

Scorpions described by Carl Ludwig Koch in *Die Arachniden* (1836–1847): correct publication dates, volume citations, and updated taxonomy

Javier Blasco-Aróstegui^{1,2}

Theo Blick^{3,4}

Lorenzo Prendini²

¹ Centre for Ecology, Evolution and Environmental Changes,
Departamento de Biologia Animal,
Faculdade de Ciências,
Universidade de Lisboa,
Campo Grande 016,
1749-016 Lisbon, Portugal
email: javierblasco77@gmail.com

² Arachnology Lab and Scorpion Systematics Research Group,
Division of Invertebrate Zoology,
American Museum of Natural History
email: lorenzo@amnh.org

³ Hummeltal, Germany
email: info@theoblick.de

⁴ World Spider Catalog,
Natural History Museum,
Bern, Switzerland
email: wsc@nmbe.ch

Abstract

Accurate publication dates are essential in taxonomy because they determine the availability and priority of scientific names. However, older works, often issued in multiple parts over several years, frequently recorded only the date of the final compiled volume, obscuring the true publication dates of individual parts. The series *Die Arachniden* by Carl Wilhelm Hahn and Carl Ludwig Koch (1831–1847) exemplifies this problem, with hundreds of arachnid species described across 16 volumes, including scorpions, spiders, and other orders. Many names have been synonymized, invalidated, or transferred, whereas ambiguous descriptions and type localities added further confusion. Carl Ludwig Koch described seven genera and 97 scorpion species, 34 of which remain valid more than 150 years later. The present contribution provides a list of C. L. Koch's scorpion names with corrected publication dates and a guide to the proper citations for each part of *Die Arachniden*. Six *nomina dubia* are proposed: *Androctonus thoas* C. L. Koch, 1839, *Brotheas maurus* C. L. Koch, 1838, *Tityus fatalis* C. L. Koch, 1844, *Tityus perfidus* C. L. Koch, 1844, *Tityus serenus* C. L. Koch, 1844, and *Vaejovis flavescens* C. L. Koch, 1842. Similar efforts are recommended for other arachnid orders in the series to stabilize nomenclature.

Keywords: bibliographic revision • Scorpiones • taxonomy

Introduction

Publication dates are critically important in taxonomy because, among other things, they allow historical names to be traced, determine their availability, and establish priority. Unfortunately, and particularly for old works, which were often published in multiple parts over many years, it remains challenging to track down the exact dates of publication and distribution for individual parts. On some occasions, these parts were later compiled into volumes that recorded only the publication date of the final volume or the printing year of the wrapper, omitting the dates of the indi-

vidual parts (Sherborn 1914; Brignoli 1985). Discrepancies have subsequently arisen between the dates of publication of individual parts and those of the compiled volumes, leading to confusion not only in the citation of these works but also in the dates accompanying taxon names.

One of the most important early works in arachnology, the series *Die Arachniden*, authored by Carl Wilhelm Hahn (Vols. I–II) and later continued by Carl Ludwig Koch (Vols. III–XVI), represents a perfect example of this problem. Across its 16 volumes, issued between 1831 and 1847, hundreds of arachnid species were described (Fig. 1), including Acari, Amblypygi, Araneae, Opiliones, Pseudoscorpiones, Scorpiones, Solifugae, and Thelyphonida. More than half of these names have since been synonymized or otherwise invalidated. Much of the confusion stemmed from the time lag between publications by different authors at that time, combined with their occasional lack of awareness of one another's work. Moreover, the dates of most parts and volumes were wrongfully assigned by early authors and these errors were repeated over the years by subsequent authors. Additional complications were caused by the difficulty of examining type material, ambiguous or uninformative descriptions, and inaccurate or excessively broad type localities (e.g. “Brazil”). In some cases, the same species was described multiple times under different names in a single volume, e.g. *Uroplectes lineatus* (C. L. Koch, 1844) = *Tityus lineatus* C. L. Koch, 1844 = *Tityus fallax* C. L. Koch, 1844 = *Tityus striatus* C. L. Koch, 1844.

Bibliographic revisions by Sherborn (1914) and Brignoli (1985) clarified the publication dates of most individual parts and volumes of *Die Arachniden* (Table 1) and corrected the publication dates of many taxa, particularly within Araneae, which can be found in the World Spider Catalog (2026). Among the other arachnid orders, e.g. Scorpiones, some of the publication dates associated with C. L. Koch's descriptions remain inaccurate, however.

The present contribution provides a list of the scorpion names published by C. L. Koch in *Die Arachniden*, with correct dates of publication (Appendix 1), together with a guide to the correct citations for each volume and part of *Die Arachniden* (Appendix 2). Six *nomina dubia* are proposed.

Discussion

Carl Ludwig Koch described seven genera and 97 species of scorpions in the series *Die Arachniden*. Fifty-eight (55.8%) of these names have since been synonymized, and 26 (26.5%) reassigned to other genera (e.g. Prendini 2001; Söleglad & Fet 2005; Kovářik 2007; Esposito *et al.* 2018; Prendini & Loria 2020; Blasco-Aróstegui, Simone & Prendini 2025). Thirty-four (32.7%) of Koch's scorpion species are currently valid, enduring more than a century and a half of revisions and nomenclatural changes (Fig. 1). The publication dates of one valid genus, i.e. *Brotheas* C. L. Koch, 1838, three valid species, i.e. *Buthus halius* (C. L. Koch, 1838), *Buthus paris* (C. L. Koch, 1838), and

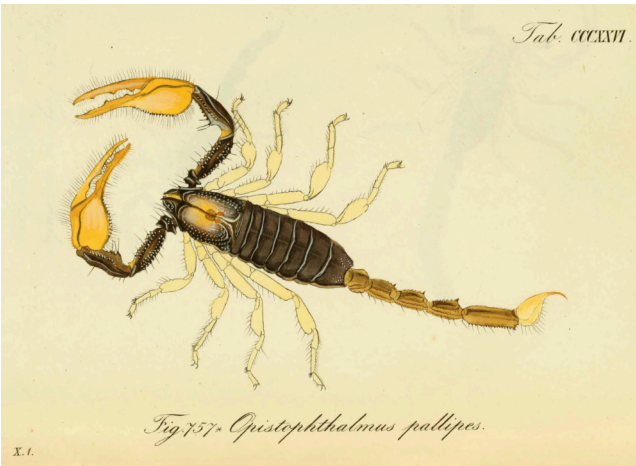


Fig. 1: Example of an original illustration provided by Carl Ludwig Koch in *Die Arachniden*: fig. 757 from pl. CCCXXVI, depicting *Opisthophthalmus pallipes* C. L. Koch, 1842, in Volume X, Part 1.

Franckeus nitidulus (C. L. Koch, 1842), and four synonyms, i.e. *Androctonus clytoneus* C. L. Koch 1838, *Androctonus iros* C. L. Koch, 1838, *Androctonus priamus* C. L. Koch, 1838, and *Androctonus troilus* 1838, have been corrected in the present contribution (Appendix 1).

Most of C. L. Koch’s original names and descriptions are problematic, being vague, simplistic, and often applicable to

multiple taxa. The distributions provided were generally imprecise and rarely restricted to specific localities. Later authors, with the opportunity to examine type material assigned to C. L. Koch’s names, recognized them as valid species or synonymized them with earlier names that matched C. L. Koch’s descriptions. Nevertheless, several names remain uncertain and were treated as *incertae sedis* in the catalog of Fet *et al.* (2000), as the loss of type material left only C. L. Koch’s poor descriptions and illustrations as references.

One such case concerns *Androctonus thoas* C. L. Koch, 1839. Fet *et al.* (2000) stated that the holotype of this species was lost. Because its distribution, description and figures are insufficient to confidently associate it with a known species, it should be considered a *nomen dubium*.

The name *Brotheas maurus* C. L. Koch, 1838 has long been the subject of debate among several authors (Pocock 1893, 1897; Lourenço 1983; Fet *et al.* 2000). Fet *et al.* (2000: 322) concluded that “it seems doubtful that the problems surrounding this issue can ever be fully resolved”. Although Fet *et al.* (2000) mentioned that some material of *B. maurus* originating from the collection of C. DeGeer may still exist, the type material is considered lost. Furthermore, at least two species of the genus *Brotheas* C. L. Koch, 1838 occur within the distribution reported by C. L. Koch (i.e.

Volume	Part	Pages	Publication Date	Volume	Part	Pages	Publication Date	Volume	Part	Pages	Publication Date
I ('1831')	1	1–24	March, 1831	VI ('1839') cont.	3	31–98	1839	XI ('1845') cont.	5	109–136	1844
	2	25–48	September, 1832		4	99–102	1839		6	137–174	1844
	3	49–76	December, 1832		5	103–132	1839	XII ('1845')	1	1–24	1845
	4	77–100	March, 1833		6	133–156	1839		2	25–52	1845
	5	101–116	July, 1833	VII ('1839')	1	1–32	July, 1839		3	53–80	1845
	6	117–129	October 1833		2	33–56	1839		4	81–108	1845
II ('1834')	1	1–16	December, 1833		3	57–70	1839		5	109–132	1845
	2	17–32	May, 1834		4	71–86	1839		6	133–166	1845
	3	33–40	July, 1834		5	87–106	1839	XIII ('1846')	1	1–36	January, 1846
	4	41–56	October, 1834		6	107–130	1840		2	37–76	February, 1846
	5	57–64	May, 1835	VIII ('1841')	1	1–20	1840		3	77–112	March, 1846
	6	65–75	August, 1835		2	21–40	1840		4	113–148	May, 1846
III ('1836')	1	1–16	January, 1836		3	41–64	1841		5	149–204	June, 1846
	2	17–32	February, 1836		4	65–86	1841		6	205–234	June, 1846
	3	33–48	July, 1836		5	87–110	May, 1841	XIV ('1848')	1	1–48	June, 1846
	4	49–66	1836		6	111–131	1841		2	49–88	December, 1846
	5	67–88	December, 1836	IX ('1842')	1	1–24	1841		3	89–120	March, 1847
	6	89–119	1837		2	25–40	1841		4	121–144	April, 1847
IV ('1838')	1	1–40	May, 1837		3	41–56	1841		5	145–172	May, 1847
	2	41–44	October, 1837		4	57–72	1842		6	173–210	May, 1847
	3	45–68	October, 1837		5	73–88	1842	XV ('1848')	1	1–24	June, 1847
	4	69–88	November, 1837		6	89–108	1842		2	25–50	July, 1847
	5	89–108	November, 1837	X ('1843')	1	1–20	1842		3	51–66	July, 1847
	6	109–144	May, 1838		2	21–36	1842		4	67–86	August, 1847
V ('1839')	1	1–24	May, 1838		3	37–60	1843		5	87–110	September, 1847
	2	25–44	May, 1838		4	61–84	1843		6	111–136	September, 1847
	3	45–60	September, 1838		5	85–112	1843	XVI ('1848')	1	1–21	October, 1847
	4	61–92	September, 1838		6	113–142	1843		2	22–40	October, 1847
	5	93–124	September, 1838	XI ('1845')	1	1–24	1844		3	41–60	October, 1847
	6	125–158	1839		2	25–48	1844		4	61–80	1847
VI ('1839')	1	1–24	1839		3	49–76	1844				
	2	25–30	1839		4	77–108	1844				

Table 1: Correct publication dates of volumes and parts of *Die Arachniden* by C. W. Hahn & C. L. Koch, modified from Sherborn (1914).

Cayenne, French Guiana). For these reasons, it is prudent to consider *B. maurus* a *nomen dubium*.

In volume III, C. L. Koch described a new genus *Tityus* C. L. Koch, 1836 and, later, assigned several new species to it. The type material of three species, *Tityus fatalis* C. L. Koch, 1844, *Tityus perfidus* C. L. Koch, 1844, and *Tityus serenus* C. L. Koch, 1844, has been reported lost (Fet *et al.* 2000). Moreover, their original descriptions provide no information on type localities. Therefore, *Tityus fatalis* C. L. Koch, 1844, *Tityus perfidus* C. L. Koch, 1844, and *Tityus serenus* C. L. Koch, 1844 should be regarded as *nomina dubia*.

Vaejovis flavescens C. L. Koch, 1842 is the last name identified as problematic. Kraepelin (1894) synonymized it with *Vaejovis mexicanus* C. L. Koch, 1836 but, later, Kraepelin (1899) recognized it as valid. However, the absence of *Vaejovidae* Thorell, 1876 in Brazil, together with the loss of the holotype, leaves the status of this taxon unresolved. *Vaejovis flavescens* should therefore be regarded as a *nomen dubium*.

The absence of type material for the newly proposed *nomina dubia* in the collection of the Museum für Naturkunde, Berlin (Moritz & Fischer 1980), where most of C. L. Koch's type specimens are deposited, further supports the proposals presented here.

It is recommended that similar efforts be extended to other arachnid orders published in the series *Die Arachniden*, i.e. Amblypygi, Opiliones, Pseudoscorpiones, Solifugae, and Thelyphonida, to establish definitive publication dates and achieve taxonomic stability.

Acknowledgements

The authors thank Danniella Sherwood and an anonymous reviewer for helpful comments on a previous draft of the manuscript.

References

- AMOREUX, P.-J. 1789: Description méthodique d'une espèce de scorpion commun à Souvignargues en Languedoc et détails historiques à ce sujet. *Observations sur la Physique, sur l'Histoire Naturelle et sur les Arts* **35**: 9–16.
- BEAUVOIS, A.-M.-F.-J., PALISOT DE 1805: *Insectes recueillis en Afrique et en Amérique, dans les royaumes d'Oware et de Bénin, à Saint-Domingue et dans les États-Unis, pendant les années 1786–1797*. Paris: Fain et Compagnie.
- BLASCO-ARÓSTEGUI, J., SIMONE, Y. & PRENDINI, L. 2025: Systematic revision of the European species of *Buthus* Leach, 1815 (Scorpiones: Buthidae). *Bulletin of the American Museum of Natural History* **476**: 1–131.
- BRIGNOLI, P. M. 1985: On the correct dates of publication of the arachnid taxa described in some works by C. W. Hahn and C. L. Koch (Arachnida). *Bulletin of the British Arachnological Society* **6**: 414–416.
- BRULLÉ, A. 1832: Des animaux articulés. Scorpionides. In J.B.G.M. Bory de Saint-Vincent (ed.), *Expédition scientifique de Morée. Section des sciences physiques. Zoologie* **3**: Paris: F. G. Levrault: 57–60.
- DEGEER, C. 1778: *Mémoires pour servir à l'histoire des Insectes*. Stockholm: Pierre Hesselberg.
- ESPOSITO, L. A., YAMAGUTI, H. Y., SOUZA, C. A., PINTO-DARROCHA, R. & PRENDINI, L. 2017: Systematic revision of the Neotropical club-tailed scorpions, *Physoctonus*, *Rhopalurus*, and *Troglophthalpulus*, revalidation of *Heteroctenus*, and descriptions of two new genera and three new species (Scorpiones: Buthidae: Rhopalurusinae). *Bulletin of the American Museum of Natural History* **415**: 1–136.
- FABRICIUS, J. C. 1775: *Systema entomologiae, sistens insectorum classes, ordines, genera, species, adjectis synonymis, locis, descriptionibus, observationibus*. Flensburg & Leipzig: Officina Libraria Kortii.
- FABRICIUS, J. C. 1787: *Mantissa insectorum sistens species nuper detectas adjectis synonymis, observationibus, descriptionibus, emendationibus, Tom. II*. Copenhagen: Christian Gottlieb.
- FABRICIUS, J. C. 1798: *Supplementum entomologiae systematicae*. Copenhagen: Proft & Storch.
- FET, V., SISSOM, W. D., LOWE, G. & BRAUNWALDER, M. E. 2000: *Catalog of the scorpions of the world (1758–1998)*. New York: New York Entomological Society.
- FRANCKE, O. F. & WAGNER, F. W. 1978: The identity of *Tityus macrurus* Koch (Arachnida, Scorpionida, Buthidae). *Journal of Arachnology* **6**: 159–160.
- GERSTAECKER, A. 1873: Gliederthiere (Insekten, Arachniden, Myriopoden und Isopoden). In C. Claus von der Decken, *Reisen in Ost-Afrika* **3**: 471–472.
- GERVAIS, P. M. 1841: Arachnides. In F. Eydoux & L. F. A. Souleyet (eds.), *Voyage autour du Monde exécuté pendant les années 1836 et 1837 sur la corvette La Bonite, commandée par M. Vaillant. Publié par ordre du roi sous les auspices du Département de la Marine. Zoologie. Aptères* **1**. Paris: Bertrand: 281–285.
- GERVAIS, P. M. 1843: Les principaux résultats d'un travail sur la famille des scorpions. *Société Philomatique de Paris, Extraits des Procès-Verbaux des Séances* **5**: 129–131.
- GUÉRIN-MÈNEVILLE, F. E. 1838: Arachnides. In R. P. Lesson (ed.), *Zoologie. Voyage autour du Monde, exécuté par ordre du roi, sur la corvette de sa majesté, La Coquille, pendant les années 1822, 1823, 1824 et 1825. Par L. I. Duperrey*, **2**(2.1). Paris: Bertrand: 47–56.
- HEMPRICH, F. W. & EHRENBERG, C. G. 1828: *Zoologica II. Arachnoidea. Plate I: Buthus; Plate II: Androctonus. In Symbolae physicae seu icones et descriptiones animalium evertibratorum sepositis insectis quae ex itinere per Africam borealem et Asiam occidentalem. Friderici Guilelmi Hemprich et Christiani Godofredi Ehrenberg, medicinae et chirurgiae doctorum, studio novae aut illustratae redierunt. Percensuit et regis iussu et impensis edidit Dr. C. G. Ehrenberg. Decas prima*. Berlin: Officina Academica, venditur a Mittler (plates only).
- HEMPRICH, F. W. & EHRENBERG, C. G. 1831: *Animalia articulata, Arachnoidea. Scorpiones Africani et Asiatici. In Symbolae Physicae. Animalia evertibrata exclusis insectis percensuit Dr. C. G. Ehrenberg. Series prima cum tabularum decade prima. Continet animalia Africana et Asiatica* **162**. Berlin: Officina Academica.
- HERBST, J. F. W. 1800: *Natursystem der ungeflügelten Insekten. Naturgeschichte der Skorpionen*. Berlin: Gottlieb August Lange.
- HOFFMANN, C. C. 1932: Monografías para la entomología médica de México. Monografía núm. 2. Los escorpiones de México. Segunda parte: Buthidae. *Anales del Instituto de Biología de la Universidad Nacional Autónoma de México* **3**: 243–361.
- KARSCH, F. 1879: Scorpionologische Beiträge. II. *Mitteilungen des Münchener Entomologischen Vereins* **3**: 97–136.
- KINZELBACH, R. 1985: Vorderer Orient. Skorpione (Arachnida: Scorpiones). *Tübinger Atlas des Vorderen Orients (TAVO), Karte Nr. A VI 14.2*.
- KOVARÍK, F. 2007: A revision of the genus *Hottentotta* Birula, 1908, with descriptions of four new species (Scorpiones, Buthidae). *Euscorpis* **58**: 1–107.
- KRAEPELIN, K. 1891: Revision der Skorpione. I. Die Familie der Androctonidae. *Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten* **8**: 1–144.
- KRAEPELIN, K. 1894: Revision der Skorpione. II. Scorpionidae und Bothriuridae. *Beiheft zum Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten* **11**: 1–248.
- KRAEPELIN, K. 1899: Scorpiones und Pedipalpi. In F. Dahl (ed.), *Das Tierreich. Herausgegeben von der Deutschen Zoologischen Gesellschaft* **8**: 1–265. Berlin: R. Friedländer und Sohn.
- LATREILLE, P. A. 1804: *Histoire naturelle, générale et particulière, des Crustacés et des Insectes. Ouvrage faisant suite aux oeuvres de Leclerc de Buffon, et partie de cours complet d'histoire naturelle rédigée par C. S. Sonnini* **7**. Paris: Dufart.

- LINNAEUS, C. 1758: Scorpio. In *Systema naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis*. Tomus I. Editio decima, reformata. Stockholm: Salvii: 624–625.
- LINNAEUS, C. 1767: *Systema naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis*. Ed. 12 I(2). Stockholm: Salvii: 533–1327.
- LOURENÇO, W. R. 1983: La faune des scorpions de Guyane Française. *Bulletin du Muséum National d'Histoire Naturelle, Paris (Zoologie, Biologie et Écologie Animale)* 5: 771–808.
- LOURENÇO, W. R. 1986: Les modèles de distribution géographique de quelques groupes de scorpions Néotropicaux. *Compte Rendu des Séances de la Société de Biogéographie* 62: 61–83.
- MORITZ, M. & FISCHER, C. S. 1980: Die Typen der Arachniden-Sammlung des Zoologischen Museums Berlin. III. Scorpiones. *Mitteilungen aus dem Zoologischen Museum in Berlin* 56: 309–326.
- PAVESI, P. 1876: Catalogo sistematico degli aracnidi raccolti col “Violante” e descrizione di specie nuove o poco note. *Annali del Museo Civico di Storia Naturale di Genova* 8: 430–451.
- PETERS, W. 1861: Über eine neue Eintheilung der Skorpione und über die von ihm in Mossambique gesammelten Arten von Skorpionen. *Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin* 1861: 507–516.
- POCOCK, R. I. 1888: On the African specimens of the genus *Scorpio* (Linn.) contained in the collection of the British Museum. *Annals and Magazine of Natural History, decade 6* 2: 245–255.
- POCOCK, R. I. 1893: A contribution to the study of Neotropical scorpions. *Annals and Magazine of Natural History, decade 6* 12: 77–103.
- POCOCK, R. I. 1896: On the scorpions, centipedes and millipedes obtained by Dr. Gregory on his expedition to Mount Kenia, East Africa. Part I. Scorpions. *Annals and Magazine of Natural History, decade 6* 17: 425–435.
- POCOCK, R. I. 1897: Report upon the Scorpiones and Pedipalpi obtained on the Lower Amazons by Messrs E. E. Austen and F. Pickard-Cambridge during the trip of Mr Siemens Steamship “Faraday”. *Annals and Magazine of Natural History, decade 6* 19: 357–368.
- PRENDINI, L. 2001: A review of synonyms and subspecies in the genus *Opisthophthalmus* C. L. Koch (Scorpiones: Scorpionidae). *African Entomology* 9: 17–48.
- PRENDINI, L. & LORIA, S. F. 2020: Systematic revision of the Asian forest scorpions (Scorpiones: Scorpionidae: Heterometrinæ Simon, 1879), revised suprageneric classification of Scorpionidae Latreille, 1802, and revalidation of Rugodentidae Bastawade *et al.*, 2005. *Bulletin of the American Museum of Natural History* 442: 1–480.
- SHERBORN, C. D. 1914: On the dates of publication of C. W. Hahn and C. L. Koch, ‘Die Arachniden’, 1831–1849. *Annals and Magazine of Natural History, decade 8* 14: 143–144.
- SIMON, E. 1872: Études sur les scorpions. Révision des *Heterometrus* du groupe de l’*H. afer*, L. *Revue et Magasin de Zoologie Pure et Appliquée* 23: 51–59; 97–101.
- SIMON, E. 1879: 3e ordre. Scorpiones Thorell. In *Les arachnides de France VII. Les ordres des Chernetes, Scorpiones et Opiliones*. Paris: Rôret: 79–115.
- SIMON, E. 1885: Matériaux pour servir à la faune arachnologique de l’Asie méridionale. *Annales de la Société Entomologique de France* 7: 22–39.
- SOLEGLAD, M. E. & FET, V. 2005: A new scorpion genus (Scorpiones: Vaejovidae) from Mexico. *Euscorpius* 24: 1–13.
- SUNDEVALL, C. J. 1833: *Conspectus Arachnidum*. Lund: Berling: 1–39.
- STAHNKE, H. L. 1974: Revision and keys to the higher categories of Vaejovidae. *Journal of Arachnology* 1: 107–141.
- THORELL, T. 1876: Études scorpionologiques. *Atti della Società Italiana di Scienze Naturali* 19: 75–272.
- THORELL, T. 1888: Pedipalpi et scorpioni dell’Archipelago Malesi conservati nel Museo Civico di Storia Naturale di Genova. *Annali del Museo Civico di Storia Naturale di Genova* 6: 327–428.
- THORELL, T. 1893: Scorpiones exotici R. Musei Historiae Naturalis Fiorentini. *Bollettino della Società Entomologica Italiana* 25: 356–387.
- WORLD SPIDER CATALOG 2026: *World spider catalog, version 27*. Bern: Natural History Museum, online at: <http://wsc.nmbe.ch>

Appendix 1: Genera and species of Scorpiones described by C. L. Koch in *Die Arachniden* (1836–1847).

Asterisks denote corrected dates of publication.

- Androctonus aeneas* C. L. Koch, 1839: vol. VI, part 1, p. 3, pl. CLXXXI, fig. 432.
- Androctonus agamemnon* C. L. Koch, 1839: vol. VI, part 5, p. 103, pl. CCV, fig. 506 = *Jaguajir agamemnon* (C. L. Koch, 1839)
- Androctonus ajax* C. L. Koch, 1839: vol. VI, part 3, p. 53, pl. CXCIII, fig. 467 = *Buthus halius* (C. L. Koch, 1838)*; synonymized by Blasco-Aróstegui *et al.* (2025: 63)
- Androctonus clytaneus* C. L. Koch 1838*: vol. V, part 4, part 4, p. 70, pl. CLXIII, fig. 384 = *Buthus occitanus* (Amoreux, 1789); synonymized by Simon (1879: 96)
- Androctonus diomedes* C. L. Koch, 1839: vol. VI, part 3, part 3, p. 75, pl. CXCIX, fig. 485 = *Androctonus australis* (Linnaeus, 1758); synonymized by Kraepelin (1891: 32)
- Androctonus eupeus* C. L. Koch, 1839: vol. V, part 6, p. 127, pl. CLXXV, fig. 419 = *Mesobuthus eupeus* (C. L. Koch, 1839)
- Androctonus eurialus* C. L. Koch, 1839: vol. VI, part 2, p. 25, pl. CXXXVII, fig. 448 = *Buthus occitanus* (Amoreux, 1789); synonymized by Simon (1879: 96)
- Androctonus eurilochus* C. L. Koch, 1839: vol. VI, part 2, p. 27, pl. CLXXXVII, fig. 449 = *Buthus occitanus* (Amoreux, 1789); synonymized by Kraepelin (1891: 54)
- Androctonus halius* C. L. Koch, 1838*: vol. V, part 4, p. 69, pl. CLXIII, fig. 383 = *Buthus halius* (C. L. Koch, 1838)*
- Androctonus hector* C. L. Koch, 1839: vol. VI, part 1, p. 6, pl. CLXXXI, fig. 433 = *Androctonus australis* (Linnaeus, 1758); synonymized by Kraepelin (1891: 32)
- Androctonus iros* C. L. Koch, 1838*: vol. V, part 5, p. 93, pl. CLXIX, fig. 401 = *Parabuthus capensis* (Ehrenberg, 1831); synonymized by Kraepelin (1899: 31)
- Androctonus margarelon* C. L. Koch, 1838*: vol. V, part 3, p. 47, pl. CLVII, fig. 367 = *Hottentotta hottentotta* (Fabricius, 1787); synonymized by Kraepelin (1891: 32)
- Androctonus pandarus* C. L. Koch, 1838*: vol. V, part 5, p. 94, pl. CLXIX, fig. 402 = *Hottentotta hottentotta* (Fabricius, 1787); synonymized by Simon (1885: 344)
- Androctonus panopeus* C. L. Koch, 1839: vol. V, part 6, p. 125, pl. CLXXV, fig. 418 = *Hottentotta hottentotta* (Fabricius, 1787); synonymized by Kraepelin (1899: 104)
- Androctonus paris* C. L. Koch, 1838*: vol. V, part 2, p. 25, pl. CLI, fig. 352 = *Buthus paris* (C. L. Koch, 1838)*
- Androctonus peloponnensis* C. L. Koch, 1836: vol. III, part 3, p. 34, pl. LXXXV, fig. 190 = *Aegaeobuthus gibbosus* (Brullé, 1832); synonymized by Karsch (1879: 102)
- Androctonus priamus* C. L. Koch, 1838*: vol. V, part 3, p. 45, pl. CLVII, fig. 366 = *Androctonus australis* (Linnaeus, 1758); synonymized by Kraepelin (1891: 32)
- Androctonus stenelus* C. L. Koch, 1839: vol. VI, part 6, p. 135, pl. CCXI, fig. 527 = *Aegaeobuthus gibbosus* (Brullé, 1832); synonymized by Kraepelin (1891: 51)
- Androctonus thersites* C. L. Koch, 1839: vol. VI, part 3, p. 51, pl. CXCIII, fig. 466 = *Mesobuthus thersites* (C. L. Koch, 1839)
- Androctonus thessandrus* C. L. Koch, 1839: vol. VI, part 3, p. 77, pl. CXCIX, fig. 486 = *Hottentotta hottentotta* (Fabricius, 1787); synonymized by Kraepelin (1891: 127)
- Androctonus thoas* C. L. Koch, 1839: vol. VI, part 6, p. 133, pl. CCXI, fig. 26, *nomen dubium* (hereby declared). Holotype lost, type locality broad (“Africa”)
- Androctonus troilus* 1838*: vol. V, part 2, p. 28, pl. CLI, fig. 353 = *Leiurus quinquestriatus* (Ehrenberg, 1828); synonymized by Kraepelin (1891: 58)
- Brotheas* C. L. Koch, 1838*: vol. IV, part 6, pp. 109–110, pl. CXXXIX, fig. 319
- Brotheas angustus* C. L. Koch, 1841: vol. VIII, part 5, p. 89, pl. CCLXXVII, fig. 658 = *Bothriurus vittatus* (Guérin Méneville, 1838); synonymized by Kraepelin (1894: 228)
- Brotheas bonariensis* C. L. Koch, 1842: vol. X, part 1, p. 12, pl. CCCXXIX, fig. 762 = *Bothriurus bonariensis* (C. L. Koch, 1842)

- Brotheas erythrodactylus* C. L. Koch, 1842: vol. X, part 1, p. 16, pl. CCCXXX, fig. 764 = *Bothriurus vittatus* (Guérin Méneville, 1838); synonymized by Kraepelin (1894: 228)
- Brotheas maurus* C. L. Koch, 1838: vol. IV, part 6, pp. 109–110, pl. CXXXIX, fig. 319, *nomen dubium* (hereby declared). Type lost?; type locality broad (“Cayenne, French Guyana”)
- Brotheas nigrocinctus* C. L. Koch, 1842: vol. X, part 1, p. 14, pl. CCCXXIX, fig. 763 = *Bothriurus vittatus* (Guérin Méneville, 1838); synonymized by Kraepelin (1894: 228)
- Buthus bengalensis* C. L. Koch, 1841: vol. IX, part 1, p. 3, pl. CCXC, fig. 696 = *Deccanometrus bengalensis* (C. L. Koch, 1841)
- Buthus caesar* C. L. Koch, 1841: vol. IX, part 1, p. 6, pl. CCXCI, fig. 697 = *Srilankametrus caesar* (C. L. Koch, 1841)
- Buthus costimanus* C. L. Koch, 1837: vol. IV, part 2, p. 27, pl. CXVI, fig. 266 = *Heterometrus longimanus* (Herbst, 1800); synonymized by Kraepelin (1894: 34)
- Buthus cyaneus* C. L. Koch, 1836: vol. III, part 5, p. 75, pl. XCVIII, fig. 225 = *Javanimetrus cyaneus* (C. L. Koch, 1836)
- Buthus defensor* C. L. Koch, 1837: vol. IV, part 1, p. 3, pl. CX, fig. 254 = *Pandinurus gregoryi* (Pocock, 1896); synonymized by Prendini & Loria (2020: 319)
- Buthus fulvipes* C. L. Koch, 1837: vol. IV, part 3, p. 45, pl. CXXI, fig. 278 = *Chersonesometrus fulvipes* (C. L. Koch, 1837)
- Buthus granulatus* C. L. Koch, 1837: vol. IV, part 3, pp. 46–49, pl. CXXII, fig. 279 = *Iurus dufourei* (Brullé, 1832); synonymized by Karsch (1879: 102)
- Buthus heros* C. L. Koch, 1837: vol. IV, part 1, p. 1, pl. CIX, fig. 253 = *Pandinurus exitialis* (Pocock, 1888); synonymized by Prendini & Loria (2020: 319)
- Buthus imperator* C. L. Koch, 1841: vol. IX, part 1, p. 1, pl. CCLXXXIX, fig. 695 = *Pandinus imperator* (C. L. Koch, 1841)
- Buthus megacephalus* C. L. Koch, 1836: vol. III, part 5, p. 73, pl. XCVII, fig. 224 = *Srilankametrus indus* (DeGeer, 1778); synonymized by Thorell (1876: 46)
- Buthus reticulatus* C. L. Koch, 1837: vol. IV, part 2, p. 25, pl. CXV, fig. 265 = *Javanimetrus cyaneus* (C. L. Koch, 1837); synonymized by Thorell (1893: 380)
- Buthus setosus* C. L. Koch, 1841: vol. VIII, part 5, p. 87, pl. CCLXXVII, fig. 657 = *Javanimetrus cyaneus* (C. L. Koch, 1837); synonymized by Kraepelin (1899: 115)
- Buthus testaceus* C. L. Koch, 1838: vol. V, part 1, p. 3, pl. CXLV, fig. 342 = *Scorpio maurus* Linnaeus, 1758; synonymized by Thorell (1893: 376)
- Centrurus galbineus* C. L. Koch, 1838: vol. IV, part 6, p. 110, pl. CXXXIX, fig. 320 = *Heterometrus longimanus* (Herbst, 1800); synonymized by Kraepelin (1894: 34)
- Ischnurus* C. L. Koch, 1837: vol. IV, part 4, p. 69–74, pl. CXXVII–CXXVIII, figs. 293–295 = *Liocheles* Sundevall, 1833; synonymized by C. L. Koch (1837: 71)
- Ischnurus complanatus* C. L. Koch, 1837: vol. IV, part 4, p. 73, pl. CXXVIII, fig. 295 = *Liocheles australasiae* (Fabricius, 1775) synonymized by Thorell (1888: 329)
- Ischnurus melampus* C. L. Koch, 1842: vol. X, part 1, p. 1, pl. CCCXXV, fig. 756 = *Hadogenes trichiurus* (Gervais, 1843); synonymized by Kraepelin (1894: 115)
- Ischnurus ochropus* C. L. Koch, 1837: vol. IV, part 4, p. 69, pl. CXXVII, fig. 293 = *Chromomachus ochropus* (C. L. Koch, 1837)
- Lychas* C. L. Koch, 1845: vol. XII, part 1, p. 2–6, pl. CCCXCVII–CCCXCVIII, figs. 961–963
- Lychas americanus* C. L. Koch, 1845: vol. XII, part 1, p. 2, pl. CCCXCVII, fig. 961 = *Isometrus maculatus* (DeGeer, 1778); synonymized by Gerstaecker (1873: 471)
- Lychas paraensis* C. L. Koch, 1845: vol. XII, part 1, p. 6, pl. CCCXCVIII, fig. 963 = *Isometrus maculatus* (DeGeer, 1778); synonymized by Gerstaecker (1873: 471)
- Lychas scutillus* C. L. Koch, 1845: vol. XII, part 1, p. 3, pl. CCCXCVIII, fig. 962
- Opisthophthalmus* C. L. Koch, 1837: vol. IV, part 5, p. 89–95, pl. CXXXIII–CXXXIV, figs. 308–310 *Opisthophthalmus latimanus* C. L. Koch, 1841: vol. VIII, part 4, p. 65, pl. CCLXXI, fig. 640 *Opisthophthalmus maxillosus* C. L. Koch, 1837: vol. IV, part 5, p. 93, pl. CXXXIV, fig. 310 = *Opisthophthalmus capensis* (Herbst, 1800); synonymized by Kraepelin (1894: 97)
- Opisthophthalmus pallipes* C. L. Koch, 1842: vol. X, part 1, p. 3, pl. CCCXXVI, fig. 757
- Opisthophthalmus pilosus* C. L. Koch, 1837: vol. IV, part 5, p. 91, pl. CXXXIV, fig. 309 = *Opisthophthalmus capensis* (Herbst, 1800); synonymized by Peters (1861: 512)
- Scorpius algeriacus* C. L. Koch, 1838: vol. V, part 1, p. 1, pl. CXLV, figs. 340–341 = *Tetratrichobothrius flavicaudis* (DeGeer, 1778); synonymized by Simon (1879: 104)
- Scorpius aquilejensis* C. L. Koch, 1837: vol. III, part 6, p. 101, pl. CV, fig. 244 = *Euscorpius aquilejensis* (C. L. Koch, 1837)
- Scorpius banaticus* C. L. Koch, 1841: vol. VIII, part 6, p. 111, pl. CCLXXXIII, figs. 679–680 = *Euscorpius carpathicus* (Linnaeus, 1767); synonymized by Pavesi (1876: 430)
- Scorpius concinnus* C. L. Koch, 1837: vol. III, part 6, p. 105, pl. CVI, fig. 246 = *Euscorpius concinnus* (C. L. Koch, 1837)
- Scorpius germanus* C. L. Koch, 1837: vol. III, part 6, p. 110, pl. CVIII, figs. 250–252 = *Alpiscorpius germanus* (C. L. Koch, 1837)
- Scorpius massiliensis* C. L. Koch, 1837: vol. III, part 6, p. 89, pl. CIII, figs. 237–238 = *Tetratrichobothrius flavicaudis* (DeGeer, 1778); synonymized by Thorell (1876: 164)
- Scorpius monspessulanus* C. L. Koch, 1837: vol. III, part 6, p. 114, pl. CIII, fig. 239 = *Tetratrichobothrius flavicaudis* (DeGeer, 1778); synonymized by Simon (1879: 104)
- Scorpius naupliensis* C. L. Koch, 1837: vol. III, part 6, p. 93, pl. CIV, fig. 240 = *Euscorpius naupliensis* (C. L. Koch, 1837)
- Scorpius niciensis* C. L. Koch, 1841: vol. VIII, part 6, p. 112, pl. CCLXXXIII, fig. 681 = *Euscorpius niciensis* (C. L. Koch, 1841)
- Scorpius oravitzensis* C. L. Koch, 1842: vol. X, part 1, p. 17, pl. CCCXXX, fig. 765 = *Euscorpius carpathicus* (Linnaeus, 1767); synonymized by Thorell (1876: 211)
- Scorpius provincialis* C. L. Koch, 1837: vol. III, part 6, p. 114, pl. CV, fig. 243 = *Euscorpius italicus* (Herbst, 1800); synonymized by Thorell (1876: 212)
- Scorpius rufus* C. L. Koch, 1837: vol. III, part 6, p. 103, pl. CVI, fig. 245 = *Euscorpius carpathicus* (Linnaeus, 1767); synonymized by Simon (1879: 108)
- Scorpius sicanus* C. L. Koch, 1837: vol. III, part 6, p. 108, pl. CVII, fig. 249 = *Euscorpius sicanus* (C. L. Koch, 1837)
- Scorpius tauricus* C. L. Koch, 1837: vol. IV, part 1, p. 6, pl. CXI, fig. 255 = *Euscorpius tauricus* (C. L. Koch, 1837)
- Scorpius tergestinus* C. L. Koch, 1837: vol. III, part 6, p. 106, pl. CVII, figs. 247–248 = *Euscorpius tergestinus* (C. L. Koch, 1837)
- Telegonus* C. L. Koch, 1836: vol. III, part 4, pp. 52–54, pl. XCI, fig. 207 = *Thestylus* Simon, 1880; synonymized by Kraepelin (1899: 192)
- Telegonus versicolor* C. L. Koch, 1836: vol. III, part 4, pp. 52–54, pl. XCI, fig. 207 = *Thestylus glasioui* (Bertkau, 1880); synonymized by Kraepelin (1894: 219)
- Tityus* C. L. Koch 1836: vol. III, part 3, pp. 33–34, pl. LXXXV, fig. 190
- Tityus aethiops* C. L. Koch, 1844: vol. XI, part 1, p. 11, pl. CCCLXIV, fig. 856 = *Isometrus maculatus* (DeGeer, 1778); synonymized by Karsch (1879: 114)
- Tityus arrogans* C. L. Koch, 1844: vol. XI, part 2, p. 31, pl. CCCLXVIII, fig. 865, *nomen dubium* (Lourenço, 1982: 95). Type depository unknown (ZMB?), type locality vague (“Brazil”)
- Tityus bahiensis* C. L. Koch, 1836: vol. III, part 3, pp. 33–34, pl. LXXXV, fig. 190
- Tityus carinatus* C. L. Koch, 1844: vol. XI, part 1, p. 2, pl. CCCLXI, fig. 851 = *Centruroides margaritatus* (Gervais, 1841); synonymized by Kraepelin (1899: 93)
- Tityus clathratus* C. L. Koch, 1844: vol. XI, part 1, p. 22, pl. CCCLXVI, fig. 861 *Tityus congener* C. L. Koch, 1844: vol. XI, part 1, p. 19, pl. CCCLXVI, fig. 860 = *Centruroides gracilis* (Latreille, 1804); synonymized by Thorell (1876: 167)
- Tityus denticulatus* C. L. Koch, 1844: vol. XI, part 2, p. 39, pl. CCCLXXI, fig. 870 = *Centruroides gracilis* (Latreille, 1804); synonymized by Kraepelin (1891: 132)
- Tityus ducalis* C. L. Koch, 1844: vol. XI, part 2, p. 38, pl. CCCLXX, fig. 869 = *Centruroides margaritatus* (Gervais, 1841); synonymized by Hoffman (1932: 247)
- Tityus fallax* C. L. Koch, 1844: vol. XI, part 1, p. 1, pl. CCCLXI, fig. 850 = *Uroplectes lineatus* (C. L. Koch, 1844); synonymized by Kraepelin (1899: 60)

- Tityus fatalis* C. L. Koch, 1844: vol. XI, part 2, p. 36, pl. CCCLXIX, fig. 867, *nomen dubium* (hereby declared). Type lost; type locality unknown.
- Tityus griseus* C. L. Koch, 1844: vol. XI, part 2, p. 43, pl. CCCLXXII, fig. 872 = *Centruroides griseus* (C. L. Koch, 1844)
- Tityus infamatus* C. L. Koch, 1844: vol. XI, part 2, p. 46, pl. CCCLXXII, fig. 873 = *Centruroides infamatus* (C. L. Koch, 1844)
- Tityus lineatus* C. L. Koch, 1844: vol. XI, part 1, p. 7, pl. CCCLXIII, fig. 854 = *Uroplectes lineatus* (C. L. Koch, 1844)
- Tityus longimanus* C. L. Koch, 1844: vol. XI, part 1, p. 13, pl. CCCLXIV, fig. 857 = *Isometrus maculatus* (DeGeer, 1778); synonymized by Thorell (1888: 330)
- Tityus macrurus* C. L. Koch, 1844: vol. XI, part 1, p. 16, pl. CCCLXV, fig. 859 = *Centruroides gracilis* (Latreille, 1804); synonymized by Francke & Wagner (1978: 159)
- Tityus marmoreus* C. L. Koch, 1844: vol. XI, part 2, p. 36, pl. CCCLXX, fig. 868 = *Lychas marmoreus* (C. L. Koch, 1844)
- Tityus mulatinus* C. L. Koch, 1844: vol. XI, part 1, p. 5, pl. CCCLXII, fig. 852 = *Centruroides gracilis* (Latreille, 1804); synonymized by Kraepelin (1891: 132)
- Tityus nebulosus* C. L. Koch, 1844: vol. XI, part 2, p. 25, pl. CCCLXVII, fig. 862 = *Centruroides gracilis* (Latreille, 1804); synonymized by Kraepelin (1891: 132)
- Tityus perfidus* C. L. Koch, 1844: vol. XI, part 2, p. 34, pl. CCCLXIX, fig. 866, *nomen dubium* (hereby declared). Type lost; type locality unknown.
- Tityus serenus* C. L. Koch, 1844: vol. XI, part 2, p. 41, pl. CCCLXXI, fig. 871, *nomen dubium* (hereby declared). Type lost; type locality unknown.
- Tityus striatus* C. L. Koch, 1844: vol. XI, part 1, p. 6, pl. CCCLXII, fig. 853 = *Uroplectes lineatus* (C. L. Koch, 1844); synonymized by Kraepelin (1899: 60)
- Tityus variegatus* C. L. Koch, 1844: vol. XI, part 1, p. 9, pl. CCCLXIII, fig. 855 = *Uroplectes variegatus* (C. L. Koch, 1844)
- Tityus varius* C. L. Koch, 1844: vol. XI, part 2, p. 29, pl. CCCLXVIII, fig. 864 = *Lychas mucronatus* (Fabricius, 1798); synonymized by Thorell (1888: 330)
- Vaejovis* C. L. Koch, 1836: vol. III, part 4, p. 51–52, pl. XCI, fig. 206 *Vaejovis asperulus* C. L. Koch, 1842: vol. X, part 1, p. 11, pl. CCCXXVIII, fig. 761 = *Vaejovis carolinianus* (Beauvois, 1805); synonymized by Kraepelin (1899: 185)
- Vaejovis carolinus* C. L. Koch, 1842: vol. X, part 1, p. 7, pl. CCCXXVII, fig. 759 = *Vaejovis carolinianus* (Beauvois, 1805); synonymized by Stahnke (1974: 135)
- Vaejovis debilis* C. L. Koch, 1840: vol. VIII, part 2, p. 21, pl. CCLIX, fig. 605 = *Physoctonus debilis* (C. L. Koch, 1840)
- Vaejovis flavescens* C. L. Koch, 1842: vol. X, part 1, p. 9, pl. CCCXXVIII, fig. 760, *nomen dubium* (hereby declared). Holotype lost; dubious distribution (“Brazil”)
- Vaejovis mexicanus* C. L. Koch, 1836: vol. III, part 4, p. 51, pl. XCI, fig. 206 *Vaejovis nitidulus* C. L. Koch, 1842*: vol. X, part 1, p. 4, pl. CCCXXVII, fig. 758 = *Franckeus nitidulus* (C. L. Koch, 1842)*
- Vaejovis schuberti* C. L. Koch, 1840: vol. VIII, part 2, p. 23, pl. CCLIX, fig. 606 = *Aegeobuthus gibbosus* (Brullé, 1832); synonymized by Kinzelbach (1985: 28)
- Hahn, C. W. (1832). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Erster Band (I), parts 2–3, pp. 25–76, pl. VII–XVIII.
- Hahn, C. W. (1833). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Erster Band (I), parts 4–6, pp. 77–129, pl. XIX–XXXVI.
- Hahn, C. W. (1833). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Zweiter Band (II), part 1, pp. 1–16, pl. XXXVII–XLII.
- Hahn, C. W. (1834). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Zweiter Band (II), parts 2–4, pp. 17–56, pl. XLIII–LXI.
- Hahn, C. W. (1835). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Zweiter Band (II), parts 5–6, pp. 57–75, pl. LXII–LXXII.
- Koch, C. L. (1836). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Dritter Band (III), parts 1–5, pp. 1–88, pl. LXXIII–CII.
- Koch, C. L. (1837). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Dritter Band (III), part 6, pp. 89–119, pl. CIII–CVIII.
- Koch, C. L. (1837). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Vierter Band (IV), parts 1–5, pp. 1–108, pl. CIX–CXXXVIII.
- Koch, C. L. (1838). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Vierter Band (IV), part 6, pp. 109–144, pl. CXXXIX–CXLIV.
- Koch, C. L. (1838). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Fünfter Band (V), parts 1–5, pp. 1–124, pl. CXLV–CLXXIV.
- Koch, C. L. (1839). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Fünfter Band (V), part 6, pp. 125–158, pl. CLXXV–CLXXX.
- Koch, C. L. (1839). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Sechster Band (VI), parts 1–6, pp. 1–156, pl. CLXXXI–CCXVI.
- Koch, C. L. (1839). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Siebenter Band (VII), parts 1–5, pp. 1–106, pl. CCXVII–CCXLVI.
- Koch, C. L. (1840). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Siebenter Band (VII), part 6, pp. 107–130, pl. CCXLVII–CCLII.
- Koch, C. L. (1840). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Achter Band (VIII), parts 1–2, pp. 1–40, pl. CCLIII–CCLXVIII.
- Koch, C. L. (1841). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Achter Band (VIII), parts 3–6, pp. 41–131, pl. CCLXIX–CCLXXXVIII.
- Koch, C. L. (1841). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Neunter Band (IX), parts 1–3, pp. 1–56, pl. CCLXXXIX–CCCVI.
- Koch, C. L. (1842). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, eunter Band (IX), parts 4–6, pp. 57–108, pl. CCCVII–CCXXXIV.
- Koch, C. L. (1842). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Zehnter Band (X), parts 1–2, pp. 1–36, pl. CCCXXV–CCXXXVI.
- Koch, C. L. (1843). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, ehnter Band (X), parts 3–6, pp. 37–142, pl. CCCXXXVII–CCCLX.
- Koch, C. L. (1844). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Elfter Band (XI), parts 1–6, pp. 1–174, pl. CCCLXI–CCCXCVI.
- Koch, C. L. (1845). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Zwölfter Band (XII), parts 1–6, pp. 1–166, pl. CCCXCVII–CCCCXXXII.
- Koch, C. L. (1846). *Die Arachniden*. J.L. Lotzbeck, Nürnberg, Dreizehnter Band (XIII), parts 1–6, pp. 1–234, pl. CCCCXXXIII–CCCCXLVIII.
- Koch, C. L. (1846). *Die Arachniden*. J.L. Lotzbeck, Nürnberg, Vierzehnter Band (XIV), parts 1–2, pp. 1–88, pl. CCCCLXIX–CCCCLXXX.
- Koch, C. L. (1847). *Die Arachniden*. J.L. Lotzbeck, Nürnberg, Vierzehnter Band (XIV), parts 3–6, pp. 89–210, pl. CCCCLXXXI–DIV.
- Koch, C. L. (1847). *Die Arachniden*. J.L. Lotzbeck, Nürnberg, Fünfzehnter Band (XV), parts 1–6, pp. 1–136, pl. DV–DXL.
- Koch, C. L. (1847). *Die Arachniden*. J.L. Lotzbeck, Nürnberg, Sechzehnter und letzter Band (XVI), parts 1–4, pp. 1–80, pl. DXLI–DLXIII.

Appendix 2. Correct citations for each volume and part of *Die Arachniden*.

- Hahn, C. W. (1831). *Die Arachniden*. C. H. Zeh’sche Buchhandlung, Nürnberg, Erster Band (I), part 1, pp. 1–24, pl. I–VI