A checklist of spiders of Nepal (Arachnida; Araneae)

Sanskar Subedi*, Ritu Joshi, Samir Karki, Shila Gurung

Institute of Forestry, Pokhara Campus, Nepal

ARTICLE INFO

Keywords:
Endemic Nepalese Species Spider

ABSTRACT

Spiders (order Araneae) have a worldwide distribution. As of June 17, 2022, the World spider catalog, Version 23.0, enlists 50,188 species of spiders from throughout the world. Except for the open sea and air, spiders live in every ecological environment. They prefer densely vegetated environments and are the world’s seventh most diverse group of creatures in terms of species diversity. The checklist of spiders of south Asia mentions 222 spider species from Nepal, grouped into 23 families. However, the official database of the Nepalese government only lists 175 species of Nepalese spiders. This checklist is a vital update to the diversity of the spider fauna of Nepal. The goal is to compile a thorough list of all the spiders found in Nepal. We have enlisted 386 different spider species from Nepal, belonging to 135 different genera and 34 different families, after reviewing previous scientific publications, computer databases of the Nepalese government, and the World spider catalog, Version 23.0. It adds a total of 211 new spiders to Nepal’s biodiversity database. Linyphiidae and Salticidae spiders dominate according to 27.46 percent and 17.36 percent of total species, respectively, on the checklist. Corrections to previous misidentifications are also included in this checklist, as well as taxonomy revisions. Synonymous species are sorted out to avoid recurrence. The trends in Nepalese spider discovery and dispersion have also been studied.

1. Introduction

Spiders are found all over the planet and have mastered all natural situations, excluding the open sea and the air [1]. The World spider catalog, Version 23.0, has 50,188 species of spiders from all across the world as of June 17, 2022 [2]. The amount of extant species of spiders has been estimated to be over 170,000 [3] although it could be much higher. Spiders are without a doubt the largest taxonomic group that is totally made up of predators. Part of their success can be attributed to their skill to colonize almost all terrestrial habitats, from marine intertidal zones [4] to high altitude areas, as evidenced by the champion Euophrys omni-superstes [5] which can be found at 6700 m altitude in the Himalayas [6]. Spider study is growing, thanks to new taxonomic discoveries, neuronal properties of spider venom, and the versatility of spider silk.

Brignoli [7, 8, 9, 10], Wunderlich [11, 12, 13], Ono [14, 15, 16, 17, 18, 19], Zabka [20, 21, 22, 23], Bohdanowicz [24, 25], Thapa [26], and Buchar [27, 28, 29] were among the significant contributors to the study of Nepalese spiders in the mid-twentieth century [30]. Several studies have been based on Prof. J. Martens’ collections from the Himalayan expeditions. Buchar introduced 7 new Lycosid spiders from Nepal in 1976, 1978, and 1984. Bohdanowicz (1979, 1987) described new Synagelides spiders from Nepal in his studies. Ono (1979, 1980, and 1985) used numerous thomisid spiders from Nepal in his research. Other researches by Ono (1983, 2006) and Jocqué (1992) describe endemic Zodariidae spiders from Nepal. Nishikawa’s study from 1980 introduced 2 new Agelena spiders from Nepal’s Khumbu region. Zabka discovered 11 distinct salticid spiders in Nepal during his research. Other 2 spider species belonging to the genus Saffasia were also discovered from eastern Nepal [31]. Two hersilid spiders from Nepal were introduced by Baehr & Baehr in 1993. There were 144 species of spiders in Nepal, according Thapa’s book; “Enumeration of Spiders of Nepal” [26]. Jastrzebski [32, 33, 34, 35, 36, 37, 38, 39] cites 15 different salticid spiders from Nepal in his various researches. A study on rice field spiders was also conducted in Nepal’s Chitwan district [40]. Jäger [41, 42, 43, 44, 45] describes the family Sparassidae, which includes 33 species from Nepal. Wang discovered 7 new Himalcoelotes species in his research [46]. There are 37 new spiders of the genus Draconarius in the revised list of ceolotine spiders from Nepal [47]. Different Studies by Tanasevitch [48, 49, 50, 51, 52, 53, 54, 55, 56] Tanasevitch and Saaristo [57], and Wunderlich [11, 12, 13] enlist many linyphid spiders from Nepal. The “Nepal biodiversity resource book” featured a checklist of spiders of Nepal (Annex 2.1) with 175 species of spiders belonging to 22 distinct families, based on data from earlier publications [26, 40, 58]. Similarly, the checklist of south Asian spiders identified 222 spider species belonging to 79 genera. 176 of
those species were only found in Nepal [30]. Wang and Zhu discovered 3 new species of the genus *Himalmartensus* in Nepal [59]. 38 different Nepalese spiders of the genus *Draconarius* are described in a study based on J. Marten’s collection from Himalayan trips [47]. Four new *Camptoscaphiella* species were discovered in Nepal by Baehr and Ubick in 2010. Platnick et al. found 3 new species of *Brignolia* in Nepal [60]. Huber described 2 species of genus *Pholcus* from Nepal in 2011. Jager found a new species of genus *Ctenus* in 2012. Four species of the genus *Himalayana* from Nepal are included in Grismado’s study [61]. Nepal’s official spider species count is 175 as published in “Nepal’s Sixth National Report to The Convention on Biological Diversity (2018), released by the Ministry of Forest and Environment, Government of Nepal [62]. Furthermore, the study by Xu et al. documented 5 new species of the genus *Leclercera* from Nepal [63]. Chang and Li added another *Leclercera* spider to the list [64]. For the first time in Nepal, Shrestha and Dorr announced the finding of the genus *Lactrodectus* in 2020 [65]. Nine new Asian salticid spider species were discovered during a field study in Nepal’s Chitwan National Park [66]. A new genus, *Himalafurca*, is described in a recent study including two species from Nepal [52]. A different study reports 7 new *Pimoa* species from Nepal [67].

Furthermore research on Nepalese spiders has been ongoing since last inventory, and this update to the Nepalese spider checklist is critical. The purpose of this article is to compile a list of all the spider species discovered in Nepal, update their taxonomy and reveal the current state of spider research in Nepal.

2. Study area

Nepal, a southeast Asian country that makes up around 0.1 percent of the world’s landmass, is home to 118 different ecosystems [68]. It is a biogeographical transition zone between the Paleotropics and Palaeartic biogeographical realms in the south and the Palaeartic biogeographical realms in the north [69]. Nepal is divided into three ecological regions; Mountain, hills and terai. The climate ranges from tropical to arctic in a short distance of 180 km [68]. Extreme height fluctuation (70–8848.86 m) and precipitation (up to 5500 mm yearly) [70], divergent temperatures, aspect, and humidity form a complex mosaic of ecosystems and habitat ranging from tropical forest through alpine highlands in Nepal [68]. The classification by Stainton identified 35 various forest types in Nepal [71]. Nepal is home to a vast range of flora and animals. According to Nepal’s sixth national report to the Convention on Biological Diversity (2018), the country is home to over 13,000 species of flora and over 17,000 species of fauna [62]. Politically, Nepal is divided into 77 districts and 7 federal provinces (see Figure 1).

3. Materials and methods

3.1. Data collection

This checklist was created using information from previous publications in international journals, books, a computer database, and scientific records from “The World Spider Catalog” (Version-23.0). Using Google Scholar’s all-in-title feature, we looked for literature discussing Nepalese spiders using keywords with Boolean operators “Spider” OR “Spiders,” “Nepal”. There were a total of 21 search results, with 14 articles and 7 citations. To find the papers listed, these citations were copied and searched in full scale in Google Chrome.

Figure 1. Map of Nepal; Geographical and political. The small rectangular box displays Nepal’s geographic location inside Asia. Nepal is a landlocked nation in Southeast Asia that shares borders with both China and India. Lying below is the enlarged political map of Nepal. There, it makes reference of Nepal’s federal provinces and districts.
Table 1. Nepalese spider genera and species by family.

| SN | Family          | No. of Genera | No. of Species | No. of endemic species | Guild Structures [75]       |
|----|----------------|---------------|----------------|------------------------|-----------------------------|
|    |                |               |                |                        |                             |
| 1. | Agelenidae      | 4             | 50             | 46                     | Sheet web builders          |
| 2. | Amaurobiidae    | 1             | 3              | 3                      | Sheet web builders          |
| 3. | Anapidae        | 1             | 2              | 2                      | Orb weavers                 |
| 4. | Araneidae       | 4             | 9              | 0                      | Orb weavers                 |
| 5. | Ctenidae        | 1             | 1              | 1                      | Ground/other hunters        |
| 6. | Deinopidae      | 1             | 1              | 0                      | Ambush hunters              |
| 7. | Dictynidae      | 1             | 1              | 0                      | Space web builder           |
| 8. | Eresidae        | 1             | 1              | 0                      | Sheet web builders          |
| 9. | Gaphosidae      | 2             | 4              | 1                      | Ground hunters              |
| 10.| Hahniidae       | 2             | 2              | 2                      | Sheet web builders          |
| 11.| Hersiliidae     | 1             | 3              | 1                      | Sensing web builder         |
| 12.| Linyphiidae     | 41            | 106            | 82                     | Web builders/ wandering     |
| 13.| Lycosidae       | 7             | 18             | 4                      | Ground hunters              |
| 14.| Mysmenidae      | 1             | 1              | 1                      | Space web builder           |
| 15.| Nesticidae      | 1             | 1              | 0                      | Space web builder           |
| 16.| Oonopidae       | 5             | 16             | 12                     | Ground hunters              |
| 17.| Oxypidae        | 1             | 3              | 0                      | Ground hunters              |
| 18.| Pholcidae       | 1             | 2              | 0                      | Space web builder           |
| 19.| Pimoidae        | 1             | 9              | 9                      | Sheet web builders          |
| 20.| Pisauridae      | 1             | 1              | 0                      | Ambush hunter               |
| 21.| Pschiriidae     | 2             | 3              | 1                      | Sheet web builders          |
| 22.| Pulodercidae    | 1             | 7              | 7                      | -                           |
| 23.| Salticidae      | 30            | 67             | 27                     | Stalkers                    |
| 24.| Scytodidae      | 1             | 1              | 0                      | Hunters                     |
| 25.| Selenopidae     | 1             | 1              | 0                      | Ambush hunters              |
| 26.| Sparasinae      | 3             | 33             | 32                     | Wandering spiders           |
| 27.| Symphytognathida| 1             | 1              | 1                      | Orb weavers                 |
| 28.| Tetrablemmidae  | 2             | 2              | 2                      | Sheet web builders          |
| 29.| Tetragnathidae  | 2             | 2              | 0                      | Orb weavers                 |
| 30.| Theraphosidae   | 1             | 1              | 1                      | Sensing web builder         |
| 31.| Theridiidae     | 2             | 2              | 1                      | Space web builder           |
| 32.| Thomisidae      | 7             | 23             | 7                      | Ambush hunters              |
| 33.| Titanoecidae    | 1             | 1              | 1                      | Space web builder           |
| 34.| Zodariidae      | 3             | 8              | 7                      | Specialists                 |

Table 2. Spiders of Nepal and their distribution by family

| S.N | Genera                        | Species with Bibliography | Location (District/Province) | Distribution |
|-----|-------------------------------|---------------------------|-----------------------------|--------------|
| 1.  | *Agelena* Walekenaer, 1837    | *Agelena lukla* [76]       | Solukhumbu/ Province 1       | Nepal and China |
|     |                               | *Agelena Sherpa* [76]      |                             | Endemic       |
| 2.  | *Draconarius* Ovtchinnikov, 1999 | *Draconarius beloniformis* [47] | Mustang/ Gandaki Province | Endemic       |
|     |                               | *Draconarius bifarius* [47] | Terhathum/ Province 1       | Endemic       |
|     |                               | *Draconarius brevikenios* [47] | Lam/ Province 1             | Endemic       |
|     |                               | *Draconarius capitellus* [47] | Myagdi/ Gandaki Province    | Endemic       |
|     |                               | *Draconarius communis* [47] | Parbat/ Gandaki Province    | Endemic       |
|     |                               | *Draconarius condofecephalus* [47] | Taplejung/ Province 1 | Endemic       |
|     |                               | *Draconarius confusus* [47] | Dolakha/ Bagmati Province   | Endemic       |
|     |                               | *Draconarius contiguus* [47] | Dolpa/ Karnali Province     | Endemic       |
|     |                               | *Draconarius cylinodrias* [47] | Taplejung/ Province 1       | Endemic       |
|     |                               | *Draconarius dapaeni* [47] | Mustang/ Gandaki Province   | Endemic       |
|     |                               | *Draconarius distinctus* [47] | Panchthar / Province 1      | Endemic       |
|     |                               | *Draconarius dorsefecephalus* [47] | Dolakha/Bagmati Province | Endemic       |
|     |                               | *Draconarius gorkhaeni* [47] | Gorkha/ Gandaki Province    | Endemic       |
|     |                               | *Draconarius gurkha* [47]  | Solukhumbu/ Province 1      | Endemic       |

(continued on next page)
| S.N | Genera | Species with Bibliography | Location (District/Province) | Distribution |
|-----|--------|---------------------------|-----------------------------|--------------|
|  | *Draconarius latiforus* [47] | Sankhuwasabha / Province 1 | Endemic |
|  | *Draconarius meganiger* [47] | Myagdi/ Gandaki Province | Endemic |
|  | *Draconarius microcoelotes* [47] | | Endemic |
|  | *Draconarius panchtharensis* [47] | Panchthar/ Province 1 | Endemic |
|  | *Draconarius paraepisomos* [47] | Mustang/ Gandaki Province | Endemic |
|  | *Draconarius philochokensis* [47] | Lalitpur/ Bagmati Province | Endemic |
|  | *Draconarius pseudogurkha* [47] | Solukhumbu/ Province 1 | Endemic |
|  | *Draconarius pseudomeganiger* [47] | Lalitpur/ Bagmati Province | Endemic |
|  | *Draconarius sacculus* [47] | Taplejung/ Province 1 | Endemic |
|  | *Draconarius schawalleri* [47] | Gorkha/ Gandaki Province | Endemic |
|  | *Draconarius semicirculus* [47] | Dolakha/ Bagmati Province | Endemic |
|  | *Draconarius seorsus* [47] | Dolakha/ Bagmati Province | Endemic |
|  | *Draconarius simplicifolis* [47] | Myagdi/ Gandaki Province | Endemic |
|  | *Draconarius spinosus* [47] | Mustang/ Gandaki Province | Endemic |
|  | *Draconarius subconfusus* [47] | Panchthar/ Province 1 | Endemic |
|  | *Draconarius subepisomos* [47] | Solukhumbu/ Province 1 | Endemic |
|  | *Draconarius subrotundus* [47] | Sankhuwasabha / Province 1 | Endemic |
|  | *Draconarius taplejungensis* [47] | Taplejung/ Province 1 | Endemic |
|  | *Draconarius testudinatus* [47] | Taplejung/ Province 1 | Endemic |
|  | *Draconarius tinjuraensis* [47] | Terhathum, Province 1 | Endemic |
|  | *Draconarius volutobursarius* [47] | Dolpa/ Karnali Province | Endemic |
|  | *Draconarius wuermlii* [47] | Taplejung/ Province 1 | Nepal and Bhutan |
|  | *Draconarius yadongensis* [47] | | Nepal and China |
|  | *Himalcoelotes* Wang, 2002 | | |
| 3. | *Himalcoelotes aequoreus* [46] | Mustang/ Gandaki Province | Endemic |
|  | *Himalcoelotes bursarius* [46] | Sindhupalchowk/ Bagmati P. | Endemic |
|  | *Himalcoelotes diatropus* [46] | Rasuwa/ Bagmati P. | Endemic |
|  | *Himalcoelotes gyirongensis* [46] | Parbat/ Gandaki P. | Nepal and China |
|  | *Himalcoelotes martensi* [46] | Kathmandu/ Bagmati P. | Endemic |
|  | *Himalcoelotes nepalensis* [59] | Rasuwa/ Bagmati P. | Endemic |
|  | *Himalmartensus* Wang and Zhu, 2008 | | |
| 4. | *Himalmartensus ausobskyi* [59] | Dolakha/ Bagmati P. | Endemic |
|  | *Himalmartensus martensi* [59] | Kathmandu/ Bagmati P. | Endemic |
|  | *Himalmartensus nepalensis* [59] | Rasuwa/ Bagmati P. | Endemic |
|  | *Metanapis* Brignoli, 1981 | | |
|  | *Metanapis montisemodi* [7] | Myagdi/ Gandaki P. | Endemic |
|  | *Metanapis tectimundi* [7] | Rasuwa/ Bagmati P. | Endemic |
|  | *Neoscona* Simon, 1864 | | |
| 4. | *Neoscona arabesca* [58] | Nepal | Nepal, Israel, India |
|  | *Neoscona nautical* [58] | Nepal | Nepal, Russia, China, Korea |
|  | *Neoscona scylla* [58] | Nepal | Asia and pacific islands |
|  | *Neoscona theisi* [58] | Nepal | Nepal, Australia, India |
|  | *Tegenaria* Latreille, 1804 | | |
|  | *Tegenaria lunakensis* [77] | Taplejung/ Province 1 | Endemic |

**II. FAMILY AMAUROBIIDAE** Thorell, 1870

1. *Himalmartensus* Wang and Zhu, 2008

II. FAMILY ANAPIDAE Simon, 1895

1. *Metanapis* Brignoli, 1981

IV. FAMILY ARANEIDAE Clerck, 1757

1. *Gasteracantha* Sundevall, 1833

2. *Hypsosinga* Ausserer, 1871

3. *Macracantha* Simon, 1864

4. *Neoscona* Simon, 1864

V. FAMILY CTENIDAE Keyserling, 1877

1. *Ctenus* Walckenaer, 1805

VI. FAMILY DEINOPIDAE C.L. Koch, 1850

1. *Asianopis* Lin and Li, 2020

(continued on next page)
### Table 2 (continued)

| S.N | Genera | Species with Bibliography | Location (District/Province) | Distribution |
|-----|--------|---------------------------|-------------------------------|--------------|
| VII. FAMILY DICTYNIDAE O. Pickard-Cambridge, 1871 | | | | |
| 1 | Nigma | Nigma shiprai [58] | Nepal | Nepal and India |
| 2 | O. Pickard-Cambridge, 1871 | | | |
| VIII. FAMILY ERESIDAE C.L. Koch, 1851 | | | | |
| 1. | Stegodyphus | Stegodyphus sarasinorum [2] | Nepal | India, Sri Lanka, Nepal (Endemic to South Asia) |
| 2 | C.L. Koch, 1851 | | | |
| IX. FAMILY GNAPHOSIDAE Pocock, 1898 | | | | |
| 1. | Drassodes | Drassodes lutescens [70] | Solukhumbu/ Province 1 | Nepal, Ukraine, Caucasus |
| 2 | Drassodes phagduaensis [77] | Tappejing/ Province 1 | Endemic |
| 2. | Gnaphosa | Gnaphosa mandschurica [80] | Mustang/ Gandaki P | Mongolia, China, Russia |
| 3 | Gnaphosa moerens [80] | Dolpa/ Karnali Province | China and Nepal |
| X. FAMILY HAHNIIDAE Bertkau, 1878 | | | | |
| 1. | Hahnia | Hahnia alini [77] | Tappejing/ Province 1 | Endemic |
| 2. | Neontistea | Neontistea janetscheki [81] | Solukhumbu/ Province 1 | Endemic |
| XI. FAMILY HERSILIIDAE Thorell, 1870 | | | | |
| 1. | Hersilia | Hersilia martensi [82] | Gorkha/ Gandaki Province | Nepal and Thailand |
| 2. | Hersilia nepalensis [82] | | | |
| 3. | Hersilia savignyi [82] | Dhading/ Bagmati P. | Nepal, India, Pakistan |
| XII. FAMILY LINYPHIIDAE Blackwall, 1859 | | | | |
| 1. | Agyneta | Agyneta bueko [11] | Dolpa/ Karnali Province | Endemic |
| 2. | Agyneta himalaya [56] | Panchtchar, Province 1 | Endemic |
| 3. | Agyneta jiriensis [11] | Dolakha/ Province 1 | Endemic |
| 4. | Agyneta pakistanica [52] | Daleikh/ Karnali Province | Nepal and Pakistan |
| 5. | Agyneta pseudofuscipalpis [11] | Dolpa/ Karnali Province | Endemic |
| 6. | Agyneta yulungiensis | | | |
| 2. | Anguliphantes | Anguliphantes nepalensis [50] | Myagdi/ Gandaki P. | Nepal, Pakistan, India |
| 3. | Ascetophantes | Ascetophantes asceticus [48] | Iam/ Province 1 | Endemic |
| 4. | Asthenargus | Asthenargus thaleri [11] | Baglung/ Gandaki Province | Endemic |
| 5. | Bathypantes | Bathypantes paracymbialis [52] | Sankhuwasabha /Province 1 | Nepal, China, Laos, Myanmar, Thailand |
| 6. | Caviphantes | Caviphantes pseudosaxetorum [52] | | Nepal, China , Japan |
| 7. | Claviphantes | Claviphantes bifurcatoides [52] | | Endemic |
| 8. | Claviphantes bifurcatus [48] | | | |
| 3. | Claviphantes bifurcatoides [52] | | | |
| 9. | Claviphantes | Claviphantes canalis [52] | Sankhuwasabha /Province 1 | Endemic |
| 10. | Gnathorium | Gnathorium gibberum [52] | Tappejing/ Province 1 | Nepal, China, Korea, Japan, Russia |
| 11. | Gongylidiellum | Gongylidiellum Kathmanduense [11] | Baglung/ Gandaki P. | Endemic |
| 12. | Halorates | Halorates crassipalpis [52] | Myagdi/ Gandaki Province | Nepal and Pakistan |
| 13. | Helsdingenia | Helsdingenia ceylonica [83] | Lalitpur/ Bagmati Province | Nepal, Sri Lanka (Endemic to South Asia) |
| 14. | Heterolinyphia | Heterolinyphia tarakotensis [12] | Dolpa/ Karnali Province | India and Nepal (Endemic to South Asia) |
| 15. | Himalafurca | Himalafurca martensi [52] | Sankhuwasabha / Province 1 | Endemic |
| 16. | Himalafurca | Himalafurca schwalleri [52] | Tappejing/ Province 1 | Endemic |
### Table 2 (continued)

| S.N | Genera                      | Species with Bibliography | Location (District/Province) | Distribution                  |
|-----|-----------------------------|---------------------------|------------------------------|-------------------------------|
| 17. | *Himalaphantes* Tanasevitch, 1992 | *Himalaphantes grandiculus* [52] | Panchthar/ Province 1 | Endemic                       |
|     |                             | *Himalaphantes magnus* [48]  | Rautwa/ Bagmati Province     | Endemic                       |
|     |                             | *Himalaphantes martensi* [48]  | Mustang, Gandaki Province   | India and Nepal               |
| 18. | *Hubertella* Platnick, 1989 | *Hubertella montana* [52]   | Sindulpulchowk/ Bagmati P.  | Endemic                       |
|     |                             | *Hubertella orientalis* [58]  | Nepal                        | Endemic                       |
|     |                             | *Hubertella thanakensis* [11]  | Baglung/ Gandaki Province   | Endemic                       |
| 19. | *Indophantes* Saaristo and Tanasevitch, 2003 | *Indophantes agamus* [57]   | Panchthar/ Province 1 | Endemic                       |
|     |                             | *Indophantes digitulus* [48]  | Mustang/ Gandaki Province   | Nepal, Pakistan and India     |
| 20. | *Linyphia* Latreille, 1804 | *Linyphia nepalensis* [11]  | Baglung/ Gandaki Province   | Endemic                       |
| 21. | *Martensinus* Wunderlich, 1973 | *Martensinus annulatus* [12]  | Baglung/ Gandaki Province   | Endemic                       |
|     |                             | *Martensinus micronetiformis* [11]  | Mustang/ Gandaki Province | Endemic                       |
| 22. | *Megalepthyphantes* Wunderlich, 1994 | *Megalepthyphantes nebulosoides* [48] transferred from genus *Lepthyphantes* | Mustang/ Gandaki Province | Central Asia, Iran            |
| 23. | *Mughiphantes* Saaristo & Tanasevitch, 1999 | *Mughiphantes alticola* [48] transferred from genus *Lepthyphantes* | Mustang/ Gandaki Province | Endemic                       |
|     |                             | *Mughiphantes anachoretus* [48] transferred from genus *Lepthyphantes* |                          |                              |
|     |                             | *Mughiphantes ancoriformis* [52] |                          |                              |
|     |                             | *Mughiphantes bicornis* [57]   | Taplejung/ Province 1       | Endemic                       |
|     |                             | *Mughiphantes cuspidatus* [57]  |                            |                              |
|     |                             | *Mughiphantes falcus* [57]     |                            |                              |
|     |                             | *Mughiphantes faustus* [48] transferred from genus *Lepthyphantes* | Ramechhap/ Bagmati Province | Endemic                       |
|     |                             | *Mughiphantes inermus* [57]    | Sankhuwasabha / Province 1 | Endemic                       |
|     |                             | *Mughiphantes longiproper* [57] | Taplejung/ Province 1 | Endemic                       |
|     |                             | *Mughiphantes numilionis* [48] transferred from genus *Lepthyphantes* | Mustang/ Gandaki Province | Endemic                       |
|     |                             | *Mughiphantes occul tus* [48] transferred from genus *Lepthyphantes* | Solukhumbu/ Province 1 | Endemic                       |
|     |                             | *Mughiphantes restrictus* [57] | Sankhuwasabha / Province 1 | Endemic                       |
|     |                             | *Mughiphantes rotundatus* [48] transferred from genus *Lepthyphantes* | Myagdi/ Gandaki P. | Endemic                       |
|     |                             | *Mughiphantes setifer* [48] transferred from genus *Lepthyphantes* | Dolpa/ Karnali Province | Endemic                       |
|     |                             | *Mughiphantes setosus* [57]    | Taplejung/ Province 1       | Endemic                       |
|     |                             | *Mughiphantes sherpa* [48]     | Dolpa/ Karnali Province     | Endemic                       |
|     |                             | *Mughiphantes yeti* [48] transferred from genus *Lepthyphantes* | Solukhumbu/ Province 1 | Endemic                       |
| 24. | *Nasoa* Locket, 1982 | *Nasoa asocialis* [52] transferred from genus *Oedothorax* previously published as *Gorbothorax unghlus* | Kathmandu/ Bagmati Province | Nepal, China, India           |
|     |                             | *Nasoa comata* [53] transferred from genus *Gorbothorax* | Panchthar/ Province 1 | Endemic                       |
|     |                             | *Nasoa conica* [53] transferred from genus *Gorbothorax* | Taplejung/ Province 1 | Endemic                       |
|     |                             | *Nasoa setifera* [53] transferred from genus *Gorbothorax* | Terathum/ Province 1 | Endemic                       |
|     |                             | *Nasoa wunderlich* [13] transferred from genus *Gorbothorax* | Dolakha/ Bagmati Province | Endemic                       |
| 25. | *Nematogmus* Simon, 1886 | *Nematogmus dentimanus* [52] | Sankhuwasabha / Province 1 | Nepal, Srilanka, Malaysia, Indonesia |
| 26. | *Nerine* Blackwall, 1833 | *Nerine oidedicata* [52] transferred from genus *Linyphia* | Panchthar/ Province 1 | Nepal, China, Russia, Korea, Japan |
| 27. | *Nesioneta* Millidge, 1991 | *Nesioneta muriensis* [11] transferred from genus *Agyneta* | Myagdi/ Gandaki Province | Endemic                       |
| 28. | *Oedothorax* Bertkau, in Förster&Bertkau, 1883 | *Oedothorax angelus* [55] | Panchthar/ Province 1 | Endemic                       |
|     |                             | *Oedothorax annulatus* [13] | Dolakha/ Bagmati Province | Endemic                       |
|     |                             | *Oedothorax assuetus* [55] | Kathmandu/ Bagmati P. | Endemic                       |
|     |                             | *Oedothorax clypeellum* [55] |                            | Endemic                       |
|     |                             | *Oedothorax coronatus* [55] | Ilam/ Province 1            | Endemic                       |
|     |                             | *Oedothorax cruciferoides* [54] |                          |                              |
|     |                             | *Oedothorax dismodicoides* [52] |                          |                              | (continued on next page)
Table 2 (continued)

| S.N. | Genera | Species with Bibliography | Location (District/Province) | Distribution |
|------|--------|---------------------------|-----------------------------|--------------|
| 29.  | Oia    | *Wunderlich, 1973*        |                             |              |
|      |        | Oia Kathmandu [52]        | Sindhupalchowk/ Bagmati P.  | Endemic      |
|      |        | Oia sororia [52]          | Myagdi/ Gandaki Province    | Nepal and India |
| 30.  | Palliduphantes Saaristo & Tanasevitch, 2001 | *Palliduphantes theosophicus* [48] | Myagdi/ Gandaki Province | Endemic |
|      |        | *transferred from genus Lepthyphantes* |                             |              |
| 31.  | Paragongylidiellum Wunderlich, 1973 | *Paragongylidiellum caliginosum* [52] | Mustang/ Gandaki P. | Nepal and India |
| 32.  | Parbatthorax Tanasevitch, 2019 | *Parbatthorax unicornis* [51] | Parbat/ Gandaki Province | Endemic |
| 33.  | Piniphantes Saaristo & Tanasevitch, 1996 | *Piniphantes himalayensis* [48] | Mustang/ Gandaki Province | Nepal and Pakistan |
| 34.  | Porhomma Simon, 1884 | *Porhomma marphaenae* [11] | Mustang/ Gandaki Province | Endemic |
| 35.  | Saloca Simon, 1926 | Saloca gorgapaniensis [11] | Mustang/ Gandaki Province | Endemic |
|      |        | Saloca khumbiensis [11]   | Solukhumbu/ Bagmati P. | Endemic |
| 36.  | Scotargus Simon, 1913 | *Scotargus pilosus* [11] | Mustang/ Gandaki P. | Nepal, Europe, Algeria, Russia, Central Asia |
| 37.  | Spiraluphantes Tanasevitch & Saaristo, 2006 | *Spiraluphantes mirabilis* [57] | Sankhuwasabha/ Province 1 | Endemic |
| 38.  | Tapinocybe Simon, 1884 | *Tapinocybe montivagia* [52] | Sankhuwasabha/ Province 1 | Endemic |
|      |        | Tapinocybe altimontanaus [57] |                             | Endemic |
| 39.  | Temuiphantes Saaristo & Tanasevitch, 1996 | *Temuiphantes crassus* [57] | Tapplejung/ Province 1 | Endemic |
|      |        | Temuiphantes plumipes [48] | Gorkha/ Gandaki Province | Endemic |
| 40.  | Tiso Simon, 1884 | *Tiso aestivus* [52] | Tapplejung/ Province 1 | Nepal, Canada, Japan, Nepal and India |
| 41.  | Walckenaeria Blackwall, 1833 | *Walckenaeria martensi* [50] | Solukhumbu, Province 1 | Nepal and India |
|      |        | *synonym: Walckenaeria nepalensis* |                             |              |

XIII. FAMILY LYCOSIDAE Sundevall, 1833

| S.N. | Genera | Species with Bibliography | Location (District/Province) | Distribution |
|------|--------|---------------------------|-----------------------------|--------------|
| 1.   | Acantholycosa Dahl, 1908 | *Acantholycosa baltori* [29] | Solukhumbu/ Province 1 | Nepal, India, China |
| 2.   | Arcosa C.L. Koch, 1847 | *Arcosa janetscheki* [27] | Kavre/ Bagmati Province | Endemic |
|      |        | Arcosa raptor [84] | Dolpa/ Karnali Province | Russia, Nepal, USA, Canada |
| 3.   | Hippasa Simon, 1885 | *Hippasa grenaliiae* [38] | Nepal | Nepal, India, Sri Lanka |
| 4.   | Hylyphantes Simon, 1884 | *senior synonym of genus Ergonidium* |                             |              |
|      |        | *Hylyphantes graminicola* [58] | Nepal | Nepal, Europe, Russia, China |
| 5.   | Lycosa Gravely, 1924 | *Lycosa kemp* [27] | Dolakha/ Bagmati Province | Nepal, Pakistan, India, China |
| 6.   | Pardosa C.L. Koch, 1847 | *Pardosa biafisica* [27] | Solukhumbu/ Province 1 | Nepal, Europe, Turkey, Russia, China |
|      |        | *previously published as Pardosa thateri* |                             |              |
|      |        | Pardosa birmanica [27] | Solukhumbu/ Province 1 | Nepal, Myanmar |
|      |        | Pardosa fletcheri [29] | Myagdi/ Gandaki P. | Nepal, Pakistan, India |
|      |        | Pardosa martensi [29] | Solukhumbu/ Province 1 | Nepal, Pakistan, India |
|      |        | Pardosa mongolica [28] | Solukhumbu/ Province 1 | Nepal, Russia, Mongolia, China |
|      |        | Pardosa orealis [28] | Solukhumbu/ Province 1 | Endemic |

(continued on next page)
Table 2 (continued)

| S.N | Genera                | Species with Bibliography | Location (District/Province) | Distribution                          |
|-----|-----------------------|---------------------------|-----------------------------|---------------------------------------|
|     | *Pardosa pseudoannulata* [58] | Nepal                     | Nepal, Pakistan, China, India, Bhutan, Japan, Indonesia |
|     | *Synonym: Lycosa pseudoannulata* |                         |                             |                                       |
|     | *Pardosa pasiola* [2] | Nepal                     | Nepal, Bhutan, India        |                                       |
|     | *Pardosa sumatrana* [27] | Solukhumbu/ Province 1    | Nepal, Bhutan, India        |                                       |
|     | *Pardosa sutherlandi* [29] | Parbat/ Gandaki P.        | Nepal, Bhutan, India        |                                       |
|     | *Pardosa tridentis* [27] | Solukhumbu/ Province 1    | Nepal, India, Kashmir       |                                       |
| 7   | *Trogossa*            | C.L. Koch, 1847           |                             |                                       |
|     | *Trogossa graveyi* [27] | Kavre/ Bagmati Province   | Endemic                     |                                       |
|     |                       |                           |                             |                                       |
| XIV. FAMILY MYSMENIDAE Petrunkevitch, 1928 |               |                             |                                       |
| 1.  | *Jardinis*            | Simion, 1899              |                             |                                       |
|     | *Jardinis martensi*   | [7]           | Dolakha/ Bagmati P.        | Endemic                              |
| XV. FAMILY NESTICIDAE Simon, 1894 |                   |                             |                                       |
| 1.  | *Necticella*          | Lehtinen & Saaristo, 1980 |                             |                                       |
|     | *Necticella nepalensis* [85] | Dolakha/ Bagmati P.        | Nepal, China, India          |                                       |
| XVI. FAMILY OONOPIIDAE Simon, 1890 |           |                             |                                       |
| 1.  | *Brignolia*           | Dumitrescu and Georgescu, 1983 |                             |                                       |
|     | *Brignolia ankhu*     | [60]          | Dhangad/ Bagmati P.        | Endemic                              |
|     | *Brignolia assam*     | [60]          | Nowakot/ Bagmati P.        | Nepal and India                       |
|     | *Brignolia suaku*     | [60]          | Ilam/ Province 1            | Nepal and India                       |
| 2.  | *Camptoscaphiella*    | Caporiacco, 1934         |                             |                                       |
|     | *Camptoscaphiella gunsa* [86] | Toplejung/ Province 1     | Nepal and India              |                                       |
|     | *Camptoscaphiella martensi* [86] | Mustang/ Gandaki P.       | Endemic                     |                                       |
|     | *Camptoscaphiella nepalensis* [86] | Parbat/ Gandaki P.        | Endemic                     |                                       |
|     | *Camptoscaphiella panthar* [86] | Panthar/ Province 1       | Endemic                     |                                       |
|     | *Camptoscaphiella silens* [86] | Solukhumbu/ Province 1    | Endemic                     |                                       |
|     | *Camptoscaphiella strepens* [86] | Nepal/ Gandaki P.         | Endemic                     |                                       |
|     | *Camptoscaphiella taplejung* [86] | Toplejung/ Province 1     | Endemic                     |                                       |
| 3.  | *Himalayana*          | Grismado, 2014           |                             |                                       |
|     | *Himalayana castanopsis* [61] | Ilam/ Province 1          | Endemic                     |                                       |
|     | *Himalayana kathmandu* [61] | Kathmandu/ Bagmati P.     | Endemic                     |                                       |
|     | *Himalayana martensi* [61] | Manang/ Gandaki P.        | Endemic                     |                                       |
|     | *Himalayana parbat*   [61] | Parbat/ Gandaki P.        | Endemic                     |                                       |
| 4.  | *Prethopalpus*        | Baehr et al., 2012       |                             |                                       |
|     | *Prethopalpus ilam*   | [87]          | Ilam/ Province 1            | Endemic                              |
| 5.  | *Trilacuna*           | Tong & Li, 2007          |                             |                                       |
|     | *Trilacuna bangla*    | [61]          | Sindhpatalchowk/ Bagmati Province | Nepal and India                     |
| XVII. FAMILY OXYOPIDAE Thorell, 1869 |                 |                             |                                       |
| 1.  | *Oxyopes*             | Latreille, 1804          |                             |                                       |
|     | *Oxyopes javanus*     | [58]          | Nepal                     | Nepal, China, India                  |
|     | *Oxyopes lineatus*    | [58]          | Nepal                     | Nepal, Europe, Turkey, Russia         |
|     | *Oxyopes serriatus*   | [58]          | Nepal                     | Nepal, China, Korea, Japan            |
| XVIII. FAMILY PHOLCIDAE C.L. Koch, 1850 |              |                             |                                       |
| 1.  | *Pholcus*             | Walckenaer, 1805         |                             |                                       |
|     | *Pholcus calligaster* | [88]          | Parsa/ Madhes Province     | Nepal and Myanmar                     |
|     | *Pholcus shah*        | [88]          | Sankhuwasabba/Province1    | Nepal and Myanmar                     |
| XIX. FAMILY PIMOIDAE Wunderlich, 1986 |                 |                             |                                       |
| 1.  | *Pinouz*              | Chamberlin & Ivie, 1943   |                             |                                       |
|     | *Pimoa daman*         | [67]          | Makwanpur/ Bagmati P.      | Endemic                              |
|     | *Pimoa khatpat*       | [67]          | Bajhang/ Sudurpashim P.    | Endemic                              |
|     | *Pimoa koshi*         | [67]          | Sankhuwasabha/Province1    | Endemic                              |
|     | *Pimoa mechi*         | [67]          | Toplejung/ Province 1      | Endemic                              |
|     | *Pimoa mude*          | [67]          | Sindhpatalchowk/Bagmati    | Endemic                              |
|     | *Pimoa nematoides*    | [68]          | Dolakha/ Bagmati P.        | Endemic                              |
|     | *Pimoa phupli*        | [67]          | Solukhumbu/ Province 1     | Endemic                              |
|     | *Pimoa rara*          | [67]          | Mugu/ Karnali Province     | Endemic                              |
|     | *Pimoa sinuosa*       | [68]          | Kaski/ Gandaki Province    | Endemic                              |
| XX. FAMILY PISARUIDAE Simon, 1890 |                |                             |                                       |
| 1.  | *Perenethis*          | L. Koch, 1878            |                             |                                       |
|     | *Perenethis sindica*  | [89]          | Toplejung/ Province 1      | India, Sri Lanka, Nepal, China        |
| XXI. FAMILY PSECHRIDAE Simon, 1890 |                |                             |                                       |
| 1.  | *Pscehrus*            | Thorell, 1878            |                             |                                       |
|     | *Pscehrus himalayanus* [90] | Rolpa/ Lumhini Province    | India, Nepal                |                                       |
|     | *Pscehrus marsyandi*  | [45]          | Lamjung/ Gandaki P.        | Endemic                              |
| 2.  | *Fecenia*             | Simon, 1887              |                             |                                       |
|     | *Fecenia provensa*    | [58]          | Nepal                     | Nepal, Thailand, Vietnam, Brunei, Malaysia, India |
|     | *Synonym: Fecenia nicobarenis* [58] |                  |                             |                                       |

*Fecenia nicobarenis was transferred from genus Pscehrus (Thorell, 1878)*

(continued on next page)
### Table 2 (continued)

| S.N | Genera               | Species with Bibliography | Location (District/Province) | Distribution                          |
|-----|----------------------|---------------------------|-----------------------------|---------------------------------------|
| XXII. FAMILY PSILOCERCIDAE | Machado, 1951          |                           |                             |                                       |
| 1.  | Leclercera           | Leclercera ekteenensis     | Panchthar/ Province 1        | Endemic                               |
|     | Deeleman-Reinhold, 1995 | Leclercera machadoi      | Baglung/ Gandaki P.         | Endemic                               |
|     |                      | Leclercera mulcata        | Kathmandu/ Bagmati P.       | Endemic                               |
|     |                      | *transferred from genus Psilocercidae was raised to family by Wunderlich (2008) |
|     |                      | Leclercera nagarjanensis  |                             | Endemic                               |
|     |                      | Leclercera niuqu          | Panchthar/ Province 1        | Endemic                               |
|     |                      | Leclercera sidai          | Ilam/ Province 1            | Endemic                               |
|     |                      | Leclercera shaori         |                             | Endemic                               |
| XXIII. FAMILY SALTICIDAE | Blackwall, 1841         |                           |                             |                                       |
| 1.  | Asemonea             | Asemonea tenuipes         | Chitwan/ Bagmati Province.  | Nepal, Sri Lanka, India, Myanmar, Nepal, Iran, China, India, Việt Nam, Singapore |
|     | O Pickard-Cambridge, 1869 | Asemonea tortus      | Ilam/ Province 1            | Nepal and India                        |
| 2.  | Bianor               | Bianor albobimaculatus    | Manang/ Gandaki P.          | Nepal, Iran, Pakistan India            |
|     | Peckham and Peckham, 1886 | Bianor tortus        | Ilam/ Province 1            | Nepal and India                        |
| 3.  | Brettus              | Brettus anchorum         | Gorkha/ Gandaki Province    | Nepal and India                        |
|     | Thorell, 1895        |                           |                             |                                       |
| 4.  | Carrhotus            | Carrhotus asam           | Kaski/ Gandaki Province     | Nepal and India                        |
|     | Thorell, 1891        | Carrhotus cataphagus     | Gorkha/ Gandaki Province    | Endemic                               |
|     |                      | Carrhotus erus           | Kaski/ Gandaki P.           | Nepal and India                        |
|     |                      | Carrhotus operosus       | Mustang/ Gandaki P.         | Endemic                               |
|     |                      | Carrhotus s-bulbosus     | Sankhhuwasabha/Province1    | Nepal, China, India                    |
|     |                      | Carrhotus sannio         | Myagdi/ Gandaki             | Nepal, China, India                    |
|     |                      | Carrhotus vidas          |                             | Nepal, China, India, Iran             |
| 5.  | Chalcscirtus         | Chalcscirtus jiricus      | Dolakha/ Bagmati Province.  | Endemic                               |
|     | Bertkau, 1880        | *transferred from genus Euophrys |
|     |                      | Chalcscirtus martensi    | Mustang/ Gandaki P.         | Nepal, India and China                 |
| 6.  | Chinattus            | Chinattus chichila        | Sankhhuwasabha/Province1    | Nepal, Bhutan, China                   |
|     | Logunov, 1999        | Chinattus validus        | Myagdi/ Gandaki P.          | Nepal, Bhutan, China                   |
| 7.  | Chrysilla            | Chrysilla volupe         | Chitwan/ Bagmati Province.  | Nepal, Bhutan, India, Sri Lanka       |
|     | Thorell, 1887        |                           |                             |                                       |
| 8.  | Epeus                | Epeus exdomus            | Kathmandu/ Bagmati P.       | Endemic                               |
|     | Peckham and Peckham, 1886 | Epeus indicus        | Nuwakot/ Bagmati P.         | Nepal and India                        |
| 9.  | Epocilla             | Epocilla aurantia        | Chitwan/ Bagmati Province.  | Nepal, Sri Lanka, Malaysia, Vietnam, India |
|     | Thorell, 1887        |                           |                             |                                       |
| 10. | Euophrys             | Euophrys dhaulagirica    | Mustang/ Gandaki P.         | Endemic                               |
|     | C L. Koch, 1834      | Euophrys nepalica        | Myagdi/ Gandaki P.          | Nepal and China                        |
|     |                      | Euophrys omnissorsperae | Sankhhuwasabha/Province1    | Nepal and India                        |
|     |                      | Euophrys yulungensis     | Dolpa/ Karnali Province     | China and Nepal                        |
| 11. | Habrocestoides       | Habrocestoides phalchokienis | Lalitpur/ Bagmati Province. | Endemic                               |
|     | Prószynski, 1992     |                           |                             |                                       |
| 12. | Harmochirus          | Harmochirus saukai       | Kathmandu/ Bagmati P.       | India, Nepal, Vietnam                  |
|     | Simon, 1885          |                           |                             |                                       |
| 13. | Hyllus               | Hyllus semicupreus       | Chitwan/ Bagmati Province.  | Nepal, Sri Lanka, India                |
|     | C.L. Koch, 1846      |                           |                             |                                       |
| 14. | Icias                | Icias alboterminus       |                             | Nepal and India                        |
|     | Simen, 1876          |                           |                             |                                       |
| 15. | Nepalicus            | Nepalicus nepalicus      | Kathmandu/ Bagmati Province | Nepal and India                        |
|     | Blackwall, 1841      | *Transferred from genus Pseudicus |
| 16. | Orientattus          | Orientattus minutes      | Gorkha/ Gandaki Province    | Nepal                                  |
|     | Caleb, 2020          | *O.minutes was transferred from genus Pancorius |
| 17. | Pancorius            | Pancorius armatus        | Parbat/ Gandaki Province    | Endemic                               |
|     | Simon, 1902          | Pancorius cadus          | Talejung/ Province 1        | Endemic                               |
|     |                      | Pancorius kaskie         | Kaski/ Gandaki Province     | Endemic                               |
|     |                      | Pancorius magnus         | Ilam/ Province 1            | Nepal, China, India                    |
|     |                      | Pancorius urnus          | Ilam/ Province 1            | Nepal, China, India                    |
| 18. | Phaeacius            | Phaeacius fimbiatus      | Sankhhuwasabha/Province1    | Nepal, Indonesia, Java                 |
|     | Simon, 1900          | Phaeacius saxicola       | Talejung/ Province 1        | Endemic                               |
|     |                      | Phaeacius wanlessi       | Sankhhuwasabha/Province1    | Nepal, Sri Lanka                        |
| 19. | Phintella            | Phintella suavis         | Nepal                        | Nepal to Malaysia                      |
|     | Strand, 1906         | Phintella vittata        | Chitwan/ Bagmati P.         | Nepal, China, India                    |
| 20. | Plexippoides         | Plexippoides tristis     | Mustang/ Gandaki P.         | Endemic                               |
|     | Prószynski, 1984     |                           |                             |                                       |

*Psilocercidae, a sub family of Ochyroceratidae was raised to family by Wunderlich (2008)*

(continued on next page)
| S.N | Genera          | Species with Bibliography | Location (District/Province) | Distribution                        |
|-----|----------------|---------------------------|-----------------------------|-------------------------------------|
| 21. | Plexippus      | Plexippus paykulli [23]   | Myagdi/ Gandaki P.          | Asia, Africa, America, Europe        |
|     |                | Plexippus petersi [23]    | Kaski/ Gandaki Province     | Asia, Africa and Pacific islands     |
|     |                | Plexippus pokharai [23]   |                             | Endemic                             |
| 22. | Portia         | Portia fimбриata [36]     | Kathmandu/ Bagmati P.       | Nepal, Sri Lanka, Taiwan to Australia|
| 23. | Poccaisus      | Poccaisus nepalicus [20]  | Mustang/ Gandaki Province   | Nepal and China                      |
|     |                | Synonym: Yaginumaella nepalica |                         |                                     |
|     |                | Poccaisus tensingi [20]   | Solukhumbu/ Province 1      | Endemic                             |
|     |                | Synonym: Yaginumaella tensingi |                                 |                                     |
|     |                | Poccaisus thakholica [20] | Mustang/ Gandaki Province   | Nepal and China                      |
| 24. | Rhene          | Rhene flavicomans [33]    | Sankhuwasabha/Province 1    | Nepal, Bhutan, India, Thailand       |
|     |                | Rhene phuntsholingensis [33] |                         | Nepal, Bhutan                        |
| 25. | Siler          | Siler cupreas [56]        | Chitwan/ Bagmati P.         | Nepal, China, Taiwan, Korea, Japan   |
| 26. | Simicos        | Sitticus niveassignatus [21]| Dolpa/ Karnali Province    | Nepal to China                       |
| 27. | Stenaeurillus  | Stenaeurillus trigattatus [100] | Narayangadh/ Bagmati P.   | Nepal and China                      |
| 28. | Synagelides    | Synagelides bagmaticus [101]| Bhaktapur/ Bagmati P.      | Endemic                             |
| 29. | Telamonia      | Telamonia dimidiiata [66]| Chitwan/ Bagmati P.        | Nepal, Bhutan, Malaysia              |
|     |                | Telamonia festiva [66]    | Chitwan/ Bagmati P.        | Nepal, China, India                  |
| 30. | Thyene         | Thyene bivittata [38]     | Kathmandu/ Bagmati P.       | Nepal, China, Pakistan               |
|     |                | Thyene typica [38]        | Sankhuwasabha /Province 1  | Endemic                             |
|     |                | Thyene yuziensis [38]     | Tanahu/ Gandaki P.         | Nepal and China                      |

XXIV. FAMILY SCYTODIDAE Blackwall, 1864

1. Scytodes Latreille, 1804
   Scytodes mawphlongensis [10] Lalitpur/ Bagmati Province Nepal and India

XXV. FAMILY SELENOPIDAE Simon, 1897

1. Makiops Crews and Harvey,2011
   Makiops montigena [102] Chitwan/ Bagmati Province Nepal and India

XXVI. FAMILY SPARASSIDAE Bertkau, 1872

1. Bhutanella Jäger, 2000
   Bhutanella hillyardi [41] Sankhuwasabha/Province 1 Endemic
   Bhutanella rollardae [41] Pyuthan/ Lumhini P. Endemic

2. Olias Walskenaer,1837
   Olias rossetti [44] Kavre/ Bagmati Province Nepal, India, Pakistan

3. Pseudopoda Jäger, 2000
   Pseudopoda albolineata [82] Myagdi/ Gandaki P. Endemic
   Pseudopoda alva [43] Kaski/ Gandaki Province Endemic
   Pseudopoda ausobskyi [43] Ilam/ Province 1 Endemic
   Pseudopoda braunii [43] Taplejung/ Province 1 Endemic
   Pseudopoda chaukii [43] Terathum/ Province 1 Endemic
   Pseudopoda chulingensis [43] Gorkha/ Gandaki Province Endemic
   Pseudopoda cuneata [43] Myagdi/ Gandaki P. Endemic
   Pseudopoda dama [43] Jhapa/ Province 1 Endemic
   Pseudopoda damana [43] Makwanpur/ Bagmati P. Endemic
   Pseudopoda dhulensis [43] Baglung/ Gandaki P. Endemic
   Pseudopoda diversipunctata [43] Kaski/ Gandaki Province Endemic
   Pseudopoda everesta [43] Solukhumbu/ Province 1 Endemic
   Pseudopoda grasshoffi [43] Sankhuwasabha /Province 1 Endemic

(continued on next page)
| S.N | Genera | Species with Bibliography | Location (District/Province) | Distribution |
|-----|--------|---------------------------|-----------------------------|--------------|
| 1   | *Pseudopoda* heteropodoides [43] | | Taplejung/ Province 1 | Endemic |
| 2   | *Pseudopoda* huberti [43] | | Pyuthan/ Lumbini P. | Endemic |
| 3   | *Pseudopoda* hyatti [43] | | Myagdi/ Gandaki P. | Endemic |
| 4   | *Pseudopoda* jirensis [43] | | Dolakha/ Bagmati P. | Endemic |
| 5   | *Pseudopoda* kalinchok [43] | | Dolakha/ Bagmati P. | Endemic |
| 6   | *Pseudopoda* khamtensis [43] | | Ramechhap/ Bagmati P. | Endemic |
| 7   | *Pseudopoda* latembola [43] | | Manang/ Gandaki P. | Endemic |
| 8   | *Pseudopoda* maromara [43] | | Kaski/ Gandaki Province | Endemic |
| 9   | *Pseudopoda* martensi [43] | | Mustang/ Gandaki P. | Endemic |
| 10  | *Pseudopoda* martinae [43] | | Rasuwa/ Bagmati P. | Endemic |
| 11  | *Pseudopoda* monticol [43] | | Lalitpur/ Bagmati P. | Endemic |
| 12  | *Pseudopoda* schawalleri [43] | | Panchthar/ Province 1 | Endemic |
| 13  | *Pseudopoda* sinopodoides [43] | | Kathmandu/ Bagmati P. | Endemic |
| 14  | *Pseudopoda* sinica [43] | | Tehrathum/ Province 1 | Endemic |
| 15  | *Pseudopoda* triapicata [43] | | Ilam/ Province 1 | Endemic |
| 16  | *Pseudopoda* triapicata [43] | | Rasuwa/ Bagmati P. | Endemic |
| 17  | *Pseudopoda* varia [43] | | Taplejung/ Province 1 | Endemic |

**XXVII. FAMILY SYMPHYTOGNATHIDAE** Hickman, 1931

| S.N | Genera | Species with Bibliography | Location (District/Province) | Distribution |
|-----|--------|---------------------------|-----------------------------|--------------|
| 1   | *Iardinis* | *Iardinis martensi* [7] | Dolakha/ Bagmati Province | Endemic |

**XXVIII. FAMILY TETRABLEMMIDAE** O.P.-Cambridge, 1873

1. *Brignoliella* Shear, 1978

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Brignoliella*  | *Brignoliella martensi* [8] | Lalitpur/ Bagmati Province | Endemic |

2. *Tetrablemma* O.P.-Cambridge, 1873

   | Genera        | Species with Bibliography | Location (District/Province) | Distribution |
   |---------------|---------------------------|-----------------------------|--------------|
   | *Tetrablemma* | *Tetrablemma phulchoki* [14] | | Endemic |

**XXIX. FAMILY TETRAGONIDAE** Menge, 1866

1. *Leucauge* White, 1841

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Leucauge*      | *Leucauge decorata* [58] | Nepal | Nepal, Japan, Thailand, Bangladesh, China, India |

2. *Tetragnatha* Latreille, 1804

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Tetragnatha*   | *Tetragnatha bogotensis* [103] | Nepal | Nepal, Spain, Mexico to Paraguay |

   | Synonym: *Tetragnatha hoyi* |

**XXX. FAMILY THERAPHOSIDAE** Thorell, 1870

1. *Haplocosmia* Schmidt & von Wirth, 1996

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Haplocosmia*   | *Haplocosmia nepalensis* [104] | Kaski/ Gandaki Province | Endemic |

**XXXI. FAMILY THERIDIIDAE** Sundevall, 1833

1. *Carniella* Thaler & Steinberger

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Carniella*     | *Carniella nepalensis* [105] | Taplejung/ Province 1 | Endemic |

2. *Lactrodectus* Walckenaer, 1805

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Lactrodectus*  | *Lactrodectus elegans* [65] | Gorkha/ Gandaki Province | Nepal, China, Japan, India, Myanmar |

**XXXII. FAMILY THOMISIDAE** Sundevall, 1833

1. *Bassaniodes* Pocock, 1903

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Bassaniodes*   | *Bassaniodes dolpenensis* [15] | Dolpa/ Karnali province | Nepal and China |

   | *transferred from genus Xysticus* |

2. *Lysites* Simon, 1895

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Lysites*       | *Lysites annapurnus* [18] | Kaski/ Gandaki Province | Endemic |

   | *Lysites himalayensis* [18] | Myagdi/ Gandaki Province | Bhutan, Nepal |

   | *Lysites lepusculus* [18] | Mustang/ Gandaki P. | Endemic |

   | *Lysites maus* [18] | Baitadi/ Gandaki P. | Russia, Nepal to Japan |

   | *Lysites montivagus* [18] | Mustang/ Gandaki P. | Endemic |

   | *Lysites niger* [18] | Makwanpur/ Bagmati P. | Bhutan, Nepal |

   | *Lysites parvulus* [18] | Myagdi/ Gandaki Province | Endemic |

   | *Lysites saltus* [18] | Bhutan, Nepal, China |

3. *Monaesia* Thorell, 1869

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Monaesia*      | *Monaesia aciculus* [16] | Taplejung/ Province 1 | Nepal to Japan, Philippines |

**XXXIII. FAMILY THEMISTIDAE** Sundevall, 1833

4. *Psammitis* Menge, 1876

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Psammitis*     | *Psammitis nepalimalaicus* [15] | Dolakha/ Bagmati Province | Endemic |

   | *transferred from genus Xysticus* |

5. *Runcinia* Simon, 1875

   | Genera          | Species with Bibliography | Location (District/Province) | Distribution |
   |-----------------|---------------------------|-----------------------------|--------------|
   | *Runcinia*      | *Runcinia roonwali* [58] | Nepal | Nepal and India |

   | *Runcinia insecta* [58] | | Nepal | Asia, Africa, Australia |

   | *previously published as Thomius cherapunjeus* |}

(continued on next page)
| S.N | Genera | Species with Bibliography | Location (District/Province) | Distribution  |
|-----|--------|---------------------------|-----------------------------|--------------|
| 7.  | Xysticus C.L. Koch, 1835 | **Xysticus alpininus** [15] | Dolakha/ Bagmati P. | Nepal, China |
|     |        | **Xysticus cristatus** [15] | Mustang/ Gandaki P. | Nepal, Kazakhstan, Iran |
|     |        | **Xysticus croceus** [2] | India, Nepal, Bhutan, China |
|     |        | **Xysticus elephantus** [15] | Dolpa/ Karnali Province | Nepal, China |
|     |        | **Xysticus martensi** [15] | Endemic |
|     |        | **Xysticus roomwali** [106] | Solukhumbu/ Province 1 | Nepal, India |
|     |        | **Xysticus cf sikkimus** [15] | Mustang/ Gandaki P. | Nepal, China, India |

XXXIII. FAMILY TITANOECIDAE Lehtinen, 1967

1. **Anuvinda** Lehtinen, 1967
   - **Anuvinda milloti** [107] *transferred from genus Amaurobius* | Chitwan/ Bagmati P. | Endemic |

XXXIV. FAMILY ZODARIIDAE Thorell, 1881

1. **Mallinella** Strand, 1906
   - **Mallinella erratica** [19] *transferred from genus Storena* | Ilam/ Province 1 | Endemic |
   - **Mallinella martensi** [19] *transferred from genus Storena* | Mustang/ Gandaki Province | Endemic |
   - **Mallinella nepalensis** [19] *transferred from genus Storena* | Rasuwa/ Bagmati Province | Endemic |
   - **Mallinella uncinata** [19] *transferred from genus Storena* | Kaski/ Gandaki Province | Endemic |

2. **Suffasia** Jocquè, 1991
   - **Suffasia kanchenjunga** [31] | Ilam/ Province 1 | Endemic |
   - **Suffasia martensi** [31] | Ilam/ Province 1 | Endemic |
   - **Suffasia tunegaster** [108] | Lalitpur/ Bagmati P. | Endemic |

3. **Tropisodion** Jocque & Churchill, 2005
   - **Tropisodion bengalensis** [58] *transferred from genus Laticia* | Nepal | Nepal and India |

**Figure 2.** (A) Total species per family of Nepalese spiders. (B) Percentage of each family in Nepal’s endemic species.
This checklist contains taxonomic upgrades as well as corrections to past misidentifications. To avoid recurrence, synonymous species are sorted. Seven Tetrablemmidae species (Tetrablemma elongata, Tetrablemma laboriosa, Tetrablemma mandibulata, Tetrablemma maxillosa, Tetrablemma phulchoki, Tetrablemma straminea, Tetrablemma virescens, Theridiosoma sp) and two Synagelides species (Synagelides wangi and Synagelides wuermii) enlisted earlier [30, 58] are omitted in this checklist due to lack of published references or collected specimens. Similarly, some enlistments from earlier lists are excluded due to unidentified specific trait. The checklist has also taken into account previous misidentifications, synonyms, and taxonomic transfers of several spider species.

5. Discussion

With 386 species of spiders, Nepal has about five times more species-to-area ratio (0.00262) than its neighbouring countries; China (0.000546) and India (0.000512) having 5249 and 1686 spider species each [73, 74]. It accounts for 16.79% of spiders of South Asia (2299 species) and 0.77% of total spiders in the world [2, 30]. The family Linyphiidae dominates the spider inventory of Nepal, although Salticids lead the Chinese and Indian catalogues. With 63% of total spiders enlisted, maximum expeditions have been focused on Mountain ecological region of Nepal. In Nepalese spiders, there are conspicuous Himalayan radiations. Deeply separated valleys and a plethora of mountain
ranges preventing ground-dwelling arthropods from spreading quickly from one valley chain to the next, has resulted in the evolution of several species [47]. The diversity of coelotine spiders in Nepal astounded the authors; Wang and Martens [47]. Local species of genera Draconarius, Pseudopoda, and Bhutaniella have particularly striking traits [43, 47]. The existence of Euophrys omnisuperstes amid snow and stony debris at a height of 6700 m above sea level is intriguing.

The study of Nepal’s endemic Himalayan spider species has got a good attention, but the lush lower vegetation has been overlooked. Vast swaths of biologically significant land have remained mostly unexplored. Out of 77 districts of Nepal, 39 have not been explored a bit for spider diversity. Since 1910, there have been only 94 publications on Nepalese spiders. There is a weak positive Karl Pearson’s coefficient of correlation ($r = 0.228$) between years and new spiders discovered in Nepal. A simple keyword search (allintitle: spider “Country name”) yields about 40 times less results on google scholar for Nepal than those for China and India. These clearly indicate a significant research gap. Scholars from around the world appear to be curious but Nepalese have played a modest role in spider studies. Also, a 100% research focus has been on baseline surveys. With growing global interests on spider webs, ecology and venom, other thematic areas should be covered as well. Nepal thus seems a promising land for spider diversity. Further explorations might significantly boost global spider inventory. The authors thus invite

---

**Figure 5.** Nepalese spider species by federal provinces.

**Figure 6.** Trend of spider discoveries in Nepal.
and encourage researchers from all around the world to investigate Nepalese spiders.

**Declarations**

**Author contribution statement**

All authors have significantly contributed to the development and the writing of this article.

**Funding statement**

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

**Data availability statement**

Data included in article/supplementary material/referenced in article.

**Declaration of interests statement**

The authors declare no conflict of interest.

**Additional information**

No additional information is available for this paper.

**Acknowledgements**

We are grateful to Mr. Ukeb Raj Bhuju; the Dean (School of Development Studies and Applied Sciences, Lumini Buddha University, Nepal) for his remarkable assistance in retrieving the computer database of the spider fauna of Nepal.

**References**

[1] R.P. Foelix, Biology of Spiders, third ed., Oxford University Press, New York, 2011.
[2] NMBe - World Spider Catalog, (n.d. (accessed 17th June, 2022), https://wsc.nmbe.ch/.
[3] A. Coddington, W. Levi, Systematics and evolution of spiders, Annu. Rev. Ecol. Systemat. 22 (1991) 565–592.
[4] Bruno H. Lamoral, On the ecology and habitat adaptations of two intertidal spiders, Desis formidabilis (OP Cambridge) and Amaurobioides africanus, Desis (Araneae: Linyphiidae), Acta Arachnol. 56 (2007) 25–35.
[5] F.R. Wanless, Spiders of the family Salticidae from the upper slopes of everest and makalu, Bull. Br. Arachnol. Soc. 3 (1975) 132–136.
[6] A. Jocqué, R. Alderweireldt, M. Dippenaar-Schoeman, Biodiversity, an African Perspective, Sire Science Press, 2013.
[7] P.M. Brignoli, Spinnen aus Nepal, IV. Drei neue Symphytognathidae (Arachnida: Araneae), Senckenb. Biol. 59 (1978) 247–252.
[8] P.M. Brignoli, Spinnen aus Nepal, I. Pucacula martens, n. sp. (1972) 95–100.
[9] P.M. Brignoli, Spinnen aus Nepal, II. Zur Morphologie der Gattung Alpheus THORELL, nebst Beschreibung zweier neuer Arten (Arachnida: Araneae: Ochroceratidae), Senckenb. Biol. 54 (1973) 157–164.
[10] P.M. Brignoli, Beitrag zur Kenntnis der Sycotoidae (Aranee), Rev. Suisse Zool. 83 (1976) 125–191.
[11] J. Wunderlich, Linyphiidae aus Nepal, IV. Bisher unbekannte und für Nepal neue Arten (Arachnida: Araneae), Senckenb. Biol. 60 (1973) 149–443.
[12] J. Wunderlich, Linyphiidae aus Nepal, II. Die Gattung Oedothorax Bertkau 1883 (Aranee), Senckenb. Biol. 55 (1974) 169–186.
[13] H. Ono, Verwandschaft von Tetrabroma phalbuski 162 (1982) 349–353.
[14] H. Ono, Thomisidae aus dem Nepal-Himalaya. I. Das Genus Lysius bertkau 1883 (Arachnida: Araneae), Senckenb. Biol. 60 (1979) 91–108.
[15] H. Ono, Thomisidae aus dem Nepal-Himalaya, III. Das Genus Stilophorus gertscheki 1873, mit Revision der asiatischen Arten (Arachnida: Araneae), Senckenb. Biol. 61 (1980) 57–76.
[16] H. Ono, Thomisidae aus dem Nepal-Himalaya, III. Das Genus Stilophorus gertscheki 1873, mit Revision der asiatischen Arten (Arachnida: Araneae), Senckenb. Biol. 61 (1980) 57–76.
