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Preliminary catalogue of lichenized and lichenicolous fungi of Mediterranean Turkey

Abstract

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This paper contains a complete list of lichenized and lichenicolous fungi of the Mediterranean part of Turkey. This area was delimited on the basis of the administrative subdivision of the Country, taking into account all provinces adjoining the Mediterranean Sea, including the Egean region, plus some adjoining provinces with a quasi-Mediterranean climate. The checklist, which is mainly based on literature records, includes 459 infrageneric taxa, belonging to 128 genera. For each infrageneric taxon the following data are provided: name and basonym with their references, literature records for the eleven provinces, and herbarium references, when no literature citation is available.

Introduction

In 1989 a Lichen Commission within the International Organization for the Phyto-Taxonomical Investigation of the Mediterranean Area (O.P.T.I.M.A.) was created, with the aim of compiling a checklist of Mediterranean lichens. It soon was obvious that the first step would have been the compilation of regional checklists. These should not only focus on a bare enumeration of lichen taxa (Esslinger & Egan 1995, McCarthy 1991, Purvis & al. 1993, Wirth 1994) but should also provide more detailed information, as exemplarily demonstrated by Nimis (1993) in his "Annotated Catalogue" of the lichens of Italy.

A complete, annotated Check-List of all Turkish lichens cannot be produced in a short time, due to taxonomic problems, as well as difficulties in locating collecting sites in Turkey. However, an uncommented list of lichen taxa for all Turkey is in preparation. Furthermore, some biogeographical regions in Turkey are so different from its Mediterranean parts, that it has not much sense to include them in a checklist of Mediterranean lichens.

This paper presents a checklist restricted to that part of Turkey generally considered as belonging to the Mediterranean region. Of course, as all checklists, also this one should be considered as a preliminary work. The checklist is primarily based on literature records, but sometimes also unpublished identifications of herbarium material, especially by several specialists, are included.

459 infrageneric taxa, belonging to 128 genera are listed.

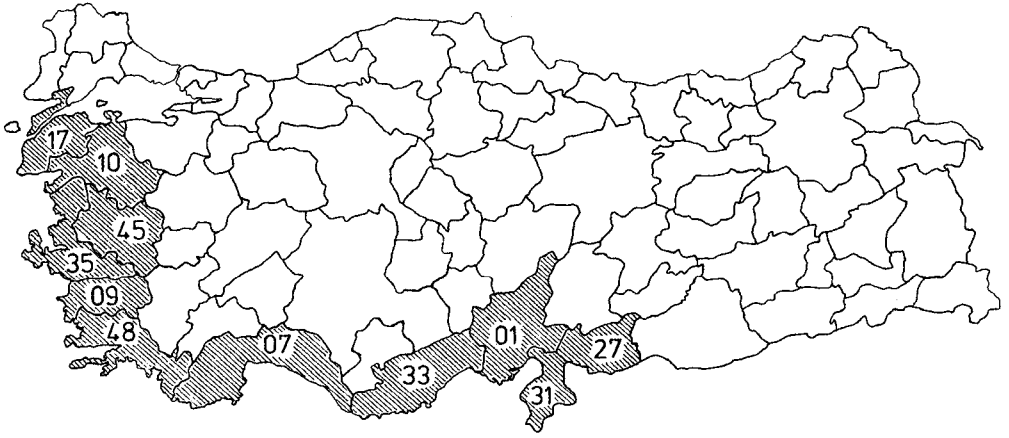


Fig. 1. Delimitation of the Mediterranean part of Turkey by means of administrative divisions (provinces). 01: Adana, 07: Antalya, 09: Aydın, 10: Balıkesir, 17: Çanakkale, 27: Gaziantep, 31: Hatay, 33: İçel, 35 İzmir, 45:Manisa,48: Muğla.



Fig. 2. Historical subdivisions of the Mediterranean part of Turkey: I: Mysia, II: Lydia, III: Caria, IV: Lycia, V: Pisidia, VI: Pamphylia, VII: Isauria, VIII: Cilicia, IX: Cilician plain, X: Amanus.



Fig. 3. Delimitation of the study area by means of mediterranean sclerophyll forest.

Table 1. Nr of species in the 11 provinces of Mediterranean Turkey.

Number of Province	Name of Province	Number of species	Area of the Province (km ²)
01	Adana	45	17 252.67
07	Antalya	117	20 590.67
09	Aydın	83	8 011.00
10	Balıkesir	113	14 528.14
17	Çanakkale	72	9 736.90
27	Gaziantep	61	7 641.70
31	Hatay	234	5 402.61
33	İçel	25	15 852.59
35	İzmir	99	11 973.00
45	Manisa	9	13 809.78
48	Muğla	143	13 338.29

Delimitation of the area

For the delimitation of the study area the provinces (Turkish: İl, plural: İller) as administrative divisions of Turkey were chosen. This delimitation corresponds well with some cultural and historical, as well as geographic and climatic features. The provinces adjoining the Mediterranean sea, including the Egean region, were taken into account, with exception of the province Edirne, a part of Turkey in Europe, which has no typical Mediterranean climate. In addition, we included the provinces of Manisa, connecting Balıkesir, İzmir and Aydın, the province of Gaziantep, connected to Adana and Hatay. Thus, the following provinces (İller) have been accepted as representative for the Mediterranean area of Turkey (Fig. 1): 01: Adana, 07: Antalya, 09: Aydın, 10: Balıkesir, 17: Çanakkale, 27: Gaziantep, 31: Hatay, 33: İçel, 35 İzmir, 45: Manisa, 48: Muğla

This area is nearly identical with the old historical divisions within Turkey, as follows (from north to south and from west to east): Mysia, Lydia, Caria, Lycia, Pisidia, Pamphylia, Isauria, Cilicia, Cilician plain and Amanus (Fig. 2).

The area thus delimited is mostly characterised by Mediterranean sclerophyllous forest (Fig. 3) as defined in Mayer & Aksoy (1986).

Table 1 reports, for each administrative subdivision, the number of hitherto known species.

Materials and Methods

The list is based on published literature referring to lichens collected in Turkey, as summarized in John (1992, 1995), and particularly on herbarium material in ANK, ISTE, IZEF, M, W (for abbreviations see Holmgren & al. 1990) and the private herbaria G. Ernst, Hamburg, V. John, Bad Dürkheim and G. Rambold, München. Unpublished records were provided in letters by A. Aptroot, Son, O. Breuß, Wien, I. Pisut, Bratislava and H. Sipman, Berlin.

Genera and species are listed alphabetically. For each infrageneric taxon the following data are provided: name and basionym with their references, literature records for the 11 provinces, designated by their numbers, as in Fig. 1, and herbarium references, when no literature citation is available. The provinces are arranged in numerical sequence. Within each province, literature and herbarium records are listed in alphabetical order, those of the same author in chronological order.

Authors' names follow Brummitt & Powell (1994).

List of taxa

Abrothallus parmeliarum (Sommerf.) Arnold, Flora, 57: 103 (1874) – *Lecidea parmeliarum* Sommerf., Suppl. Fl. Lapon.: 176 (1826).

33 (Kotschy 1858: 400 as *A. smithii* Körb.).

Acarospora epithallina H. Magn., K. Sv. Vetensk.-Akad. Handl., ser 3, 7, 4: 72 (1929).

09 (Huneck & al. 1992: 174; Nimis & John 1996), 35 (Huneck & John 1987: 490).

Acarospora fuscata (Nyl.) Arnold, Verh. zool.-bot. Ges. Wien 19: 279 (1869) – *Lecanora fuscata* Nyl., Not. Sällsk. F. Fl. Fenn. Förh. 8: 138 (1882).

07 (Nimis & John 1996), 48 (Nimis & John 1996).

Acarospora gallica H. Magn., K. Sv. Vetensk.-Akad. Handl. sér. 3, 7, 4: 282 (1929).

31 (John & Nimis 1997).

Acarospora glaucocarpa (Ach.) Körb., Parerga Lichenol.: 57 (1859) – *Parmelia glaucocarpa* Ach., Meth. Lich.: 182 (1803).

07 (Nimis & John 1996), 27 (Nimis & John 1996).

Acarospora hiliaris (Dufour) Hue, Lich. Morph. Anat.: 113 (1909) – *Parmelia hiliaris* Dufour, Lich. Scand., 1: 209 (1871).

09 (Huneck & al. 1992: 174, 177; John 1992: 4; 1995; Nimis & John 1996), 10 (John 1995), 17 (Huneck & John 1987: 490; John 1992: 4; 1995; Nimis & John 1996), 35 (Güner & Özdemir 1986: 376; Huneck & John 1984: 370; 1987: 490; Huneck & al. 1992: 174, 177; John 1992: 4; 1995; Mies 1992: 5), 48 (Huneck & John 1987: 492; John 1992: 4; 1995).

Acrocordia gemmata (Ach.) A. Massal., Geneac. Lich.: 17 (1854) – *Lichen gemmatus* Ach., Lich. Suec. Prodr.: 17 (1799).

31 (John & Nimis 1997).

Agonimia tristicula (Nyl.) Zahlbr., Österr. bot. Z. 59: 351 (1909) – *Verrucaria tristicula* Nyl., Flora 48: 356 (1865).

48 (Nimis & John 1996).

Amandinea punctata (Hoffm.) Coppins & Scheid., Lichenologist 25: 343 (1993) – *Verrucaria punctata* Hoffm., Deutschl. Flora: 192 (1796).

10 (Çetin 1992: 22 as *Buellia punctata* (Hoffm.) A. Massal.); 31 (John & Nimis 1997).

Amygdalaria pelobotryon (Wahlenb.) Norman, Nyt Mag. Naturvid. 7: 230 (1853) – *Urceolaria pelobotryon* Wahlenb. in Ach., Meth. Suppl. 31 (1803).

33 (Kotschy 1858: 400 as *Urceolaria pelobotrya*).

Anaptychia ciliaris (L.) Körb. ex A. Massal., Mem. Lichenogr.: 35 (1853) – *Lichen ciliaris* L., Sp. Pl., 2: 1144 (1753).

07 (Ayaşlıgil 1987: 196; John 1992: 4, 14), 09 (John 1992: 4, 14), 10 (Çetin 1992: 20; John 1992: 4, 14), 17 (John 1992: 4, 14; Nimis & John 1996), 27 (Nimis & John 1996), 31 (John 1992: 4, 14; John & Nimis 1997), 45 (John 1992: 4, 14), 48 (John 1992: 4, 14; Nimis & John 1996).

Anaptychia runcinata (With.) J. R. Laundon, Lichenologist 16: 225 (1984) – *Lichen runcinatus* With., Bot. Arrang. Veget. Gr. Brit.: 712 (1776).

09 (Nimis & John 1996), 17 (John 1992: 5, 15; Nimis & John 1996), 35 (John 1992: 5, 15; Lumbsch & Feige 1992 a: 6, 1992 b: 474), 48 (John 1992: 5, 15).

Anaptychia setifera Mereschk. ex Räsänen, Ann. Acad. Sci. Fenn., ser. A, XXXIV, 4: 123 (1931).

48 (Mies 1992: 5 as *A. kaspica*).

Arthonia endlicheri (Garov.) Oxner, Flora Lich. Ukraini 1: 284 (1956) – *Opegrapha endlicheri* Garov., Lich. Prov. Com. 1: 4 (1837).

31 (John & Nimis 1997).

Arthonia radiata (Pers.) Ach., K. Sv. Vetensk.-Akad. Handl.: 131 (1808) – *Opegrapha*

radiata Pers., Usteri's N. Ann. Bot. 1: 29 (1794).

31 (John & Nimis 1997).

Arthonia varians (Davies) Nyl., Lichenes Scand.: 260 (1861) – *Lichen varians* Davies, Transact. Linn. Soc. Bot. 2: 284 (1794).

17 (Nimis & John 1996), **27** (Nimis & John 1996), **31** (John & Nimis 1997).

Aspicilia caesiocinerea (Malbr.) Arnold, Verh. zool.-bot. Ges. Wien 34: 67 (1886) – *Lecanora caesiocinerea* Nyl. ex Malbr., Lich. Normandie: 320 (1870).

01 (Nimis & John 1996), **09** (Nimis & John 1996), **31** (John & Nimis 1997).

Aspicilia calcarea (L.) Mudd, Man. Brit. Lich.: 161, tab. 3, fig. 55 (1861) – *Lichen calcareus* L., Sp. Pl.: 1140 (1753).

01 (Nimis & John 1996), **07** (Nimis & John 1996), **27** (Nimis & John 1996), **31** (John & Nimis 1997), **48** (Nimis & John 1996).

Aspicilia cheresina (Müll.Arg.) Hue, Nouv. Archiv. Mus., sér. 5, 2: 9 (1910) – *Lecanora cheresina* Müll. Arg., Rev. Mycol. 2: 75 (1880).

48 (Nimis & John 1996).

Aspicilia cinerea (L.) Körb., Syst. Lich. Germ.: 164 (1855) – *Lichen cinereus* L., Mantissa Pl. I: 132 (1767).

33 (Kotschy 1858: 400).

Aspicilia contorta (Hoffm.) Kremp., Denkschr. Kgl. bayer. bot. Ges. 4,2: 175 (1861) – *Verrucaria contorta* Hoffm., Descr. Adumbr. Pl. Crypt. Lich. 1: 97 (1794).

07 (Nimis & John 1996), **31** (John & Nimis 1997; Steiner 1921: 36), **48** (Nimis & John 1996).

Aspicilia cupreoglauca de Lesd., Bull. Soc. Bot. France 57: 32 (1910).

09 (Nimis & John 1996), **17** (Nimis & John 1996), **27** (Nimis & John 1996), **48** (Nimis & John 1996).

Aspicilia farinosa (Flörke) Arnold, Flora 67: 409 81884) – *Urceolaria calcarea* v. *farinosa* Flörke, Ges. naturf. Fr. Berlin Mag. 4: 125 (1810).

07 (Nimis & John 1996), **27** (Nimis & John 1996), **31** (John & Nimis 1997), **48** (Nimis & John 1996).

Aspicilia ferruginea J.Steiner, Ann. Naturhist. Mus. Wien 34: 43 (1921).

31 (Steiner 1921: 44).

Aspicilia hoffmannii (Ach.) Flagey, Catal. Lich. Algérie: 51 (1896) – *Lichen hoffmannii* Ach., Lichenogr. Suec. Prodrum.: 31 (1798).

07 (Nimis & John 1996), **09** (Nimis & John 1996), **27** (Nimis & John 1996), **31** (John & Nimis 1997).

Aspicilia intermutans (Nyl.) Arnold, Verh. zool.-bot. Ges. Wien 28: 98 (1887) – *Lecanora intermutans* Nyl., Flora 55: 354 (1872).

17 (Nimis & John 1996), **27** (Nimis & John 1996), **35** (Steiner 1916: 3 as *Lecanora* (*Aspicilia*) *intermutans* var. *contortoides* Steiner), **31** (John & Nimis 1997), **48** (Nimis & John 1996).

Aspicilia viridescens (A. Massal.) Kremp. — *Pachyospora viridescens* A. Massal., Ric. Auton. Lich. Crost: 45 (1852).

31 (John & Nimis 1997).

Bacidia beckhausii Körb., Parerga Lichenol.: 134 (1860).

31 (John & Nimis 1997).

Bacidia fraxinea E. J. Lönnr., Flora 41: 612 (1858).

48 (Nimis & John 1996).

Bacidia laurocerasi (Duby) Zahlbr., Vainio ex Zahlbr., Cat. Lich. Univ. 4: 213 (1926) — *Patellaria laurocerasi* Delise ex Duby, Bot. Gall. 2: 653 (1830).

48 (Nimis & John 1996).

Bacidia naegelii (Hepp) Zahlbr., Österr. bot. Z. 59: 439 (1909) — *Biatora naegelii* Hepp, Flecht. Eur.: nr. 19 (1853).

31 (John & Nimis 1997).

Bacidia rosella (Pers.) De Not., Giorn. Bot. Ital. 2, 1, 1: 190 (1846) — *Lichen rosellus* Pers., Usteri's N. Ann. Bot. 1: 25 (1794).

01 (Nimis & John 1996).

Bacidia rubella (Hoffm.) A. Massal., Ric. Auton. Lich. Crost.: 118 (1852) — *Verrucaria rubella* Hoffm., Deutschl. Flora 2: 174 (1795).

31 (John & Nimis 1997).

Bagliettoa cazzae (Zahlbr.) Vezda & Poelt, Bibl. Lichenol. 16: 363 (1981) — *Verrucaria cazzae* Zahlbr., Annal. Mycol. 12: 335 (1914).

07 (Nimis & John 1996).

Bagliettoa parmigera (J. Steiner) Vezda & Poelt, Bibl. Lichenol. 16: 363 (1981) — *Verrucaria parmigera* J. Steiner, Verh. zool.-bot. Ges. Wien 61: 34 (1911).

07 (Nimis & John 1996), 27 (Nimis & John 1996), 31 (John & Nimis 1997), 48 (Nimis & John 1996).

Bagliettoa parmigerella (Zahlbr.) Vezda & Poelt, Bibl. Lichenol. 16: 363 (1981) — *Verrucaria parmigerella* Zahlbr., Österr. bot. Z. 68: 64 (1919).

07 (Nimis & John 1996), 31 (John & Nimis 1997), 48 (Nimis & John 1996).

Bryoria capillaris (Ach.) Brodo & D. Hawksw., Opera Bot. 42: 115 (1977) — *Parmelia jubata* v. *capillaris* Ach., Meth. Lich.: 273 (1803).

10 (Çetin 1992: 20).

Bryoria fuscescens (Gyeln.) Brodo & D. Hawksw., Opera Bot. 42: 83 (1977) — *Alectoria fuscescens* Gyeln., Nyt Mag. Naturvit. 70: 55 (1932).

07 (Ayaşlıgil 1987: 182), 10 (Çetin 1992: 20), 31 (Huneck & al. 1992: 177; John & Nimis 1997), 33 (Kotschy 1858: 399 as *Bryopogon jubatum*).

Buellia badia (Fr.) A. Massal., Mem. Lichenogr.: 124 (1853) — *Lecidea badia* Fr., Syst. Orb. Veget. 1: 287 (1825).

17 (Nimis & John 1996).

Buellia erubescens Arnold, Verh. zool.-bot. Ges. Wien 25: 493 (1873).

31 (Huneck & al. 1992: 178 as *B. zahlbruckneri*; John & Nimis 1997).

Buellia griseovirens (Sm.) Almb., Bot. Notiser 1952: 246 (1952) – *Variolaria griseovirens* Turner & Borrer ex Sm., Engl. Bot. 34, tab. 2400 (1812).

31 (John & Nimis 1997).

Buellia poeltii Schauer, Mitt. Bot. StSamml. München 5: 617 (1965).

10 (Çetin 1992: 21).

Buellia stellulata (Taylor) Mudd, Man. Brit. Lich.: 216 (1861) – *Lichen stellulata* Taylor, Fl. Hibern. 2: 118 (1836).

31 (John & Nimis 1997).

Calicium corynellum (Ach.) Ach., Meth. Lich.: 94, 1803 – *Lichen corynellus* Ach., Lich. Succ. Prodr.: 85, 1799.

48 (Mies 1992: 5).

Calicium viride Pers., Usteri's N. Ann. Bot. 7: 20, 1794.

10 (Çetin 1992: 23).

Caloplaca agardhiana (A. Massal.) Clauzade & Cl. Roux, Bull. Soc. Bot. Centre-Ouest, n. sér., nr. spéc. 7: 229 (1985) – *Pyrenodesmia agardhiana* A. Massal., Atti Ist. Ven. Sc. Lett. Arti 2, 3, app. 3: 120 (1852).

27 (Nimis & John 1996), 31 (John & Nimis 1997).

Caloplaca alociza (A. Massal.) Migula, Kryptogamanfl. Deutschl.: 140 (1925) – *Biatorina alociza* A. Massal., Symmicta Lich.: 42 (1855).

07 (Nimis & John 1996), 27 (Nimis & John 1996), 48 (Nimis & John 1996).

Caloplaca aractina (Fr.) Håyrén, Landveg. Fl. Tvärminne.: 152 (1914) – *Parmelia aractina* Fr., Syst. Orb. Veget.: 284 (1825).

17 (Nimis & John 1996), 31 (John & Nimis 1997).

Caloplaca areolata (Zahlbr.) Clauzade, in Vezda, Sched. ad Lich. Sel. Exs.: nr. 711 (1968) – *Caloplaca cerina* v. *areolata* Zahlbr., Österr. bot. Z. 53: 289 (1903).

10 (Pisut 1970: 380).

Caloplaca aurantia (Pers.) J. Steiner, Sitzungsber. K. Akad. Wiss. Wien, math.-naturw. Kl. 105, 1: 433 (1896) – *Lichen aurantius* Pers., Usteri's N. Ann. Bot. 5: 14 (1794).

01 (Nimis & John 1996), 27 (Nimis & John 1996), 31 (John & Nimis 1997), 48 (Nimis & John 1996).

Caloplaca biatorina (A. Massal.) J. Steiner, Ann. Mycol. 7: 239 (1910) – *Physcia elegans* v. *biatorina* A. Massal., Flora 35: 565 (1852).

17 (Nimis & John 1996).

Caloplaca carphinea (Fr.) Jatta, Sylloge Lich. Ital.: 241 (1900) – *Parmelia carphinea* Fr., Lichenogr. Eur. Ref.: 110 (1831).

31 (Breuss 1989: 588).

Caloplaca cerina (Ehrh. ex Hedw.) Th.Fr., N. Acta Reg. Soc. Sc. Upsal., ser. 3, 3: 218 (1861) – *Lichen cerinus* Ehrh. ex Hedw., Descr. Adumbr. Muscor. Frond.: 2 (1789).

01 (Nimis & John 1996), 10 (Çetin 1992: 23), 31 (John & Nimis 1997), 35 (John 1989a: 195, 1989b: 323).

Caloplaca cerinella (Nyl.) Flagey, Cat. Lich. Alg.: 31 (1896) – *Lecanora cerinella* Nyl., Bull. Soc. Bot. France 13: 370 (1866).

35 (John 1989a: 195, 1989b: 323).

Caloplaca cerinelloides (Erichsen) Poelt, Bestimmungsschl. Eur. Flechten: 172 (1969) – *Caloplaca pyracea* v. *cerinelloides* Erichsen, Verh. bot. Ver. Prov. Brandenburg 72: 35 (1930).

27 (Nimis & John 1996), 31 (John & Nimis 1997).

Caloplaca chalybaea (Fr.) Müll. Arg., Mém. Soc. Phys. Hist. Nat. Geneve 16: 388 (1862) – *Parmelia chalybaea* Fr., Lichenogr. Eur. Ref.: 123 (1831).

07 (Nimis & John 1996), 48 (Nimis & John 1996).

Caloplaca chlorina (Flot.) Sandst., Abhandl. naturw. Ver. Bremen 21: 217 (1912) – *Zeora cerina* v. *chlorina* Flotow, 27. Jahresber. schles. Ges. vaterl. Kultur: 126 (1849).

17 (Nimis & John 1996).

Caloplaca conciliascens (Nyl.) Zahlbr., Cat. Lich. Univ. 7: 109 (1931) – *Lecanora conciliascens* Nyl., Flora 63: 388 (1880).

07 (Nimis & John 1996).

Caloplaca coronata (Körb.) J. Steiner, Verh. zool.-bot. Ges. Wien 69: 71 (1919) – *Callopusia aurantiacum* v. *coronatum* Kremp. ex Körb., Parerga Lichenol.: 66 (1859).

07 (Nimis & John 1996).

Caloplaca crenularia (With.) J. R. Laundon, Lichenologist 16: 231 (1984) – *Lichen crenularius* With., Bot. Arrang. Brit. Pl., ed. 3, 4, 22: 405, tab. 31 fig. 5 (1796).

07 (Nimis & John 1996), 09 (Nimis & John 1996), 17 (Nimis & John 1996), 35 (Steiner 1916: 36 as *C. festiva*), 48 (Nimis & John 1996).

Caloplaca crenulatella (Nyl.) H. Olivier, Mém. Soc. Sc. Nat. Cherbourg 37: 110 (1909) – *Lecanora crenulatella* Nyl., Flora 69: 461 (1886).

09 (Nimis & John 1996), 31 (John & Nimis 1997).

Caloplaca dolomiticola (Hue) Zahlbr., Cat. Lich. Univ. 7: 115 (1931) – *Lecanora dolomiticola* Hue, Annal. Mycol. 13: 83 (1915).

01 (Nimis & John 1996), 27 (Nimis & John 1996), 31 (John & Nimis 1997).

Caloplaca erythrocarpa (Pers.) Zwackh, Flora 45: 487 (1862) – *Patellaria erythrocarpa* Pers., Ann. Wetterauisch. Ges. 2: 12 (1801).

48 (Nimis & John 1996).

Caloplaca ferruginea (Huds.) Th. Fr., N. Acta Reg. Soc. Sc. Ups. ser. 3, 3: 233 (1861) – *Lichen ferrugineus* Huds., Fl. Angl.: 444 (1762).

48 (Nimis & John 1996).

Caloplaca flavescens (Huds.) J. R. Laundon, Lichenologist 16, 1: 53 (1984) – *Lichen flavescens* Huds., Fl. Angl.: 445 (1762).

7 (Nimis & John 1996), 27 (Nimis & John 1996), 31 (John & Nimis 1997), 48 (Nimis & John 1996).

- Caloplaca flavorubescens* (Huds.) J. R. Laundon, Lichenologist 8: 147 (1976) – *Lichen flavorubescens* Huds., Fl. Angl.: 443 (1762).
10 (Çetin 1992: 24), **31** (John & Nimis 1997).
- Caloplaca furax* Egea & Llimona, Coll. Bot. 14: 266 (1983).
01 (Nimis & John 1996).
- Caloplaca furfuracea* H. Magn., Göteborgs Kgl. Vetensk. och Vitterh.-Samh. Handl. 6, ser. B, 3, 1: 33 (1944).
31 (John & Nimis 1997).
- Caloplaca fuscoatroides* J. Steiner, Verh. zool.-bot. Ges. Wien 69: 69 (1919).
09 (Nimis & John 1996), **27** (Nimis & John 1996).
- Caloplaca haematites* (Chaub. ex St.-Amans) Zwackh, Flora 45: 478 (1862) – *Lecanora haematites* Chaub. ex St.-Amans, Fl. Agenaise: 492 (1821).
07 (Nimis & John 1996), **27** (Nimis & John 1996), **31** (John & Nimis 1997), **35** (John 1989a: 195, 1989b: 323), **48** (Nimis & John 1996).
- Caloplaca herbidella* (Hue) H. Magn., Bot. Notiser 1932: 430 (1932) – *Lecidea caesiorufa* f. *herbidella* Hue, Nouv. Arch. Mus. sér. 5, 3 (1911): 151 (1913).
31 (John & Nimis 1997).
- Caloplaca holocarpa* (Ehrh. ex Ach.) Wade, Lichenologist 3: 11 (1965) – *Lichen holocarpus* Ehrh. ex Ach., Lich. Suec. Prodr.: 73 (1799).
10 (Çetin 1992: 25), **35** (John 1989a: 195, 1989b: 323).
- Caloplaca inconnexa* (Nyl.) Zahlbr., Cat. Lich. Univ. 7: 145 (1931) – *Lecanora inconnexa* Nyl., Flora 66: 100 (1883).
07 (Nimis & John 1996), **27** (Nimis & John 1996), **48** (Nimis & John 1996).
- Caloplaca irrubescens* (Arnold) Zahlbr., Verh. zool.-bot. Ges. Wien 48: 365 (1898) – *Callopusma aurantiacum* v. *irrubescens* Arnold, Verh. zool.-bot. Ges. Wien 29: 353 (1879).
01 (Nimis & John 1996), **17** (Nimis & John 1996), **31** (John & Nimis 1997).
- Caloplaca lactea* (A. Massal.) Zahlbr. Österr. Bot. Z. 51: 347 (1901) – *Callopusma luteoalbum* β *lacteam* A. Massal., Sched. Crit. 7: 133 (1855).
31 (John & Nimis 1997).
- Caloplaca marmorata* (Bagl.) Jatta, Sylloge Lich. Ital.: 251 (1900) – *Callopusma marmoratum* Bagl., N. Giorn. Bot. Ital. 11: 84 (1879).
31 (John & Nimis 1997).
- Caloplaca necator* Poelt & Clauzade, Planta 51: 302 (1958).
10 (Pisut 1970: 380).
- Caloplaca ochracea* (Schaer.) Flagey, Mém. Soc. Emul. Doubs: 257 (1886) – *Lecidea ochracea* Schaer., Naturwiss. Anz. 2: 11 (1818).
31 (John & Nimis 1997), **48** (Nimis & John 1996).
- Caloplaca pollinii* (A. Massal.) Jatta, Sylloge Lich. Ital.: 244 (1900) – *Blastenia pollinii* A. Massal., Atti Ist. Ven. Sc. Lett. Arti, ser. 2, 3 app. 3: 111 (1852).
31 (John & Nimis 1997).

Caloplaca polycarpa (A. Massal.) Zahlbr., Österr. bot. Z. 68: 317 (1919) – *Callopisma aurantiacum* v. *polycarpum* A. Massal., Symmicta Lich.: 31 (1855).

07 (Nimis & John 1996), 27 (Nimis & John 1996), 31 (John & Nimis 1997), 48 (Nimis & John 1996).

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Index of synonyms:

Abrothallus smithii Körb. = *A. parmeliarum*

Amphiloma elegans Link = *Xanthoria e.*

Anaptychia fusca (Huds.) Vain. = *A. runcinata*

Anaptychia kaspica Gyeln. = *A. setifera*

Aspicilia radiosa (Hoffm.) Schaer. = *Lobothallia r.*

Bryopogon jubatum L. = *Bryoria fuscescens*

- Buellia alboatra* (Hoffm.) Th.Fr. = *Diplotomma a.*
Buellia canescens (Dicks.) De Not. = *Diploicia c.*
Buellia punctata (Hoffm.) A. Massal. = *Amandinea p.*
Catillaria philippea (Mont.) A. Massal. = *Toninia p.*
Catillaria riparia (Müll.Arg.) Zahlbr. = *Toninia philippea*
Cladonia nylanderii P.Cout. = *C. firma*
Coelocaulon aculeatum (Schreb.) Link = *Cetraria a.*
Endocarpon miniatum L. = *Dermatocarpon m.*
Evernia furfuracea L. = *Pseudevernia f.*
Haematomma lydicum J. Steiner = *H. nemetzii*
Imbricaria acetabulum Neck. = *Pleurosticta a.*
Imbricaria physodes Ach. = *Hypogymnia p.*
Imbricaria tiliacea Ehrh. = *Parmelina t.*
Lecanora lentigera (Weber) Poelt = *Squamarina l.*
Lecidella atrobrunea Ramond = *Lecidea a.*
Lecidella sabuletorum Schreb. = *Mycobilimbia s.*
Parmelia acetabulum (Neck.) Duby = *Pleurosticta a.*
Parmelia caperata (L.) Ach. = *Flavoparmelia c.*
Parmelia conspersa (Ach.) Ach. = *Xanthoparmelia c.*
Parmelia contorta Bory = *P. submontana*
Parmelia exasperata De Not. = *Melanelia e.*
Parmelia exasperatula Nyl. = *Melanelia e.*
Parmelia furfuracea (L.) Ach. = *Pseudevernia f.*
Parmelia glabra (Schaer.) Nyl. = *Melanelia g.*
Parmelia pulla Ach. = *Neofuscelia p.*
Parmelia scorteae (Ach.) Ach. = *Parmelina tiliacea*
Parmelia somloensis Gyeln. = *Xanthoparmelia s.*
Parmelia tiliacea (Hoffm.) Ach. = *Parmelina t.*
Parmelia tinctoria Maheu & A.Gillet = *Xanthoparmelia t.*
Parmelia tubulosa (Schaer.) Bitt. = *Hypogymnia t.*
Placodiella olivacea (Dufour) Szatala = *Solenopsora o.*
Placodium cartilagineum Westr. = *Squamarina c.*
Placodium saxilogum Pollini = *Lecanora muralis*
Roccella fucoides Vain. = *R. phycopsis*
Squamarina crassa (Huds.) Poelt = *S. cartilaginea*
Sticta pulmonacea L. = *Lobaria pulmonaria*
Thalloidima candidum Weber = *Toninia candida*
Toninia coeruleonigricans auct. = *T. sedifolia*
Urceolaria pelobotrya Ach. = *Amygdalaria pelobotryon*
Variolaria discoidea Ach. = *Pertusaria albescens*
Xanthoria aureola (Ach.) Erichsen = *X. calcicola*

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