

1-1-2011

## Contribution to the knowledge of the Pompilidae (Hymenoptera, Aculeata) fauna of Turkey with the checklist of species

EROL YILDIRIM

RAYMOND WAHIS

Follow this and additional works at: <https://journals.tubitak.gov.tr/zoology>



Part of the [Zooology Commons](#)

---

### Recommended Citation

YILDIRIM, EROL and WAHIS, RAYMOND (2011) "Contribution to the knowledge of the Pompilidae (Hymenoptera, Aculeata) fauna of Turkey with the checklist of species," *Turkish Journal of Zoology*. Vol. 35: No. 5, Article 6. <https://doi.org/10.3906/zoo-1003-120>  
Available at: <https://journals.tubitak.gov.tr/zoology/vol35/iss5/6>

This Article is brought to you for free and open access by TÜBİTAK Academic Journals. It has been accepted for inclusion in Turkish Journal of Zoology by an authorized editor of TÜBİTAK Academic Journals. For more information, please contact [academic.publications@tubitak.gov.tr](mailto:academic.publications@tubitak.gov.tr).

# Contribution to the knowledge of the Pompilidae (Hymenoptera, Aculeata) fauna of Turkey with the checklist of species

Erol YILDIRIM<sup>1\*</sup>, Raymond WAHIS<sup>2</sup>

<sup>1</sup>Atatürk University, Faculty of Agriculture, Department of Plant Protection, 25240, Erzurum - TURKEY

<sup>2</sup>Gembloux Agri-Bio Tech, Université de Liege, Entomologie fonctionnelle et évolutive, Passage des Déportés 2, B.  
5030 Gembloux - BELGIUM

Received: 10.03.2010

**Abstract:** This study is based upon material of family Pompilidae collected from different localities in Turkey between 2000 and 2009; the other related studies on the Pompilidae in Turkey were reviewed. *Dicyrtomellus kizilkumii* (Radoszkowski, 1877) is a new record for Turkish fauna. The authors present also an updated checklist of the Pompilidae fauna of Turkey. Including the new taxon determined in this study a total of 200 species and 5 subspecies from 35 genera of the family Pompilidae were recorded from Turkey to date. Among them, the type localities of 23 species and 1 subspecies from Pompilidae are situated in Turkey. Separately, 19 species are considered endemic. In addition, new localities were found for some species and subspecies that have already been reported in Turkey.

**Key words:** Hymenoptera, Pompilidae, fauna, checklist, Turkey

## Türkiye'nin Pompilidae (Hymenoptera, Aculeata) faunasına katkılar ve tür listesi

**Özet:** Bu çalışmada, Türkiye'nin değişik yörelerinden 2000-2009 yıllarında toplanan Pompilidae örnekleri ile bu konuda bugüne kadar Türkiye'de yapılan çalışmalar değerlendirilmiştir. Saptanan türlerden, *Dicyrtomellus kizilkumii* (Radoszkowski, 1877) Türkiye faunası için yeni kayıttır. Türkiye'nin Pompilidae faunasına ait tür listesi hazırlanmıştır. Bu çalışmada tespit edilen Türkiye faunası için yeni kayıt olan türle birlikte 35 cinse bağlı 200 tür ve 5 alttürün Türkiye'de bulunduğu tespit edilmiştir. Bunlardan 23 tür ve 1 alttürün tip lokalitelerinin Türkiye olduğu belirlenmiştir. Yine, 19 türün endemik olduğu görülmüştür. Ayrıca, daha önce Türkiye'de bulunduğu belirtilen bazı tür ve alttürler için yeni lokaliteler tespit edilmiştir.

**Anahtar sözcükler:** Hymenoptera, Pompilidae, fauna, tür listesi, Türkiye

\* E-mail: eyildi@atauni.edu.tr

## Introduction

Pompilidae (spider wasps) is a cosmopolitan but predominantly tropical family containing about 4200 species in 3 subfamilies: Ceropalinae, Pepsinae, and Pompilinae. All species are solitary. Usually each larva develops on a single paralyzed spider (Araneae), very rarely another order of Arachnida, in a cell constructed and provisioned by the female, although a preexisting cavity may sometimes be used; the larva is rarely an ectoparasitoid of an active spider or a cleptoparasite in a cell provisioned by another pompilid (Goulet and Huber, 1993).

Turkey is one of the most interesting countries located in the West Palaearctic region, where most of the insect families including Pompilidae are known to survive. Thus, some faunistic studies about the family Pompilidae have been conducted by some foreign and native researchers in Turkey. However, there has been no attempt to prepare a checklist for Turkish Pompilidae fauna. It is essential to have such a checklist of Pompilidae from Turkey for the researchers who are interested in working with Pompilidae in the West Palaearctic region, including Turkey.

Faunal studies on the pompilid wasps of Turkey have been conducted by Moczar (1978, 1986a, 1986b, 1987, 1988, 1989, 1991), Priesner (1955, 1966, 1967, 1973), Wolf (1960, 1966a, 1966b, 1970, 1986, 1987, 1990, 1999), Madl (1997), Özbek et al. (1999, 2000), Zonstein (2000), Smitsen (2003), Anlaş et al. (2005), Kırpık (2005, 2009), Kırpık and Tüzün (2005), Yıldırım (2008), and Wahis (1986, 1997, 1998, 2002, 2006, 2009), who recorded and described several new species and subspecies from Turkey. As a result, a total of 199 species and 5 subspecies from 35 genera belonging to 3 subfamilies, i.e. Ceropalinae, Pepsinae, and Pompilinae, from Pompilidae were recorded from Turkey. Among them, the type localities of 23 species and 1 subspecies in Pompilidae are situated in Turkey. Separately, 19 species are considered endemic.

In our study, the present situation of Pompilidae species and subspecies in Turkey was evaluated. As a result, a total of 200 species and 5 subspecies belonging to 35 genera from the family Pompilidae have been recorded from Turkey to date. The authors present also an updated checklist of the Pompilidae fauna of Turkey.

## Materials and methods

The material of the Pompilidae was collected from different localities in Turkey in 2000-2009. Provinces where the specimens were collected are given in alphabetical order in the list below. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET), and Faculté universitaire des Sciences agronomiques, Entomologie fonctionnelle et évolutive, Gembloux, Belgium (rec. R. Wahis; FSAGx). The type localities in Turkey of species and subspecies are marked with an asterisk in front of the name in checklist.

## Results

A total of 200 species and 5 subspecies belonging to 35 genera from the family Pompilidae have been recorded from Turkey to date.

### Subfamily Ceropalinae

#### *Ceropales cribrata* Costa, 1881

Material examined: **Erzurum**: Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, ♀.

#### *Ceropales maculata* (Fabricius, 1775)

Material examined: **Erzurum**: Olur, 1600 m, 20.VII.2007, ♂, Tortum, Çataldere, 1800 m, 12.VII.2001, ♀; **Rize**: Ovit, 2300 m, 29.VII.2000, ♂.

#### *Ceropales ruficornis* Gussakovskij, 1931

Material examined: **Mersin**: Aydıncık, 27.VII.2005, ♀.

### Subfamily Pepsinae

#### *Caliadurgus fasciatellus* (Spinola, 1808)

Material examined: **Erzurum**: Oltu, Çamlıbel, 1700 m, 19.VI.2003, ♀.

#### *Cryptocheilus alternatus* (Lepelletier, 1845)

Material examined: **Konya**: Güneysınır, Gurağaç, 1020 m, 3.IX.2000, ♂.

#### *Cryptocheilus discolor* (Fabricius, 1793)

Material examined: **Erzurum**: Karayazı, Söylemez, 1750 m, 26.VI.2005, ♀; **Kars**: 1475 m, 2.VI.2000, ♀.

#### *Cryptocheilus exiguus* Suster, 1924

Material examined: **Balıkesir**: 9.IX.2004, ♀.

#### *Cryptocheilus fabricii* (Vander Linden, 1827)

Material examined: **Erzurum:** Güzelyayla, 2000 m, 19.VIII.2009, ♀, Konaklı, 2400 m, 22.VII.2000, ♀, 2 ♂♂, İlica, 1900 m, 4.VIII.2009, ♀, Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, ♀; **Iğdır:** Tuzluca, 870 m, 16.VI.2009, ♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

***Cryptocheilus freygessneri*** (Kohl, 1883)

Material examined: **Erzurum:** Horasan, Yukarı Horom, 2000 m, 13.VIII.2000, ♀.

***Cryptocheilus notatus*** (Rossius, 1792)

Material examined: **Erzurum:** Oltu, Vocational Training School fields, 1345 m, 28.VI.2006, ♀.

***Cryptocheilus variabilis*** (Rossius, 1790)

Material examined: **Bayburt:** Kopdağı, 2400 m, 21.VIII.2008, ♀; **Erzurum:** Konaklı, 2400 m, 22.VII.2000, ♀, İspir, Çapans, 2150 m, 20.VIII.2009, ♀, Oltu, Sarısaz, 1400 m, 20.VIII.2007, 3 ♀♀, 4 ♂♂; **Iğdır:** Tuzluca, 870 m, 16.VI.2009, ♀.

***Priocnemis exaltata*** (Fabricius, 1775)

Material examined: **Erzurum:** Tortum, Uzunkonak, 1350 m, 12.VII.2001, ♂.

***Priocnemis fahringeri*** Wolf, 1963

Material examined: **Bitlis:** Güroymak, Nemrut Mountain, 38°32'11.1"N-42°09.33.6"E, 1748 m, 30.V.2001, 5 ♀♀, **Mersin:** Tarsus, 2 km SW Gülek, N.37°13'43.5"-E.34°44'56.4", 1132 m, 21.V.2001, ♀.

***Priocnemis sulci*** Balthasar, 1943

Material examined: **Bingöl:** Ilıcalar, İçpınar, Derik Mezrası, Paşa Çeşmesi, 1100 m, 28.V.2006, ♀; **Bitlis:** Güroymak, Nemrut Mountain, 38°32'11.1"N-42°09.33.6"E, 1748 m, 30.V.2001, 5 ♀♀; **Mersin:** Tarsus, 2 km SW Gülek, N.37°13'43.5"-E.34°44'56.4", 1132 m, 21.V.2001, ♀.

***Priocnemis vulgaris*** (Dufour, 1841)

Material examined: **Bayburt:** Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂; **Bingöl:** Ilıcalar, İçpınar, Derik Mezrası, Paşa Çeşmesi, 1100 m, 28.V.2006, ♀; **Bitlis:** Güroymak, Nemrut Mountain, 38°32'11.1"N-42°09.33.6"E, 1748 m, 30.V.2001, 6 ♀♀.

***Auplopus albifrons*** (Dalman, 1823)

Material examined: **Adana:** Ceyhan, Narlık, N.36°54'52.1"-E.35°50'46.5", 56 m, 25.V.2001,

♂; **Erzurum:** Arıbahçe, 2400 m, 20.VII.2001, ♀, GÜNGÖRMEZ, 2000 m, 19.VIII.2009, ♀, Narman, Kireçli, 2000 m, 2.VII.2000, ♂, Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, ♀; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

***Auplopus carbonarius*** (Scopoli, 1763)

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 23.VI.2005, ♀.

***Auplopus rectus rectus*** (Haupt, 1927)

Material examined: **Adana:** Ceyhan, Botaş, 13.VII.2007, ♂; **Erzurum:** Arıbahçe, 2400 m, 20.VII.2001, ♀, Çiftlik, 1850 m, 15.VII.2009, ♂, Karayazı, Söylemez, 1750 m, 12.VII.2001, ♀, Oltu, Vocational Training School fields, 1345 m, 15.VIII.2008, ♀, Sarısaz, 1400 m, 20.VIII.2007, 2 ♀♀, Tortum, Çataldere, 1800 m, 12.VII.2001, ♂; **Konya:** Cumra, Dinlendik, 1015 m, 18.VIII.2005, 2 ♀♀.

**Subfamily Pompilinae**

***Agenioideus ciliatus*** (Lepeleiter, 1845)

Material examined: **Erzurum:** Oltu, Vocational Training School fields, 1345 m, 15.VIII.2008, ♂, Sarısaz, 1400, 25.VII.2007, ♀.

***Agenioideus excisus*** (Morawitz, 1890)

Material examined: **Erzurum:** Oltu, Vocational Training School fields, 1345 m, 15.VIII.2008, ♀, Sarısaz, 1400, 25.VII.2007, ♂; **Kahramanmaraş:** Tömek, 1450 m, 19.VIII.2001, ♂.

***Agenioideus nubecula*** (Costa, 1874)

Material examined: **Konya:** Güneysınır, Gurağaç, 1020 m, 3.IX.2000, ♂.

***Agenioideus ruficeps*** (Eversmann, 1886)

Material examined: **Erzurum:** Karayazı, Söylemez, 1750 m, 26.VI.2005, ♀, Oltu, Vocational Training School fields, 1345 m, 15.VIII.2005, ♂; **Iğdır:** Tuzluca, 870 m, 16.VI.2009, ♀.

***Agenioideus rytiphorus*** (Kohl, 1886)

Material examined: **Kahramanmaraş:** Tömek, 1450 m, 19.VIII.2001, ♀.

***Agenioideus sericeus*** (Vander Linden, 1827)

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

***Amblyellus hasdrubal*** (Kohl, 1884)

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 23.VI.2005, ♀; **Konya:** Güneysınır, Gurağaç, 1020 m, 8.VII.2000, ♀.

***Anoplius concinnus*** (Dahlbom, 1843)

Material examined: **Şanlıurfa:** Birecik, N.36°58'04.4-E.37°59'59.1, 28.V.2001, ♀.

***Anoplius infuscatus*** (Vander Linden, 1827)

Material examined: **Adana:** Narlık, N.36°54'22.3"-E.35°56'26.2", 150 m, 25.V.2001, ♂; **Erzurum:** Konaklı, 2400 m, 22.VII.2000, 3 ♀♀, İspir, Çapans, 2150 m, 20.VIII.2009, ♀ Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, ♀, Sarısaz, 1400 m, 20.VIII.2007, 3 ♀♀, 3 ♂♂, Olur, 1600 m, 20.VII.2007, ♂; **Konya:** Bozkır, Belören, 1017 m, 22.VII.2000, ♀; **Şanlıurfa:** Birecik, 349 m, 28.V.2001, ♀, ♂, N.36°58'04.4-E.37°59'59.1, 28.V.2001, ♂.

***Anoplius nigerrimus*** (Scopoli, 1763)

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, 2 ♀♀.

***Anoplius samariensis*** (Pallas, 1771)

Material examined: **Erzurum:** Konaklı, 2400 m, 22.VII.2000, ♀, 2 ♂♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 23.VI.2005, ♂.

***Anoplius schlettereri*** (Radoszkowski, 1888)

Material examined: **Erzincan:** Refahiye, 1500 m, 20.VI.2009, 2 ♂♂; **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, 2 ♂♂, Konaklı, 2400 m, 22.VII.2000, 7 ♂♂, İspir, Çapans, 2150 m, 20.VIII.2009, ♂.

***Anoplius viaticus*** (Linnaeus, 1758)

Material examined: **Bayburt:** Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♀; **Erzincan:** Refahiye, 1500 m, 20.VI.2009, 2 ♂♂; **Erzurum:** Konaklı, 2400 m, 22.VII.2000, ♀, İspir, Çapans, 2150 m, 20.VIII.2009, ♂, Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, ♀, Sarısaz, 1400 m, 20.VIII.2007, 2 ♀♀, Şenkaya, Akşar, 1350 m, 2.VIII.2008, ♀; **İğdir:** 850 m, 18.VI.2009, ♀, Tuzluca, 870 m, 16.VI.2009, 2 ♀♀; **İstanbul:** Küçükçekmece, Halkalı Ziraat Okulu, 10.VIII.2009, 2 ♂♂; **Muğla:** Köyceğiz, Hamitköy, 39°28'38.5"N-33°54'08.5"E, 1074 m, 7.VI.2001, 4 ♂♂.

***Aporinellus moestus*** (Klug, 1834)

Material examined: **Erzurum:** Oltu, Sarısaz, 1400 m, 20.VIII.2007, ♀; **Muğla:** Köyceğiz, Hamitköy, 39°28'38.5"N-33°54'08.5"E, 1074 m, 7.VI.2001, 2 ♂♂.

***Aporinellus sexmaculatus*** (Spinola, 1805)

Material examined: **Aksaray:** Ortaköy, Tuzgözü, N.38°35'12"-E.33°46'23", 21.V.2001, 3 ♂♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

***Arachnospila clericalis*** (Morawitz, 1889)

Material examined: **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, ♀.

***Arachnospila colpostoma*** (Kohl, 1886)

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀.

***Arachnospila consobrina*** (Dahlbom, 1843)

Material examined: **Aksaray:** N.40°40'13.5"-E.42°22'45.7", 1300 m, 2.VI.2001, ♀.

***Arachnospila esau*** (Kohl, 1886)

Material examined: **Adıyaman:** Nemrut, 1650 m, 2.VII.2008, ♀.

***Arachnospila fumipennis*** (Zetterstedt, 1938)

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 9.VIII.2000, ♀.

***Arachnospila fuscomarginata*** (Thomson, 1870)

Material examined: **Erzurum:** Konaklı, 2400 m, 22.VII.2000, ♀, Oltu, Vocational Training School fields, 1345 m, 15.VIII.2008, ♂, Tortum, Çataldere, 1800 m, 12.VII.2001, 2 ♂♂.

***Arachnospila hedickei*** (Haupt, 1929)

Material examined: **Erzurum:** Yeşildere, 2000 m, 19.VIII.2009, ♂.

***Arachnospila gibbomima*** (Haupt, 1929)

Material examined: **Erzurum:** Pazaryolu, 1400 m, 15.VII.2000, ♀.

***Arachnospila ionica*** Wolf, 1964

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 23.VI.2005, ♀.

***Arachnospila minutula*** (Dahlbom, 1843)

Material examined: **Erzincan:** Refahiye, 1500 m, 20.VI.2009, ♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♂.

***Arachnospila rufa*** (Haupt, 1927)

Material examined: **Erzurum:** Konaklı, 2400 m, 22.VII.2000, 3 ♀♀.

***Batozonellus lacerticida*** (Pallas, 1771)

Material examined: **Muğla:** Köyceğiz, Hamitköy, 39°28'38.5"N-33°54'08.5"E, 1074 m, 7.VI.2001, ♂.

***Dicyrtomellus kizilkumii*** (Radoszkowski, 1877)

Material examined: **Iğdır:** Tuzluca, N.40°02'09.6"-E. 43°49'31.6", 992 m, 1.VII.2001, 21 ♂♂.

**New for the Turkish fauna.*****Dicyrtomellus tingitanus*** (Wolf, 1966)

Material examined: **Aksaray:** 8.VIII.2008, ♀; **Erzurum:** Tortum, Çataldere, 1800 m, 12.VII.2001, ♂; **Iğdır:** Tuzluca, N.40°02'09.6"-E. 43°49'31.6", 992 m, 1.VII.2001, ♀.

***Eoferreola anatolica*** Priesner, 1972

Material examined: **Erzincan:** Refahiye, 1500 m, 20.VI.2009, 2 ♀♀; **Erzurum:** Pazaryolu, 1400 m, 15.VII.2000, ♂.

***Eoferreola manticata*** (Pallas, 1771)

Material examined: **Adana:** Ceyhan, Botaş, 13.VII.2007, ♀; **Erzurum:** Olur, 1600 m, 20.VII.2007, ♀, Pazaryolu, 1400 m, 15.VII.2000, ♀.

***Episyron albonotatum*** (Vander Linden, 1827)

Material examined: **Bayburt:** Kopdağı, Şehitler Çeşmesi, 2400 m, 21.VIII.2008, ♂; **Erzurum:** Arıbahçe, 2400 m, 20.VII.2001, ♂, Konaklı, 2400 m, 22.VII.2000, ♀, Güzelyayla, 2000 m, 19.VIII.2009, ♂, Oltu, Vocational Training School fields, 1345 m, 15.VIII.2008, ♀; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♂.

***Episyron candiotum*** Wahis, 1966

Material examined: **Adana:** Karataş, N.36°35'28.1"-E.35°25'29.1", 24.V.2001, ♀; **Aksaray:** Ortaköy, Tuzgölü, N.38°35'12"-E.33°46'23",

21.V.2001, ♂; **Erzurum:** Oltu, Vocational Training School fields, 1345 m, 25.V.2006, ♀, Sarısaz, 1400 m, 25.V.2007, 2 ♂♂; **Konya:** Çumra, 13.VIII.2000, ♀.

***Episyron gallicum*** (Tournier, 1889)

Material examined: **Erzincan:** Refahiye, 1500 m, 20.VI.2009, 3 ♂♂; **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, 3 ♂♂, İspir, Çapans, 2150 m, 20.VIII.2009, 2 ♀♀, ♂, Karayazı, Söylemez, 1750 m, 12.VII.2001, 2 ♂♂, Köprüköy, Yağan, 1600 m, 28.VI.2005, ♀, Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, 2 ♂♂, Olur, 1600 m, 20.VII.2009, ♀, Şenkaya, Akşar, 1350 m, 2.VIII.2008, 2 ♂♂; **Kars:** Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♂.

***Episyron rufipes*** (Linnaeus, 1758)

Material examined: **Erzurum:** Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, 2 ♂♂.

***Evaetes anatolicus*** van der Smitten, 2003

Material examined: **Erzurum:** Oltu, Vocational Training School fields, 1345 m, 15.VIII.2008, 2 ♂♂; **Kars:** Digor, Bostankale, 1770 m, 17.VII.2005, ♀.

***Evaetes dubius*** (Vander Linden, 1827)

Material examined: **Erzurum:** Güngörmez, 2000 m, 19.VIII.2009, ♀, Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, ♀.

***Evaetes elongatus*** (Lepeletier, 1845)

Material examined: **Erzurum:** Tortum, Çataldere, 1800 m, 12.VII.2001, ♂.

***Evaetes iconionus*** Wolf, 1970

Material examined: **Kars:** Sarıkamış, Karakurt, 1500 m, 23.VI.2005, ♂.

***Evaetes proximus*** (Dahlbom, 1845)

Material examined: **Erzurum:** Arıbahçe, 2400 m, 20.VII.2001, ♀, Konaklı, 2400 m, 22.VII.2000, ♂.

***Evaetes siculus*** (Lepeletier, 1945)

Material examined: **Erzurum:** Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, ♀.

***Microphadnus insperatus*** Priesner, 1967

Material examined: **Balıkesir:** 9.IX.2004, ♀.

*Microphadnus pumilus* (Costa, 1882)

Material examined: **Aksaray**: Ortaköy, Tuzgözü, N.38°35'12"-E.33°46'23", 21.V.2001, ♂.

*Pedinpompilus wolffi* (Priesner, 1965)

Material examined: **Balıkesir**: 9.IX.2004, ♀; **Kahramanmaraş**: Tömek, 1450 m, 19.VIII.2001, ♂.

*Pompilus cinereus* (Fabricius, 1775)

Material examined: **Artvin**: Borçka, N.41°19'44"-E.41°42'24", 145 m, 4.VI.2001, ♀.

*Tachyagetes aegyptiacus* (Priesner, 1955)

Material examined: **Aksaray**: Ortaköy, Tuzgözü, N.38°35'12"-E.33°46'23", 21.V.2001, ♀.

*Tachyagetes filicornis* (Tournier, 1889)

Material examined: **Erzurum**: Oltu, Vocational Training School fields, 1345 m, 15.VIII.2008, ♀; **Şanlıurfa**: Birecik, 349 m, 28.V.2001, ♀.

*Tachyagetes furvescens* Wahis, 1970

Material examined: **Erzurum**: Oltu, Vocational Training School fields, 1345 m, 28.VI.2006, ♀.

*Tachyagetes leucocnemis* Haupt, 1930

Material examined: **Erzincan**: Refahiye, 1500 m, 20.VI.2009, ♀.

*Telostegus inermis* (Brullé, 1832)

Material examined: **Aksaray**: N.40°40'13.5"-E.42°22'45.7", 1300 m, 2.VI.2001, ♀; **Ankara**: Tuzgözü, N.38°47'59.1"-E.33°37'09.2", 21.V.2001, 3 ♀♀, 3 ♂♂; **Erzurum**: Oltu, Vocational Training School fields, 1345 m, 24.VII.2008, 2 ♀♀; **Kars**: Sarıkamış, Karakurt, 1500 m, 13.VIII.2009, ♀; **Konya**: Güneysınır, Gurağaç, 1020 m, 8.VIII.2000, ♀; **Malatya**: Kale, 1150, 23.VII.2005, ♀.

**Checklist of Pompilidae (Hymenoptera) present in Turkey.**

(35 genera, 200 species, and 5 subspecies)

SUBFAMILY **Ceropalinae**

Genus **CEROPALES** Latreille, 1796 (9 spp. and 3 subsp.).

*Ceropales albicincta* (Rossius, 1790)

*Ceropales albicincta seraxensis* Radoszkowski, 1893

\**Ceropales albicincta wolffi* Moczar, 1978

*Ceropales bipartita* Haupt, 1962

*Ceropales bipartita flava* Moczar, 1987

*Ceropales cribrata* Costa, 1881

*Ceropales helvetica* Tournier, 1889

*Ceropales maculata* (Fabricius, 1775)

*Ceropales maroccana* De Beaumont, 1947

*Ceropales ruficornis* Gussakovskij, 1931 (= *gilva* Haupt, 1962)

\**Ceropales tectigera* Moczar, 1987

*Ceropales variegata* (Fabricius, 1798)

Subfamily **PEPSINAE**

Tribe **PEPSINI**

Genus **CALIADURGUS** Pate, 1946 (1 sp.)

*Caliadurgus fasciatellus* (Spinola, 1808)

Genus **CRYPTOCHEILUS** Panzer, 1806 (30 spp. and 1 subsp.)

*Cryptocheilus albosignatus* Suster, 1924

*Cryptocheilus alternatus* (Lepeletier, 1845) (= *annulatus* Richards, 1935)

*Cryptocheilus alternatus caspius* Gussakovskij, 1952

*Cryptocheilus bequaerti* Suster, 1924

*Cryptocheilus discolor* (Fabricius, 1793)

*Cryptocheilus egregius* (Lepeletier, 1845)

f. *dahlbomii* (Sichel, 1860)

*Cryptocheilus elegans* (Spinola, 1806)

*Cryptocheilus exiguus* Suster, 1924

*Cryptocheilus fabricii* (Vander Linden, 1827)

f. *meridionalis* Junco, 1943

*Cryptocheilus fischeri* (Spinola, 1855) (= *confinis* Haupt, 1927, *fallax* Priesner, 1965)

*Cryptocheilus freygessneri* (Kohl, 1883)

f. *differens* Priesner, 1967

*Cryptocheilus gazella* Haupt, 1962

*Cryptocheilus guttulatus* (Costa, 1887)

- Cryptocheilus hebraeus* Susterer, 1924  
*Cryptocheilus ichneumonoides* (Costa, 1874)  
*Cryptocheilus infumatus* (Palma, 1869)  
*Cryptocheilus nigroferrugineus* (Susterer, 1924)  
*Cryptocheilus notatus* (Rossius, 1792)  
    f. *affinis* (Vander Linden, 1827)  
    f. *melanius* (Lepeletier, 1845)  
*Cryptocheilus octomaculatus* (Rossius, 1790)  
\**Cryptocheilus propodeonitens* Wolf, 1999  
*Cryptocheilus pseudonotatus* Susterer, 1913  
*Cryptocheilus richardsi* Moczar, 1953  
*Cryptocheilus rubellus* (Eversmann, 1846)  
\**Cryptocheilus rufatus* Priesner, 1967  
\**Cryptocheilus setiger* Wolf, 1999  
*Cryptocheilus sustererai* Haupt, 1962  
\**Cryptocheilus stygium* Priesner, 1967  
*Cryptocheilus tredecimmaculatus* Haupt, 1962  
*Cryptocheilus variabilis* (Rossius, 1790)  
    f. *nigripes* auct. nec Costa, 1887  
*Cryptocheilus variipennis* Susterer, 1924  
*Cryptocheilus versicolor* (Scopoli, 1763)
- Genus **CYPHONONYX** Dahlbom, 1845 (1 sp.)  
*Cyphononyx bretoni* (Guérin, 1843)
- Genus **DIPOGON** Fox, 1897 (2 spp.)  
\**Dipogon sinan* Wolf, 1999  
*Dipogon variegatus* (Linné, 1758)  
    f. *erythropus* (Kohl, 1888)
- Genus **HEMIPEPSIS** Dahlbom, 1844 (2 spp.)  
*Hemipepsis brunnea* (Klug, 1834)  
*Hemipepsis mauritanica* (Linné, 1767) (= *barbara* Lepeletier, 1845)
- Genus **PRIOCNEMIS** Schioedte, 1837 (24 spp.)  
*Priocnemis agilis* (Shuckard, 1837)  
*Priocnemis confusor* Wahis, 2006 (= *gracilis* Haupt, 1927 nec Gussakovskij)  
*Priocnemis coriacea* Dahlbom, 1843  
*Priocnemis costai* Costa, 1887  
*Priocnemis diversa* Junco, 1946  
*Priocnemis exaltata* (Fabricius, 1775)  
*Priocnemis fahringeri* Wolf, 1963  
*Priocnemis fallax* Verhoeff, 1922  
*Priocnemis fastigiata* Haupt, 1934  
*Priocnemis fennica* Haupt, 1927  
*Priocnemis hankoi* Moczar, 1944  
*Priocnemis hyalinata* Fabricius, 1793  
*Priocnemis massaliensis* Soyer, 1945 (= *costata* Wolf, 1963)  
*Priocnemis minuta* (Vander Linden, 1827)  
    f. *italica* Haupt, 1934 (= *nigritula* Wolf, 1962)  
*Priocnemis parvula* Dahlbom, 1845  
*Priocnemis perturbator* (Harris, 1776)  
    f. *galatica* Wolf, 1963  
*Priocnemis pillichii* Priesner, 1960  
    f. *maura* Wolf & Diniz, 1970  
*Priocnemis propinqua* (Lepeletier, 1847)  
*Priocnemis pusilla* (Schioedte, 1837)  
*Priocnemis rufozonata* Costa, 1887  
*Priocnemis rugosa* Susterer, 1922  
*Priocnemis schioedtei* Haupt, 1927  
*Priocnemis sulci* Balthasar, 1943  
    f. *cirrata* Haupt, 1962  
*Priocnemis vulgaris* (Dufour, 1841)
- Tribe **AGENIELLINI**  
Genus **AUPLOPUS** Spinola, 1841 (3 spp.)  
*Auplopus albifrons* (Dalman, 1823)  
    f. *obscurus* Priesner, 1967  
*Auplopus carbonarius* (Scopoli, 1763)  
*Auplopus rectus* (Haupt, 1927)  
    f. *ater* (Haupt, 1930)



Genus **POECILAGENIA** Haupt, 1927 (= *Podagenia* Priesner, 1973 syn. nov.) (2 spp.)

*Poecilagenia sculpturata* (Kohl, 1898)

*Poecilagenia crassipes* Priesner, 1973

Subfamily **POMPILINAE**

Genus **AGENIOIDEUS** Ashmead, 1902 (12 spp.)

*Agenioideus apicalis* (Vander Linden, 1827)

f. *haematopus* (Lepeletier, 1845)

*Agenioideus ciliatus* (Lepeletier, 1845)

f. *acrobates* (Ferton, 1911) (= *ciliatus thoracicus* Priesner, 1967)

*Agenioideus cinctellus* (Spinola, 1808)

*Agenioideus excisus* (Morawitz, 1890)

*Agenioideus nubecula* (Costa, 1874)

f. *nubecula tristis* Priesner, 1965

*Agenioideus oasis* (Haupt, 1962)

*Agenioideus rhodosoma* (Kohl, 1886)

*Agenioideus ruficeps* (Eversmann, 1886) (= *dichrous* Brullé, sensu auct. nec Brullé, 1840)

*Agenioideus rytiphorus* (Kohl, 1886)

*Agenioideus sericeus* (Vander Linden, 1827)

*Agenioideus usurarius* (Tournier, 1889)

*Agenioideus vesanus* (Kohl, 1870)

Genus **AMBLYELLUS** Day, 1981 (1 sp.)

*Amblyellus hasdrubal* (Kohl, 1884)

Genus **ANOPLIUS** Dufour, 1834 (8 spp.)

*Anoplius caviventris* (Aurivillius, 1907)

*Anoplius concinnus* (Dahlbom, 1843)

*Anoplius infuscatus* (Vander Linden, 1827) (= *meticulosus* (Costa, 1882), *aeruginosus* (Tournier, 1890))

*Anoplius nigerrimus* (Scopoli, 1763)

*Anoplius piliventris* (Morawitz, 1889)

*Anoplius samariensis* (Pallas, 1771)

*Anoplius schlettereri* (Radoszkowski, 1888)

f. *niger* Priesner, 1967

*Anoplius viaticus* (Linné, 1758)

f. *nigripennis* (Tournier, 1890)

f. *paganus* (Dahlbom, 1843)

Genus **ANOSPILUS** Haupt, 1929 (1 sp.)

*Anospilus orbitalis* (Costa, 1863)

Genus **APORINELLUS** Banks, 1911 (2 spp.)

*Aporinellus moestus* (Klug, 1834)

f. *sericeomaculatus* (Kohl, 1888)

*Aporinellus sexmaculatus* (Spinola, 1805)

f. *asiaticus* (Gussakovskij, 1935)

Genus **APORUS** Spinola, 1808 (2 spp.)

*Aporus bicolor* Spinola 1808

*Aporus pollux* (Kohl, 1888)

Genus **ARACHNOSPILA** Kincaid, 1900 (23 spp.)

*Arachnospila anceps* (Wesmael, 1851)

f. *peninsulana* (Wolf, 1966)

\**Arachnospila angorana* (Wolf, 1990)

*Arachnospila ausa* (Tournier, 1890)

*Arachnospila clericalis* (Morawitz, 1889)

*Arachnospila colpostoma* (Kohl, 1886)

*Arachnospila conjungens* (Kohl, 1898)

*Arachnospila consobrina* (Wolf, 1966)

f. *continentalis* Wolf, 1966

*Arachnospila esau* (Kohl, 1886)

f. *rufocincta* (Haupt, 1933)

f. *vaucheri* Tournier, 1890

*Arachnospila fumipennis* (Zetterstedt, 1838)

*Arachnospila fuscomarginata* (Thomson, 1870)

*Arachnospila gibbomima* (Haupt, 1929)

*Arachnospila hedickei* (Haupt, 1929) (=

*pseudabnormis* (Wolf, 1965)

*Arachnospila holomelas* (Costa, 1882)

f. *dissona* Wahis, 1974

f. *gymnesiae* (Dalla Torre, 1897)

*Arachnospila ionica* (Wolf, 1964)

*Arachnospila minutula* (Dahlbom, 1842)

f. *apenninusurata* Wolf, 1970

\**Arachnospila osmana* (Wolf, 1999)

*Arachnospila pamira* (Haupt, 1930)

*Arachnospila rufa* (Haupt, 1927)

*Arachnospila silvana* (Kohl, 1886)

*Arachnospila sogdianoides* (Wolf, 1964) (= *sogdiana* auct. nec Morawitz, 1893)

f. *anatolica* Wolf, 1966

*Arachnospila spissa* (Schioedte, 1837)

*Arachnospila trivialis* (Dahlbom, 1843)

f. *insubrica* (Wolf, 1965)

*Arachnospila valesabnormis* (Wolf, 1965)

f. *anatolica* Wolf, 1966

Genus **ARACHNOTHEUTES** Haupt, 1927 (5 spp.)

*Arachnotheutes leucurus* (Morawitz, 1891) (= *europaeus* (Priesner, 1965))

*Arachnotheutes minor* (Priesner, 1955)

*Arachnotheutes rufithorax* (Costa, 1887)

*Arachnotheutes signatipennis* (Klug, 1834)

*Arachnotheutes squalidus* (Haupt, 1962)

Genus **BATOZONELLUS** Arnold, 1937 (1 sp.)

*Batozonellus lacerticida* (Pallas, 1771)

Genus **CTENAGENIA** Saussure, 1892 (2 spp.)

\**Ctenagenia ozbeki* Wahis 2002

*Ctenagenia vespiformis* (Klug, 1834)

Genus **DICYRTOMELLUS** Gussakovskij, 1935 (4 spp.)

*Dicyrtomellus dubitabilis* (Saunders, 1901)

*Dicyrtomellus kizilkumii* (Radoszkowski, 1877)

*Dicyrtomellus tingitanus* (Wolf, 1966)

f. *argenteus* Wahis, 1982

*Dicyrtomellus tomentosus* (Priesner, 1955)

Genus **ENTOMOBORA** Gistel, 1857 (3 spp.)

*Entomobora crassitarsis* (Costa, 1887)

*Entomobora fuscipennis* (Vander Linden, 1827)

*Entomobora vomeriventrifera* (Costa, 1861)

Genus **EOPFERREOLA** Arnold, 1935 (7 spp.)

\**Eoferreola anatolica* Priesner, 1973

*Eoferreola anomala* Haupt, 1955

*Eoferreola erythraea* (Pallas, 1773)

*Eoferreola manticata* (Pallas, 1771)

f. *lichtensteini* (Tournier, 1967)

*Eoferreola rhombica* (Christ, 1791)

*Eoferreola syraensis* (Radoszkowski, 1888)

*Eoferreola thoracica* (Rossius, 1794)

Genus **EPISYRON** Schioedte, 1832 (7 spp.)

*Episyron albonotatum* (Vander Linden, 1827)

*Episyron arrogans* (Smith, 1783)

*Episyron candiotum* Wahis, 1966

*Episyron coccineipes* (Saunders, 1904)

*Episyron funerarium* (Tournier, 1889)

*Episyron gallicum* (Tournier, 1889)

f. *intermedium* Haupt, 1930

*Episyron rufipes* (Linné, 1758)

Genus **EVAGETES** Lepeletier, 1845 (12 spp. and 1 subsp.)

\**Evagetes anatolicus* Smitsen, 2003

*Evagetes crassicornis* (Shuckard, 1837)

*Evagetes dubius* (Vander Linden, 1827)

- Evagetes elongatus* (Lepeletier, 1845)  
f. *infernalis* Wolf, 1970  
*Evagetes gibbulus* (Lepeletier, 1845)  
\**Evagetes gusenleitneri* Wolf, 1988  
\**Evagetes iconionus* Wolf, 1970  
*Evagetes pectinipes* (Linné, 1758)  
*Evagetes pectinipes trispinosus* (Kohl, 1886)  
*Evagetes pontomoravicus* (Sustera, 1838)  
*Evagetes proximus* (Dahlbom, 1845)  
*Evagetes siculus* (Lepeletier, 1845)  
*Evagetes tumidosus* (Tournier, 1890)
- Genus *FERREOLA* Lepeletier, 1845 (2 spp.)  
*Ferreola diffinis* (Lepeletier, 1845)  
*Ferreola sagax* (Kohl, 1886)
- Genus *HOMONOTUS* Dahlbom, 1843 (1 sp.)  
*Homonotus sanguinolentus* (Fabricius, 1793) (= *balcanicus* Haupt, 1927)
- Genus *MICROPHADNUS* Cameron, 1904 (2 spp.)  
*Microphadnus insperatus* Priesner, 1967  
*Microphadnus pumilus* (Costa, 1882)
- Genus *NANOCLAVELIA* Priesner, 1955 (1 sp.)  
*Nanoclavelia leucoptera* (Dahlbom, 1845)
- Genus *PEDINPOMPILUS* Wolf, 1961 (5 spp.) (= *Arctoclavelia* Haupt, 1962)  
\**Pedinpompilus atatuerki* (Wolf, 1970)  
*Pedinpompilus obscurus* (Haupt, 1962)  
*Pedinpompilus orbitalis* (Haupt, 1962) (= *soikai* Wolf, 1966)  
\**Pedinpompilus paulinus* (Wolf, 1970)  
*Pedinpompilus wolffi* (Priesner, 1965)
- Genus *POMPILUS* FABRICIUS, 1798 (1 sp.)  
*Pompilus cinereus* (Fabricius, 1775)
- Genus *PSEUDOPOMPILUS* Costa, 1887 (1 sp.)  
*Pseudopompilus humboldti* (Dahlbom, 1845)
- Genus *SCHISTONYX* Saussure, 1890 (2 spp.)  
\**Schistonyx modestus* Priesner, 1967  
*Schistonyx perezi* (Tournier, 1895) (= *Ferreola dimidiata* Fabricius, 1793, in Vander Linden, 1827)
- Genus *TACHYAGETES* Haupt, 1930 (16 spp.)  
*Tachyagetes aegyptiacus* (Priesner, 1955)  
*Tachyagetes alicantus* Wolf, 1987  
*Tachyagetes bytinskii* Haupt, 1962  
\**Tachyagetes exortivus* Wolf, 1987  
*Tachyagetes filicornis* (Tournier, 1890)  
f. *funebri* Priesner, 1965  
f. *graecus* Priesner, 1965  
f. *rubescens* (Haupt, 1929)  
*Tachyagetes furvescens* Wahis, 1970  
*Tachyagetes gratiosus* (Radoszkowski, 1893) (= *T. kasakstanus* Wolf, 1987)  
\**Tachyagetes gusenleitneri* (Priesner, 1973)  
*Tachyagetes gussakovskiji* Wolf, 1988  
*Tachyagetes kebdanus* Wolf, 1987  
\**Tachyagetes konyanus* Wolf, 1987  
*Tachyagetes kUSDasi* Priesner, 1965  
*Tachyagetes leucocnemis* Haupt, 1930  
*Tachyagetes navalperalus* Wolf, 1987  
\**Tachyagetes nomadaschwarzi* Wolf, 1987  
\**Tachyagetes turcoturanicus* Wolf, 1986
- Genus *TELOSTEGUS* Costa, 1887 (= *Elaphrosyron* Haupt, 1929) (4 spp.)  
*Telostegus excisus* (Haupt, 1930)  
*Telostegus fumigatus* (Klug, 1834)  
*Telostegus heinrichi* Haupt, 1930  
*Telostegus inermis* (Brullé, 1832)  
f. *ater* Haupt, 1930
- Genus *XENAPORUS* Ashmead, 1902 (1 sp.)  
\**Xenaporus schmidti* Priesner, 1967

**Remarks:** Many taxa previously considered like subspecies (trinomial name) by certain authors are in fact based on color variations of the body or legs (rufinism or melanism) correlated with climatic factors like temperature conditions (dry or humid) during larval development and consequently only

considered like variable forms (status nov.) without nomenclatural importance. For a similar situation, refer to Harris (1987, New Zealand species), Smissen (2003, European *Evagetes*), and Vardy (2000, 2002, 2005, the New World genus *Pepsis*).

## References

- Anlaş, S. Wahis, R. and Tezcan, S. 2005. Some additional notes on Pompilidae (Hymenoptera) fauna of Turkey. *Türkiye Entomoloji Dergisi* 29: 255-258.
- Goulet, H. and Huber, J.T. 1993. Hymenoptera of the world: An identification guide to families. Research Branch Agriculture Canada Publication 1894/E, 668 pp, Ottawa.
- Harris, A.C. 1987. Pompilidae (Insecta Hymenoptera). Fauna of New Zealand, Number 12: 154 pp.
- Kırpık, M.A. 2005. Ankara Kırıkkale, Çankırı İlleri Pepsinae ve Ceropalinae (Insecta: Hymenoptera: Pompilidae) Türleri Üzerine Faunistik Araştırmalar. Çankaya Üniversitesi Fen-Edebiyat Fakültesi, Journal of Arts and Sciences 4: 71-78.
- Kırpık, M.A. 2009. Faunistic study on Pompilidae (Insecta: Hymenoptera) family in Ankara, Kırıkkale, and Cankiri provinces. *African Journal of Biotechnology* 8: 316-318.
- Kırpık, M.A. and Tüzün, A. 2005. Ankara, Kırıkkale, Çankırı İlleri Pompilinae (Insecta:Hymenoptera: Pompilidae) türleri üzerine faunistik bir araştırma. Gazi Üniversitesi Gazi Eğitim Fakültesi Dergisi 25: 307-324.
- Madl, M. 1997. Über Vespidae, Pompilidae, Scoliidae und Tiphiidae der Türkei (Hymenoptera). *Linzer biologische Beiträge* 29: 823-827.
- Moczar, L. 1978. New species and some remarks on the genus *Ceropales* Latreille (Hymenoptera: Ceropalidae). *Acta Biologica Szeged* 24:115-137.
- Moczar, L. 1986a. Revision of the genus *Hemiceropales* Priesner, 1969 (Hymenoptera: Ceropalidae). *Acta Zoologica Hungarica* 32: 317-342.
- Moczar, L. 1986b. Revision of the *fulvipes*-, *fulvicornis* and *variegata* groups of the genus *Ceropales* Latreille (Hym.: Ceropalidae). *Acta Biologica Szeged* 32:121-136.
- Moczar, L. 1987. Revision of the *maculata* and *albicincta* groups of the genus *Ceropales* Latreille (Hymenoptera: Ceropalidae). *Acta Zoologica Hungarica* 33: 121-156.
- Moczar, L. 1988. Revision on the subgenus *Priesnerius* Moczar (Hymenoptera, Ceropalidae). *Linzer biologische Beiträge* 20: 119-160.
- Moczar, L. 1989. Revision of the *helvetica* groups of the genus *Ceropales* Latreille (Hymenoptera: Ceropalidae). *Beiträge zur Entomologie* 39: 9-61.
- Moczar, L. 1991. Supplement to the revision of the genus *Ceropales* Latreille, I (Hymenoptera, Ceropalidae). *Acta Zoologica Hungarica* 37: 67-74.
- Özbek, H., Yıldırım, E., Wolf, H. and Wahis, R. 1999. The Pompilidae (Hymenoptera, Aculeata) fauna of Turkey. Part I: Ceropalinae and Pepsinae. *Zoology in the Middle East* 18: 91-105.
- Özbek H., Yıldırım E., Wolf, H. and Wahis, R. 2000. The Pompilidae (Hymenoptera, Aculeata) fauna of Turkey: Part II. Pompilinae. *Zoology in the Middle East* 21: 109-128.
- Priesner, H. 1955. A revision of the Pompilidae of Egypt (Hymenoptera). *Bulletin. Société Entomologique d’Egypte*, 39: 1-215.
- Priesner, H. 1966. Zur Kenntnis der gattung *Episyron* (Hymenoptera, Pompilidae). *Bolletino dell’ Istituto di Entomologia della Università di Bologna* 28: 29-55.
- Priesner, H. 1967. Zur Kenntnis der Pompiliden (Hymenoptera) der Türkei. *Sitzungsberichten der Österreichischen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse* 176: 45-60.
- Priesner, H. 1973. Neue Pompiliden aus der Türkei (Hym.). *Nachrichtenblatt der Bayerischen Entomologen* 22: 106-110.
- Smissen, J. v. d. 2003. Revision der europäischen und türkischen Arten der Gattung *Evagetes* Lepeletier 1845 unter Berücksichtigung der Geäderabweichungen. Mit zweisprachigem Schlüssel zur Determination (Hymenoptera: Pompilidae). *Verh. Ver. Naturw. Heimatforsch. Hamburg Band* 42: 1-253.
- Wahis, R. 1986. Catalogue systématique et codage des Hyménoptères Pompilides de la région ouest-européenne. *Notes fauniques de Gembloux* 12: 1-91.
- Wahis, R. 1997. Sur les Hyménoptères Pompilides de la région française de l’Europe. Genre *Cryptocheilus* Panzer (Hymenoptera: Pompilidae, Pepsinae). *Notes fauniques de Gembloux* 33: 1-66.
- Wahis, R. 1998. Contribution à la connaissance des Hyménoptères Pompilides de la Turquie (Hymenoptera: Pompilidae). *Bulletin et Annales de la Société royale belge d’Entomologie* 134: 147-158.
- Wahis, R. 2002. *Ctenagenia ozbeki* sp.n., Pompilide nouveau de Turquie et d’Asie mineure. (Hymenoptera: Pompilidae, Pompilinae). *Notes fauniques de Gembloux* 49: 115-123.

- Wahis, R. 2006. Mise à jour du Catalogue systématique des Hyménoptères Pompilides de la région ouesteuropéenne. Additions et Corrections. Notes fauniques de Gembloux 59: 31-36.
- Wahis, R. 2009. Fauna Europaea: Pompilidae. Fauna Europaea Version 2.1, <http://www.faunaeur.org>
- Wolf, H. 1960(1963). Monografie der Westpalaearktischen *Priocnemis*-Arten (Hym., Pompilidae). Bolletino del Museo Civico di Storia Naturale di Venezia 13: 21-181.
- Wolf, H. 1966a. Pompiliden aus der Sammlung A. Giordani Soika (Hym., Pompiloidea) II. Bolletino del Museo Civico di Storia Naturale di Venezia 17: 47-56.
- Wolf, H. 1966b. Die westmediterranen Arten der Gattung *Anospilus* Haupt, 1929 (Hymenoptera, Pompilidae). Mitteilungen der Schweizerischen Entomologischen Gesellschaft 39: 1-32.
- Wolf, H. 1970. Zur Kenntnis der Gattung *Evagetes* Lepeletier, 1845 (Hymenoptera: Pompilidae). Beiträge zur Entomologie 20: 51-82.
- Wolf, H. 1986. Zur Kenntnis der Gattung *Tachyagetes* Haupt, 1930 (Hymenoptera, Pompilidae). Entomofauna 7: 225-250.
- Wolf, H. 1987. Zur Kenntnis der Gattung *Tachyagetes* Haupt, 1930 (Hymenoptera, Pompilidae) III. Linzer biologische Beiträge 19: 415-459.
- Wolf, H. 1990. Zur Kenntnis der Wegwespen- Gattung *Gonaporus* Ashmead, 1902 und verwandter Gattungen (Hym., Pompilidae). Linzer biologische Beiträge 22: 619-716.
- Wolf, H. 1999. Bemerkungen zu einigen Wegwespen-Arten (Hymenoptera: Pompilidae) (VI.). Linzer biologische Beiträge 31: 167-181.
- Vardy, C.R. 2000. The New World tarentula-hawk genus *Pepsis* Fabricius (Hymenoptera Pompilidae). Part 1. Introduction and the *P. rubra* species-group. Zoologische Verhandlungen, 332: 86 pp.
- Vardy, C.R. 2002. The New World tarentula-hawk genus *Pepsis* Fabricius (Hymenoptera Pompilidae). Part 2. The *P. grossa*- to *P. deaurata*-groups. Zoologische Verhandlungen, 338: 135 pp.
- Vardy, C.R. 2005. The New World tarentula-hawk genus *Pepsis* Fabricius (Hymenoptera Pompilidae). Part 3. The *P. inclyta*- to *P. auriguttata*- groups. Zoologische Verhandlungen, 79-5: 305 pp.
- Yıldırım, E. 2008. The present situation of some families of Hymenoptera in Turkey. Linzer Biologische Beiträge 40: 973-978.
- Zonstein, S.L. 2000. New data on Middle Asian representatives of the spider wasp genera *Hemipepsis* Dahlbom, 1843, *Dipogon* Fox, 1897, *Tachyagetes* Haupt, 1930, *Pareiocurgus* Haupt, 1962 and *Pamirospila* Wolf, 1970 stat.n. (Hymenoptera, Pompilidae). TETHYS Entomological Research, II: 167-186.