

## CONTENTS

**Review Papers**

- Surendra Pratap Singh & Vishal Singh** – Addressing rural decline by valuing agricultural ecosystem services and treating food production as a social contribution 381
- Dube Timothy, Mutanga Onesimo & Ismail Riyad** – Quantifying aboveground biomass in African environments: A review of the trade-offs between sensor estimation accuracy and costs 393

**Research Papers**

- Raciél Cruz-Elizalde, Christian Berriozabal-Islas, Uriel Hernández-Salinas, Miguel Ángel Martínez-Morales & Aurelio Ramírez-Bautista** – Amphibian species richness and diversity in a modified tropical environment of central Mexico 407
- Henrique Venâncio Silva, Estevao Alves-Silva & Jean Carlos Santos** – On the relationship between fluctuating asymmetry, sunlight exposure, leaf damage and flower set in *Miconia fallax* (Melastomataceae) 419
- Nuru Adgaba, Al-Ghamdi A. Ahmed, Shenkute G. Awraris, Mohammed Al-Madani, Mohammed J. Ansari, Rachid Sammouda & Sarah E. Radloff** – Pollination ecology, nectar secretion dynamics, and honey production potentials of *Acacia ehrenbergiana* (Hayne) and *Acacia tortilis* (Forsk.) Hayne, Leguminosae (Mimosoideae), in an arid region of Saudi Arabia 429
- Kiran Bargali & S. S. Bargali** – Germination capacity of seeds of leguminous plants under water deficit conditions: implication for restoration of degraded lands in Kumaun Himalaya 445
- Mahmuda Islam, Saeed Hasan Salim, Mehedi Hasan Kawsar & Mizanur Rahman** – The effect of soil moisture content and forest canopy openness on the regeneration of *Dipterocarpus turbinatus* C.F. Gaertn. (Dipterocarpaceae) in a protected forest area of Bangladesh 455
- N. Tenzing Baliah, G. Pandiarajan & B. Makesh Kumar** – Isolation, identification and characterization of phosphate solubilizing bacteria from different crop soils of Srivilliputtur Taluk, Virudhunagar district, Tamil Nadu 465
- R. M. U. K. Gunarathne & G. A. D. Perera** – Does the invasion of *Prosopis juliflora* cause the die-back of the native *Manilkara hexandra* in seasonally dry tropical forests of Sri Lanka? 475
- Wan Mohd Hafezul Wan Abdul Ghani, Che Salmah Md Rawi, Suhaila Abdul Hamid, Salman Abdo Al-Shami, Abu Hassan Ahmad & Ahmad Najmi Nik Hassan** – Variation in environmental conditions influences diversity and abundance of Ephemeroptera in forest streams of northern Peninsular Malaysia 489
- MA. Nieves Trujillo-Tapia, E. Ramírez-Fuentes & P. Cervantes-Hernández** – Presence and variation of cyanobacteria related to the physical properties of soil on the coast of Oaxaca, México 503

|   |     |
|---|-----|
| <b>P. Addo-Fordjour, Z. B. Rahmad &amp; A. M. S. Shahrul</b> – Liana species composition, dominance and host interactions in primary and secondary forests in Malaysia  | 513 |
| <b>Gilmar Perbiche-Neves, Jorge Laço Portinho, Rosa Antônia Romero Ferreira &amp; Marcos Gomes Nogueira</b> - Increases in microcrustaceans (Cladocera and Copepoda) associated with phytoplankton peaks in tropical reservoirs                           | 523 |
| <b>D. Mohandass, Alice C. Hughes, Bruce Mackay, Priya Davidar &amp; Tarun Chhabra</b> – Floristic species composition and structure of a mid-elevation tropical montane evergreen forests (sholas) of the western ghats, southern India                   | 533 |
| <b>Fabio Petrozzi, Giovanni Amori, Daniel Franco, Philippe Gaubert, Nic Pacini, Edem A. Eniang, Godfrey C. Akani, Edoardo Politano &amp; Luca Luiselli</b> – Ecology of the bushmeat trade in west and central Africa                                     | 545 |
| <b>Julia Caram Sfair, André Luis Casarin Rochelle, Andréia Alves Rezende, Juliano Van Melis, Robyn J. Burnham, Veridiana De Lara Weiser &amp; Fernando Roberto Martins</b> – Liana avoidance strategies in trees: combined attributes increase efficiency | 559 |
| <b>Jonathan Carlo A. Briones, Rey Donne S. Papa, Gil A. Cauyan, Norman Mendoza &amp; Noboru Okuda</b> – Fish diversity and trophic interactions in Lake Sampaloc (Luzon Is., Philippines)   | 567 |
| <b>Dhruba Jyoti Das, Alok Saxena &amp; P. S. Roy</b> – Surface area' based above ground woody forest biomass carbon estimation: A case study of Kolasib District, Mizoram, India  | 583 |
| <b>Short Communications</b>   |     |
| <b>Thomas Kuruvilla, C. M. Jijeesh &amp; K. K. Seethalakshmi</b> – Litter production and decomposition dynamics of a rare and endemic bamboo species <i>Munrochloa ritcheyi</i> of Western Ghats, India   | 601 |
| <b>Arun Jyoti Nath, Tapas Bhattacharyya, S. K. Ray, Jyotirupa Deka, Ashesh Kumar Das &amp; Huma Devi</b> – Assessment of rice farming management practices based on soil organic carbon pool analysis   | 607 |
| <b>Takaomi Arai, Razikin Amalina &amp; Zainudin Bachok</b> - Species-specific liver moisture content of coral reef fishes in the Malaysian South China Sea  | 613 |
| <b>Michele Chiacchio</b> – First photographic documentation of <i>Dendrocolaptes sanctithomae</i> preying on a frog   | 619 |