

**INDIAN JOURNAL OF NATURAL SCIENCES (IJONS)**  
**BIMONTHLY INTERNATIONAL JOURNAL**

**Editor-in-Chief**  
**Dr.S.Vijikumar**

**Published by**  
**TAMILNADU SCIENTIFIC RESEARCH ORGANISATION**

39,MURA BHAVAN,KOODAL NAGAR,RAJAGOPALAPURAM POST,  
PUDUKKOTTAI, TAMIL NADU, INDIA.

[ijonstnsro@gmail.com](mailto:ijonstnsro@gmail.com),[editorijons@gmail.com](mailto:editorijons@gmail.com)-[www.tnsroindia.org.in](http://www.tnsroindia.org.in)

**Editor-in-Chief, Editorial Board and Publisher take no responsibility for inaccurate, misleading data, opinion and statements appeared in the articles and advertisements published in this journal. It is the sole responsibility of the contributors and advertisers. No part of this journal can be reproduced without the written permission of the Editor-in-Chief who also holds the copyright © of the "Indian Journal of Natural Sciences (IJONS)".**

## Indian Journal of Natural Sciences (IJONS)

Editor-in-Chief	<b>Dr.S.Vijikumar</b> Director TamilNadu Scientific Research Organisation Arimalam – 622 201. Pudukkottai, Tamil Nadu. India.
	<b>Editorial Committee</b>
Honorable Chief Advisor	<b>Prof. Dr. V. Ramaiyan</b> Marine Biologist Research Advisor Sri Venkateswara College of Arts & Science. Peravoorani, Thanjavur. Tamil Nadu. India.
Honorable Chief Advisor	<b>Prof.Dr.A.Ganapathi</b> UGC BSR Emeritus Professor Department of Biotechnology School of Life Sciences, Bharathidasan University, Tiruchirappalli. Tamil Nadu. India.
Honorable Member	<b>Dr. N. Jayabalan</b> Professor & Head, Dept. of plant Science, School of life Sciences Bharathidasan University, Tiruchirappalli. Tamil Nadu. India.
Honorable Member	<b>Dr. T.S. Saravanan</b> Professor of Biotechnology cum Research Co-ordinator Dr.M.G.R Educational and Research Institute University Periyar E.V.R High Road, Maduravoyal, Chennai-600095.
Honorable Member	<b>Dr.S.P.Subramaniyan</b> Asst.Controller of Patents and Designs (Govt.of India) Patent Office, IPR Building, GST Road, Guindy, Chennai 600032
Honorable Member	<b>Er. Abdul Samad. M. Kamdod</b> Assistant Professor Department of Civil Engineering Bharat Institute of Science & Technology for Women Mangalpally, Renga Reddy Dist. Andhra Pradesh, India
Honorable Member	<b>Dr. Hina kousar</b> Assistant Professor Department of Environmental Sciences, Kuvempu University Shankaraghatta, Shivamogga – 577 451, Karnataka ,India
Honorable Member	<b>Mr.B.Rajesh</b> Manager (Tech. Services Env.) Grass Roots Research & Creation India (P) Ltd Noida – 201301, Uttar Pradesh, India
Honorable Member	<b>Mr. K.Ramanathan</b> Head, Department of Bioinformatics, Thanthai Hans Roever College Perambalur, TamilNadu, India.

Honorable Member	<b>Dr. K.Gurunathan</b> Prof & Head, Department of Nano science & Technology, Alagappa University, Karaikudi, TamilNadu, India.
Honorable Member	<b>Dr. Rajashekhar O, Patil</b> Assistant Professor, Department of Environmental Management Sant Gadge Maharaj College of Commerce & Economics, Mumbai 400004, India
Honorable Member	<b>Dr.M.Ravichandran</b> Prof.& Head Department of Environmental Management Bharathidasan University, Tiruchirappalli. Tamil Nadu. India.
Honorable Member	<b>Dr.M.Krishnan</b> Prof.& Head,Department of Environmental Biotechnology Bharathidasan University, Tiruchirappalli. Tamil Nadu. India
Honorable Member	<b>Dr.K.Kumarasamy</b> Prof.& Head Department of Geography Bharathidasan University, Tiruchirappalli. Tamil Nadu. India
Honorable Member	<b>Dr.A.Sathya,</b> Assistant professor – III, School of Civil Engineering, SASTRA University, Thanjavur – 613401, TamilNadu, India.
Honorable Member	<b>Dr.G.G.Hammad Ahmad Shadab</b> Senior Assistant Professor, Department of Zoology Aligarh Muslim University,Aligarh-202002,Uttar Pradesh
Honorable Member	<b>Dr.H.Syed Jahangir</b> Assistant Professor, P.G. and Research Department of Botany Jamal Mohamed College(Autonomous) Trichirappalli-620020,TamilNadu,India.
Honorable Member	<b>Dr. P. Santhanam</b> Assistant Professor, Department of Marine Science, School of Marine Sciences,Bharathidasan University, Tiruchirappalli. Tamil Nadu. India
Honorable Member	<b>Dr.B.Parimala Devi</b> Additional Director, Veeramani Mohana Centre for Quality Life Engineering Research, Periyar Maniyammai University, Vallam,Thanjavur ,Tamil Nadu. India.
Honorable Member	<b>Dr. M. Lekeshmanaswamy</b> Associate professor PG and Research Department of Zoology Kongunadu Arts and Science College G.N. mills (PO), Coimbatore-641 029, TamilNadu, India.
Honorable Member	<b>Dr.P.Udayakumar</b> Principal, Jayanthi College of Education,Jayanthi Gardens Arulpurm,Tirupur(Dist.)-641605, TamilNadu, India
Honorable Member	<b>Dr.Syed Mohamed</b> Asst. Prof. Dept. of Zoology,Jamal Mohamed College Tiruchirappalli, TamilNadu, India

Honorable Member	<b>Dr. Komalavalli Narayanaswamy</b> Associate Professor, PG and Research Department of Botany H.H. The Rajah's College (Autonomous) Pudukkottai – 622 001, Tamil Nadu, India.
Honorable Member	<b>Mrs.Sujatha Ilangovan</b> Assistant Professor, Department of Biochemistry Holy Cross College, Tiruchirapalli-620002. TamilNadu, India.
Honorable Member	<b>Dr.C.Kathirvelan</b> Assistant Professor, Department of Animal Nutrition Veterinary College and Research Institute (TANUVAS) Namakkal -637002. TamilNadu, India.
Honorable Member	<b>Professor.G.Ganesan</b> Professor, Department of Mathematics Adikavi Nannaya University,Rajahmundry-533105 Andhra Pradesh, India.
Honorable Member	<b>Dr.C.Balusami</b> Assistant Professor, Department of Livestock Production and Management College of Veterinary and Animal Sciences Pookode-673576.Kerala, India.
Honorable Member	<b>Mis.S.Jency</b> Assistant Professor, Department of Bioinformatics Karunya University, Coimbatore-641114. TamilNadu, India.
Honorable Member	<b>Dr.P.Kavitha</b> Assistant Professor, Department of Zoology and Biotechnology AVVM Sri Pushpam College (Autonomous) Poondi,Thanjavur, TamilNadu, India.

## Indian Journal of Natural Sciences (IJONS)

Volume III CODEN: IJONS (15) (2012)		December 2012 Issue 15 ISSN: 0976 - 0997
S. No	CONTENTS	Page No
	Editorial	
1	Effect of Organic Carbon on Soil Moisture. Guruprasad M.Hugar ,Veena.Sorganvi and G.M.Hiremath	1191-1199
2	Study of Pathogenesis of Alzheimer's disease-an <i>Insilico</i> Approach. Thejitha P and Jency S	1200-1211
3	The Studies on the Environmental Stress in Traffic Police Population in Tiruchirappalli, TamilNadu, India. Ravimanickam T.	1212-1216
4	Effect of Organophosphate Insecticide and DNA Damage Analysis in <i>Poecilia sphenops</i> and <i>Carassius auratus</i> R.Subramanian and C.Sivasubramanian	1217-1221
5	The study of Partial Structure Characterization of Biofouling Antiagonistic Compounds from the Selected Macroalgae ( <i>Ulva lactuca</i> ). Ravimanickam T.	1222-1227
6	Extraction of Bioactive Metabolites from <i>Aristolochia indica</i> L. and Docking Studies using Bioinformatics Tool. Kanaka S., K.Ramanathan and S.Vijikumar	1228-1232
	Instruction to Author(s)	1232-1235

## **Editorial**

Dear Readers...

### ***Biodynamic agriculture for Sustainable Food Security.***

*Biodynamic agriculture is an advanced organic farming system that is gaining increased attention for its emphasis on food quality and soil health. Biodynamic agriculture developed out of eight lectures on agriculture given in 1924 by Rudolf Steiner (1861–1925), an Austrian scientist and philosopher, to a group of farmers near Breslau (which was then in the eastern part of Germany). Biodynamics uses scientifically sound organic farming practices that build and sustain soil productivity as well*



*as plant and animal health. The philosophical tenets of biodynamics especially those that emphasize energetic forces and astrological influences are harder to grasp, yet they are part and parcel of the biodynamic experience. That mainstream agriculture does not accept the subtle energy tenets of biodynamic agriculture is a natural result of conflicting paradigms. In mainstream agriculture the focus is on physical chemical-biological reality.*

*Biodynamic agriculture, on the other hand, recognizes the existence of subtle energy forces in nature and promotes their expression through specialized “dynamic” practices. A third view, expressed by a local farmer, accepts the premise that subtle energy forces exist and may affect biological systems, but holds there is not enough information to evaluate these influences nor make practical agronomic use of them.*

***S.Vijikumar***

***Editor in Chief***

***Indian Journal of Natural Sciences***

***Pudukkottai***