Tabel S1. List of the distribution on Claassenia spp.

Region	Country	Province	Species name
Oriental	Bhutan		C. drukpa (Stark & Sivec, 2010) *
realm			
	Myanmar	E Putao	C. MyA Stark & Gaufin, 1976#
	China	Guangdong	C. bischoffi (Wu, 1935)
		Sichuan	C. caudata (Klapálek, 1916)
		Hubei	C. fulva Wu, 1973
		Sichuan	C. gigas (Klapálek, 1916)
		Sichuan	C. longistyla Wu, 1973
		Fujian, Guangdong,	C. magna Wu, 1948
		Hunan, Guangxi	
		Chongqing, Shaanxi	C. xucheni Chen, 2019
		Guizhou	C. tincta (Navás, 1923)
		Sichuan, Yunnan	C. semibrachyptera Wu & Claassen,
		Gansu,	1934*
Palaearctic		Tibet, Qinghai	C. qingzanga Xiang, Huo & Du*
		Shaanxi	C. shaanxiensis sp. nov.
		Liaoning, Jilin	C. radiata (Klapálek, 1916)
		Heilongjiang	C. brachyptera Brinck, 1954*
	Russia	Far East	C. brachyptera Brinck, 1954*
	North Korea		C. radiata (Klapálek, 1916)
Nearctic	USA		C. sabulosa (Banks, 1900) *
	Canada		C. sabulosa (Banks, 1900) *

^{*} Brachypterous species

Tabel S2. List of downloaded data with accession number from NCBI and EMBL.

Family	Subfamily	Species	GenBank	EMBL-EBI
			Accession Number	ID
Perlidae	Perlinae	Claassenia xucheni	OK021653	URS00019BE0
				8C_2898275
		Claassenia magna	OK012602	URS000278DB
				CC_3049377
		Claassenia qingzanga	MN419914	URS000273A6
				8F_3049376
		Neoperla ignacsiveci	KX091858	URS00019CC5
				3F_2021294
		Neoperla clymene	JN200655	URS00004D84
				F4_466750
		Neoperla sp. FS-2017	KX091859	URS00019E3E
				7A_2021305
		Dinocras cephalotes	KF484757	URS000056F7

[#] Informally described and supported species

				D8_441509
		Oyamia seminigra	OL505578	URS000010FD
				30_1268355
		Togoperla sp. KW-2014	KM409708	URS0000A6C3
				09_1562207
		Neoperlops gressitti	MN400756	URS0001A05F
				81_2684670
	Acroneuriinae	Acroneuria carolinensis	MN969989	URS00022417
				62_219317
		Acroneuria hainana	KM199685	URS00007F74
				29_1571577
Styloperlidae		Styloperla spinicercia	NC_034809	URS0000DDE
				D98_1987586

Table S3. Location coordinates of Claassenia from GBIF and literatures.

claassenia	102.0208	37.3125
		31.3123
claassenia	102.2292	29.9375
claassenia	102.8125	30.35417
claassenia	103.0625	30.02083
claassenia	103.4375	29.5625
claassenia	103.6458	30.97917
claassenia	103.7708	29.5625
claassenia	103.8542	30.0625
claassenia	103.8542	36.0625
claassenia	103.8958	27.77083
claassenia	104.0625	30.6875
claassenia	104.1458	30.8125
claassenia	104.6458	28.77083
claassenia	105.2292	32.5625
claassenia	105.6042	30.52083
claassenia	106.2708	32.85417
claassenia	106.5625	31.0625
claassenia	107.7708	34.10417
claassenia	107.8958	31.10417
claassenia	108.3542	23.47917
claassenia	108.5208	31.89583
claassenia	108.6875	31.9375
claassenia	109.0625	23.4375
claassenia	110.1875	24.14583
claassenia	110.2292	24.1875
claassenia	110.9792	30.39583

claassenia	111.0208	26.39583
claassenia	112.3125	25.5625
claassenia	112.8958	24.97917
claassenia	113.0208	24.9375
claassenia	113.2708	23.14583
claassenia	117.4792	27.35417
claassenia	117.6875	27.72917
claassenia	118.0208	27.77083
claassenia	119.3125	26.10417
claassenia	122.3542	53.47917
claassenia	124.4375	40.1875
claassenia	125.3958	43.85417
claassenia	126.5625	43.85417
claassenia	97.85417	29.6875
claassenia	98.60417	29.6875
claassenia	99.1875	25.10417
claassenia	99.5625	25.47917
claassenia	99.60417	24.85417
		1