

Checklist of vascular wall plants in Albania

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Abstract

This checklist summarizes the actual knowledge about vascular plants growing on walls in Albania. The list contains some 229 species. This number contradicts however to the huge number of walls and also to the high number of species in Albania. Therefor this list will first of all encourage further investigations.

Introduction

Walls can be understood as rocky ecosystems. An important difference to natural ecosystems is the mostly smaller area. This leads to a stronger influence of spreading and preadapted species of the surroundings on the species combination of the wall joints compared to natural systems.

Building up of walls was developed within the last ten millenniums by different cultures all over the world (Mediterranean, Middle East, China, India, Central and South America) presumably independent from each other. Walls permit the permanent terracing of wine yards and farm land and the building and fortification of cities in a high extent. The city wall of Jerichow (approx. 7.000 BC) is considered to be the oldest one. The biggest wall is obviously the Great Wall of China with a whole length of about 21.000 km; the main wall of it extends to 2.400 km. The Great Wall of China and the roman fortifications Limes and Hadrian`s Wall belong to the UNESCO world heritage site. Within the Central European man-made environment walls became more and more important since the last 2000 years. Depending on the material used, the age the surrounding and the state of preservation walls offer numerous micro habitats and following biotopes for a lot of organisms.

The earliest investigations of the flora of walls was published in 1643: a catalogue of plants which were found in the ruins and wall joints of the amphitheatre of Rome (PANAROLI 1683). This means the amphitheatre is the oldest area of continuous observation in our cities and probably one of the oldest at all. The observations and investigations are still lasting (CANEVA 2004). They are essential to document the Global Change and the Climate Warming on a local level. By the way the scientific investigation of the living space city and the ecosystem city started with studying the flora of ancient walls in the Mediterranean. Summaries of our knowledge on vascular plants on walls are given by Segal (1969) and by BRANDES (1992 and 2013).

State of the art in Albania

In Albania walls are investigated only scarcely till now. 2010 first notices from walls in Berat, Butrinti, Durrës, Gjirokastër, Grujë, Saranda, Vlorë were published by BRANDES. Because the Distribution atlas of vascular plants in Albania (BARINA 2017) reports for each species also its important growing (micro)

habitats it was possible to prepare the list of plants growing on walls. In 2021 the wall flora of the fortification Elbasan was published by GJETA, TITUS & TITUS.

Own excursions in 2023 gave a number of new findings especially in the eastern part of Albania. In the eastern part of Albania mostly nitrophilous species were found, in the western part along the coast to the Adriatic and Ionic Sea Mediterranean species are accumulating.

The checklist of wall plants reflects the actual knowledge and will encourage further investigations. The discussion on the relationship to the surroundings (e.g. BRANDES 2022: Corfu) will follow.

Some genera are represented by two or more species:

Represented by two species:

Alcea, Allium, Avena, Calystegia, Capsella, Cardamine, Conza, Cymbalaria, Erodium, Echium, Galium, Hordeum, Micromeria, Myosotis, Sonchus, Torilis, Urtica, Viola.

Represented by three species:

Asplenium, Parietaria.

Represented by four species:

Lamium, Trifolium, Umbilicus, Verbascum, Veronica.

Represented by five species:

Bromus.

Represented by six species:

Campanula, Fumaria.

Represented by seven species:

Geranium, Sedum.

As mentioned above the flora of the surrounding is reflected by the plants growing in the wall joints and on the wall crown. This includes also numerous woody species. The following woody species were found till now. Further findings are to be expected.

Ailanthus altissima, Alnus glutinosa, Celtis australis, Clematis vitalba, Ephedra phoemina, Ficus carica, Fraxinus ornus, Hedera helix, Laurus nobilis, Nerium oleander, Parthenocissus quinquefolia, Pistacia terebinthus, Platanus orientalis, Quercus coccifera, Prunus dulcis, Prunus mahaleb, Rhus coraria, Rubus fruticosus agg. (pseudophanerophyte), Salix elaeagnos, Vitis vinifera.

Checklist

- Adiantum capillus veneris* L.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Agrostis capillaris* L.: GJETA, TITUS & TITUS (2021).
- Ailanthus altissima* (MILL.) SWINGLE: BRANDES: n.p. (2023).
- Alcea biennis* WINTERL.: BRANDES: n.p. (2023).
- Alcea rosea* L.: BARINA (2017); BRANDES: n.p. (2023).
- Alliaria petiolata* (M. BIEB.) CAVARA & GRANDE: Brandes: n.p. (2023).
- Allium ampeloprasum* L.: GJETA, TITUS & TITUS (2021).
- Allium pallens* L.: BARINA (2017).
- Amaranthus deflexus* L.: BARINA (2017); BRANDES: n.p. (2023).
- Anagallis arvensis* L.: BRANDES (2010); GJETA, TITUS & TITUS (2021).
- Anchusa undulata* L.: BRANDES: n.p. (2023).
- Anchusella cretica* (MILL.) BIGAZZI et al.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Angelica sylvestris* L.: BRANDES: n.p. (2023).
- Anogramma leptophylla* (L.) Kink: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Anthemis arvensis* L.: BRANDES: n.p. (2023).
- Anthemis chia* L.: BRANDES: n.p. (2023).
- Anthriscus caucalis* M. BIEB.: BRANDES: n.p. (2023).
- Antirrhinum majus*: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Apera spica-venti*: GJETA, TITUS & TITUS (2021).
- Arenaria serpyllifolia* agg.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Asplenium ceterach* L. (syn. *Ceterach officinarum*): BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Asplenium onopteris* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Asplenium trichomanes* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Avena barbata* Pott ex Link: BRANDES (2010).
- Avenea sterilis* L.: BARINA (2017); BRANDES: n.p. (2023).
- Ballota nigra* L.: BRANDES: n.p. (2023).
- Bellis annua* L.: BRANDES n.p. (2023).
- Berteroa mutabilis* (Vent.) DC.: BARINA (2017).
- Blackstonia perfoliata* (L.) Huds. :BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Bromus hordeaceus* L.: BRANDES: n.p. (2023).

- Bromus intermedius* GUSS.: BARINA (2017): no recent findings.
- Bromus madritensis* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Bromus rigidus* ROTH: BRANDES: n.p. (2023).
- Bromus sterilis* L.: BRANDES: n.p. (2023).
- Calendula arvensis* L.: BARINA (2017).
- Calystegia sepium* (L.) R. BR.: GJETA, TITUS & TITUS (2021).
- Calystegia sylvatica* (KIT.) GRIESEB.: BRANDES (2010).
- Campanula aureliana* BOGDANOVIĆ, REŠETNIK, BRULLO & SHUKA: BARINA (2017).
- Campanula skanderbegii*: This newly described *Campanula* is obviously very rare: it was found growing only in small rock cavities with northern exposure in the town Grujë (BOGDANOVIĆ, S., I. REŠETNIK, S. BRULLO & L. SHUKA 2015).
- Campanula erinus* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Campanula lingulata* WALDST.: BRANDES: n.p. (2023).
- Campanula patula* L.: GJETA, TITUS & TITUS (2021).
- Campanula ramosissima* SIBTH. & SM: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Campanula versicolor* ANDREWS: BARINA (2017); BRANDES: n.p. (2023).
- Capparis spinosa* L.: BRANDES (2010); BARINA (2017).
- Capsella bursa-pastoris* (L.) Medik.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Capsella grandiflora* (FAUCHÉ & CHAUB.): BRANDES (2010); BRANDES: n.p. (2023).
- Cardamine graeca* L.: BRANDES n.p. (2023).
- Cardamine hirsuta* L.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Carduus pycnocephalus* L.: BRANDES: n.p. (2023).
- Carduus thoermeri*: BRANDES: n.p. (2023).
- Carex divulsa* Stokes: BRANDES: n.p. (2023).
- Catapodium rigidum* (L.) C. E. Hubb [syn. *Desmazeria rigida* (L.) TUTIN]: BRANDES (2010); BRANDES: n.p. (2023).
- Celtis australis* L.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Centranthus longiflorus* Steven: BRANDES (2010); BRANDES: n.p. (2023).
- Centranthus ruber* (L.) DC.: (BARINA (2017).
- Cerastium glomeratum* Thuill.: BRANDES: n.p. (2023).
- Cercis siliquastrum* L.: BRANDES: n.p. (2023).
- Chaerophyllum nodosum* (L.) CRANTZ [syn. *Myrrhoides nodosum* (L.) CANNON]: BRANDES: n.p. (2023).

- Cheilanthes acrostica* (Balb.) Tod., [syn. *Allosorus acrosticus*, syn. *Hemiotis acrostica*]: BARINA (2017); GJETA, TITUS & TITUS (2021).
- Cheilanthes persica* (BORY) METT. ex KUHN: BARINA (2017).
- Chondrilla juncea* L.: BRANDES: n.p. (2023).
- Clematis vitalba* L.: BARINA (2017); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Conium maculatum* L.: BRANDES (2010).
- Convolvulus arvensis* L.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Convolvulus elegantissimus* MILL.: BRANDES (2010).
- Conyza bonariensis* (L.) CRONQ.: BRANDES: n.p. (2023).
- Conyza canadensis* (L.) CRONQ.: GJETA, TITUS & TITUS (2021).
- Crepis rubra* L.: BARINA (2017).
- Crithmum maritimum* L.: BRANDES (2010).
- Cymbalaria microcalyx* (BOISS.) WETTST.: BARINA (2017).
- Cymbalaria muralis* P. GAERTN.: BRANDES (2010); BARINA (2017).
- Cynoglossum officinale* L.: BRANDES n.p. (2023).
- Daucus carota* L.: GJETA, TITUS & TITUS (2021).
- Digitaria ischaemum* (L.) SCOP.: GJETA, TITUS & TITUS (2021).
- Dittrichia viscosa* CASS.: BRANDES (2010).
- Dryopteris villarii* WOYNER ex SCHINZ & THELL.: BRANDES (2010); BRANDES: n.p. (2023).
- Ecballium elaterium* (L.) A. RICHARD: BRANDES (2010).
- Echium plantagineum* L.: BRANDES (2010).
- Ephedra phoemina* FORSSK.: BARINA (2017), BRANDES: n.p. (2023).
- Erodium malacoides* (L.) L'HER.: BRANDES: n.p. (2023).
- Erodium moschatum* (L.) L'HER.: BARINA (2017).
- Eryngium campestre*: BRANDES: n.p. (2023).
- Erysimum cheiri* (L.) [syn. *Cheiranthus cheiri* L.]: BRANDES: n.p. (2023).
- Eupatorium cannabinum* L.: BRANDES: n.p. (2023).
- Euphorbia helioscopia* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Ficus carica* L.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Fraxinus ornus* L. juv.: BRANDES (2010); BARINA (2017).
- Fumaria capreolata* L.: BARINA (2017); BRANDES: n.p. (2023).
- Fumaria densiflora* (DC.) PARL.: BARINA (2017).

- Fumaria flabellata* GASPAR.: BARINA (2017).
- Fumaria judaica* BOISS.: BARINA (2017).
- Fumaria kralikii* JORD.: BARINA (2017).
- Fumaria officinalis* L.: BARINA (2017); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Galium aparine* L.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Galium murale* (L.) ALL.: BARINA (2017).
- Geranium brutium* GASP.: BRANDES (2010); BRANDES: n.p. (2023).
- Geranium dissectum* L.: BRANDES: n.p. (2023).
- Geranium lucidum* L.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Geranium purpureum* VILL.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Geranium pyrenaicum* BURM. f.: BRANDES: n.p. (2023).
- Geranium robertianum* L.: BARINA (2017).
- Geranium rotundifolium* L.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Geum urbanum* L.: BRANDES: n.p. (2023).
- Glaucium flavum* CRANTZ: BRANDES (2010).
- Hedera helix* L.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Hirschfeldia incana* (L.) LAGR.-FOSS.: BRANDES (2010).
- Hordeum leporinum* (LINK) ARCANGELI: BRANDES: n.p. (2023).
- Hordeum murinum* L.: BARINA (2017); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Hyoscyamus albus* L.: BRANDES (2010); BARINA (2017): western parts of Albania.
- Hypericum perforatum* L.: GJETA, TITUS & TITUS (2021).
- Inula verbascifolia* (WILLD.) HAUSSKN.: BRANDES (2010).
- Ipomoea purpurea* ROTH: BRANDES: n.p. (2023).
- Jacobaea maritima* (L.) PELSER & MEIJDEN: BRANDES (2010).
- Lactuca serriola* L.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Lagurus ovatus* L.: BRANDES (2010).
- Lamium amplexicaule* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Lamium garganicum* L.: BRANDES: n.p. (2023).
- Lamium maculatum* L.: BRANDES: n.p. (2023).
- Lamium purpureum* L.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023)
- Lapsana communis* L.: BRANDES: n.p. (2023).

- Laurus nobilis* L. juv.: BRANDES: n.p. (2023).
- Lepidium graminifolium* L.: BARINA (2017).
- Lophochloa cristata* (L.) HYL.: BRANDES (2010); BRANDES: n.p. (2023).
- Malcolmia maritima* (L.) R. BR.: BARINA (2017).
- Malva sylvestris* L.: BRANDES: n.p. (2023).
- Matricaria chamomilla* L. [syn. *Chamomilla recutita*]: BRANDES (2010); BRANDES: n.p. (2023).
- Mercurialis annua* L.: BRANDES (2010); BARINA (2017); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Micromeria graeca* (L.) BENTH. ex RCHB.: BRANDES (2010); BRANDES: n.p. (2023).
- Micromeria julianae* (L.) BENTH. ex RCHB.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Mycelis muralis* (L.) Dumort., BRANDES: n.p. (2023).
- Myosotis arvensis* (L.) Hill: BRANDES n.p. (2023).
- Myosotis ramosissima* ROCHEL: BRANDES (2010).
- Nerium oleander* L. juv.: BRANDES: n.p. (2023).
- Opopanax hispidus* (FRIV.) GRISEB.: BARINA (2017).
- Oxalis corniculata* L.: BRANDES (2010); BARINA (2017); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Oxalis stricta* L.: BARINA (2017).
- Pallenis spinosa* (L.) CASS.: BRANDES: n.p. (2023).
- Papaver rhoeas* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Parietaria judaica* L.: BRANDES (2010); BARINA (2017); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Parietaria lusitanica* L.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Parietaria officinalis* L.: BRANDES: n.p. (2023).
- Parthenocissus quinquefolia* (L.) PLANCHON: BRANDES: n.p. (2023).
- Petasites hybridus* (L.) P. GAERTN., B. MEY. & SCHERB.: BRANDES: n.p. (2023).
- Phagnalon rupestre* (L.) DC. subsp. *graecum* (BOISS. & HELDR.) BATT.: BRANDES (2010), BRANDES: n.p. (2023).
- Phlomis fruticosa* L.: BRANDES (2010).
- Phoenix canariensis* H. WILDPRET: BRANDES (2010).
- Pistacia terebinthus* L.: BRANDES (2010; BARINA (2017).
- Platanus orientalis* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Plumbago europaea*: BARINA (2017).

- Poa annua* L.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023)
- Poa bulbosa* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Polycarpon tetraphyllum* (L.) L.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Polypodium cambricum* L.: BRANDES (2010); BARINA (2017).
- Potentilla reptans* L.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Primula vulgaris* HUDS.: BRANDES: n.p. (2023).
- Prunella vulgaris* L.: BRANDES: n.p. (2023).
- Prunus dulcis* (MILL.) D. A. WEBB juv.: BARINA (2017).
- Prunus mahaleb* L. juv.: BRANDES: n.p. (2023).
- Pseudofumaria alba* (MILL.) LIDÉN: BRANDES: n.p. (2023).
- Quercus coccifera* L. juv.: BRANDES (2010).
- Rapistrum rugosum* (L.) ALL.: BRANDES: n.p. (2023).
- Reichardia picroides* (L.) ROTH: BARINA (2017); BRANDES: n.p. (2023).
- Reseda alba* L.: BARINA (2017).
- Reseda lutea* L.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Rhagadiolus stellatus* (L.) GAERTN.: BARINA (2017).
- Rhus coraria* L.: BRANDES: n.p. (2023).
- Rostraria cristata* (L.) TZVELEV: BRANDES (2010); BRANDES: n.p. (2023).
- Rubus sanctus* SCHREB.: BRANDES: n.p. (2023).
- Rumex pulcher* L.: BRANDES: n.p. (2023).
- Sagina subulata* (SW.) C. PRESL: BARINA (2017).
- Salvia verbenaca* L.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Sambucus ebulus* L.: BRANDES: n.p. (2023).
- Sanguisorba minor* SCOP.: GJETA, TITUS & TITUS (2021).
- Saxifraga tridactylites* L.: BRANDES (2010); BARINA (2017), BRANDES: n.p. (2023).
- Scrophularia peregrina* L.: BRANDES (2010).
- Securigera securidaca* (L.) DEGEN & DÖRFL. (syn. *Coronilla securidaca* L.): BRANDES: n.p. (2023).
- Sedum acre* L.: GJETA, TITUS & TITUS (2021).
- Sedum cepaea* L.: BRANDES: n.p. (2023).
- Sedum dasyphyllum* L.: BRANDES (2010); BRANDES: n.p. (2023).
- Sedum hispanicum* L.: BRANDES (2010); BRANDES: n.p. (2023).

- Sedum litoreum* GUSS.: BARINA (2017).
- Sedum ochroleucum* CHAIX: BRANDES (2010).
- Sedum palmeri* S. WATSON: BRANDES: n.p. (2023).
- Selaginella denticulata* (L.) SPRING: BRANDES (2010).
- Senecio vulgaris* L.: GJETA, TITUS & TITUS (2021).
- Sisymbrium officinale* (L.) SCOP.: BRANDES (2010); BRANDES: n.p. (2023).
- Smilax aspera* L.: BRANDES (2010).
- Solanum nigrum* L.: BRANDES: n.p. (2023).
- Sonchus asper* (L.) HILL: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Sonchus oleraceus* L.: BRANDES 2010, BRANDES: n.p. (2023).
- Sorghum halepense* (L.) PERS.: BRANDES (2010).
- Spartium junceum* L.: BRANDES (2010).
- Stachys recta* agg.: GJETA, TITUS & TITUS (2021).
- Stellaria media* (L.) VILL.: BRANDES (2010); GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Symphotrichum squamatum* (SPRENG.) G. L. NESOM: BRANDES (2010); BRANDES: n.p. (2023).
- Symphytum ottomanum* FRIV.: BRANDES: n.p. (2023).
- Tanacetum parthenium* (L.) SCH. BIP.: BRANDES: n.p. (2023).
- Taraxacum officinale* agg.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).
- Thelygonum cynocrambe* L.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Thymus longicaulis* C. PRESL: GJETA, TITUS & TITUS (2021).
- Tordylium apulum* L.: BRANDES: n.p. (2023).
- Torilis arvensis* (HUDS.) LINK: BRANDES: n.p. (2023).
- Torilis japonica* (HOUTT.) DC.: BRANDES: n.p. (2023).
- Trifolium campestre* SCHREB.: BRANDES (2010), BRANDES: n.p. (2023).
- Trifolium dubium* SIBTH.: GJETA, TITUS & TITUS (2021).
- Trifolium nigrescens* VIV.: BRANDES: n.p. (2023).
- Trifolium repens* L.: GJETA, TITUS & TITUS (2021).
- Umbilicus chloranthus* HELDR. & SART. EX BOISS.: BRANDES (2010); BARINA (2017); BRANDES: n.p. (2023).
- Umbilicus erectus* DC.: BARINA (2017).
- Umbilicus horizontalis* (GUSS.) DC.: BARINA (2017).
- Umbilicus rupestris* (Salisb.) Dandy: BRANDES (2010); BARINA (2017); GJETA, TITUS & TITUS (2021); : n.p. (2023).

Urospermum picroides (L.) SCOP.ex F. W. SCHMIDT: BRANDES (2010); BRANDES: n.p. (2023).

Urtica dioica L.: GJETA, TITUS & TITUS (2021); BRANDES: n.p. (2023).

Urtica pilulifera L.: BARINA (2017).

Valantia muralis L.: BRANDES (2010); BRANDES: n.p. (2023).

Verbascum cf. *niveum* TEN.: BRANDES (2010).

Verbascum pulverulentum VILL.: BRANDES (2010); BRANDES: n.p. (2023).

Verbascum sinuatum L.: BRANDES (2010).

Verbascum thapsus L.: GJETA, TITUS & TITUS (2021).

Verbena officinalis L.: BRANDES (2010).

Veronica arvensis L.: BRANDES (2010); BRANDES: n.p. (2023).

Veronica glauca SIBTH. & SM.: BARINA (2017).

Veronica hederifolia L.: BARINA (2017).

Veronica persica POIR.: BRANDES (2010); GJETA, TITUS & TITUS (2021).

Vicia grandiflora SCOP.: BRANDES: n.p. (2023).

Viola cf. *riviniana* RCHB.: BRANDES: n.p. (2023).

Viola odorata L.: GJETA, TITUS & TITUS (2021).

Vitis vinifera L.: BRANDES (2010), BRANDES: n.p. (2023).

Zusammenfassung: Checkliste der Gefäßpflanzen auf Mauern in Albanien (1. Version Februar 2024)

Die vorliegende Checkliste fasst die derzeitigen Kenntnisse über das Vorkommen von Gefäßpflanzen auf Mauern in Albanien zusammen. Die Liste dokumentiert ca. 229 Arten, was jedoch zu einem krassen Missverhältnis sowohl zur großen Anzahl von Mauern als auch zur hohen Artenzahl von Gefäßpflanzen in Albanien steht. Somit soll diese Liste vor allem zu weiteren Forschungen anregen.

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Antirrhinum majus (Berat Castle 2010)



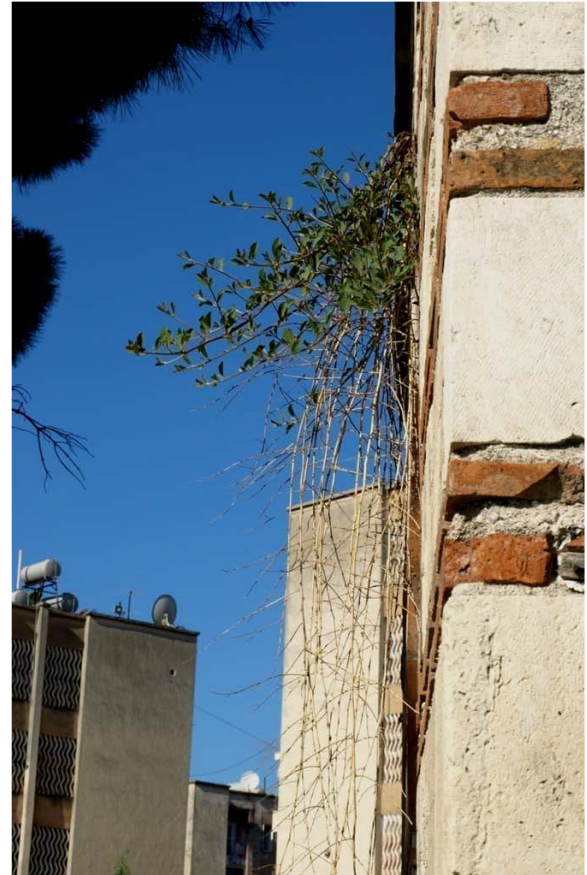
Anogramma leptophylla, *Blackstonia perfoliata*, *Campanula erinus* and *Paritetaria lusitanica* (Butrinti 2010)



Campanula erinus (Berat Castle 2010)



Cardamine graeca (Gorge of river Vjosa 2023)



Capparis spinosa (Vlorë 2010).



Chaerophyllum nodosum picked from a crevice of a retaining wall and draped for getting a better picture
(Gorge of river Vjosa 2023)



Crithmum maritimum (Saranda 2010)



Cymbalaria muralis and *Parietaria judaica*
(Durrës 2010)



Dryopteris cf. *villarii*
(Gorge of river Vjosa 2023)



Ecballium elaterium at a wall base (Borsh 2010)



Geranium brutium (syn. *Geranium molle* subsp. *brutium*) (Berat 2010).



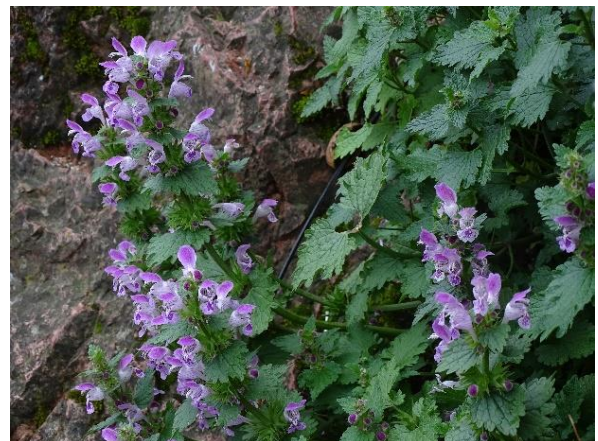
Geranium lucidum (Lin (Lake Ohrid) 2023)



Geranium purpureum (Lin (Lake Ohrid) 2023)



Hyoscyamus albus (Durrës 2010)



Lamium garganicum (Lin (Lake Ohrid) 2023)



Melissa officinalis (Gorge of river Vjosa 2023)



Myosotis arvensis (Gorge of river Vjosa 2023)



Parietaria judaica (Berat Castle 2010)



Pistacia lentiscus juv. (Butrinti 2010)



Securigera securidaca (Butrinti 2023)



Pseudofumaria alba (Grujë 2010)



Saxifraga tridactylites
(Top of a retaining wall near Korçe 2023)



Sedum cepaea and *Asplenium trichomanes*
(Gorge of river Vjosa 2023)



Sedum dasyphyllum (Berat castle 2010).



Selaginella denticulata (Butrinti 2010).



Symphytum ottomanum (Gorge of the river Vjosa 2023)



Thelygonum cynocrambe (Butrinti 2023)



Trifolium campestre (Butrinti 2023)



Umbilicus chloranthus and *Parietaria lusitanica*



Umbilicus rupestris (Berat Castle 2010)



Urospermum picroides (Borsh 2010)



Vicia grandiflora (Gorge of river Vjosa 2023)



Torilis japonica, *Geranium lucidum* and *Umbilicus rupestris*
(Gorge of river Vjosa 2023).

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