile instars of *Heteropanope Indica* (De Man) Bull. Nat. Inst. Oceanog Mahasagar 21: 61-65, (0542-0938).
- S.Selvakumar, S.Ajmalkhan and R.Natarajan, 1988. Laboratory reared larval stages of Ocypodid crab *Macrophthalmus (Venitus) latreilli* (Desmarest), Bull. Nat. Inst. Oceanog Mahasagar, 21(3): 161-172, (0542-0938).
- S.Selvakumar, S.Ajmalkhan and R.Natarajan1, 1987. Effect of salinity on the development of larvae and juvenile instars of *Neoepisesarma (Neoepisesarma) rnederi* (H. Milne Edwards). Indian J. Mar. Sci., 16, (3): 243-245, (0379-5136), I F : 313.
- S.Selvakumar, S.Ajmalkhan and R.Natarajan, 1988. Synergistic effects of salinity and copper on the larval.of xanthid crab *Heteropanope Indica* De Man. Internat. Symp. Mat. Pollut., 395-403.
- S.Selvakumar, S.Ajmalkhan and R.Natarajan ,1988. Effect of mercury on the zoeal

development of *Neopisesarma (Neopisesarma) mederi*. 2-16, Proc. Nat. Symp. Physiol. Crust. Held at Marathwada University. Aurangabad.

- S.Selvakumar, S.Ajmalkhan and R.Natarajan, 1990. Synergistic effects of salinity and copper on the larval of xanthid crab *Heteropanope Indire De Man*, Internat. Symp. Mar. Pollut., CAS in Marine Biology, Annamalai University Portonovo 395-403.
- S.Selvakumar, S.Ajmalkhan and R.Natarajan, 1987. Copper toxicity on the ontogeny of the grapsid crab *Neopisesarma (Neopisesarma) mederi* National seminar on estuarine management state Committee on Science, Tech. And Environment, held at Thiruvananthapuram. 468-471.

PAPER PRESENTED IN CONFERENCE/SEMINAR/WORKSHOP

Name of the Conference	Date	Place	Title	Author(s)
International conference on Modern Progress in Biotechnology	9-10, October 2014	Department of Biotechnology Bharathidasan Institute of Technology, Anna University, Tiruchirapalli	Assessing water quality pollution indices for heavy metal contamination of Periyar river	Roshine begam, K., and S.Selvakumar
International conference on Innovations and future research dimensions on Nano bio pharmaceutical technology,	October 7-8, 2014	Anna University, BIT Campus, Tiruchirapalli	Preliminary phyto chemical analysis and antifungal activities of methanolic extracts of leaves of <i>Actinodaphne bourdillonii</i>	Deepa, R., and S.Selvakumar
International conference on Anthropogenic impact on Environment and Bioremediation	November 26-28, 2012.	Dept. of Zoology, Sri Venkateswara university, Tirupathi International conference	Effect of DDT and Endosulphone on the larval development of mangrove crab <i>Nanosesarma batavicum</i> Moreira, 1903	S.Selvakumar
International workshop and conference on Renewable energy and climate change	5-7 April, 2012	School of Energy Sciences Madurai Kamaraj University	Participated in the International workshop and conference	S.Selvakumar
International workshop	19.03.20	P.G. &	Participated in	S.Selvakumar

on finfish taxonomy	12 to 23.03.2012	Research Dept. of Zoology, Govt. Arts College, Kumbakonam	the International workshop on finfish taxonomy	
National Conference on Biofuels	January, 10-11, 2003.	Karpagam Arts and Science College, Coimbatore	Biomass Assessment - A case study at Kalkulam Taluka of Kanyakumari District,	S.Selvakumar and T.M.Haridasan
National conference on Biodiversity-----for safeguarding Biodiversity	August, 25-27, 2010	School of Energy Sciences Madurai Kamaraj University	Poisonous crabs inhabited in the coral reefs	S.Selvakumar
National Level Seminar on BIOGALAXIA	10, October 2010,	Bharathiar University, Coimbatore	Studies on Adsorption of Textile Dye Basic Blue 3 by Montmorillonite Clay	Karthiga,V., and S.Selvakumar
NRDMS – DST Workshop National level workshop on Geospatial Technology	28.06.2012 to 30.06.2012	Dept. of Civil Engineering, Jayam College of Engineering and Tech. Dharmapuri	Participated in NRDMS – DST Workshop National level workshop on Geospatial Technology	S.Selvakumar
Twelfth Tamil Science Congress	August 23-25, 2012	Periyar University, Salem, Tamilnadu, India).	Halophilic bacteria growing with petroleum as carbon source.	J.Arun and S.Selvakumar
Twelfth Tamil Science Congress	August, 23-25, 2012	Periyar University, Salem, Tamilnadu, India).	Studies on antibacterial activity of silver doped zinc oxide nanoparticles against E.coli.	Karthiga,V., and S.Selvakumar
Twelfth Tamil Science Congress	August, 23-25, 2012	Periyar University, Salem, Tamilnadu, India).	Role of carbon dioxide in global warming	Suganya,I.,and S.Selvakumar
Twelfth Tamil Science Congress	August, 23-25, 2012	Periyar University, Salem, Tamilnadu,	Pollution of Vaigai river.	Roshine begam,K., Murugan and S.Selvakumar

		India).		
Twelfth Tamil Science Congress	August, 23-25, 2012	Periyar University, Salem, Tamilnadu, India).	Biodiesel production from <i>Simarouba seeds</i>	Sabariswaran, K., and S.Selvakumar
National workshop on finfish culture	22.02.2013 to 24.02.2013	P.G. & Research Dept. of Zoology, Govt. Arts College, Kumbakonam, Tamil Nadu	Participated in the National Workshop	S.Selvakumar
National Conference on Atomic Energy for Socio Economic Development of the Country	September, 2013	Dept. of Future Studies, Madurai Kamaraj University, Madurai	Participated in the National Conference	S.Selvakumar
National Conference on fundamental and applied Chemistry	4th October, 2013	Dhirajlal Gandhi College of Technology, Salem	Bactericidal, fungicidal and, larvicidal effects of <i>Cassia senna linn</i>	Deepa,R., and S.Selvakumar
National Conference on Frontier vistas in modern Biotechnology	12 th December, 2013,	Department of Immunology and Microbiology, The American College, Madurai	Chemical studies on surface water quality of Mullai Periyar River, Tamil Nadu, India”	Roshine begam,K., and S.Selvakumar
National Conference on Frontier vistas in modern Biotechnology	12 th December, 2013	Department of Immunology and Microbiology, The American College, Madurai.	Isolation of polycyclic aromatic hydrocarbons degrading microorganisms and its application in naphthalene	Karthiga,V., and S.Selvakumar
National Conference on Frontier vistas in modern Biotechnology,	12 th December, 2013,	Department of Immunology and Microbiology, The American College, Madurai 625 002.	Measurement of carbon di oxide levels at selected high traffic locations of Madurai city, Tamil Nadu, India	Suganya,I.,and S.Selvakumar
National workshop on caste, hierarchy and politics of exclusion in India	15 and 16 December, 2014	Dept political Science Madurai Kamaraj	Participated in the National Workshop	S.Selvakumar

		University, Madurai		
National Seminar on Land use/land Cover changes and its impact. Spatial Challenges and Geospatial Technologies	19, 20 February, 2015	Dept. of Geography. Madurai Kamaraj University, Madurai	Participated in the National Seminar conducted by the Dept. of Geography.	S.Selvakumar
Geospatial Technologies for Resources Evaluation and Environment (GEOTREE - 2015)	December, 2015	Department of Geography, School of Earth and Atmospheric Sciences, Madurai Kamaraj University, Madurai.	<i>Simarouba glauca</i> a potential feed stock for biodiesel production	Sabarishwaran, K., and S.Selvakumar
National Conference on Recent trends in Modern Biology	February, 27-28, 2015	Dept. of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai	Assessment of water quality index and water suitability of the Periyar river for drinking purpose, Tamil Nadu, India.	Roshine begam, K., and S.Selvakumar
National Conference on Recent trends in Modern Biology,	February, 27-28, 2016	Dept. of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai	Qualitative Analysis of Surface Water of Periyar River, Tamil Nadu, India	Roshine begam, K., and S.Selvakumar
National Conference on SMART SUMMIT - 2016	December, 10 2016.	PEARL Foundation for Educational Excellence, Madurai	Participated the National seminar National level	S.Selvakumar
National Conference on Innovations in Modern Biology & 48 th Aqua-Terr Annual Conference	February, 27-28, 2017	Biological Sciences, Madurai Kamaraj University, Madurai	In vitro Evaluation of Antioxidants and larvicidal Activities from the Extracts of <i>Actinodaphne bourdilloni</i> Gamble	Deepa, R., and S.Selvakumar
National Conference on Biomaterials in Medicinal Chemistry	April 12&13 2017.	School of Chemistry Madurai Kamaraj	Phytochemical, physico chemical analysis and antimicrobial	Deepa, R., and S.Selvakumar

		University, Madurai	activity of the leaves of <i>Actinodaphne bourdilloni</i> Gamble	
Two day national seminar cum workshop on Solar Thermal and Photovoltaic Techniques	October , 5 & 6 2017	School of Energy Sciences Madurai Kamaraj University, Madurai	Waste Cooking oli – Biodiesel production, engine performance and emission studies	Sabariswaran, K., and S.Selvakumar
Workshop on renewable Energy and Sustainable Development,	March, 15- 16,2003	Gandhigram Rural Institute, Dindigul	A taluk level biomass assessment study Ambasamudram, Tirunelveli District.	S.Selvakumar and T.M.Haridasa n
Energy Fest, 2004, Madurai Kamaraj University, Madurai.	Februa ry 27, 2004	School of Energy Sciences Madurai Kamaraj University	Biomethenation of Piegon dropping and saw dust	Srikanth and S.Selvakumar
Creation of top class Institutional Facilities in Universities and Colleges	28 &29, Sep, 2012	Madurai Kamaraj University, Madurai	Participated in the two day seminar	S.Selvakumar
ENERGY FEST '14 - Advanced Technologies and Innovations in Energy and Environment	28th of March, 2014	School of Energy Sciences Madurai Kamaraj University	Antibacterial and larvicidal effects of selected medicinal plant.	Deepa,R., and S.Selvakumar
ENERGY FEST '14 - Advanced Technologies and Innovations in Energy and Environment	28, March, 2014,	School of Energy Sciences Madurai Kamaraj University	Performance and emission study of used cooking oil biodiesel in a CI diesel engine	Sabariswaran, K., and S.Selvakumar
ENERGY FEST '14 - Advanced Technologies and Innovations in Energy and Environment	28, March, 2014,	School of Energy Sciences Madurai Kamaraj University	<i>Simarouba glauca</i> – A potential source of energy production.	Sabariswaran, K., and S.Selvakumar
ENERGY FEST '17 - Advanced Technologies and Innovations in Energy and Environment	28, March, 2017,	School of Energy Sciences Madurai Kamaraj	Biodiesel production potential of Simaroube	Sabariswaran, K and S.Selvakumar

		University	glauca oil seeds	
ENERGY FEST '17 - Advanced Technologies and Innovations in Energy and Environment	28, March, 2017,	School of Energy Sciences Madurai Kamaraj University	Evaluation of engine performance and emission studies of waste cooking oil Methyl ester and blends with diesel fuel in marine engine	Sabariswaran and S.Selvakumar
ENERGY FEST '17 - Advanced Technologies and Innovations in Energy and Environment	28, March, 2017,	School of Energy Sciences Madurai Kamaraj University	Heavy metal contamination and its indexing approach for Periyar river Tamil Nadu, South India.	Roshine begam,K., and S.Selvakumar
ENERGY FEST '17 - Advanced Technologies and Innovations in Energy and Environment	28, March, 2017,	School of Energy Sciences Madurai Kamaraj University	Evaluating water quality of Periyar river, Tamil Nadu, India by using water quality index.	Roshine begam,K., and S.Selvakumar
Intellectual Property Rights and Innovation Management in Knowledge Era Internal Quality Assurance Cell, Madurai Kamaraj University, Madurai	April, 10, 2017.	Madurai Kamaraj University	Participated in the Intellectual Property Rights and Innovation Management in Knowledge Era	S.Selvakumar
Energy fest 2019.National Conference on Recent Trends and Prospects in Energy, Environment and Natural Resources, Madurai Kamaraj University,	April, 5, 2019.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai 625 021, India	Improvement of emission reduction in nano additive simarouba Glauca biodiesel blends	Sabariswaran kandasamy and selvakumar sundararaj
Energy fest 2019.National Conference on Recent Trends and Prospects in Energy, Environment and Natural Resources, Madurai Kamaraj University	April, 5, 2019.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai 625 021, India	Biodiesel production from the non edible oil seeds of Bombax ceiba	R.Alagurajaa and Selvakumar Sundararaj

Energy fest 2019.National Conference on Recent Trends and Prospects in Energy, Environment and Natural Resources, Madurai Kamaraj University	April, 5, 2019.	School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai 625 021, India	Sustainable energy security system - Maniampatty cluster in Theni district	Selvakumar Sundararaj
National Conference on Atomic Energy for Socio Economic Development of the Country	September, 2013	Dept. of Future Studies, Madurai Kamaraj University, Madurai		

CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
International workshop and conference change	International workshop and conference on Renewable energy and climate change	5-7 April, 2012	School of Energy Sciences Madurai Kamaraj University	Co-Organising the International Conference	MNRE, MOES, UGC, MKU
National conference	National conference on Biodiversity-----for safeguarding Biodiversity	August, 25-27, 2010	School of Energy Sciences Madurai Kamaraj University	Co-Organising the National Conference	DBT, MNRE, UGC, MKU
National conference on	National Conference on Atomic Energy for Socio Economic Development of the Country	September, 2013	Dept. of Future Studies, Madurai Kamaraj University Madurai	Co-Organising the National Conference	DBT, MNRE, UGC, MKU
Energy Fest, 2004,	Energy Fest, 2004, Renewable Energy Sources.	February 27, 2004	School of Energy Sciences Madurai	Co-Organising the National Conference	MNRE, MKU

			Kamaraj University		
ENERGY FEST '14 -	ENERGY FEST '14 - Advanced Technologies and Innovations in Energy and Environment	28, March, 2014,	School of Energy Sciences Madurai Kamaraj University	Co-Organising the National Conference	MNRE, MKU
ENERGY FEST '17 -	ENERGY FEST '17 -Advanced Technologies and Innovations in Energy and Environment	28, March, 2017,	School of Energy Sciences Madurai Kamaraj University	Co-Organising the National Conference	MNRE, MKU
Energy fest 2019.National conference	Energy fest 2019.National Conference on Recent Trends and Prospects in Energy, Environment and Natural Resources, Madurai Kamaraj University	April, 5, 2019.	School of Energy, Sciences Madurai Kamaraj University	Co-Organising the National Conference	MNRE, MKU

BOOK PUBLISHED

Title of the Book / Chapter	Author	Publisher	Year	ISBN Number
Laboratory reared larval stages of a pilumnid crab benthopanope indica (De man, 1887) (Crustacea : Decapode: Brachyura) 16 139 – 149, 1999	S.Selvakumar and T.M.Haridasan	Asian Marine Biology , Hong Kong university Press, Hong Kong	1999	9622095208
Larval development of <i>Nanosesartma batavicum</i> Moreira, 1903 (Decapode: Brachyura: Grapsidae) reared in the laboratory 16: 123-138, 1999	S.Selvakumar and T.M.Haridasan	Asian Marine Biology , Hong Kong university Press, Hong Kong	1999	9622095208
Assessment of water quality of Periyar river. PP 69-75. Geospatial technology for resource evaluation and environment	S.Selvakumar and K.Roshinibegam	Jeyalakshmi Publication, Madurai-India.	2015	978 93 84193 36 2
<i>Simarouba glauca</i> -A potential feedstock for biodiesel production.	S.Selvakumar and	Jeyalakshmi Publication,	2015	978 93 84193 36 2

PP 207-215 2015. Geospatial technology for resource evaluation and environment	Sabriswaran, K	Madurai-India.		
Studies on antifungal activity, preliminary phytochemical and physicochemical parameters of extract of <i>Actinodaphne bourdillonii</i> Gamble, PP 236-240, 2015 Geospatial technology for resource evaluation and environment	S.Selvakumar and R.Deepa	Jeyalakshmi Publication, Madurai-India.	2015	978 93 84193 36 2
Biomass potential for energy production – A Taluk level case study. Application of remote sensing GIS and GPS technologies. PP 254-262,	S.Selvakumar and K.Roshinibegam	Jeyalakshmi Publication, Madurai-India.	2016	978 93 84193 61 4
Biomass potential for energy production Spatial and seasonal variations of surface water quality of Periyar river, Tamil Nadu, India using GIS technology. PP 263-280, 2016.	S.Selvakumar and K.Roshinibegam	Jeyalakshmi Publication, Madurai-India.	2016	978 93 84193 61 4

MEMBERSHIP IN ACADEMIC BODIES

- Madurai Kamaraj University, Ex-Officio member, Academic Council. 30.11.2017 for two years.
- Member, Solid Waste Management Committee, MK University , 22.10.2013
- University Nominee, Board of Studies Environmental Studies, SVN College, Nagamalai, Madurai 625019. 2017 - 2019
- Member-Board of Studies Examinations-Madurai Kamaraj University, Madurai 2010 – till date.
- University Nominee, Management Committee, Kaliswari Institute of Management and Technology, Sivakasi .
- Examination Co ordinator to conduct the examination, School of Energy Sciences, MKU

MEMBERSHIP IN PROFESSIONAL BODIES

- **Member The Indian Science Congress Association (A1199)**

ADMINISTRATIVE EXPERIENCE

Role Played	Responsibilities	Period (Month & Year)
Served as Deputy Warden for Research Scholars Men's Hostel, Madurai Kamaraj University	Administrative work in Men's Hostel. Maintenance and taking care of daily activities of the Hostel.	07.07.2000 to 06.08.2001 One Year
Served as Deputy warden for Men's Research Scholars hostel Madurai Kamaraj University	Administrative work in Men's Hostel. Maintenance taking care of daily activities of the Hostel.	28.07.2010 to 27.08.2011 One Year
Madurai Kamaraj University EX Officio Academic Council Member	University Administration approval of syllabus and other academic and academic related activities.	30.11.2017 1 Year10 months
Madurai Kamaraj University Department Head, Natural Resources and Waste Recycling.	Department Administration - Compilation of data related to IQAC, NAAC, admission, time table preparation, conducting examination, publications of results.	13.09.2017 Two years.
University Nominee, S.V.N College (Board of Studies), Madurai Kamaraj University	Syllabus preparation for B.Sc., Environmental Studies, Syllabus review, approval, question pattern and examination scheme approval.	09.06.2016 to 08.06.2018 One Year, 11 months
University Nominee, Management Committee Kaliswari Institute of Management and Technology, Sivakasi	Serving in management committee regarding the UGC regulations in the appointment, College administration and Selection of Faculty to the various subjects.	01.04.2019 Ten months.
Doctoral Committee member, Department of Biomedical Sciences, School of Biomedical	Serving in the Review Panel for Ph D student, Title of Ph D thesis, review periodically, Pre	18.11.2010

Sciences Bharathidasan University, Tiruchi	PhD submission presentation, approval for the thesis submission.	
Doctoral Committee member, Department of Biomedical Sciences, School of Biomedical Sciences Bharathidasan University, Tiruchi	Serving in the Review Panel for P.hD student, Title of PhD thesis, review periodically, Pre PhD submission presentation, approval for the thesis submission.	14.06.2011
Doctoral Committee member, Department of Biomedical Sciences, School of Biomedical Sciences Bharathidasan University, Tiruchi	Serving in the Review Panel for P.h D student, Title of PhD thesis, review periodically, Pre PhD submission presentation, approval for the thesis submission.	14.11.2012
Doctoral Committee member, Department of Biomedical Sciences, School of Biomedical Sciences Bharathidasan University, Tiruchi	Serving in the Review Panel for P.h D student, Title of PhD thesis, review periodically, Pre PhD submission presentation, approval for the thesis submission.	19.06.2015
Doctoral Committee member, Department of Biomedical Sciences, School of Biomedical Sciences, Bharathidasan University, Tiruchi	Serving in the Review Panel for P.h D student, Title of PhD thesis, review periodically, Pre PhD submission presentation, approval for the thesis submission.	10.09.2015
Doctoral Committee member, Department of Biomedical Sciences, School of Biomedical Sciences, Bharathidasan University, Tiruchi	Serving in the Review Panel for P h D student, Title of Ph D thesis, review periodically, Pre PhD submission presentation, approval for the thesis submission.	December, 2018
Examination Coordinator for the School of Energy Sciences to manage the examination related activities as part of the academic activity.	In-charge for the examination related activities till the publication of results. Preparation of internal test time table, recording of internal assessment, Preparation of time table for the semester examination, conducting examination and publications of results.	20.06.2019 One Year
In-Charge for the field visit and industrial visit for the students of M.Sc Environmental Sciences as part of the academic activities.	Students of M.Sc are taken to the field to observe the activities practically-Brick Kiln, Vermicomposting, Industries like Tannery processing and treatment plant, Sugar industries and plastic recycling units.	From 2010 onwards, Nine years
Served in the Solid Waste Management Committee, Madurai Kamaraj University,	Survey of solid wastes generated in Madurai Kamaraj University, the quantity of	2013 – 2015 Two years.

Madurai.	wastes generated, components, biodegradable and non-biodegradable components, collection and Disposal of wastes.	
Special Camp Officer, Central valuation B.Com Madurai Kamaraj University, Madurai. Carried out in the summer vocation.	Allocation of answer script to the teachers for the valuation, entry in the foil card forwarding them to the Controller of Examination, Madurai Kamaraj University.	05.05.2014 to 15.06.2014 One month
Special Camp Officer, All P.G. Courses M.A. and M.Sc., and All M Phil Courses, all M.A. and M.Sc., Central Valuation, Madurai Kamaraj University, Madurai.	Allocation of answer script to the teachers for the valuation, entry in the foil card forwarding them to the Controller of Examination, Madurai Kamaraj University.	17.05.2017 to 17.05.2017 One month
Students Adviser for the P.G. and M Phil students School of Energy, Environment, and Natural Resources, Madurai Kamaraj University.	Addressing the students grievances of M.Sc and MPhil - students of School of Energy Sciences, Madurai Kamaraj University, Sorting out the issues related to academic activities.	12.09.2011 to 14.09.2019 Eight Years
Subject Expert for the selection of Project Fellow in the Sponsored projects, School of Energy Sciences, Madurai Kamaraj University, Madurai.	Interview Committee member to select the suitable qualified candidates for the project.	24-10-2014
Subject Expert for the selection of JRF in the School of Energy Sciences, Madurai Kamaraj University, Madurai.	Interview Committee expert member to select the JRF position for the project.	03-01-2012
Question paper setting for the B.Sc., Environmental Studies Part IV (CBCS), Madurai Kamaraj University, Madurai.	Question papers are prepared for the students of B.Sc., MKU for Environmental Science subjects.	08.09.2010 onwards
Question paper setting for the B.Sc., Rural Development Sciences (CBCS), Madurai Kamaraj University, Madurai.	Question papers are prepared for each course for the students of B.Sc., Rural Developmental Science Program, MKU	07.07.2011 onwards
Question paper setting for the P G Diploma in watershed management, Madurai Kamaraj University, Madurai	Question papers are prepared for the students of Diploma Course, MKU.	12.04.2012 onwards
Question paper setting for the Foundation Course Environmental Studies Madurai Kamaraj University, Madurai.	Question papers are prepared for the students of Foundation Course, MKU.	10-07.2012 onwards
Question paper setting for the M.Sc., Marine Biology Students, CAS in Marine	Question paper for the course Marine Ecology and Zoogeography are prepared	2013

Biology, Annamalai University, Parangipettai.		
Question paper setting for the M.Sc., Marine Biology Students), CAS in Marine Biology, Annamalai University, Parangipettai.	Question paper for the course Physical Oceanography are prepared.	2014, 2015
Question paper setting for the M.Sc., Marine Biology Students), CAS in Marine Biology, Annamalai University, Parangipettai.	Question paper for the course Ocean Management are prepared	2015, 2016
Question paper setting for the M.Sc., Marine Biology Students), CAS in Marine Biology, Annamalai University, Parangipettai.	Question paper for the course Chemical Oceanography are prepared	2015, 2016
Question paper setting for the Advanced Diploma in Renewable Energy, Madurai Kamaraj University, Madurai	Question papers are Prepared for the students of MKU.	02.05.2013
Question paper setting for the M.Sc., Bioengineering and Biochemistry (CBCS), Madurai Kamaraj University, Madurai.	Question papers are prepared for the students of M.Sc., MKU.	13-082013
Question paper setting for the P G Diploma in Environmental Health and Hygiene , Madurai Kamaraj University, Madurai.	Question papers are prepared for the students of P.G. Diploma, MKU.	10-042014
Question paper setting for the Diploma in water Quality Assessment, Madurai Kamaraj University, Madurai.	Question papers are prepared for the students of Diploma , MKU.	11.04.2014
Question paper setting for the M.Sc., Biochemistry (CBCS), Madurai Kamaraj University, Madurai.	Three set of question papers are prepared for the students of B.Sc., MKU.	09.05.2014
Question paper setting for the M.Sc., Students (CBCS), Bharathidasan University, Tiruchi	Question papers are prepared for the students of Biomedical Sciences	16.04.2015
External Examiner to conduct the Research Methodology Examination for the PhD research Scholar, UGC HRDC, Madurai Kamaraj University, Madurai.	To conduct the Research Methodology Examination	12.10.2017
External Examiner to conduct the Research Methodology	To conduct the Research Methodology examination	12.10.2017

Examination for the PhD research Scholar, UGC HRDC, Madurai Kamaraj University, Madurai.		
External Examiner to conduct the Course work and Viva Voce Examination for the PhD research Scholar, UGC HRDC, Madurai Kamaraj University, Madurai	To conduct the course work and viva voce examination.	12.10.2017
External Examiner to conduct the Research Methodology Examination for the PhD research Scholar, Department of Future Studies, Madurai Kamaraj University, Madurai.	To conduct the Research Methodology exam for three PhD candidates.	25.03.2013
External Examiner for the M.Sc., Students Biomedical Sciences, (CBCS), Bharathidasan University, Tiruchi	To conduct the practical examination for the M.Sc Biomedical Science students.	16.05.2011
Academic staff College, Madurai Kamaraj University Refresher course	Delivered lecture on Solid Waste Management and Energy Recovery	10.02.2015-02.00 pm to 3.30 and 3.30 pm to 5.00pm
School of Youth Welfare, Madurai Kamaraj University Civil service Summer coaching	Delivered lecture on Environmental Pollution and Monitoring	23.03.2015 - 2 sessions
School of Youth Welfare, Madurai Kamaraj University Civil service Summer coaching	Delivered lecture on Fundamentals of Renewable Energy	08.04.2015 - 2 sessions
School of Youth Welfare, Madurai Kamaraj University Civil service Summer coaching	Delivered lecture on Environmental Studies and Ecosystem Energetic	03.06.2015 - 2 sessions
Refresher course -UGC-HRDC in Environmental Studies, Madurai Kamaraj University, Madurai	Delivered lecture on Waste Water Recycling	1.07.2015- 2.00 pm to 3.30 pm
Refresher course -UGC-HRDC in Environmental Studies, Madurai Kamaraj University, Madurai	Delivered lecture on Solid Waste Management	13.07.2015 -2.00 pm to 3.30 pm
Orientation programme UGC-HRDC, Madurai Kamaraj University. Madurai	Delivered lecture on MSW Management Madurai.	17.11.2018 - 2 Session 2.00 pm to 3.30 pm and 3.30 pm to 5.00 pm
Orientation programme. UGC-HRDC, Madurai Kamaraj University. Madurai	Delivered lecture on MSW Management Madurai	26.11.2018 -2 Session 2.00 pm to 3.30 pm and 3.30 pm to 5.00 pm
Department of Biochemistry School of Biological Sciences,	Delivered lecture on Air Pollution to the Students of	17th August 2018- 2 session.

Madurai Kamaraj University, Madurai	Department of Biochemistry	
Department of Biochemistry School of Biological Sciences, Madurai Kamaraj University, Madurai	Delivered lecture on Water Pollution to the Students of Department of Biochemistry	7th August 2018- 2 session.
Department of Biochemistry School of Biological Sciences, Madurai Kamaraj University, Madurai	Delivered lecture on land pollution to the Students of Department of Biochemistry	28th August 2018 -2 session.
Department of Biochemistry School of Biological Sciences, Madurai Kamaraj University, Madurai	Delivered lecture on Solid Waste Management to the Students of Department of Biochemistry	31st August 2018 -2 session.
Refresher course -UGC- HRDC in Environmental Studies, Madurai Kamaraj University, Madurai	Delivered lecture on Solid Waste Management and Energy Recovery	17.11.2018-2 Session 2.00 pm to 3.30 pm and 3.30 pm to 5.00 pm
85th Orientation programme. UGC-HRDC, Madurai Kamaraj University. Madurai	Delivered lecture on Solid Waste Management	23.11.2018-2 Session 2.00 pm to 3.30 pm and 3.30 pm to 5.00 pm
86th Orientation programme. UGC-HRDC, Madurai Kamaraj University. Madurai	Delivered lecture on Solid Waste Management	17.11.2018 - 2 Session 2.00 pm to 3.30 pm and 3.30 pm to 5.00 pm
Refresher course -UGC- HRDC in Environmental Studies, Madurai Kamaraj University, Madurai	Delivered lecture on Solid Waste Management	18.12.2019 - 10.00 am to 11.30 am
Refresher course -UGC- HRDC in Environmental Studies, Madurai Kamaraj University, Madurai	Delivered lecture on Waste Water Recycling	18.12.2019 -11.30 am to 1.00 pm
Orientation programme - UGC-HRDC in Environmental Studies, Madurai Kamaraj University, Madurai	Delivered lecture on Solid Waste Management	08.02.2020 - 2.00 pm to 3.30 pm
Orientation programme - UGC-HRDC in Environmental Studies, Madurai Kamaraj University, Madurai	Delivered lecture on Waste Water Recycling	08.02.2020, 3.30 pm to 5.00 pm

CONTACT

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