

Three new species of the genus *Smaragdina* from China (Coleoptera: Chrysomelidae)

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Smaragdina volkovitshi sp. n., *S. nigroviolacea* sp. n. and *S. tani* sp. n. from China are described. Figures of aedeagi of new and related species are given. A new name for *Smaragdina minuta* L. Medvedev (non Jacoby) is proposed.

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All types of new species are preserved in the collection of the Zoological Institute, Russian Academy of Sciences, St.Petersburg.

Smaragdina volkovitshi sp. n. (Figs 1-3)

Holotype. ♂, **China**, prov. *Yunnan*, 20 km N Lijiang, 2.VI.2002, M. Volkovitsh leg.

Description. Male. Body small, narrow, 2.26 times as long as broad. Head, pronotum, antennae and legs fulvous, elytra dark metallic green, abdomen and pygidium black with greenish reflection.

Head smooth; vertex with short longitudinal impression; frons near eyes weakly transversely impressed. 3rd antennal segment as long as 4th; 5th segment widened to apex; 6-9th segments wider than long. Pronotum 1.66 times as broad as long, with hind angles rounded, surface shining, extremely finely and sparsely punctured. Elytra 2.77 times as long as pronotum and 1.66 times as long as broad, strongly and confusedly punctate, interspaces not wider than punctures.

Fore tarsi with elongate and dilated 1st segment, triangular 2nd segment, feebly dilated; last segment of tarsi surpasses by a half the lobes of third segment. Aedeagus as in Figs 1-3. Length 3.4 mm (male).

Comparison. The new species is closely related to *S. discolor* Sols. from Middle Asia, but differs from the latter in the black scutellum and shape of aedeagus (Figs 4-6).

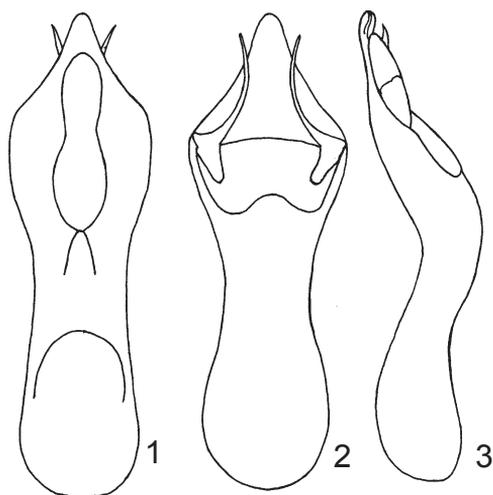
Etymology. The species is named in honour of Dr. M. Volkovitsh who collected many new species of Chrysomelidae in China.

Smaragdina nigroviolacea sp. n.

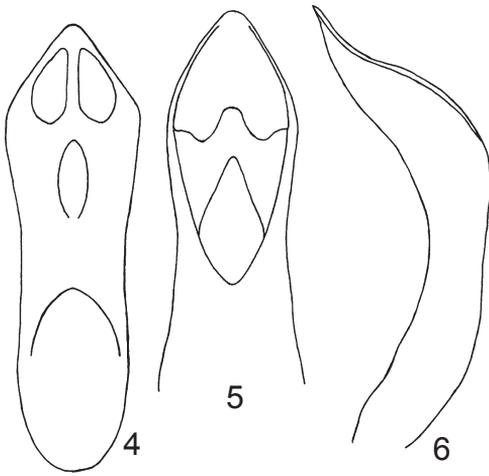
Holotype. ♀, **China**, prov. *Yunnan*, 17-20 km of the road Xiagun-Dacang, 1821-1900 m, 9.VI.2002, Konstantinov & Volkovitsh leg.

Description. Female. Body elongate, 2.27 times as long as broad. Head, antennae, scutellum and lower part of body black; pronotum fulvous with broad parallel-sided central stripe black; elytra dark violet; legs fulvous with tarsi weakly darkened.

Head smooth, with extremely fine and sparse punctures; frons with feeble impressions between eyes. Antenna short; 1st segment thick,



Figs 1-3. *Smaragdina volkovitshi* sp. n. Aedeagus from below (1), from above (2) and lateral (3).



Figs 4-6. *Smaragdina discolor* Sols. Aedeagus from below (4), from above (5) and lateral (6).

subglobular, longer than broad; 2nd segment globular; 3rd segment much narrower and longer than 2nd segment; 4th segment broad but not serrate; 5-10th segments serrate, broader than long. Pronotum 2.2 times as broad as long, with hind angles broadly rounded; surface smooth, without any impressions, except a short transverse punctate impression on short basal lobe. Elytra 4 times as long as pronotum and 1.7 times as long as broad, with deep and coarse punctures arranged in closed rows, on apical slope punctures smaller and sparser; intervals much

smaller than diameter of punctures. Lower part of body deeply and coarsely pubescent with golden hairs. Body length 4.0 mm, width at humeri 1.8 mm.

Comparison. The new species closely resembles *S. flavifrons* Gressitt & Kimoto from prov. Sikang (Gressitt & Kimoto, 1961), but differs from it in the black head and antenna and differently coloured elytra (dark violaceous but not greenish blue with purple reflection).

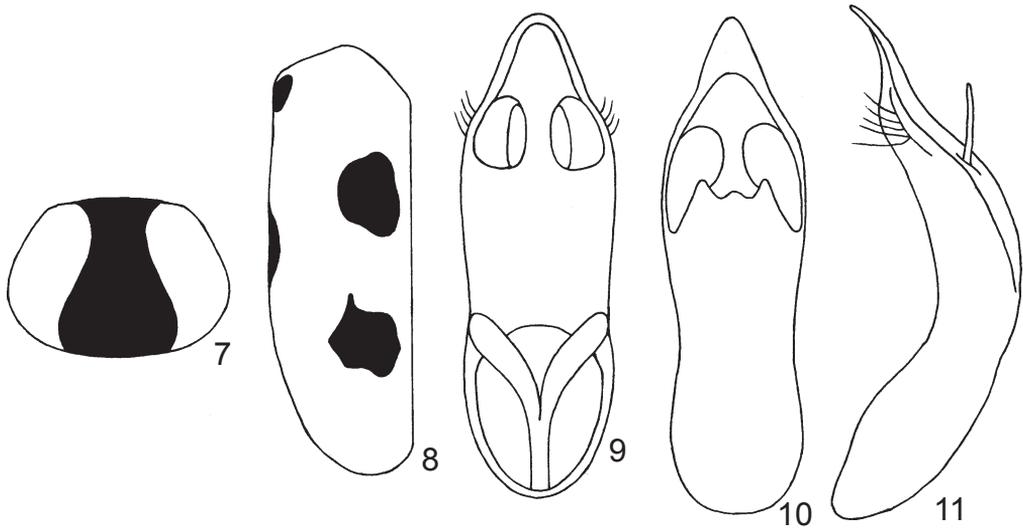
***Smaragdina tani* sp. n.**
(Figs 7-10)

Holotype. ♂, **China**, prov. **Yunnan**, Binchuan Co, 10 km S of Zhouchengzhen, 1500 m, 8.VI.2002, Konstantinov & Volkovitsh leg.

Description. Male. Body black; pronotum and elytra fulvous with black spots (Fig. 7); labrum, palpi, 1st-4th segments of antenna, and legs entirely fulvous. Pronotum with broad dark discal stripe enlarged behind; 4 spots on either elytra pitchy black.

Head smooth; frons between eyes with feeble transverse impression and short hairs near eyes. Antenna short; 4-10th segments distinctly widened to apex, transverse. Pronotum with hind angles broadly rounded, 1.9 times as broad as long, surface smooth. Scutellum coarsely wrinkled.

Elytra 1.56 times as long as broad and 3.2 times as long as pronotum, distinctly and confusedly punctate, with punctures diminishing apically. Pygidium at apex with short emargination. Meso- and metathorax finely rugose. Aedeagus as in Figs 8-10. Length of body 4.8 mm.



Figs 7-11. *Smaragdina tani* sp. n. Pattern of pronotum (7) and elytra (8), aedeagus from below (9), from above (10) and lateral (11).

Comparison. The new species differs from *S. nigrosignatus* Pic from Fujian in the lack of two oblique subbasal and 2 postmedian transverse spots.

Etymology. The new species is dedicated to the famous Chinese expert on Chrysomelidae Dr. Tan Chuan-chieh.

***Smaragdina levi* nom. n.**

Smaragdina minuta L. Medvedev, 1994: 88, junior homonym of *S. minuta* (Jacoby, 1908).

Acknowledgement

The new species described above were kindly submitted for identification by my friend and colleague M. Volkovitsh (St.Petersburg), whom I thank very much.

References

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- Medvedev, L.N.** 1994. New species of Clytrinae (Coleoptera, Chrysomelidae) from China and Indochina. *Russian Entomol. J.*, **3**(3-4): 87-91.

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