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Checklist of Lampyridae of Taiwan-Coleoptera : Polyphaga : Lampyridae 【Review article】

臺灣螢科名錄--鞘翅目:多食亞目:螢科【綜合論述】

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Abstract

Forty-four species of fireflies from Taiwan are inventoried in the checklist. *Pyrocoelia lampyroides* Olivier is transferred to *Diaphanes*; the specific name of *Lamprigera yunnana* gets a mandatory change. Chineses names are proposed for each taxon; type locality, type depository and distribution of each species are also provided.

摘要

本名錄記錄臺灣產螢科昆蟲4 亞科11 屬44種。鋸角雪螢*Pyrocoelia lampyroides* (Olivier, 1891)被轉移至短角窗螢屬*Diaphanes*；雲南扁螢*Lamprigera yunnana*的學名經強制性修改。本文詳列台灣產種類亞科、屬及種的中文名及原始文獻，並附各種類之分布、模式標本產地及館藏地。

Key words: Taiwan, Lampyridae, checklist, new combination, type depository.

關鍵詞: 臺灣、螢科、新組合、模式標本館藏地

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臺灣螢科名錄—鞘翅目：多食亞目：螢科

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摘要

本名錄記錄臺灣產螢科昆蟲4亞科11屬44種。鋸角雪螢 *Pyrocoelia lampyroides* (Olivier, 1891) 被轉移至短角窗螢屬 *Diaphanes*；雲南扁螢 *Lamprigera yunnana* 的學名經強制性修改。本文詳列台灣產種類亞科、屬及種的中文名及原始文獻，並附各種類之分布、模式標本產地及館藏地。

關鍵字：臺灣，螢科，新組合，模式標本館藏地。

OTOTRETINAE 鴛螢亞科

Genus *Drilaster* Kiesenwetter, 1879 鴛螢屬

Kiesenwetter, 1879. Deut. ent. Ztsch. 23: 310.

Drilaster atricollis Nakane, 1977 高山鴛螢

Drilaster atricollis Nakane, 1977. Frag. Coleopt. 22 / 24: 90 (Taiwan).

Type locality: TAIWAN: Song-Gang (formerly as Sungkang), Nantou County (松崙，南投縣).

Type depository: Dr. Takehiko Nakane's personal collection, Japan (CTN).

Distribution: Taiwan.

Drilaster flavigollis Nakane, 1977 黃胸鴛螢

Drilaster flavigollis Nakane, 1977. Frag. Coleopt. 22 / 24: 96 (Taiwan).

Type locality: TAIWAN: Tsuei-Fong (formerly as Oiwaki), Nantou County (翠峰，南投縣).

Type depository: CTN.

Distribution: Taiwan.

Drilaster flavipennis Nakane, 1977 黃鞘鴛螢

Drilaster flavipennis Nakane, 1977. Frag. Coleopt. 22 / 24: 90 (Taiwan).

Type locality: TAIWAN: Song-Gang, Nantou County (松崙，南投縣).

Type depository: CTN.

Distribution: Taiwan, Japan (Is. Yūnaguni).

- Drilaster kimotoi* Nakane, 1977** 黑弩蟹
Drilaster kimotoi Nakane, 1977. Frag. Coleopt. 22 / 24: 93 (Taiwan).
 Type locality: TAIWAN: Song-Gang, Nantou County (松崙，南投縣).
 Type depository: National Science Museum, Tokyo, Japan (NSMT).
 Distribution: Taiwan.
- Drilaster olivieri* (Pic, 1911)** 奧氏弩蟹
Ototreta olivieri Pic, 1911. Rev. Sci. Bourbon. 24: 36 (Taiwan).
Drilaster olivieri: Nakane, 1977. Frag. Coleopt. 22 / 24: 89.
 Type locality: TAIWAN: Tainan (臺南).
 Type depository: Museum National d' Histoire Naturelle, Paris, France (MNHN).
 Distribution: Taiwan.
- Drilaster parvus* Nakane, 1977** 姬弩蟹
Drilaster parvus Nakane, 1977. Frag. Coleopt. 22 / 24: 94 (Taiwan).
 Type locality: TAIWAN: Fenchihu, Chiayi County (奮起湖，嘉義縣).
 Type depository: NSMT.
 Distribution: Taiwan.
- Drilaster purpureicollis* (Pic, 1911)** 紅弩蟹
Ototreta purpureicollis Pic, 1911. Rev. Sci. Bourbon. 24: 36 (Taiwan).
Drilaster purpureicollis: Nakane, 1977. Frag. Coleopt. 22 / 24: 89.
 Type locality: TAIWAN: Tainan (臺南).
 Type depository: MNHN.
- Distribution: Taiwan.
- Drilaster rollei* (Pic, 1911)** 洛氏弩蟹
Ototreta rollei Pic, 1911. Rev. Sci. Bourbon. 24: 36 (Taiwan).
Drilaster rollei: Nakane, 1977. Frag. Coleopt. 22 / 24: 89.
 Type locality: TAIWAN: Tainan (臺南).
 Type depository: MNHN.
 Distribution: Taiwan.
- Drilaster takahashii* Nakane, 1977** 高橋氏弩蟹
Drilaster takahashii Nakane, 1977. Frag. Coleopt. 22 / 24: 89 (Taiwan).
 Type locality: TAIWAN: between Yu-shanko (formerly as Niitaka-kuchi) and Alishan, Chiayi County (玉山口至阿里山間，嘉義縣).
 Type depository: NSMT.
 Distribution: Taiwan.
- Genus *Stenocladius* Deyrolle and Fairmaire, 1878** 垂鬚蟹屬
 Deyrolle and Fairmaire, 1878. Ann. Soc. ent. Fr. 8: 112.
- Stenocladius bicoloripes* Pic, 1918** 雙色垂鬚蟹
Stenocladius bicoloripes Pic, 1918. Mél. exot.-ent. p.3 (Taiwan).
 Type locality: TAIWAN: Tainan (臺南).
 Type depository: MNHN.
 Distribution: Taiwan.

Subfamily LUCIOLINAE 煙螢亞科

Genus *Luciola* Laporte, 1833 煙螢屬

Laporte, 1833. Ann. Soc. ent. Fr. 2: 146.

Luciola anceyi Olivier, 1883 大端黑螢

Luciola anceyi Olivier, 1883. Rev. Ent. 2: 330 (based on female) (China); - Olivier, 1911. Ann. Mus. Civ. Stor. Nat. Genova 45: 146 (Taiwan).

Type locality: CHINA.

Type depository: MNHN.

Distribution: Taiwan, China, Burma and Vietnam.

Luciola cerata Olivier, 1911 黑翅螢

Luciola cerata Olivier, 1911. Ann. Mus. Stor. nat. Genova 45: 147 (Taiwan).

Type locality: TAIWAN: Puli (formerly as Polisha), Nantou County (埔里, 南投縣).

Type depository: MNHN.

Distribution: Taiwan.

Luciola chinensis (Linnaeus, 1767) 中華煙螢

Lampyris chinensis Linnaeus, 1767. Syst. Nat. 1(2): 645 (Asia).

Luciola chinensis: Laporte, 1833. Ann. Soc. ent. Fr. 2: 149; - Olivier, 1911. Ann. Mus. Civ. Stor. Genova 45: 146 (Taiwan).

Type locality: Asia.

Type depository: The type(s) originally in Natural History Museum, London, UK (BMNH) was (were) probably lost.

Distribution: China (?); the record

from Taiwan is doubtful.

Luciola ficta Olivier, 1909 黃緣螢

Luciola ficta Olivier, 1909. Bull. Mus. Hist. Nat. Paris 15: 249 (China); - Pic, 1911. Deut. Ent. Nat. Bibl. 2: 188 (Taiwan).

Type locality: CHINA: Pin-Fa, Gui-zhou Prov. (平壩 ? 貴州省).

Type depository: MNHN.

Distribution: Taiwan, Hong Kong and China.

Luciola filiformis Olivier, 1913 紋胸黑翅螢

Luciola filiformis Olivier, 1913. Ent. Mitt. 2(9): 271 (Taiwan).

Type locality: TAIWAN: Jiashen (formerly as Kosempo), Kaoshung County and Gangko (formerly as Kankau), Pingtung County (甲仙, 高雄縣; 港口村, 屏東縣).

Type depository: MNHN and also possibly in Museo Civico di Storia Naturale Genova (MSNG).

Distribution: Taiwan, Japan (Is. Ishigaki and Iriomote).

Luciola formosana Pic, 1916 蓬萊煙螢

Luciola formosana Pic, 1916. Mél. exot. -ent. 18: 9 (Taiwan).

Type locality: TAIWAN: Tainan (臺南).

Type depository: MNHN.

Distribution: Taiwan.

Luciola japonica (Thunberg, 1784) 黃煙螢

Lampyris japonica Thunberg, 1784. Ins.

Sp. Nov. 4: 79 (Japan ?).

Luciola japonica: Fabricius, 1878. Mant.

Ins. I: 162; - Matsumura, 1918. Illustration Post of Education 6(3): 84 (Taiwan).

Type locality: JAPAN (?).

Type depository: Uppsala University, Sweden.

Distribution: Unclear. The real type locality is more possible to be Java rather than Japan. Its records from Taiwan and Japan are doubtful.

***Luciola kagiana* Matsumura, 1928** 紅胸黑翅螢

Luciola kagiana Matsumura, 1928. Interesting insects as educational material p.63 (Taiwan).

Type locality: TAIWAN: Chiayi (formerly as Kagi)(嘉義).

Type depository: Hokkaido University, Japan.

Distribution: Taiwan.

***Luciola ovalis* Hope, 1831** 黃帶熠螢

Luciola ovalis Hope, 1831. in Gray Zool. Misc. p.26 (Burma); - Matsumura, 1918. Illustrations of Education 6(3): 84 (Taiwan).

Type locality: BURMA: Cochinchine.

Type depository: Oxford University, UK.

Distribution: Burma and Vietnam. This species is possibly part of "the Shiraki's Collection" and its record from Taiwan is doubtful.

***Luciola gorhami* Ritsema, 1883** 端黑螢

Luciola gorhami Ritsema, 1883. Notes

Leyden Mus. 5: 4 (India); - Olivier, 1913. Ent. Mitt. II(9): 270 (Taiwan).

Type locality: INDIA: Bombay.

Type depository: BMNH.

Distribution: Taiwan, Indonesia and India.

***Luciola substriata* Gorham, 1880** 條背螢

Luciola substriata Gorham, 1880. Trans. Ent. Soc. London 1880: 100 (India); - Olivier, 1913. Ent. Mitt. 2(9): 271 (Taiwan).

Type locality: INDIA: Bombay.

Type depository: MNHN.

Distribution: Taiwan, India and Burma.

Genus *Curtos* Motschulsky, 1845 脈翅螢屬

Motschulsky, 1845. Bull. Soc. Nat. Moscou 18: 36.

***Curtos costipennis* (Gorham, 1880)** 黃脈翅螢

Luciola costipennis Gorham, 1880. Trans. Ent. Soc. Lond. 1880: 102 (China); - Olivier, 1913. Ent. Mitt. 2(9): 272 (Taiwan).

Curtos costipennis: Chûjô and Satô, 1970.

Mem. Fac. Edu. Kagawa Uni. 2: 22.

Type locality: CHINA: Foochow (Fuzhou).

Type depository: MNHN.

Distribution: Taiwan, China and Japan (Is. Okinawa and Yayeyama).

- Curtos impolitus* (Olivier, 1913)**姬脈翅螢
Luciola impolita Olivier, 1913. Ent. Mitt. 2(9): 271 (Taiwan).
Curtos impolita: Chûjô and Satô, 1970. Mem. Fac. Edu. Kagawa Univ. 2: 65.
Curtos impolitus: Jeng *et al.* 1998. Jpn. J. Syst. Ent. 4: 336.
 Type locality: TAIWAN: Gangko (formerly as Kankau), Pingtung County (港口村, 屏東縣).
 Type depository: MNHN.
 Distribution: Taiwan.
- Curtos mundulus* (Olivier, 1913)**黃肩脈翅螢
Luciola mundula Olivier, 1913. Ent. Mitt. 2(9): 271 (Taiwan).
Curtos mundula: Chûjô and Satô, 1970. Mem. Fac. Edu. Kagawa Uni. 2: 63.
Curtos mundulus: Jeng *et al.*, 1998. Jpn. J. Syst. Ent. 4: 338.
 Type locality: TAIWAN: Gangko (formerly as Kankau), Pingtung County (港口村, 屏東縣).
 Type depository: possibly in Deutsches Entomologisches Institut, Eberswalde, Germany (DEI).
 Distribution: Taiwan.
- Curtos sauteri* Olivier, 1913**梭德氏脈翅螢
Curtos sauteri Olivier, 1913. Ent. Mitt. 2(9): 272 (Taiwan).
 Type locality: TAIWAN: Sueisherliao (formerly as Suisharyo), Chayi County (水社寮, 嘉義縣).
 Type depository: DEI (?)
 Distribution: Taiwan.

- ### Subfamily LAMPYRINAE 螢亞科
- Genus *Diaphanes* Motschulsky, 1853** 短角窗螢屬
Diaphanes citrinus Olivier, 1911 橙螢
Diaphanes citrinus Olivier, 1911. Ann. Mus. Stor. nat. Genova, 45: 147 (Taiwan).
 Type locality: TAIWAN: Sun-Moon Lake (formerly as Lake Candidius), Nantou County (日月潭, 南投縣).
 Type depository: MNHN.
 Distribution: Taiwan and China.
- Diaphanes exsanguis* Olivier, 1909** 雪螢
Diaphanes exsanguis Olivier, 1909. Bull. Mus. Hist. Nat. Paris, 15: 248; - Miwa, 1931. Syst. Catalog. Formosan Coleopt. p.99 (Taiwan).
 Type locality: CHINA: Pin-Fa, Guizhou Prov. (平壩 ? 貴州省).
 Type depository: MNHN.
 Distribution: Taiwan, China and India.
- Diaphanes formosus* Olivier, 1910**蓬萊短角窗螢
Diaphanes formosus Olivier, 1910. Bull. Soc. ent. Fr. 1910: 286 (Taiwan).
 Type locality: TAIWAN: Jiashen (formerly as Kosempo), Kaoshung County (甲仙, 高雄縣).
 Type depository: MNHN.
 Distribution: Taiwan.

***Diaphanes lampyroides* (Olivier, 1891)** 鋸角雪螢(n. comb.)

Pyrocoelia lampyroides Olivier, 1891. Ann. Mus. Stor. nat. Genova p.598 (Burma); - Olivier, 1913. Ent. Mitt. 2(9): 270 (Taiwan).

Lucernuta lampyroides: Olivier, 1907. in Wytsman, Genera Insect. 53: 25.

Lychnuris lampyroides: McDermott, 1966. Coleopt. Cat. Suppl. par. 9, Lampyridae p.16.

Type locality: BURMA.

Type depository: MSNG and MNHN.

Distribution: Taiwan, Burma and Laos.

Genus *Lychnuris* Dejean, 1833 窗螢屬

Dejean, 1833. Cat. de Coll. 2: 101.

***Lychnuris analis* (Fabricius, 1801)** 大陸窗螢

Lampyris analis Fabricius, 1801. Syst. Eleuth. 2: 100 (China).

Pyrocoelia analis: Olivier, 1886. Notes Leyden Mus. 8: 204.

Lucernuta analis: Olivier, 1907. in Wytsman, Genera Insect. 53: 25; - Matsuura, 1918. Illustration Post of Education, 6(3): 87 (Taiwan).

Lychnuris analis: McDermott, 1966. Coleopt. Cat. Suppl. par. 9, Lampyridae p.14.

Type locality: CHINA.

Type depository: Zoologisk Museum, Copenhagen, Denmark

Distribution: Taiwan (including Is. Kinmen), China.

***Lychnuris formosana* (Olivier, 1911)** 紅胸窗螢

Pyrocoelia formosana Olivier, 1911. Ann. Mus. Stor. nat. Genova 45: 146 (Taiwan).

Lychnuris formosana: McDermott, 1966. Coleopt. Cat. Suppl. par. 9, Lampyridae p.15.

Type locality: TAIWAN: Puli (formerly as Polisha), Nantou County, and Jiashen (formerly Kosempo), Kaoshung County (埔里，南投縣；甲仙，高雄縣).

Type depository: MNHN.

Distribution: Taiwan.

***Lychnuris praetexta* (Olivier, 1911)** 山窗螢

Pyrocoelia praetexta Olivier, 1911. Rev. Sci. Bourbon. 24: 66 (Taiwan).

Lychnuris praetexta: McDermott, 1966. Coleopt. Cat. Suppl. par. 9, Lampyridae p.17.

Type locality: CENTRAL TAIWAN.

Type depository: MNHN.

Distribution: Taiwan.

***Lychnuris sanguiniventer* (Olivier, 1911)** 赤腹窗螢

Pyrocoelia sanguiniventer Olivier, 1911. Ann. Mus. Stor. nat. Genova 45: 145.

Lychnuris sanguiniventer: McDermott, 1966. Coleopt. Cat. Suppl. par. 9, Lampyridae p.18.

Type locality: TAIWAN: Jiashen (formerly as Kosempo), Kaoshung County (甲仙，高雄縣).

Type depository: MNHN and MSNG.

Distribution: Taiwan.

Genus *Lucidina* Gorham, 1883 鋸角螢屬
Gorham, 1883: Trans. Ent. Soc. London
1883: 408.

***Lucidina accensa* Gorham, 1883** 卵翅鋸角螢
Lucidina accensa Gorham, 1883. Trans.
Ent. Soc. London 1883: 408 (Japan); -
Olivier, 1913. Ent. Mitt. 2(9): 269
(Taiwan).
Type locality: JAPAN: Nara, Tokyo.
Type depository: BMNH and MNHN.
Distribution: Taiwan and Japan.

***Lucidina roseonotata* Pic, 1917** 赤腹鋸角螢
Lucidina roseonotata Pic, 1917. Mél. exot.
-ent. 22: 5 (Taiwan).
Type locality: TAIWAN: Tainan (臺南).
Type depository: MNHN.
Distribution: Taiwan.

***Lucidina biplagiata* (Motschulsky, 1866)** 北方鋸角螢
Lychnuris biplagiata Motschulsky, 1866.
Bull. Soc. Nat. Moscou 39: 167 (Japan).
Lucidota biplagiata: Gorham, 1880. Trans.
Ent. Soc. London 1880: 17.
Lucidina biplagiata: Olivier, 1907. in
Wytsman, Genera Insect. 53: 24; -
Miwa, 1931. Syst. Catalog. Formosan
Coleopt. p.100 (Taiwan).
Type locality: JAPAN.
Type depository: Museum of Zoology,
Moscow University, Moscow, Russia
(ZMUM.)
Distribution: Taiwan, Japan, Korea

and Russia (Sahalin).

Genus *Pristolycus* Gorham, 1883 黑脈螢屬
Gorham, 1883. Trans. Ent. Soc. London
1883: 408.

***Pristolycus kanoi* Nakane, 1967** 鹿野氏黑脈
螢
Pristolycus kanoi Nakane, 1967. Bull. Nat.
Sci. Mus. Tokyo, 10(3): 289. (female)
(Taiwan).
Type locality: TAIWAN: Kwaishan
(formerly as Hinoki), Taoyuan County
(檜山, 桃園縣).
Type depository: CTN.
Distribution: Taiwan.

Genus *Lamprigera* Motschulsky, 1853 扁螢屬
Motschulsky, 1853. Etud. ent. 1: 47.

***Lamprigera yunnana* Fairmaire, 1897** 雲南扁
螢
Lamprophorus yunnanus Fairmaire, 1897.
Notes Leyden Mus. 29: 216 (China); -
Olivier, 1913. Ent. Mitt. 2(9): 270
(Taiwan).
Lamprigera yunnanensis: McDermott,
1966. Coleopt. Cat. Suppl. par. 9,
Lampyridae p.77.
Type locality: CHINA: Yunnan.
Type depository: MNHN.
Distribution: Taiwan and Southern
China.

Genus *Vesta* Laporte, 1833 櫛角螢屬
Laporte, 1833. Ann. Soc. ent. Fr. 2: 132.

Vesta chevrolati Laporte, 1833 黑腹櫛角螢
Vesta chevrolati Laporte, 1833. Ann. Soc. ent. Fr. 2: 133 (Java); - Olivier, 1911. Ann. Mus. Civ. Stor. Genova 45: 145 (Taiwan).
Type locality: Java.
Type depository: MNHN.
Distribution: Taiwan and Indonesia.

Vesta fomosana Pic, 1944 蓬萊櫛角螢
Vesta formosana Pic, 1944. Échange 60: 2 (Taiwan).
Type locality: TAIWAN: Tainan (臺南).
Type depository: MNHN.
Distribution: Taiwan.

Vesta impressicollis Fairmaire, 1891 赤腹櫛角螢
Vesta impressicollis Fairmaire, 1891. Bull. Soc. ent. Belg. 35: 15 (China); - Olivier, 1913. Ent. Mitt. 2(9): 269 (Taiwan).
Type locality: CHINA: Chang-Yang.
Type depository: MNHN.
Distribution: Taiwan and China.

Vesta rufiventris (Motschulsky, 1854)卵翅櫛角螢
Cratolampis rufiventris Motschulsky, 1854. Étud. Ent. p. 43 (China).
Vesta rufiventris: Fairmaire, 1891. Bull. Soc. ent. Belg. p.15; - Olivier, 1913. Ent. Mitt. 2(9): 269 (Taiwan).
Lucernuta rufiventris: Olivier, 1907. In Wytsman, Genera Insect. 53: 25.
Pyrocoelia rufiventris: Olivier, 1911. Rev.

sci. Bourbon. 24: 56.
Lychnuris rufiventris: McDermott, 1966. Coleopt. Cat. Suppl. par. 9, Lampyridae p.18.
Type locality: CHINA.
Type depository: ZMUM.
Distribution: Taiwan and China.

Subfamily Psilocladinae 雙櫛角螢亞科

Genus *Cyphonocerus* Kiesenwetter, 1879 雙櫛角螢屬
Kiesenwetter, 1879. Deut. ent. Ztsch. 23: 311.

Cyphonocerus sanguineus Pic, 1911 赤翅雙櫛角螢
Cyphonocerus sanguineus Pic, 1911. Échange 27: 143 (Taiwan).
Type locality: TAIWAN: Tainan (臺南).
Type depository: MNHN.
Distribution: Taiwan, China and Vietnam.

Cyphonocerus taiwanus Nakane, 1967 臺灣雙櫛角螢
Cyphonocerus taiwanus Nakane, 1967. Bull. Nat. Sci. Mus. Tokyo, 10(1): 8 (Taiwan).
Type locality: TAIWAN: Song-Gang, Nantou County (松崗, 南投縣).
Type depository: CTN.
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Checklist of Lampyridae of Taiwan – Coleoptera: Polyphaga: Lampyridae

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ABSTRACT

Forty-four species of fireflies from Taiwan are inventoried in the checklist. *Pyrocoelia lampyroides* Olivier is transferred to *Diaphanes*; the specific name of *Lamprigera yunnana* gets a mandatory change. Chineses names are proposed for each taxon; type locality, type depository and distribution of each species are also provided.

Key words: Taiwan, Lampyridae, checklist, new combination, type depository.

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