


Information on Scientific Staff for Updating ZSI Website

SINo	Field	Details	Remarks			
1	Name	Dr G. Thirumalai				
2	Recent Passport Size Photograph	Available in the website				
3	Designation	Scientist F				
4	Official Address		ZSI. SRC, 130 santhome high road, Chennai 600 028			
5	E-mail		thiruambi@gmail.com			
6	Mobile/Contact Number		919444366936/04424642898			
7	Broad Area of Specialization		Entomology,(Aquatic and semiaquatic bugs; Membracidae FieldOrnithology etc			
8	Taxa Expertise		,(Aquatic and semiaquatic bugs; Membracidae,Homoptera			
9	Complete list of publications		Arrange publications in following sub headings: <ol style="list-style-type: none"> 1. Books two and coordinator for 3 department publicatiin 2. Monographs three 3. Papers in journals more than 70 4. Papers in Symposium proceedings more than 7 5. Popular articles - 6. Online articles/checklists/other resources (provide URL) 6 Checklist of Nepomorpha; checklist of Gerromorpha and Checklist of Membracidae http://zsi.gov.in/ <ol style="list-style-type: none"> 7. Softwares/Electronic keys (provide URL) - 			
10	Details of Taxa Described	Taxa name with author and year	Class	Order	Family	Publication Details
	Given below chronologically					

► Details of Taxa Described

*GENERA/SPECIES NEW TO SCIENCE/ NEW RECORDS TO INDIA

By Dr. G.Thirumalai, Scientist F, ZSI, SRC, Chennai

GENERA/SPECIES NEW TO SCIENCE (22SPECIES)

CLASS INSECTA
ORDER HEMIPTERA
SUBORDER HOMOPTERA
FAMILY MEMBRACIDAE
("COW BUGS" OR "HORN BUGS")

SUBFAMILY CENTROTINAE

1. *Lanceonotus malabaricus* Thirumalai &Ananthasubramanian 1981
2. *Neocentrus rufus* Thirumalai &Ananthasubramanian 1981(*Gen.&Sp.nov.*)
3. *Parayasa variegata* Thirumalai &Ananthasubramanian 1981
4. *Telingana majuscula* Thirumalai &Ananthasubramanian 1981
5. *Tricentrus syrandrikae* Thirumalai &Ananthasubramanian 1981

REF:THIRUMALAI, G. AND K.S. ANANTHASUBRAMANIAN, 1981.Taxonomic studies on the membracids collected from Silent Valley, Kerala (Insecta:Homoptera). *Bull. Zool. Surv. India*, **4**(1): 27-32.

6. *Aleptocentrus notabilis* Thirumalai &Ananthasubramanian 1985(*Gen.&Sp.nov.*)
7. *Pogonotus indicus* Thirumalai &Ananthasubramanian 1985(*Gen.&Sp.nov.*)
8. *Telingana sabarigiriensis* Thirumalai &Ananthasubramanian 1985
9. *Tricentrus distinctus* Thirumalai &Ananthasubramanian 1985
10. *Tricentrus speciosus* Thirumalai &Ananthasubramanian 1985

REF:THIRUMALAI, G. AND K.S.ANANTHASUBRAMANIAN, 1985.Taxonomic studies on the Membracidae of Southern India (Homoptera:Insecta) 1. *Entomon*, **10**(3): 223-233.

11. *Lanceonotus mukkaliensis* Thirumalai 1986
12. *Tricentrus erectus* Thirumalai 1986

REF:THIRUMALAI, G. 1986. Further studies on the membracids from Silent Valley, Kerala (Insecta: Homoptera). *Rec. zool. Surv. India*, **84** (1-4): 97-105.

CLASS INSECTA
ORDER HEMIPTERA
SUBORDER HETEROPTERA
INFRAORDER GERROMORPHA
Family : Gerridae(Water Skaters)
Subfamily: Ptilomerinae

13. *Pleciobatus indicus* Thirumalai, 1986
14. *Stridulobates anderseni* Zettel & Thirumalai, 2001 (*Gen.&Sp.nov.*)
15. *Stridulobates nostras* (Thirumalai, 1986)

REF:THIRUMALAI, G. 1986. On Gerridae and Notonectidae (Heteroptera: Hemiptera: Insecta) from Silent Valley, Kerala. *Rec. zool. Surv. India*, **84** (1-4): 9-33.

REF:ZETTEL, H AND G. THIRUMALAI, 2001. *Stridulobates anderseni*, a new genus and species of ptilomerine Gerridae (Hemiptera: Heteroptera) with 'Stridulatory devices' from South India. *Insect Syst. Evol.*, **31**(4): 433-439.

Subfamily: Halobatinae

16. *Metrocoris malabaricus* Thirumalai, 1986
17. *Metrocoris variegans* Thirumalai, 1986

REF:THIRUMALAI, G. 1986. On Gerridae and Notonectidae (Heteroptera: Hemiptera: Insecta) from Silent Valley, Kerala. *Rec. zool. Surv. India*, **84** (1-4): 9-33.

FAMILY VELIIDAE(Riffle bugs)
SUBFAMILY MICROVELIINAE

18. *Microvelia (Microvelia) javadiensis* Thirumalai, 1989

REF:THIRUMALAI, G. 1989. Aquatic and Semi-Aquatic Hemiptera (Insecta) from Javadi Hills, Tamilnadu Misc. *Occ. pap. Rec. zool. Surv. India*, **118**: 63pp

19. *Aquulavelia occulta* Thirumalai, 1999 (*Gen.&Sp.nov.*)

REF:THIRUMALAI, G. 1999. A new genus of Microveliinae (Hemiptera: Heteroptera: Veliidae) from North Eastern India with a checklist of the Indian species of the subfamily. *Rec. zool. Surv. India*, **97**(3): 205-211.

SUBFAMILY RHAGOVELIINAE

20. *Rhagovelia (Neorhagovelia) nilgiriensis* Thirumalai, 1994

REF: THIRUMALAI, G. 1994. On the genus *Rhagovelia* Mayr from India with a new record and description of a new species (Rhagovellinae: Vellidae: Heteroptera) *Rec. zool. Surv. India*, **94** (2-4): 381-394.

INFRAORDER NEPOMORPHA

Family :Corixidae(Water boat man)

21. *Micronecta(Dichaetonecta) janssoni* Thirumalai, 1989

REF:THIRUMALAI, G. 1989. Aquatic and Semi-Aquatic Hemiptera (Insecta) from Javadi Hills, Tamilnadu Misc. *Occ. pap. Rec. zool. Surv. India*, **118**: 63pp

Family : Aphelocheiridae (Benthic bottom Bug)

22. *Aphelocheirus (Aphelocheirus) narmadaensis* Thirumalai, 2008

Ref:G.THIRUMALAI 2008. *Aphelocheirus (Aphelocheirus) narmadaensis* sp. nov. (Hemiptera: Nepomorpha: Aphelocheiridae) from Madhya Pradesh, India. *Zootaxa* 1923: 55-61 .

► NEW RECORDS TO INDIA(5 SPECIES)

1. *Micronecta decorata* Lundblad, 1933 (MICRONECTIDAE: CORIXOIDAE: HEMIPTERA: INSECTA) FROM LOWER SHIWALIK HILLS, INDIA.

REF:THIRUMALAI, G. 2006. FIRST REPORT OF *MICRONECTA DECORATA* LUNDBLAD, 1933 (MICRONECTIDAE: CORIXOIDAE: HEMIPTERA: INSECTA) FROM LOWER SHIWALIK HILLS, INDIA. *Rec. zool. Surv. India* : **106**(Part 4) : 1-3, 2006

2. *Micronecta flavens* Wróblewski ,1960 (MICRONECTIDAE: CORIXOIDAE: HEMIPTERA: INSECTA) FROM TAMILNADU, INDIA

REF:THIRUMALAI, G. 1999. A Checklist of Aquatic and semi - aquatic Heteroptera (Insecta) of Tamilnadu. *Zoos' print J., I-XIV* (1-10): 132-135.

3. *Ventidius (Ventidius) modulatus* Lundblad, 1934 (HALOBATINAE GERRIDAE HEMIPTERA: INSECTA) FROM ARUNACHAL PRADESH INDIA

REF:THIRUMALAI, G. 2002b. A Checklist of Gerromorpha (Hemiptera) from India. *Rec. zool. Surv. India*, **100**(1-2): 55-97.

4. *Ventidius (Ventidioides) kuiterti* Hungerford & Matsuda, 1960 (HALOBATINAE GERRIDAE HEMIPTERA: INSECTA) FROM ARUNACHAL PRADESH INDIA

REF:THIRUMALAI, G 1996. A new record of the subgenus *Ventidioides* Hungerford and Matsuda of the genus *Ventidius* Distant from India (Halobatinae: Gerridae: Heteroptera). *Arunachal Forest News*, **14** (2) : 14 – 16.

5. *Tetraripis asymmetricus* Polhemus & Karunaratne, 1979 (RHAGOVELLIINAE VELLIIDAE HEMIPTERA: INSECTA) FROM TAMILNADU, INDIA

REF:THIRUMALAI, G AND D. DAM, 1996. A new record of the genus *Tetraripis* Lundblad (Rhagovellinae :Vellidae : Heteroptera) from India with a key to the known species. *Hexapoda*, **8**(2): 67-69

Complete list of publications of Dr G Thirumalai

Books: 8; Papers in Journals & Books: 70; Papers in Symposium Proceedings: 12; Online Checklists/other resources: 6;

► Books

1. **THIRUMALAI, G.** 1989. Aquatic and Semi-Aquatic Hemiptera (Insecta) from Javadi Hills, Tamilnadu Misc. Occ. pap. Rec. zool. Surv. India, **118**: 63pp [Book](#)
2. **THIRUMALAI, G.** 1994. Aquatic and semi-aquatic Hemiptera (Insecta) of Tamilnadu I. Dharmapuri and Pudukkottai Districts. Misc. Occ. Pap. Rec. zool. Surv. India, **165**:45pp [Book](#)
3. **THIRUMALAI, G.** 1999. Aquatic and semi-aquatic Heteroptera of India. Indian Association of Aquatic Biologists (IAAB) Publication No, **7**:74 pp. [Book ISBN:81-900595-6-4](#)
4. **THIRUMALAI, G AND S.KRISHNAN.**2005. Pictorial Handbook -Birds of Chennai: 196pp (Published by the Director Zool.Surv.India, Kolkata) **ISBN 81-8171-068-1** [Book](#)
5. **THIRUMALAI, G. AND KRISHNAN, S.** [As Project Coordinator] - 2006. *Fauna of Biligiri Rangaswamy Temple Wildlife Sanctuary: Conservation Area Series*, **27**: 1-263. 9 (Published by Director Zoological Survey of India, Kolkata). **ISBN 81-8171-113-0.** [Book](#)
6. **THIRUMALAI, G. AND KRISHNAN, S.** [As Project Coordinator] - 2007. *Fauna of Bannerghatta National Park: Conservation Area Series*, **33**:1-141. 9 (Published by Director Zoological Survey of India, Kolkata). **ISBN 978-81-8171-164-5.** [Book](#)
7. **Thirumalai, G.** 2007. A Synoptic List of Nepomorpha (Hemiptera: Heteroptera) From India. *Rec. zoo. Surv. India. Occ. Paper No.*, **273**: 1-84. (Published by the Director Zool.Surv.India, Kolkata) **ISBN 978-81-8171-173-1** [Book](#)
8. Thirumalai, G [As Project Coordinator] - 2009.. *Fauna of Tamilnadu part 1, State fauna series, Zool.Surv.India* **17**:1-256pp (Published by Director Zoological Survey of India, Kolkata). **ISBN 978-81-8171-214-1.** [Book](#)

► PAPERS IN JOURNALS AND BOOKS

1. T.N. ANANTHAKRISHNAN AND **G. THIRUMALAI.** 1977. The grass seed infesting thrips *Chirothrips mexicanus* Crawford on *Pennisetum typhoides* and its prinipal alternate host *Chloris barbata*. *Curr. Sci.*, **46**(6): 193-194.
2. **THIRUMALAI, G. AND T.N.ANANTHAKRISHAN,** 1977. A new pentatomid host for a pteromalid egg parasite and the nature of interspecific competition with other hymneopterous egg parasites. *Curr. Sci.*, **46** (24): 864-865.
3. T.N. ANANTHAKRISHNAN AND **G. THIRUMALAI.** 1978. Population fluctuations of three species on Anthophilous Thysanoptera with notes on the biology of the seed feeding species, *Chirothrips mexicana*us Crawford. *Bull. Zool. Surv. India*, **1**(2): 197-201.

4. THIRUMALAI, G. AND K.S. ANANTHASUBRAMANIAN, 1981. Taxonomic studies on the membracids collected from Silent Valley, Kerala (Insecta: Homoptera). *Bull. Zool. Surv. India*, **4**(1): 27-32.
5. THIRUMALAI, G. 1983. New record of two species of the genus *Anisops* Spinola (Hemiptera: Insecta) from the lower Western Ghats, Kerala. *Bull. Zool. Surv. India*, **5**(1): 123-124.
6. THIRUMALAI, G. 1984. A note on the culicine mosquitoes of the Mangrove Islands of Pitchavaram, Southern India. *Geobios new Reports*, **3**: 77-79.
7. THIRUMALAI, G. AND K.S. ANANTHASUBRAMANIAN, 1985. Taxonomic studies on the Membracidae of Southern India (Homoptera: Insecta) 1. *Entomon*, **10**(3): 223-233.
8. THIRUMALAI, G. 1986a. On Gerridae and Notonectidae (Heteroptera: Hemiptera: Insecta) from Silent Valley, Kerala. *Rec. zool. Surv. India*, **84** (1-4): 9-33.
9. THIRUMALAI, G. 1986b. Further studies on the membracids from Silent Valley, Kerala (Insecta: Homoptera). *Rec. zool. Surv. India*, **84** (1-4): 97-105.
10. THIRUMALAI, G. AND M.B. RAGHUNATHAN, 1988. Population fluctuations of three families of aquatic Heteroptera in perennial pond. *Rec. zool. Surv. India*, **85** (3): 381-389.
11. THIRUMALAI, G. AND K. RAMALINGAM, 1989. Some laboratory observations on the biology of *Culex sitiens* (Wiedmann) of Pitchavaram Mangrooves. *Tamilnadu J. Sci.*, **41** 1-2.
12. THIRUMALAI, G. 1992. A new record of *Pleciobates tuberculatus* Esaki from India with a key to the known species of *Pleciobates* Esaki (Gerridae : Heteroptera : Insecta). *Hexapoda*, **4** (2): 170-174.
13. THIRUMALAI, G. 1994. On the genus *Rhagovelia* Mayr from India with a new record and description of a new species (Rhagovellinae: Vellidae: Heteroptera) *Rec. zool. Surv. India*, **94** (2-4): 381-394.
14. THIRUMALAI, G. 1996. A new record of the subgenus *Ventidioides* Hungerford and Matsuda of the genus *Ventidius* Distant from India (Halobatinae: Gerridae: Heteroptera). *Arunachal Forest News*, **14** (2) : 14 – 16.
15. THIRUMALAI, G. AND D. DAM, 1996. A new record of the genus *Tetraripis* Lundblad (Rhagovellinae : Vellidae : Heteroptera) from India with a key to the known species. *Hexapoda*, **8**(2): 67-69
16. THIRUMALAI, G. 1997. The Genus *Nerthra* (Say) from India with a description of a new species from Arunachal Pradesh, North Eastern India (Gelastocoridae: Hemiptera : Insecta). *Rec. zool. Surv. India*, **96** (1-4): 189-193.
17. THIRUMALAI, G. AND P.T. BHUTIA, 1997. Recent record of the Red-necked Keel back *Rhabdophis subminatus* (Schiegel) from Arunachal Pradesh. *Rec. zool. Surv. India*, **96**(1-4): 189.
18. THIRUMALAI, G. 1999a. A new genus of Microveliinae (Hemiptera: Heteroptera: Veliidae) from North Eastern India with a checklist of the Indian species of the subfamily. *Rec. zool. Surv. India*, **97**(3): 205-211.
19. THIRUMALAI, G. 1999b. A Checklist of Aquatic and semi - aquatic Heteroptera (Insecta) of Tamilnadu. *Zoos' print J.*, **I-XIV** (1-10): 132-135.
20. THIRUMALAI, G. 1999c. Collection, Preservation, transportation and rearing methods of Aquatic bugs (Heteroptera: Hemiptera: Insecta). *Bugs 'R' All*, **3**(2): 3.
21. THIRUMALAI, G. and C. Radhakrishnan, 1999. Aquatic Hemiptera (Insecta) of Kasargod District, Kerala State. *Rec. zool. Surv. India*, **97**(3): 123-139..
22. THIRUMALAI, G., 2000. Diversity of the semi-aquatic bugs (Heteroptera: Hemiptera: Insecta) in Arunachal Pradesh. *J. Aqua. Biol.*, **15**(1): 35-39.
23. THIRUMALAI, G. 2001. Insecta-Aquatic and semi-aquatic Heteroptera. Zool. Surv. India,
Fauna of conservation Area Series, 11, Fauna of Nilgiri Biosphere Reserve, **11**: 111-127. ISBN: **81-85874-55-7**

24. THIRUMALAI, G AND S.KRISHNAN.2000. Diversity of Gerromorpha (Heteroptera: Hemiptera: Insecta) in the Western Ghats States of India. *Rec. zool. Surv. India*, **98**(4): 61-82.
25. THIRUMALAI, G. AND M. S. RAVICHANDRAN, 2000. "Aquatic Coleoptera" (a self study module). *Labs Beat*, **1**(4): 1-4.
26. ZETTEL, H AND G. THIRUMALAI, 2001a. *Stridulobates anderseni*, a new genus and species of ptilomerine Gerridae (Hemiptera: Heteroptera) with 'Stridulatory devices' from South India. *Insect Syst. Evol.*, **31**(4): 433-439.
27. ZETTEL, H. AND G. THIRUMALAI, 2001b. Re-establishment of the ptilomerine genus *Jucundus* Distant, 1910(Heteroptera: Gerridae), with redescription of the type species *Jucundus custodiendus* Distant, 1910, from South India and notes on *J. vittatus* (Esaki, 1928) *Comb. n.* from Sri Lanka. *Ann. Naturhist. Mus. Wien*, **103** B: 273-282.
28. THIRUMALAI, G., 2002a. Diversity of the aquatic bugs (Heteroptera: Hemiptera: Insecta) in Arunachal Pradesh. *Proc. National Symposium on Vistas of Entomological Research for the new Millennium*, Chennai 42, 23-30.
29. THIRUMALAI, G., 2002b. A Checklist of Gerromorpha (Hemiptera) from India. *Rec. zool. Surv. India*, **100**(1-2): 55-97.
30. THIRUMALAI, G. AND RAMAKRISHNA, 2002. A checklist of Aquatic and Semi Aquatic Hemiptera (Insecta) of Rajasthan, India. *Rec. zool. Surv. India*, **100**(3-4): 101-110.
31. THIRUMALAI, G. and R.M.Sharma, 2002a . Insecta:Hemiptera. (Aquatic and semi-aquatic) ZSI Fauna of Conservation Area, **13** Fauna of Eravikulam National Park: 17-20. **ISBN: 81-85874-59-X**
32. THIRUMALAI, G. AND R.M.SHARMA, 2002b. Aquatic and Semi-aquatic Heteroptera (Insecta). *ZSI, Wetland Ecosystem Series, No. 3, Fauna of Ujjaini*: 105- 116. **ISBN: 81-85874-62-X**
33. THIRUMALAI, G., SHARMA, R. M. AND METHA, S. 2002. Aquatic and Semiaquatic bugs of Pong Dam wetland, Himachal Pradesh. *Bionotes*, **4**(4): 85.
34. THIRUMALAI, G., S. MEHTA AND R. M. SHARMA, 2002. A checklist of aquatic and semi-aquatic bugs (Hemiptera: Insecta) of Chandigarh. *Res. Bull. (Sci.)*. **52**:155-159.
35. LAKSHMINARAYANA, K. V., C. RADHAKRISHNAN, AND G. THIRUMALAI, 2002. On the butterflies of some Peninsular Hills with special reference to Eastern Hills. National Seminar on Conservation of Eastern Ghats, EPTRI, Hyderabad: 339-372.
36. THIRUMALAI, G. 2003. Aquatic and semiaquatic Hemiptera: 224-228. In: Venkataraman, K. 2003. In *Natural Aquatic Ecosystems of India, Thematic Biodiversity and Action Plan*. The National Biodiversity Action Plan: 1-275.
37. THIRUMALAI, G., AND C. RADHAKRISHNAN 2003. Species diversity and richness of Semi-aquatic bugs (Gerromorpha:Hemiptera:Insecta) in India, with special reference to its biodiversity hot spots.*Proc.National Seminar on Biodiversity Coservation and Participatory Management*, 2-18.
38. Thirumalai, G., C. Radhakrishnan and R. Suresh Kumar 2003. A synoptic list of Gerromorpha (Hemiptera: Insecta) known from Kerala, India.Advancements in Insect Biodiversity. Ed. Rajiv, K. Gupta, Pb. Agrobios (India), Jodhpur 299-312 pp. **ISBN: 81-7754-208-7**

39. **THIRUMALAI, G.**, 2004. A checklist of aquatic and semi-aquatic Hemiptera (Insecta) of Karnataka. *Rec. zool. Surv. India*, **102**(1-2): 57-72.
40. **THIRUMALAI, G.**, R. SURESH KUMAR AND R.M..SHARMA. 2004. Aquatic and semi-aquatic Hemiptera (Insecta). ZSI.Fauna of Pench National Park, Conservation Area Series, **20**:233-250.: **ISBN: 81-8171-054-1**
41. CHERIAN, P.T., G.K.SRIVASTAVA AND **G.THIRUMALAI**. **2004**. INSECTA. 133-180. In Alfred, J.R.B. and Ramakrishna. (Ed.) Preservation and identification of Animals :1-310. (Published :Director, *Zool.Surv. India, Kolkata*). **ISBN: 81-8171-055-X**
42. RADHAKRISHNAN, C. AND **THIRUMALAI, G.**, 2004. A report on the occurrence of the sea skater, *Halobates galatea* Herring (Insecta: Hemiptera: Gerridae) in a mangrove habitat at Dharmadam, Kannur district, Kerala. *Rec. zool. Surv. India*, **102**(1-2): 7-10.
43. **THIRUMALAI, G.** AND C. RADHAKRISHNAN, 2005. A sight record of the Glossy Ibis, *Plegadis falinellus* (Linnaeus) (Threskionithidae: Aves) from Chennai, South India. *Rec. zool. Surv. India*,(1-2): 179-182
44. **THIRUMALAI, G.** AND R.M. SHARMA, 2005. Aquatic and semi-aquatic Hemiptera (Insecta) of Melghat Tiger Reserve. *ZSI.Fauna of Melghat Tiger reserve, Conservation Area Series*, **24**:341-357. **ISBN 81-8171-080-0**
45. **THIRUMALAI, G.** R.M.SHARMA AND VALARMATHI.K .2005. Aquatic and Semi-aquatic Hemiptera (Insecta).Zool. Surv.India. Fauna of Nath Sagar Wet land Ecosystem series.**7**: 129-136. **ISBN 81-8171-084-3**
46. **THIRUMALAI, G.**AND R. SURESH KUMAR 2005. Aquatic and semi - aquatic Hemiptera (Heteroptera) of Karaikal and Pondicherry. *Rec. zool. Surv. India*, **105**(1-2): 5-24.
47. **THIRUMALAI, G.** 2006. First report of *Micronecta decorata* Lundblad, 1933 (Micronectidae:Corixoidae: Hemiptera: Insecta) from Lower Shiwalik Hills, India. *Rec. Zool. Surv. India*, **106**(4): 1-3.
48. **THIRUMALAI, G.** R.M.SHARMA AND SREEDHARAN NAMBOODIRI, M.P.2006. Aquatic and Semi-aquatic Hemiptera (Insecta). *Zsi,Conservation Area Series :25 Fauna of Tadoba Andhari Tiger Reserve*, 251-272. **ISBN 81-8171-083-5**
49. **THIRUMALAI, G.** AND KRISHNAN, S. 2006. Bilgiri Rangaswamy Temple Wildlife Sanctuary Indroduction. *Zool. Surv. India. Fauna of Bilgiri...Wildlife Sanctuary, Conseravation Area Series*,**27**:1-4 **ISBN 81-8171-113-0**
50. **THIRUMALAI, G.** AND SURESH KUMAR, R. 2006 Insecta: Hemiptera (Aquatic and Semiaquatic). *Zool. Surv. India. Fauna of Bilgiri...Wildlife Sanctuary, Conseravation Area Series*.**27** :59-82. **ISBN 81-8171-113-0**
51. MURTHY, T. S. N. AND **THIRUMALAI, G.** 2006 Reptlila. *Zool. Surv. India. Fauna of Bilgiri...Wildlife Sanctuary, Conseravation Area Series*.**27** :233-238.

ISBN 81-8171-113-0

52. ALFRED, J.R.B, **THIRUMALAI, G.** AND SURESH KUMAR, R.2006 Kalkad– Mundanthurai Tamil Nadu. Faunal Diversity of Tiger Reserves in India (A Commemorative volume on 3 decades of Project Tiger) Volume II: 861- 890. Published by the Director, *Zool.Surv.India*, Kolkata and Director Project Tiger, New Delhi. **ISBN: 81-8171-125-4.**
53. RAMAKRISHNA, **THIRUMALAI, G.** AND SURESH KUMAR, R.2006. Bandipur Tiger Reserve, Karnataka. Faunal Diversity of Tiger Reserves in India (A Commemorative volume on 3 decades of Project Tiger) Volume II: 891-911. Published by the Director, *Zool. Surv.India*, Kolkata and Director Project Tiger, New Delhi. **ISBN: 81-8171-125-4.**
54. **THIRUMALAI, G.** AND KRISHNAN, S. 2007. Fauna of Bannerghatta National Park an overview. *Fauna of Bannerghatta National Park, Conservation Area Series*, **33**:1-4. (Published by the Director, *Zool.Surv. India*, Kolkata). **ISBN 978-81-8171-164-5.**
55. **THIRUMALAI, G.** 2007. Insecta: Hemiptera (Aquatic and Semi Aquatic Bugs). *Fauna of Bannerghatta National Park, Conservation Area Series*, **33**: 45-61. (Published by the Director, *Zool.Surv. India*, Kolkata). **ISBN 978-81-8171-164.**
56. **THIRUMALAI, G.,** KRISHNAN, S., VALARMATHI, K AND REMA DEVI, K. 2007. Aves. *Fauna of Bannerghatta National Park, Conservation Area Series*, **33**: 123-134.(Published by the Director, *Zool. Surv. India*, Kolkata). **ISBN 978-81-8171-164-5.**
57. **THIRUMALAI, G.,** SHARMA, R. M. AND CHANDRA, K. 2007. A Checklist Aquatic and Semi-aquatic Hemiptera (Insecta) of Madhya Pradesh. *Rec.zool. Surv. India*. **107**(4): 71-91.
58. G.**THIRUMALAI** 2008. *Aphelocheirus (Aphelocheirus) narmadaensis* sp. nov. (Hemiptera: Nepomorpha: Aphelocheiridae) from Madhya Pradesh, India. *Zootaxa* 1923: 55–61 .
59. **Thirumalai, G** And sharma,R. M. 2008a. Further record of occurrence of ranatra titilaensis hafiz & pradhan (ranatrinae: nepidae: hemiptrea). *Rec.zool. Surv. India*. 108(1): 97-99.
60. **Thirumalai, G.,** and sharma,R. M.. 2008b. Insecta:aquatic and semi-aquatic hemiptera in faunal diversity of jabalpur district, madhya pradesh, published by zoological survey of india, kolkata, (ed:the director): 109-140.isbn 978-81-8171-193-9.
61. **Thirumalai, G** and Krishnan, S. 2009. Over view.*Zool.Surv.IndiaFauna of Tamilnadu,State fauna series,17:1-5.*
62. **Thirumalai, G.**2009. Insecta :Hemiptera:Nepomorpha:Gerromorpha*Zool.Surv.IndiaFauna of Tamilnadu,State fauna series,17:65-71*
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