**Appendix 3.** Provincial chorotypes of *Astragalus* species endemic to Iran.

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| **No** | **Species** | **Provincial chorotypes** |
| 1 | *A. abadehensis* Maassoumi & Podlech | Central Iran |
| 2 | *A. abharensis* Maassoumi & Podlech | Atropatanean |
| 3 | *A. abnormalis* Rech. f. | Kurdo-Zagrosian, Nubo-Sindian |
| 4 | *A. absconditus* Zarre & Podlech. | Central Iran |
| 5 | *A. absentivus* Maassoumi | Atropatanean |
| 6 | *A. adulterianus* Podlech | Kurdo-Zagrosian, Nubo-Sindian |
| 7 | *A. aestimabilis* Podlech | Kurdo-Zagrosian |
| 8 | *A. aestivorum* Podlech | Atropatanean, Hyrcanian |
| 9 | *A. ahangarensis* Zarre & Podlech | Central Iran, N. Khorasan |
| 10 | *A. aharicus* Maassoumi & Podlech | Atropatanean |
| 11 | *A. ahmad-parsai* Maassoumi | Kurdo-Zagrosian |
| 12 | *A. akhanii* Podlech | Nubo-Sindian |
| 13 | *A. alamkuhensis* Maassoumi | Hyrcanian |
| 14 | *A. alamliensis* Rech. f. | Central Iran |
| 15 | *A. alamouticus* Maassoumi & Podlech | Atropatanean, Hyrcanian |
| 16 | *A. alavaanus* Podlech | Central Iran, Atropatanean |
| 17 | *A. albispinus* Sirj. & Bornm. | Central Iran, Kurdo-Zagrosian, Fars-Kerman, N. Baluchistan,Nubo-Sindian,N. Khorasan |
| 18 | *A. aliomranii* Maassoumi | Kurdo-Zagrosian |
| 19 | *A. allectus* Maassoumi | Central Iran, Kurdo-Zagrosian |
| 20 | *A. altimontanus* Podlech & Maassoumi | Atropatanean |
| 21 | *A. altiusculus* Maassoumi & F. Ghahrem. | Atropatanean, Hyrcanian |
| 22 | *A. ammodendroides* Bunge ex Rech. f. | Atropatanean |
| 23 | *A. anacamptus* Bunge | Central Iran, Atropatanean |
| 24 | *A. anguranensis* Podlech & Maassoumi | Atropatanean |
| 25 | *A. anodiophilus* Zarre & Podlech | Kurdo-Zagrosian |
| 26 | *A. anserinaefolius* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman, Nubo-Sindian |
| 27 | *A. arasbaranensis* Maassoumi & Ranjbar | Atropatanean |
| 28 | *A. arbusculinus* Bornm. & Gauba | Nubo-Sindian |
| 29 | *A. archibaldii* Podlech | Kurdo-Zagrosian |
| 30 | *A. ardahalicus* Parsa | Central Iran |
| 31 | *A. argyrostachys* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman  |
| 32 | *A. ashtianensis* Podlech & Maassoumi | Central Iran |
| 33 | *A. askius* Bunge | Central Iran, Atropatanean, Hyrcanian |
| 34 | *A. aspadanus* Bunge | Central Iran, Kurdo-Zagrosian |
| 35 | *A. aspreticola* Podlech | Central Iran |
| 36 | *A. assadabadensis* F. Ghahrem. & Podlech | Kurdo-Zagrosian |
| 37 | *A. assadii* Maassoumi & Podlech | Central Iran, N. Khorasan |
| 38 | *A. atricapillus* Bornm. | Atropatanean, Hyrcanian |
| 39 | *A. atrokurdicus* Maassoumi, F. Ghahrem. & Bagheri & Podlech | Atropatanean |
| 40 | *A. austrokhorasanicus* Podlech | N. Khorasan |
| 41 | *A. austromahneshanensis* F. Ghahrem. Maass.& Bagheri | Atropatanean |
| 42 | *A. austrotaromensis* Maassoumi, F. Ghahrem., Bagheri & Podlech | Atropatanean |
| 43 | *A. avicennicus* Parsa | Central Iran, Kurdo-Zagrosian |
| 44 | *A. azizii* Maassoumi | Atropatanean |
| 45 | *A. aznaicus* Podlech & Maassoumi | Kurdo-Zagrosian |
| 46 | *A. babakhanloui* Maassoumi & Podlech | Central Iran, Kurdo-Zagrosian |
| 47 | *A. badelehensis* Maassoumi & Taheri | Atropatanean |
| 48 | *A. baftensis* Ranjbar & Maassoumi | Fars-Kerman |
| 49 | *A. baharensis* F. Ghahrem. | N. Khorasan |
| 50 | *A. bajgiranensis* Podlech | N. Khorasan |
| 51 | *A. baraftabensis* Maassoumi & Podlech | Central Iran, Fars-Kerman |
| 52 | A*. barnasariformis* Maassoumi, F. Ghahrem. & Bagheri | Atropatanean |
| 53 | *A. bashmaghensis* Maassoumi & Podlech | Atropatanean |
| 54 | *A. bashmensis* Maassoumi | Central Iran |
| 55 | *A. basilicus* Podlech & Maassoumi | Atropatanean, Hyrcanian |
| 56 | *A. bavanatensis* Zarre & Podlech | Fars-Kerman |
| 57 | *A. bavanaticus* Maassoumi Nowroozi & Podlech | Fars-Kerman |
| 58 | *A. bazarganii* Podlech & Zarre | Central Iran, N. Khorasan |
| 59 | *A. bazmanicus* Podlech | Nubo-Sindian |
| 60 | *A. bejourensis* Podlech & Maassoumi | Atropatanean |
| 61 | *A. belgheisicoides* Podlech & Maassoumi | Atropatanean |
| 62 | *A. belgheisicus* Maassoumi | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 63 | *A. biabanensis* Sirj. & Rech. f. | Central Iran, Fars-Kerman, Nubo-Sindian |
| 64 | *A. bijarensis* Podlech & Sytin | Central Iran, Atropatanean |
| 65 | *A. birangae* Maassoumi | Atropatanean |
| 66 | *A. bodeanus* Fischer | Central Iran, Kurdo-Zagrosian |
| 67 | *A. bojnurdensis* Podlech | N. Khorasan |
| 68 | *A. bordschensis* Bornm. | Central Iran |
| 69 | *A. botryophorus* Maassoumi & Podlech | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 70 | *A. bounophilus* Boiss. & Hohen. | Central Iran, Atropatanean, Hyrcanian |
| 71 | *A. bozghoushensis* Maassoumi *et al*. | Atropatanean |
| 72 | *A. brachycalyx* subsp. *eriostylus* (Boiss. & Hausskn.) Zarre | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 73 | *A. brachyodontus* Boiss. | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 74 | *A. bradosticus* Maassoumi & Podlech | Atropatanean |
| 75 | *A. brevicalycinus* Maassoumi | Nubo-Sindian |
| 76 | *A. brevitomentosus* Podlech | Central Iran, Atropatanean |
| 77 | *A. brunsianus* Bornm | Central Iran, Atropatanean |
| 78 | *A. bukanensis* Maassoumi & Podlech | Kurdo-Zagrosian |
| 79 | *A. caespititius* Podlech | Central Iran, Fars-Kerman |
| 80 | *A. callainus* Podlech | Central Iran, N. Khorasan |
| 81 | *A. calligineus* Maassoumi | Kurdo-Zagrosian |
| 82 | *A. calliphysa* Bunge subsp. *calliphysa*  | Central Iran, Fars-Kerman, Nubo-Sindian |
| 83 | *A*. *calliphysa* subsp. *angustiflorus* Tietz | Central Iran, Fars-Kerman, Nubo-Sindian |
| 84 | *A*. *callistachys* subsp. *porphyrobaphis* (Fisch.) Tietz | Central Iran, Atropatanean |
| 85 | *A*. *callistachys* Fisch. subsp. *callistachys* | Central Iran, Kurdo-Zagrosian |
| 86 | *A*. *campylanthoides* Bornm. | Central Iran, Atropatanean, N. Khorasan |
| 87 | *A. campylanthus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 88 | *A. canosus* Maassoumi | Atropatanean |
| 89 | *A. capax* Maassoumi | Atropatanean, Hyrcanian |
| 90 | *A. capillatus* Maassoumi | Kurdo-Zagrosian |
| 91 | *A. capito* Boiss. & Hohen. | Central Iran, Atropatanean, Hyrcanian |
| 92 | *A. carduchorum* Boiss. & Hausskn. | Atropatanean, Kurdo-Zagrosian |
| 93 | *A. carmanicus* Bornm. | Fars-Kerman, Nubo-Sindian |
| 94 | *A. catacamptus* Boiss. | Central Iran, Atropatanean, N. Khorasan |
| 95 | *A. cellatus* Maassoumi | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 96 | *A. cemerinus* Beck | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman |
| 97 | *A. cephalanthus* DC. | Central Iran, Kurdo-Zagrosian, Fars-Kerman, Nubo-Sindian |
| 98 | *A. chaetopodus* Bunge | Central Iran, Kurdo-Zagrosian |
| 99 | *A. chahartaghensis* Maassoumi & Podlech | Kurdo-Zagrosian, Fars-Kerman |
| 100 | *A. chalaranthus* Boiss. & Hausskn. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 101 | *A. chartostegius* Boiss. & Hausskn. | Atropatanean, Kurdo-Zagrosian |
| 102 | *A. chehreganii* Zarre & Podlech | Atropatanean |
| 103 | *A. chichesticus* Podlech & Maassoumi | Atropatanean |
| 104 | *A. chrysanthus* Boiss. & Hohen. | Central Iran, Atropatanean, Hyrcanian |
| 105 | *A. chrysotrichus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 106 | *A. ciceropsis* Hamzehee & Maassoumi | Kurdo-Zagrosian |
| 107 | *A. citrinus* subsp. *khorassanicus* Podlech | Central Iran, N. Khorasan |
| 108 | *A. clivicola* Podlech & Maassoumi | Central Iran |
| 109 | *A. coluteopsis* Parsa | Fars-Kerman |
| 110 | *A. confertiformis* Sirj. & Rech. f. | Kurdo-Zagrosian, Fars-Kerman |
| 111 | *A. confusus* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 112 | *A. contro-versus* Maassoumi | Central Iran, N. Khorasan |
| 113 | *A. craccinopsis* Maassoumi | Kurdo-Zagrosian |
| 114 | *A. culminatus* Maassoumi, Kaz.Osaloo & Joharchi | N. Khorasan |
| 115 | *A. cyclophyllon* Beck | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman, Nubo-Sindian  |
| 116 | *A. cystosus* Zarre | Central Iran, N. Khorasan |
| 117 | *A. daenensis* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 118 | *A. daghdaghabadensis* Maassoumi | Central Iran |
| 119 | *A. damghanensis* Podlech | Hyrcanian |
| 120 | *A. darrehbidensis* Podlech & Zarre | Central Iran |
| 121 | *A. dejectus* Maassoumi, F. Ghahrem. & Bagheri | Atropatanean |
| 122 | *A. delutulides* Maassoumi, F. Ghahrem. & Bagheri | Atropatanean |
| 123 | *A. delutulus* Maassoumi | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 124 | *A. demavandicola* Bornm. & Gauba | Atropatanean |
| 125 | *A. demavendicus* Boiss. & Buhse | Central Iran, Atropatanean, Hyrcanian |
| 126 | *A. demonstratus* Maassoumi | Atropatanean |
| 127 | *A. dengolanensis* Podlech | Kurdo-Zagrosian |
| 128 | *A. denticulatus* Podlech | N. Khorasan |
| 129 | *A. denudatus* Steven | Central Iran, Atropatanean, Hyrcanian, N. Khorasan |
| 130 | *A. dianat-nejadii* F. Ghahrem. | Atropatanean |
| 131 | *A. dieteri* R. Kottaimuthu & N. Vasudevan | Atropatanean, Nubo-Sindian |
| 132 | *A. distans* Fisch. | Central Iran |
| 133 | *A. divandarrehensis* Podlech | Atropatanean, Kurdo-Zagrosian |
| 134 | *A. diversipilosus* Podlech | Atropatanean, Kurdo-Zagrosian |
| 135 | *A. diversus* Podlech & Maassoumi | Atropatanean |
| 136 | *A. djenarensis* Sirjaev & Rech. f. | N. Khorasan |
| 137 | *A. doghrunensis* Maassoumi & Podlech | Atropatanean |
| 138 | *A. dopolanicus* Podlech | Kurdo-Zagrosian, Fars-Kerman |
| 139 | *A. dorudensis* Podlech | Kurdo-Zagrosian |
| 140 | *A. doshman-ziariensis* Maassoumi & Podlech | Kurdo-Zagrosian, Fars-Kerman |
| 141 | *A. dschuparensis* Freyn & Bornm. | Central Iran, Fars-Kerman, Nubo-Sindian |
| 142 | *A. dysbatophilus* Zarre & Podlech | Atropatanean |
| 143 | *A. ebenoides* Boiss. | Atropatanean, Kurdo-Zagrosian, Central Iran  |
| 144 | *A. ebrahimabadensis* Zarre & Podlech | Central Iran |
| 145 | *A. eburneus* Bornm. & Gauba | Central Iran, Nubo-Sindian |
| 146 | *A. ecbatanus* Bunge | Kurdo-Zagrosian, Nubo-Sindian |
| 147 | *A. echidna* Bunge | Central Iran, N. Khorasan |
| 148 | *A. edmondsonii* Podlech | N. Khorasan |
| 149 | *A. elegans* Bunge | Atropatanean |
| 150 | *A. elezgensis* Maassoumi & Kaz.Osaloo | Central Iran |
| 151 | *A. elwendicus* Bornm. | Kurdo-Zagrosian |
| 152 | *A. eriobasis* Bornm. | Atropatanean |
| 153 | *A. eriosphaerus* Boiss. & Hausskn. | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 154 | *A. eriostomus* Bornm. | Central Iran |
| 155 | *A. erubescens* Poldech | Central Iran, N. Khorasan |
| 156 | *A. erwinii–gaubae* Sirj. & Rech. f. | Central Iran, Atropatanean, N. Khorasan |
| 157 | *A. erythrolepis* Boiss*.* | Central Iran |
| 158 | *A. eschkerensis* Boiss. & Hausskn. var. *burudschirdicus* | Kurdo-Zagrosian |
| 159 | *A. esferayenicus* Podlech & Maassoumi | N. Khorasan |
| 160 | *A. estahbanensis* Maassoumi & Podlech | Kurdo-Zagrosian, Fars-Kerman |
| 161 | *A. eusarathron* I. Deml & Podlech | Fars-Kerman |
| 162 | *A. evanensis* Maassoumi & Podlech | Atropatanean, Hyrcanian |
| 163 | *A. exspectatus* Maassoumi | Central Iran, Fars-Kerman |
| 164 | *A. facetus* Maassoumi & Podlech | Kurdo-Zagrosian |
| 165 | *A. fagh–soleimanensis* Maassoumi & Podlech | Kurdo-Zagrosian |
| 166 | *A. farsicus* Sirj. & Rech. f. | Central Iran, Fars-Kerman |
| 167 | *A. faucicola* Podl. ex Bagheri, Maassoumi & *faucicola* | Atropatanean |
| 168 | *A. ferruminatus* Maassoumi | Kurdo-Zagrosian |
| 169 | *A. firuzkuhensis* Podlech | Atropatanean |
| 170 | *A. fischeri* Buhse ex Fisch. | Central Iran |
| 171 | *A. flexilipes* Bornm. | Kurdo-Zagrosian, Fars-Kerman |
| 172 | *A. floccosus* Boiss. subsp. *floccosus* | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian, N. Khorasan |
| 173 | *A. floccosus* subsp. *pichleri* (Beck) Zarre, Maassoumi & Podlech | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 174 | *A. floccosus* subsp. *rahensis* (Sirj. & Rech.) Zarre, Maassoumi & Podlech | Central Iran, Fars-Kerman |
| 175 | *A. foliosus* Podlech, Maassoumi & Ranjbar | Atropatanean |
| 176 | *A. fortuitus* Maassoumi | Kurdo-Zagrosian |
| 177 | *A. fragiferus* Bunge | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 178 | *A. fridae* Rech. f. | Central Iran, Atropatanean |
| 179 | *A. fuliginosus* Beck. | Atropatanean, Hyrcanian |
| 180 | *A. gagnieuae* Maassoumi & Podlech | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 181 | *A. galbineus* Maassoumi | Kurdo-Zagrosian |
| 182 | *A. gamasiabensis* Maassoumi, Zarre & Podlech | Kurdo-Zagrosian |
| 183 | *A. gandomanicus* Podlech | Kurdo-Zagrosian |
| 184 | *A. garmashubensis* Maassoumi & Teyebi Khorrami | Central Iran |
| 185 | *A. gaubae* Bornm. | Nubo-Sindian |
| 186 | *A. ghahramanii* Maassoumi & Podlech | Nubo-Sindian |
| 187 | *A. ghamishluensis* Dastpak, Maassoumi & Kazempour | Central Iran |
| 188 | *A. ghanbarianii* Maassoumi Podlech & Zarre | Fars-Kerman |
| 189 | *A. ghashghaicus* Tietz & Zarre | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 190 | *A. gifanicus* Maassoumi & Podlech | N. Khorasan |
| 191 | *A. gigantifoliolatus* Maassoumi & Maroofi | Atropatanean |
| 192 | *A. gigantirostratus* Maasoumi, Ghahr, Ghahremani & Matin | Atropatanean, N. Khorasan |
| 193 | *A. gilvanensis* Ranjbar | Atropatanean |
| 194 | *A. glaucacanthos* Fisch. | Central Iran, Atropatanean, Fars-Kerman |
| 195 | *A. glaucops* Bornm. | Kurdo-Zagrosian |
| 196 | *A. glochideus* Boriss. | Central Iran, Atropatanean |
| 197 | *A. glochidiatus* Maassoumi | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 198 | *A. glumaceus* Boiss. | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 199 | *A. griseus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman, N. Baluchistan, Nubo-Sindian  |
| 200 | *A. gueldenstaedtiae* Bunge | Hyrcanian |
| 201 | *A. gulul-saranii* Podlech | Central Iran, N. Khorasan |
| 202 | *A. gypsaceus* G. Beck | Central Iran, Kurdo-Zagrosian, Nubo-Sindian |
| 203 | *A. gypsicola* Maassoumi & Mozaffarian | Kurdo-Zagrosian |
| 204 | *A. hajiabadensis* Podlech & Maassoumi | Atropatanean, Fars-Kerman |
| 205 | *A. hajijafanensis* Maassoumi | Atropatanean |
| 206 | *A. hakkariensis* Podlech | Atropatanean |
| 207 | *A. hakkianus* Bagheri, Maassoumi & Rahimi. | Atropatanean |
| 208 | *A. hamadanus* Boiss. | Central Iran, Kurdo-Zagrosian |
| 209 | *A. harazensis* Zarre & Podlech | Atropatanean |
| 210 | *A. hecatae* Zarre & Podlech | Central Iran |
| 211 | *A. heinzianus* Maassoumi & Mozaffarian | Nubo-Sindian |
| 212 | *A. hekmat-safaviae* F. Ghahrem. | N. Khorasan |
| 213 | *A. hendelanicus* Maassoumi | Atropatanean |
| 214 | *A. herbertii* Maassoumi | Atropatanean |
| 215 | *A. hermannii* Freitag & Podlech | Central Iran |
| 216 | *A. heterodoxus* Bunge | Central Iran, Fars-Kerman |
| 217 | *A. heterophyllus* Podlech | Kurdo-Zagrosian |
| 218 | *A. heterozyx* Maassoumi | Central Iran |
| 219 | *A. hezarensis* Zarre & Podlech | Kurdo-Zagrosian, Fars-Kerman |
| 220 | *A. hirtus* Bunge | Central Iran |
| 221 | *A. holopsilus* Bunge | Central Iran, Kurdo-Zagrosian |
| 222 | *A. holosemius* Bunge | Atropatanean |
| 223 | *A. homandicus* Maassoumi & Podlech | Atropatanean |
| 224 | *A. horridus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 225 | *A. hotkanensis* Maassoumi & Mirtadzadini | Fars-Kerman |
| 226 | *A. huthianus* Freyn & Bornm. | Fars-Kerman |
| 227 | *A. hymenocalyx* Boiss. | Kurdo-Zagrosian |
| 228 | *A. hymenostegis* Fisch. & C. A. Mey | Atropatanean, Kurdo-Zagrosian |
| 229 | *A. hypsogeton* Bunge | N. Khorasan |
| 230 | *A. hystrix* Bunge | Atropatanean |
| 231 | *A. ibicinus* Boiss. & Hausskn. | Kurdo-Zagrosian, Fars-Kerman |
| 232 | *A. idoneus* Maassoumi & Podlech | Atropatanean |
| 233 | *A. ignotus* Podlech | Atropatanean |
| 234 | *A. ilachchiensis* Ranjbar & Ghahremani | Atropatanean |
| 235 | *A. imbecillus* Maassoumi & Podlech | Fars-Kerman |
| 236 | *A. impexus* Podlech | Kurdo-Zagrosian |
| 237 | *A. inchebroonensis* Maassoumi | N. Khorasan |
| 238 | *A. inclinatus* Maassoumi | Kurdo-Zagrosian |
| 239 | *A. indistinctus* Podlech & Maassoumi | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 240 | *A. indomitus* Maassoumi | Atropatanean |
| 241 | *A. inexpectatus* Maassoumi | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 242 | *A. innotabilis* Podlech | Atropatanean |
| 243 | *A. inquilinus* Maassoumi | Central Iran |
| 244 | *A. iodotropis* Boiss. & Hohen. | Central Iran, Atropatanean, Hyrcanian |
| 245 | *A. iranicus* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian, N. Khorasan |
| 246 | *A. iranshahrii* Maassoumi & Podlech | Kurdo-Zagrosian, Fars-Kerman |
| 247 | *A. ischredensis* Bunge | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 248 | *A. issatissensis* Maassoumi. & Mahmoodi | Central Iran |
| 249 | *A. jacobsii* Podlech | Central Iran, Kurdo-Zagrosian |
| 250 | *A. jamzadae* Maassoumi | Central Iran |
| 251 | *A. jaskensis* Maassoumi | Nubo-Sindian |
| 252 | *A. jesdianus* Boiss. & Buhse | Central Iran, Fars-Kerman, N. Baluchistan |
| 253 | *A. jesseni* Bunge | Central Iran, Atropatanean, Hyrcanian |
| 254 | *A. johannis* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman, Nubo-Sindian |
| 255 | *A. joharchii* F. Ghahrem. & J.F.Gasin | Central Iran |
| 256 | *A. kabutarlanensis* Dehshiri & Maassoumi | Kurdo-Zagrosian |
| 257 | *A. kalatehensis* Maassoumi & Kaz.Osaloo | N. Khorasan |
| 258 | *A. kaleibarensis* Podl. | Atropatanean |
| 259 | *A. karl-heinzii* Maassoumi | Atropatanean |
| 260 | *A. kashafensis* Podlech | Central Iran |
| 261 | *A. kashmarensis* Maassoumi & Podlech | Central Iran, N. Khorasan |
| 262 | *A. kaswinensis* Bornm. | Central Iran |
| 263 | *A. kavirensis* Freitag | Central Iran |
| 264 | *A. kentrophyllus* Podlech | Kurdo-Zagrosian, Nubo-Sindian |
| 265 | *A. kermanschahensis* Bornm | Kurdo-Zagrosian |
| 266 | *A. khadem–kandicus* Maassoumi & Podlech | Atropatanean |
| 267 | *A. khajehensis* F. Ghahrem. | Atropatanean |
| 268 | *A. khajiboulaghensis* Maassoumi | Atropatanean |
| 269 | *A. khaneradarensis* Sirj. & Rech. f. | Fars-Kerman, Nubo-Sindian |
| 270 | *A. khatamsazae* Maassoumi | Kurdo-Zagrosian |
| 271 | *A. khongensis* Maassoumi Joarchi & Podlech | Central Iran |
| 272 | *A. khoshjailensis* Sirj. & Rech.f. | Central Iran, Hyrcanian, N. Khorasan |
| 273 | *A. khosrowabadensis* Ranjbar& Karamian | Kurdo-Zagrosian |
| 274 | *A. khunsarensis* Zarre & Podlech | Central Iran |
| 275 | *A. kiamaky–daghensis* Maassoumi & Podlech | Atropatanean |
| 276 | *A. koelzii* Barneby | Kurdo-Zagrosian |
| 277 | *A. kohrudicus* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 278 | *A. kordloricus* Zarre | Kurdo-Zagrosian |
| 279 | *A. koulehensis* Podlech | Kurdo-Zagrosian |
| 280 | *A. kuhidashtehensis* Podlech | Atropatanean, Hyrcanian |
| 281 | *A. lacus–valashti* Maassoumi Podlech & Jalili | Hyrcanian |
| 282 | *A. lalesarensis* Bornm. | Central Iran, Fars-Kerman |
| 283 | *A. lambinonii* Podlech | Central Iran, Kurdo-Zagrosian |
| 284 | *A. laricus* Boiss. & Hohen. | Atropatanean |
| 285 | *A. laristanicus* Bornm. & Gauba | Atropatanean, Nubo-Sindian |
| 286 | *A. lasiocalycinus* Podlech & Maassoumi | Atropatanean, Kurdo-Zagrosian |
| 287 | *A. lateritiiformis* Zarre, Maassoumi & Podlech | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 288 | *A. lateritius* Boiss. & Hausskn. ex Boiss. | Kurdo-Zagrosian |
| 289 | *A. latispicatus* Bagheri & Maassoumi | Atropatanean |
| 290 | *A. ledinghamii* Barnaby | Kurdo-Zagrosian, Fars-Kerman, Central Iran, Nubo-Sindian |
| 291 | *A. leiosemius* (Lipsky) Popovvar. *leiosemius* | N. Khorasan |
| 292 | *A*. *leonardii* Maassoumi | Central Iran |
| 293 | *A. lepidus* Podlech | Central Iran |
| 294 | *A. leptynticus* Maassoumi | Atropatanean |
| 295 | *A. leucargyreus* Bornm. | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 296 | *A. leucoptilus* Boiss. & Hausskn. | Kurdo-Zagrosian |
| 297 | *A. leushanensis* Maassoumi | Atropatanean |
| 298 | *A. lilacinus* Boiss. | Atropatanean, Hyrcanian |
| 299 | *A. lippertii* Maassoumi & Podlech | Atropatanean |
| 300 | *A. lisaricus* Massoumi | Atropatanean |
| 301 | *A. longicuspis* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 302 | *A. longirostratus* Pau | Atropatanean, Kurdo-Zagrosian, Fars-Kerman |
| 303 | *A. longistylus* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman, Nubo-Sindian |
| 304 | *A. lurorum* Bornm. | Kurdo-Zagrosian |
| 305 | *A. lycioides* Boiss. | Central Iran, Fars-Kerman, N. Khorasan |
| 306 | *A. maabudii* Ranjbar | Central Iran, Atropatanean |
| 307 | *A. maarofii* Podlech & Maassoumi | Kurdo-Zagrosian |
| 308 | *A. maassoumii* Podlech | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 309 | *A. macrosemius* Boiss. & Hohen. | Central Iran, Atropatanean, Hyrcanian, Nubo-Sindian |
| 310 | *A. magistratus* Maassoumi *et al.* | Central Iran, Atropatanean |
| 311 | *A. magnibracteatus* Maassoumi & Maroofi | Central Iran |
| 312 | *A. mahneshanensis* Maassoumi & Moussavi | Atropatanean |
| 313 | *A. makuensis* Maassoumi & Bagheri | Atropatanean |
| 314 | *A. managettae* Sirj.& Rech. f. | Kurdo-Zagrosian, Fars-Kerman |
| 315 | *A. marandicus* Podlech | Atropatanean |
| 316 | *A. margonensis* Ranjbar, Rahimi. & Raufi | Fars-Kerman |
| 317 | *A. marivanensis* Maassoumi & Podlech | Atropatanean, Kurdo-Zagrosian |
| 318 | *A. markasicus* Podlech & Maassoumi | Central Iran |
| 319 | *A. maroofii* Podlech & Maassoumi | Kurdo-Zagrosian |
| 320 | *A. marzanabadensis* Maassoumi | Hyrcanian |
| 321 | *A. megalocystis* Bunge | Central Iran, Atropatanean, Hyrcanian |
| 322 | *A. mehranensis* Maassoumi & Mozaffarian | Nubo-Sindian |
| 323 | *A. mehrizianus* Podlech & Maassoumi | Central Iran |
| 324 | *A. meimandicus* Maassoumi & Vakili | Central Iran |
| 325 | *A. melanocalyx* Boiss. & Buhse | Central Iran |
| 326 | *A. melanodon* Boiss. | Kurdo-Zagrosian |
| 327 | *A. melanogramma* Boiss. | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman |
| 328 | *A. membranostipulus* Maassoumi | Atropatanean, Hyrcanian |
| 329 | *A. memnonius* Maassoumi & Podlech | Central Iran |
| 330 | *A. memoriosus* Pakravan & Nasseh & Maassoum | N. Khorasan |
| 331 | *A. meshkinensis* Podlech | Atropatanean |
| 332 | *A. mesoleios* Boiss. & Hohen. | Atropatanean |
| 333 | *A. microphysa* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 334 | *A. microphysopsis* (Tietz) Podlech | Atropatanean, Kurdo-Zagrosian |
| 335 | *A. minuticalycinus* Podlech & Zarre | Atropatanean |
| 336 | *A. minutulus* Maassoumi | N. Khorasan |
| 337 | *A. modestus* Boiss. & Hohen. | Atropatanean, Hyrcanian |
| 338 | *A. monanthemus* Boiss. | Atropatanean |
| 339 | *A. monozyx* Bornm. | Central Iran |
| 340 | *A. montis–bakhtiarii* Maassoumi & Sardari | Kurdo-Zagrosian |
| 341 | *A. montis-mishoudaghi* Seikh Maassoumi& Ghorb. | Atropatanean |
| 342 | *A. montis-nacarouzii* Maassoumi & Maroofi | Kurdo-Zagrosian |
| 343 | *A. montis–parrowii* Maassoumi & Naamati | Kurdo-Zagrosian |
| 344 | *A. montis-queydari* F. Ghahrem., Maassoumi & Bagheri | Atropatanean |
| 345 | *A. montis–varvashti* Podlech | Hyrcanian, Atropatanean |
| 346 | *A. mostafa-assadii* Bagheri, Maassoumi & F. Ghahrem. | Atropatanean |
| 347 | *A. moussavi* Maassoumi, F. Ghahram.& A. Ghahrem. | Atropatanean |
| 348 | *A. mozaffarianii* Maassoumi | Atropatanean |
| 349 | *A. mucronifolius* Boiss. | Central Iran, Atropatanean, Fars-Kerman, N. Baluchistan, Nubo-Sindian |
| 350 | *A. multijugus* DC. | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 351 | *A. murinus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman  |
| 352 | *A. mutuus* Podlech | Atropatanean |
| 353 | *A. myriacanthus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman, N. Baluchistan, Nubo-Sindian  |
| 354 | *A. naftabensis* Sirj. & Rech. f. | Atropatanean, Hyrcanian |
| 355 | *A. naghadehensis* (Tietz & Zarre) Naderi & Maassoumi | Kurdo-Zagrosian |
| 356 | *A. nahavandicus* Maassoumi | Kurdo-Zagrosian |
| 357 | *A. nalbandanicus* Podlech | Central Iran |
| 358 | *A. neo–assadianus* Ranjbar | Atropatanean |
| 359 | *A. neo–chaldoranicus* Podlech & Maassoumi | Atropatanean |
| 360 | *A. neo–maassoumianus* Ranjbar | N. Khorasan |
| 361 | *A. neomobayenii* Maassoumi | Atropatanean |
| 362 | *A. neo–mozaffarianii* Maassoumi | Kurdo-Zagrosian |
| 363 | *A. neo–podlechii* Maassoumi | Fars-Kerman |
| 364 | *A. neo–sytinii* Ranjbar | Central Iran |
| 365 | *A. nervosus* Maassoumi Podlech & Zarre | Fars-Kerman |
| 366 | *A. neyshaburensis* Podlech | Central Iran |
| 367 | *A. nezva-montis* Podlech & Zarre | Atropatanean |
| 368 | *A. nigrohirsutus* (Tietz & Zarre) Borjian, Maassoumi & Assadi | Fars-Kerman |
| 369 | *A. nowroozii* Podlech & Zarre | Central Iran |
| 370 | *A. nubicola* Podlech | Central Iran |
| 371 | *A. nurabadensis* Maassoumi & Podlech | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 372 | *A. nurensis* Boiss. & Buhse | Central Iran, Atropatanean, Hyrcanian |
| 373 | *A. ochreatus* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian, N. Khorasan |
| 374 | *A. ochrochlorus* Boiss. & Hohen. | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 375 | *A. olangensis* Massoumi & Joarchi | Central Iran |
| 376 | *A. oligoflorus* Maassoumi, F. Ghahrem. & Javadi | Atropatanean |
| 377 | *A. orthocarpoides* Sirj. & Rech. f. | Central Iran, Hyrcanian, N. Khorasan |
| 378 | *A. ovigerus* Bunge | Kurdo-Zagrosian |
| 379 | *A. ovoideus* Sirj. & Rech. f. | Central Iran, Kurdo-Zagrosian, Fars-Kerman, N. Baluchistan, Nubo-Sindian  |
| 380 | *A. pakravaniae* Podlech & Maassoumi | N. Khorasan |
| 381 | A*. paralurges* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 382 | *A. paralurgiformis* F. Ghahrem. Maassoumi & Bagheri | Atropatanean |
| 383 | *A. parrowensis* Maassoumi | Kurdo-Zagrosian |
| 384 | *A. parvarensis* Podlech & Sytin | Atropatanean |
| 385 | *A. parvulus* Bornm. | Atropatanean |
| 386 | *A. patrius* Maassoumi | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 387 | *A. paucifoliolatus* Podlech | Central Iran, Kurdo-Zagrosian |
| 388 | *A. pauperiflorus* Bornm. | Atropatanean |
| 389 | *A. pauxilis* Maassoumi & Gharemani | Atropatanean, Kurdo-Zagrosian |
| 390 | *A. pediculariformis* Maassoumi | Central Iran, Atropatanean |
| 391 | *A. pendulipodus* Ranjbar | Central Iran |
| 392 | *A. penetratus* Maassoumi | Kurdo-Zagrosian, Fars-Kerman |
| 393 | *A. pentanthus* Boiss. | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman |
| 394 | *A. perdurabilis* Maassoumi | Central Iran, N. Khorasan |
| 395 | *A. perdurans* Podlech | Atropatanean |
| 396 | *A. pereshkhoranicus* Maassoumi & F. Ghahrem. | Atropatanean |
| 397 | *A. persicus* Fisch. & C. A. Mey. | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian  |
| 398 | *A. peymanii* Maassoumi | Atropatanean |
| 399 | *A. phlomoides* Boiss. | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman  |
| 400 | *A. pileh–khasehensis* Podlech & Maassoumi | Atropatanean |
| 401 | *A. pinetorum* subsp. *alamutensis* Maassoumi & Podlech | Atropatanean, Hyrcanian |
| 402 | *A. piptocephalus* Boiss. & Hausskn. | Kurdo-Zagrosian, Fars-Kerman |
| 403 | *A. piranshahricus* Maassoumi & Podlech | Kurdo-Zagrosian |
| 404 | *A. pishchakensis* Maassoumi | Central Iran, Atropatanean, Hyrcanian |
| 405 | *A. plagiophacos* Maassoumi & Podlech | Central Iran, Atropatanean |
| 406 | *A. platyfoliolatus* Maassoumi | Kurdo-Zagrosian |
| 407 | *A. platysematus* Buhse | Central Iran, Atropatanean, Hyrcanian |
| 408 | *A. plauriflorus* F. Ghahrem., Maassoumi & Bagheri | Atropatanean |
| 409 | *A. plebejus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 410 | *A. podosphaerus* Boiss. & Hausskn. | Central Iran, Kurdo-Zagrosian |
| 411 | *A. poliotrichus* Bornm. | Central Iran |
| 412 | *A. polystachys* Maassoumi | Kurdo-Zagrosian |
| 413 | *A. porphyrophysa* Bornm. & Gauba | Fars-Kerman, Nubo-Sindian |
| 414 | *A. pravitzii* Podlech | Fars-Kerman |
| 415 | *A. procerus* Boiss. & Hausskn. | Central Iran, Kurdo-Zagrosian |
| 416 | *A. pseudoantilibani* Maassoumi | Atropatanean |
| 417 | *A. pseudocomosus* Maassoumi, Ghahremaninejad & Bagheri | Atropatanean |
| 418 | A*. pseudocyclophyllus* Rech. f. | Atropatanean |
| 419 | *A. pseudofragiferus* Tietz | Fars-Kerman |
| 420 | *A. pseudoibicinus* ssp. *Kowlikoshens* Maassoumi & Podlech | Central Iran, Fars-Kerman |
| 421 | *A. pseudoibicinus* Maassoumi & Podlech ssp. *pseudoibicinus* | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 422 | *A. pseudoindurascens* Sirj.& Rech. f. | N. Khorasan |
| 423 | *A. pseudojohannis* Maassoumi & Podlech | Fars-Kerman |
| 424 | *A. pseudokurramensis* Sirj. & Rech. f. | N. Khorasan |
| 425 | *A. pseudomacrostachys* Maassoumi | Atropatanean |
| 426 | *A. pseudomurinus* Naderi & Maassoumi | Central Iran |
| 427 | *A. pseudonigrescens* Maassoumi | N. Khorasan |
| 428 | *A. pseudo-orthocarpus* Ranjbar & Maassoumi | Atropatanean |
| 429 | *A. pseudoparalurges* F. Ghahrem., Maassoumi & Bagheri | Atropatanean |
| 430 | *A. pseudopellitus* Podlech | Fars-Kerman |
| 431 | *A. pseudopersicus* Maassoumi & Podlech | Atropatanean |
| 432 | *A. pseudopulchellus* Maassoumi | Kurdo-Zagrosian |
| 433 | *A. pseudorobustis* Podlech & Maassoumi | Atropatanean, Kurdo-Zagrosian |
| 434 | *A. pseudorobustus* Podlech & Maassoumi | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 435 | *A. pseudoshebarensis* Podlech | Central Iran, Fars-Kerman |
| 436 | *A. pseudotortuosus* Tietz & Zarre | Kurdo-Zagrosian |
| 437 | *A. pseudozagrosicus* Maassoumi & Podlech | Kurdo-Zagrosian |
| 438 | *A. psilostylus* Bunge | Atropatanean |
| 439 | *A. ptychophyllus* Boiss. | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 440 | *A. punctatus* Bunge | Atropatanean |
| 441 | *A. qaratschaicus* Maassoumi F. Ghahrem. & Javadi | Atropatanean |
| 442 | *A. qeydarnabiensis* Bagheri, F. Ghahrem. & Maassoumi | Atropatanean |
| 443 | *A. qorvehensis* Podlech | Kurdo-Zagrosian |
| 444 | *A. qoturensis* Podlech | Atropatanean |
| 445 | *A. quenquefoliolatus* Bunge | Central Iran |
| 446 | *A. rahiminejadii* Ranjbar | Central Iran |
| 447 | *A. rassulovae* Podlech | Central Iran |
| 448 | *A. raswendicus* Hausskn. & Bornm. | Central Iran, Kurdo-Zagrosian |
| 449 | *A. razensis* Nasseh & Joharchi | N. Khorasan |
| 450 | *A. recognitus* Fisch. | Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 451 | *A. recurvatus* Podlech | Central Iran |
| 452 | *A. regestus* Maassoumi | Central Iran, Kurdo-Zagrosian |
| 453 | *A. remotiflorus* Boiss. | Central Iran, Fars-Kerman |
| 454 | *A. remotijugus* Boiss. & Hohen. | Central Iran, Atropatanean, Hyrcanian |
| 455 | *A. remotispicatus* Bagheri & Maassoumi | Atropatanean |
| 456 | *A. renzianus* Podlech | Central Iran, N. Khorasan |
| 457 | *A. repentinus* Podlech & Ekici | Central Iran, Atropatanean |
| 458 | *A. reticulato–venosus* Maassoumi & Podlech | N. Khorasan |
| 459 | *A. reuterianus* Boiss. | Central Iran, Fars-Kerman, N. Baluchistan |
| 460 | *A. rhabdophorus* Bornm. | Kurdo-Zagrosian |
| 461 | *A. rhodosemiius* Boiss. & Hausskn. | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman, Nubo-Sindian |
| 462 | *A. rimarum* Bornm. | Hyrcanian |
| 463 | *A. riouxii* Rech. f. | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 464 | *A. rivashensis* Maassoumi | Central Iran, N. Khorasan |
| 465 | *A. rollovii* Grossh. | Atropatanean |
| 466 | *A. rosellus* Sirj. & Rech. f. | Atropatanean, Hyrcanian |
| 467 | *A. rubicalyx* Maassoumi | Atropatanean |
| 468 | *A. rubriflorus* Bunge | Atropatanean, Hyrcanian |
| 469 | *A. rubriphysa* Maassoumi & Teyebi Khorrami | Nubo-Sindian |
| 470 | *A. rubrocalycinus* Maassoumi & Podlech | Atropatanean |
| 471 | *A. rubrolineatus* Sirj. & Rech. f. | Atropatanean |
| 472 | *A. rubrostriatus* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 473 | *A. rudimentus* Maassoumi | Atropatanean |
| 474 | *A. rufescens* Freyn | Central Iran, Fars-Kerman |
| 475 | *A. runemarkii* Maassoumi & Podlech | Atropatanean |
| 476 | *A. ruscifolius* Boiss. | Central Iran, Atropatanean, Kurdo-Zagrosian, N. Khorasan |
| 477 | *A. rusticus* Maassoumi | Atropatanean |
| 478 | *A. saadatabadensis* Podlech | Fars-Kerman |
| 479 | *A. sabetii* Podlech & Maassoumi | Atropatanean |
| 480 | *A. sabzevarensis* Podlech & Zarre | Central Iran |
| 481 | *A. saccatus* Boiss. | Central Iran |
| 482 | *A. saetiger* Becht | Central Iran, Kurdo-Zagrosian |
| 483 | *A. safavii* Podlech & Maassoumi | Atropatanean |
| 484 | *A. sahendi* Fisch. | Atropatanean |
| 485 | *A. salavatabadensis* Podlech | Kurdo-Zagrosian |
| 486 | *A. salehabadensis* Ranjbar & Zarin | Central Iran |
| 487 | *A. salmakiae* Podlech & Zarre | N. Khorasan |
| 488 | *A. sanandajianus* Tietz | Kurdo-Zagrosian |
| 489 | *A. sarabensis* Maassoumi & Podlech | Atropatanean |
| 490 | *A. saremii* Maassoumi | Kurdo-Zagrosian |
| 491 | *A. sarzehensis* Ranjbar | Fars-Kerman |
| 492 | *A. savallanicus* Podlech | Atropatanean |
| 493 | *A. savanatensis* Ranjbar | Fars-Kerman |
| 494 | *A. scaphiformis* Podlech | Kurdo-Zagrosian |
| 495 | *A. scapiger* Ranjbar & Maassoumi | Atropatanean, N. Khorasan |
| 496 | *A. schistocalyx* Bunge | Central Iran, Fars-Kerman, N. Khorasan |
| 497 | *A. schmidii* Podlech | Central Iran, N. Khorasan |
| 498 | *A. sciureus* Boiss. & Hohen. | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 499 | *A. sclerocladus* Bunge | Central Iran, N. Khorasan |
| 500 | *A. segregatus* Zarre & Podlech | Atropatanean |
| 501 | *A. seidabadensis* Bunge | Atropatanean, Hyrcanian |
| 502 | *A. semiglabricarpus* Maassoumim | N. Khorasan |
| 503 | *A. semilunatus* Podlech | Central Iran, Atropatanean |
| 504 | *A. semiromensis* Podlech & Maassoumi | Central Iran, Kurdo-Zagrosian |
| 505 | *A. semnanensis* Bornm. & Rech. f. | Central Iran, Atropatanean |
| 506 | *A. senilis* Bornm | Atropatanean, Central Iran  |
| 507 | *A. shahilensis* Podlech & Maassoumi | Atropatanean |
| 508 | *A. shahinii* Podlech & Maassoumi | Kurdo-Zagrosian |
| 509 | *A. shahsavaranicus* Maassoumi | Central Iran |
| 510 | *A. shahsavarii* Maassoumi & Podlech | Central Iran |
| 511 | *A. shehbazii* Zarre & Podlech | Central Iran |
| 512 | *A. shuturunkuhensis* Podlech | Kurdo-Zagrosian |
| 513 | *A. siahcheshmehensis* Maassoumi & Podlech | Atropatanean |
| 514 | *A. simakanensis* Maassoumi & Hatami | Central Iran, Fars-Kerman |
| 515 | *A. sirjaevii* Zarre, Maassoumi & Podlech | Kurdo-Zagrosian |
| 516 | *A. sisakhtianus* Podlech & Maassoumi | Kurdo-Zagrosian |
| 517 | *A. sitiens* Bunge | Central Iran, Atropatanean, N. Khorasan |
| 518 | *A. sivandicus* Podlech & Maassoumi | Fars-Kerman |
| 519 | *A. sohrevardianus* Bagheri, Maassoumi & F. Ghahrem. | Atropatanean |
| 520 | *A. sojakii* Podlech | Central Iran, Kurdo-Zagrosian, Fars-Kerman |
| 521 | *A. spachianiformis* Podlech & Maassoumi | Kurdo-Zagrosian, Fars-Kerman |
| 522 | *A. spachianus* Boiss. & Buhse | Central Iran, Kurdo-Zagrosian, Fars-Kerman, N. Baluchistan, Nubo-Sindian  |
| 523 | *A. speciosus* Boiss. & Hohen. | Atropatanean, Hyrcanian |
| 524 | A. stenolepis Fisch. | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 525 | *A. stenostegius* Boiss. & Hausskn. | Central Iran, Kurdo-Zagrosian |
| 526 | *A. stepporum* Podlech | Kurdo-Zagrosian, Nubo-Sindian |
| 527 | *A. straussii* Bornm. | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 528 | *A. strictissimus* Podlech & Zarre | Atropatanean |
| 529 | *A. subalpinus* Boiss. & Buhse. | Central Iran, Atropatanean, N. Khorasan, Hyrcanian |
| 530 | *A. subbrevidens* Maassoumi | Central Iran, N. Khorasan |
| 531 | *A. subglabberimus* Podlech & Maassoumi | Atropatanean |
| 532 | *A. subkohrudicus* Maassoumi F. Ghahrem & Bagheri | Atropatanean |
| 533 | *A. sublaguriformis* Bagheri Maassoumi & F.Ghahrem. | Atropatanean |
| 534 | *A. submitis* Boiss. & Hohen. | Central Iran, Kurdo-Zagrosian, Atropatanean, Hyrcanian |
| 535 | *A. subpentanthus* Maassoumi & Podlech | Fars-Kerman |
| 536 | *A. subrecognitus* Bagheri Maassoumi & F.Ghahrem | Atropatanean |
| 537 | *A. subrosulariformis* Sirj. & Rech. f. | N. Khorasan |
| 538 | *A. sumarensis* Maassoumi | Kurdo-Zagrosian |
| 539 | *A. supervisus* (Kuntz.) Scheld. | Central Iran, Atropatanean, Kurdo-Zagrosian, N. Khorasan |
| 540 | *A. susianus* Boiss. subsp. *susianus* | Central Iran, Kurdo-Zagrosian, Fars-Kerman, Atropatanean |
| 541 | *A. sympileicalycinus* Maassoumi & Nasseh | Central Iran |
| 542 | *A. sympileicarpus* Rech. f. | Central Iran, N. Khorasan |
| 543 | *A. tabrizianus* Fisch. | Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 544 | *A. taebiae* Zarre & Podlech | Atropatanean |
| 545 | *A. tahbaziae* Zarre & Podlech | Central Iran |
| 546 | *A. taleshensis* Bidarlord, F. Ghahrem. & Maassoumi | Atropatanean |
| 547 | *A. talimansurensis* Sirj. & Rech. f. | Kurdo-Zagrosian, Fars-Kerman, Nubo-Sindian |
| 548 | *A. tarumensis* Sirj. & Rech. f. | Fars-Kerman, Nubo-Sindian |
| 549 | *A. tavakolii* Maassoumi | Kurdo-Zagrosian |
| 550 | *A. teheranicus* Boiss. & Hohen. | Central Iran, Atropatanean, Kurdo-Zagrosian |
| 551 | *A. tekabensis* Maassoimi & Maroofi | Atropatanean |
| 552 | *A. tenellus* Bunge | Central Iran, Kurdo-Zagrosian |
| 553 | *A. tenuiramosus* Podlech & Zarre | N. Baluchistan, Nubo-Sindian |
| 554 | *A. tenuiscapus* Freyn. & Bornm. | Central Iran, Fars-Kerman |
| 555 | *A. termeanus* Maassoumi & Podlech | N. Baluchistan, Nubo-Sindian |
| 556 | *A. titziae* Ghahreman & Zarre | Atropatanean |
| 557 | *A. touranicus* Freitag & Podlech | Central Iran, Atropatanean |
| 558 | *A. townsendii* Zarre Maassoumi & Podlech | Kurdo-Zagrosian |
| 559 | *A. trachyacanthos* Fisch. | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman, N. Baluchistan, Nubo-Sindian |
| 560 | *A. tricholobus* DC. | Central Iran, Atropatanean, Kurdo-Zagrosian, Hyrcanian |
| 561 | *A. triqueter* Bornm. & Gauba | Central Iran, Atropatanean |
| 562 | *A. turkman-chaiensis* Maassoumi *et al.* | Atropatanean |
| 563 | *A. tuyehensis* A. Ghahrem., Maassoumi & F. Ghahrem. | Hyrcanian |
| 564 | *A. typhaeformis* Maassoumi | Atropatanean |
| 565 | *A. urbanus* Podlech & Maassoumi | Atropatanean |
| 566 | *A. vanillae* Boiss. | Central Iran, Atropatanean, Kurdo-Zagrosian, Fars-Kerman |
| 567 | *A. vegetus* Bunge | Central Iran, Atropatanean, Kurdo-Zagrosian, N. Khorasan |
| 568 | *A. veiskaramii* Zarre | Kurdo-Zagrosian |
| 569 | *A. vereskensis* Maassoumi & Podlech | Central Iran, Atropatanean, Hyrcanian |
| 570 | *A. vernaculus* Podlech | Central Iran, Kurdo-Zagrosian |
| 571 | *A. vessalae* Maassoumi & Podlech | Central Iran |
| 572 | *A. vicinalis* Zarre & Podlech | Central Iran |
| 573 | *A. vulcanicus* Bornm. | Atropatanean |
| 574 | *A. wiesneri* Maassoumi & Pahlevani | Fars-Kerman |
| 575 | *A. xiphidiopsis* Bornm. | Kurdo-Zagrosian |
| 576 | *A. yazdii* (Vassilcz.) Podlech & Maassoumi | Central Iran |
| 577 | *A. yushensis* Sabaii, Zarre & Podlech | Hyrcanian |
| 578 | *A. zagrosicus* Boiss. & Hausskn. | Kurdo-Zagrosian |
| 579 | *A. zangooianus* Maassoumi, Safavi & Nasseh | Central Iran, N. Khorasan |
| 580 | *A. zanjanensis* Podlech & Maassoumi | Atropatanean, Kurdo-Zagrosian |
| 581 | *A. zarajabadensis* Ranjbar & Maassoumi | Atropatanean |
| 582 | *A. zarreianus* Ranjbar | Kurdo-Zagrosian |
| 583 | *A. zerdanus* Boiss. | Central Iran, Kurdo-Zagrosian |
| 584 | *A. zoshkensis* F. Ghahrem. | N. Khorasan |