

GENERAL INDEX TO VOLUME 42

- Acacia armata* R. Br., 579
decipiens (C. Koen.) R. Br.
 var. *praemorsa* Graham, 579
littorea Maslin, 579
tristis Graham, 579
Acantholimon longiscapum Bokhari, 563
Achasma metrocheilos Griff., 295
nasutum (K. Schum.) Loesen., 295, 312
Achnatherum P. Beauv., 386
 sect. *Aristella* (Trin.) Tzvelev, 397
 sect. *Neotrinia* Tzvelev, 386
 sect. *Paratrikeraia* Chrtek & Hadač, 397
 sect. *Trikeriaia* (Bor) Tzvelev, 386
bromoides (L.) Nevski, 401
caragana (Trin.) Nevski, 386
hookeri (Stapf) Keng, 393
longearistatum (Boiss.) Nevski, 399
mongholicum (Turcz. ex Trin.) Ohwi, 405
splendens (Trin.) Nevski, 390
turcomanicum (Roshev.) Tzvelev, 398
Aeginetia capitata Graham, 586
Agropyron Gaertner, 77
attenuatiglume Nevski, 79
caespitosus C. Koch, 80
cristatum (L.) Gaertner
 subsp. *incanum* (Náb.) Melderis, 77
 var. *incanum* Náb., 77
divaricatum Boiss. & Bal., 79
gentryi Melderis, 82
juncum (L.) P. Beauv.
 var. *sartorii* Boiss. & Heldr., 78
košaninii Náb., 79
lazicum Boiss., 79
podpêrae Náb., 78
pulcherrimum Grossh., 78
sinuatum Nevski, 80
sosnowskyi Hackel, 80
tauri Boiss. & Bal., 81
Agrostis bromoides L., 401
hissarica Rozhev., 563
stewartii Bor, 563
Ajuga xylorrhiza Kit Tan, 66
 AKHTER, RUBINA & NASIR, YASIN J.
 Vascular plant type specimens in the
 National Herbarium (RAW), Pakistan
 Agricultural Research Council,
 Islamabad, 559
Albucca batteniana Hilliard & Burt, 247
crinifolia Baker, 249
riupensis Hilliard & Burt, 249
xanthocodon Hilliard & Burt, 250
Alepidea insculpta Hilliard & Burt, 258
Allium paradoxicum Fisch. ex Graham, 581
tripterum E. Nasir, 559
Aloe boylei Baker, 251, 252
 subsp. *boylei*, 251
 subsp. *major* Hilliard & Burt, 252
Alophia drummondiana Herb., 578
drummondii (Graham) Foster, 578
Alpinia Roxb., 273
angustifolia K. Schum., 286
aquatica (Retz.) Rosc., 275
argentea (Burt & Smith) R. M. Smith,
 282
borneensis Val. ex Gagnep., 278
brachypoda K. Schum., 271, 288
capitellata Jack, 274
cornu-cervi Ridley, 275
crocydocalyx K. Schum., 268, 288
cylindrostachys K. Schum., 288, 304
exostylis K. Schum., 275
flava Ridley, 278
flexistamen K. Schum., 286
fraseriana Oliv., 275
glabra Ridley, 284
 var. *reticulata* R. M. Smith, 287
grandiceps Ridley, 274
hansenii R. M. Smith, 281
havilandii K. Schum., 279
hookeriana Val., 283
korthalsii K. Schum., 284
latilabris Ridley, 283
laxiflora Gagnep., 284
ligulata K. Schum., 276
longilora Ridley, 264, 288
martinii R. M. Smith, 281
melanocarpa (Teyss. & Binn.) Ridley, 275
microlophon Ridley, 283
mutica sensu Hook. f., 283
mutica Roxb., 284
 var. *laxiflora* (Gagnep.) Gagnep., 284
nieuwenhuizii Val., 278
polycarpa K. Schum., 288, 300
ptychanthera K. Schum., 279
quadriloba Ridley, 275
reticosa Ridley, 276
rosella Ridley, 275
rubella Ridley, 275
sericea Ridley, 283
strobilifera Bak., 271
sumatrana (Miq.) K. Schum., 275
tamacuensis R. M. Smith, 282
 sp., 281, 284
Alstroemeria aurantiaca D. Don, The
 correct name for, 150
Alstroemeria aurantiaca D. Don, 150, 570
aurea Graham, 150, 570
neillii Gillies ex Graham, 570
pallida Graham, 570
spathulata Presl, 570
 AL-TAEY, RAFIDA ABDULLA & HOSSAIN,
 MOSHARRAF
 Studies in Gundelia: 1. A new species
 from Iraq, 39

- Amomum* Roxb., 295
anomalum R. M. Smith, 300
bicorniculatum K. Schum., 308
burtii R. M. Smith, 301
cerasium Ridley, 308
coriaceum R. M. Smith, 288, 304
dicotyleum K. Schum., 308
fimbriobraceatum K. Schum., 312
flavidulum Ridley, 312
flavo-album R. M. Smith, 310
gracilipes K. Schum., 308
gyrolaphos R. M. Smith, 305
hansenii R. M. Smith, 303
havilandii K. Schum., 293, 312
hewittii Ridley, 307
lambirensis R. M. Smith, 298
laxisquamosum K. Schum., 305
ligulatum R. M. Smith, 298
longipedunculatum R. M. Smith, 309
luteum R. M. Smith, 310
macroglossum K. Schum., 305
nasutum K. Schum., 312
oliganthum K. Schum., 307
paucifolium R. M. Smith, 307
phaeochoana K. Schum., 294, 312
polycarpum (K. Schum.) R. M. Smith, 272, 288, 300
pungens R. M. Smith, 301
pyramidosphaera K. Schum., 312
reticulatum K. Schum., 292, 312
ridleyi R. M. Smith, 311
sarawacense K. Schum., 295, 304
scyphiferum Koenig, 292
stenosiphon K. Schum., 312
stoloniferum K. Schum., 312
surculosum K. Schum., 312
sylvestre Ridley, 311
testaceum Ridley, 311
xanthophlebium Bak., 309
sp. Merrill, 312
sp., 309, 312
Amphoricarpus praedictus Ayaşlıgil & Grierson, 70
Anadenia manglesii [Hort. ex] Graham, 585
Anatolia, More new taxa from south and east, 61
Anatomy of *Dionysia* II. Xeromorphic features, 327
Androsace aizoon Duby
 subsp. *brirensis* Y. Nasir, 563
blatistanica Y. Nasir, 563
harrissii Duthie, 563
hazarica R. R. Stewart ex Y. Nasir, 563
himalaica (Kunth) Hand.-Mazz.
 subsp. *kurramensis* Y. Nasir, 563
linearis Graham, 585
occidentalis Pursh, 585
Anthochlamys rechingeri Aellen, 560
Anthriscus nemorosa (Bieb.) Sprengel
 var. *glabriusculus* Nasir, 565
Anthurium coriaceum (Graham) G. Don, 570
harrisii (Graham) G. Don, 571
harrisii (Graham) Kunth
 var. *grahamianum* Engler, 571
Arabis bourgovii Rydberg, 576
drummondii Gray, 576
holboellii Hornem.
 var. *retrofracta* (Graham) Rydberg, 575
patula (Graham) Torrey, 576
retrofracta Graham, 575
Arbutus pilosa Graham, 576
ARGENT, G. C. G., LAMB, A. & PHILLIPPS, A.
 New taxa and combinations in *Vireya*
 Rhododendrons from Sabah (Borneo), 113
Argyrella incana (E. Meyer ex Hochst.) Naud., 583
Aristella (Trin.) Bertol., 397
 bromoides (L.) Bertol., 401
 longiflora Regel, 390
Aristolochia guichardii Davis & Khan, 75
Artanema fimbriatum (Hook. ex Graham) D. Don, 558
Arthrostemma nitida Graham, 583
Aster confertifolius Hilliard & Burt, 228
Astragalus albavillosus Kitamura
 var. *nigrescens* Ali, 562
chitralensis Ali, 562
elazigense Ekim, 83
gilgitensis Ali, 562
imitensis Ali, 562
minuto-foliolatus Wendelbo, 562
oihorensis Ali, 562
pseudochlorostachys Ali, 562
punjabicus Sirj., 562
scorpiurus Ali, 562
staintonianus Ali, 562
Asyneuma strictum Wendelbo, 560
Australina acuminata Wedd., 259
caffra (Thunb.) Fourcade, 259
AYASLIGIL, Y.
 New taxa and records from SW Turkey, 69
Baccharis alata Graham, 574
Begonia dietrichiana Irmsch., 572
 dipetala Graham, 571
 diversifolia Graham, 571
 fischeri Otto ex Graham, 572
 heracleifolia Schldl. & Cham, 572
 homonyma Steudal, 572
 insignis Graham, 572
 papillosa Graham, 572
 radiata Graham, 572
 sinuata Graham, 572
 undulata Graham, 572
Berberis section *Wallichianae*, A synopsis of, 529

Berberis

- sect. *Wallichianae* Schneider, 532, 544
- subsect. *Acuminatae* Ahrendt, 540
- subsect. *Baranadanae* Schneider, 538
- subsect. *Candidulae* Schneider, 535
- subsect. *Hookerianae* Ahrendt, 532
- subsect. *Insignes* Schneider, 536
- subsect. *Pruinosae* Schneider, 550
- subsect. *Sanguineae* Schneider, 542
- subsect. *Subleves* Ahrendt, 555
- subsect. *Triacanthophorae* Schneider, 544
- subsect. *Verruculosae* Ahrendt, 535
- subsect. *Wallichianae* Schneider, 537
- ser. *Acuminatae* (Ahrendt) Chamberlain & Hu, 540
- ser. *Baranadanae* (Schneider) Chamberlain & Hu, 538
- ser. *Hookerianae*, 532
- ser. *Insignes* (Schneider) Chamberlain & Hu, 536
- ser. *Leves* (Ahrendt) Chamberlain & Hu, 551
- ser. *Pruinosae* (Schneider) Chamberlain & Hu, 550
- ser. *Sanguineae* (Schneider) Chamberlain & Hu, 542
- ser. *Verruculosae* (Ahrendt) Chamberlain & Hu, 535
- ser. *Wallichianae* (Schneider) Chamberlain & Hu, 544
- subser. *Replicantae* Ahrendt, 544
- subser. *Soulieanae* Ahrendt, 544
- acuminata* Franchet, 540
- alpicola* Schneider, 539
- amabilis* Schneider, 547
- arguta* (Franchet) Schneider, 541
- aristo-serrulata* Hayata, 539
- asmyana* Schneider, 536
- atrocarpa* Schneider, 555
 - var. *longipes* Ahrendt, 556
 - var. *subintegra* Ahrendt, 555
- barandana* Vidal, 538, 539
- bergmanniae* Scheider, 546
 - var. *acanthophylla* Schneider, 546
 - var. *bergmanniae*, 546
- bhutanensis* Ahrendt, 547
- bicolor* Lévl., 539, 540
- brevispala* Hayata, 539
- × *bristolensis* Ahrendt, 556
- buchananii* Schneider, 542
 - var. *tawangensis* Ahrendt, 533
- bullata* Ahrendt, 556
- calliantha* Mulligan, 533
- calliantha* × *verruculosa*, 556
- candidula* Schneider, 536
- cavaleriei* Lévl., 553
- centiflora* Diels, 550
- × *chenaultii* Ahrendt, 556
- chingii* Cheng, 547,
- × *chiternensis* Ahrendt, 556
- chrysophaera* Mulligan, 534
- collettii* Schneider, 549
- coxii* Schneider, 534
- dasyclada* Ahrendt, 536
- davidii* Ahrendt, 543
- deinacantha* Schneider, 548
 - var. *deinacantha*, 548
 - var. *valida* Schneider, 548
- delavayi* Schneider, 542
 - var. *wachinensis* Ahrendt, 534
- densa* Schneider, 543
- dolichostemon* Ahrendt, 553
- dumicola* Schneider, 551
- emellii* Schneider, 553
- fallaciosa* Schneider, 541
- fallax* Schneider, 542, 543
- ferdinardi-coburgii* Schneider, 554
 - var. *vernalis* Schneider, 554
- formosana* Ahrendt, 539
- formosana* Li, 540
- gagnepainii* Schneider, 535
 - var. *filipes* Ahrendt, 535
 - var. *gagnepainii*, 535
 - var. *lanceifolia* Ahrendt, 535
 - f. *pluriflora* Ahrendt, 535
 - var. *omeiensis* Schneider, 535
 - var. *subovata* Schneider, 555
- griffithiana* Schneider, 547
 - var. *griffithiana*, 547
 - var. *pallida* (Hook. f. & Thomson) Chamberlain & Lu, 547
- grodtnannia* Schneider, 552
 - var. *flavaramaea* Schneider, 552
 - var. *grodtnannia*, 552
- hayata* Mizushima, 540
- helenae* Ahrendt, 556
- hibbardiana* Ahrendt, 550
- holocraspedon* Ahrendt, 548
- hookeri* Lemaire, 533
 - subsp. *hookeri*, 533
 - subsp. *longipes* Chamberlain & Hu, 533
- var. *hookeri* × *verruculosa*, 556
- var. *microcarpa* Ahrendt, 533
- var. *platyphylla* Ahrendt, 533
- var. *viridis* Scheider, 533
- hsuyunensis* Hsiao & Sung, 535
- × *hybrido-gagnepainii* Suringar, 556
- hypokerina* Airy-Shaw, 537
- impedita* Schneider, 541
- incrassata* Ahrendt, 537
 - var. *bucawahwangensis* Ahrendt, 537
- insignis* Hook. f. & Thomson, 536
 - subsp. *incrassata* (Ahrendt) Chamberlain & Hu, 537
 - subsp. *insignis*, 536
 - var. *elegantifolia* Ahrendt, 537
 - var. *gouldii* Ahrendt, 537
 - var. *shergaonensis* Ahrendt, 537
 - var. *tongloensis* Schneider, 536
 - var. *zelaica* Ahrendt, 536

Berberis contd.

- insolita* Schneider, 544
× *interposita* Ahrendt, 556
julianae Schneider, 553
var. *oblongifolia* Ahrendt, 553
var. *patungensis* Ahrendt, 553
kawakamii Hayata, 539
lempergiana Ahrendt, 547
leptopoda Ahrendt, 548
levis Franchet, 551, 552
var. *brachyphylla* Ahrendt, 552
lijiangensis Chamberlain & Hu, 534
liophylla Schneider, 550
var. *conglobata* Ahrendt, 533
lubrica Schneider, 544
mairei Ahrendt, 551
manipurana Ahrendt, 549
micropetala Schneider, 549
mingetanensis Hayata, 539
nantoensis Schneider, 539
nemorosa Schneider, 553
orthobotrys Bien. ex Aitch.
subsp. *capitata* Jafri, 559
× *oxoniensis* Ahrendt, 556
parlanensis Ahrendt, 543
paraspecta Ahrendt, 543
petrogena Schneider, 543
phanera Schneider, 534
pingshanensis Sung & Hsiao, 541
poluninii Ahrendt, 548
praecipua Schneider, 548
var. *major* Ahrendt, 553
pruinosa Franchet, 550
var. *barresiana* Ahrendt, 556
var. *brevifolia* Ahrendt, 556
var. *brevipes* Ahrendt, 550
var. *centiflora* (Diels) Hand.-Mazz., 550
var. *longifolia* Ahrendt, 556
var. *punctata* Ahrendt, 556
var. *serratifolia* Ahrendt, 556
var. *tenuipes* Ahrendt, 551
var. *viridifolia* Schneider, 551, 553
recurvata Ahrendt, 541
replicata W. W. Smith, 547
var. *dispar* Ahrendt, 548
sanguinea Franchet, 543
sargentiana Schneider, 541
schneideriana Ahrendt, 553
silvicola Schneider, 541
var. *angustata* Ahrendt, 555
simulans Schneider, 541
soulieana Schneider, 546
var. *paucinervata* Ahrendt, 546
stenophylla Hance, 546
stewartiana Jafri, 559
subacuminata Schneider, 543
subcoriacea Ahrendt, 534
sublevis W. W. Smith, 555
var. *exquisita* Ahrendt, 555
var. *gracilipes* Ahrendt, 555
var. *grandiflora* Schenider, 555
subpteroclada Ahrendt, 547
var. *impar* Ahrendt, 547
var. *minoripes* Ahrendt, 548
triacanthophora Fedde, 546
taliensis Schneider, 547
taronensis Ahrendt, 548
var. *trimensis* Ahrendt, 548
valida (Schneider) Schneider, 549
veitchii Schneider, 546
veitchii × ? *verruculosa*, 556
venusta Schneider, 546
vernalis (Schneider) Chamberlain & Hu, 554
verruculosa Hemsley & Wilson, 535, 536
verruculosa × *gagnepainii*, 556
victoriana Chamberlain & Hu, 554
wallichiana sensu Hooker, 533
wallichiana DC., 532, 537, 544, 549
var. *gracilipes* Ahrendt, 554
var. *microcarpa* Hook. f. & Thomson, 555
var. *pallida* Hook. f. & Thomson, 547
var. *xanthoxylon* Schneider, 538
f. *arguta* Franchet, 541
f. *parvifolia* Franchet, 543
wangii Schneider, 535
wardii Schneider, 549
× *watlingtonensis* Ahrendt, 556
willieana Schneider, 552
var. *serrulata* Schneider, 552
× *wintonensis* Ahrendt, 556
wisleyensis Ahrendt, 556
wokingensis Ahrendt, 556
xanthoclada Schneider, 549
xanthoxylon Hasskarl, 539
xanthoxylon (Schneider) Schneider, 538
var. *junghuhniana* Ahrendt, 539
var. *sumatranica* Ahrendt, 539
zanlanschianensis Pamp., 556
Berkheya griquana Hilliard & Burt, 229
Billbergia cruenta (Graham) Hook., 572
Biota orientalis (L.) Endlicher, 595
Bletia patula Graham, 584
Blumenbachia insignis Schrader, 582
Boissiera Hochst. ex Steudel, 492
BOKHARI, M. H. & WENDELBO, P.
Anatomy of *Dionysia* II. Xeromorphic features, 327
BOOK REVIEWS
British and Irish Herbaria by D. H. Kent & D. E. Allen, 594
Conspectus Florae Orientalis: an annotated catalogue of the flora of the Middle East. Fasc. 2. M. Zohary, C. C. Heyn, D. Heller (eds), 351
The European Garden Flora. Vol. II: Monocotyledons (Part II). S. M. Walters et al. (eds), 350
The genus *Trifolium* by M. Zohary & D. Heller, 599

BOOK REVIEWS contd.

- The Orchids of Nepal Himalaya by M. L. Banerji & P. Pradhan, 353
- Bossiaea cinerea* R. Br., 579
- tenuicaulis* Graham, 579
- Bouvardia splendens* Graham, 586
- ternifolia* (Cav.) Schldl., 586
- triphylla* Salisb.
- var. *splendens* (Graham) Lindley, 586
- Bowlesia asiatica* E. Nasir, 565
- Brachycome diversifolia* (Graham) Fischer & C. Meyer, 575
- Brachysiphon fucatus* (L.) Gilg., 584
- Brachystelma caudatum* (Thunb.) N. E. Brown, 571
- crispum* Graham, 571
- Bretschneidera Hemsl., The chromosomes of, 347
- Bromelia cruenta* Graham, 572
- Bromopsis variegata* (Bieb.) Holub
- subsp. *villosula* (Steudel) Tzvelev, 486
- Bromus*
- sect. *Boissiera* (Hochst. ex Steudel) P. M. Smith, 492
- adjaricus* Somm. & Levier, 496
- arvensis* L., 499
- cappadocicus* Boiss. & Bal.
- subsp. *sclerophyllus* (Boiss.) P. M. Smith, 496
- hordeaceus* L., 498
- subsp. *thominii* (Hardouin) Maire & Weiller, 496
- madritensis* L., 500
- psammophilus* P. M. Smith, 492
- pubescens* C. Koch, 496
- pumilio* (Trin.) P. M. Smith, 491, 492
- racemosus* L., 499
- rubens* L., 500
- sclerophyllus* Boiss., 496
- scoparius* L., 499
- secalinus* L., 497
- squarrosus* L., 499
- sterilis* L., 500
- strictostachys* P. M. Smith, 493
- tectorum* L., 500
- thominii* Hardouin, 496
- variegatus* Bieb.
- subsp. *villosulus* (Steudel) P. M. Smith, 496
- villosulus* Steudel, 496
- Browallia grandiflora* Graham, 588
- Bunium stewartianum* E. Nasir, 565
- Bupleurum aitchisonii* (Boiss.) Wolff
- f. *astro-violacea* O. E. Schulz, 565
- canaliculatum* Diels, 565
- constancei* E. Nasir, 565
- kohistanicum* E. Nasir, 565
- longicaule* Wall. ex DC.
- var. *hazaricum* E. Nasir, 565
- var. *ramosum* E. Nasir, 566
- nigrescens* E. Nasir, 566
- stewartianum* E. Nasir, 566
- swatianum* E. Nasir, 566
- Burbridgea* Hook f., 262
- longilora* (Ridley) R. M. Smith, 264, 288
- nitida* Hook. f., 264
- pauciflora* Val., 264
- pubescens* Ridl., 265
- schizoecheila* Hackett, 265
- stenantha* Ridley, 265
- BURTT, B. L. & HILLIARD, O. M.
- Notes on some plants of southern Africa chiefly from Natal: XI, 227
- A revision of *Geranium* in Africa south of the Limpopo, 171
- Calamintha betulifolia* Boiss. & Bal., 75
- tauricola* P. H. Davis, 75
- Calceolaria arachnoidea* Graham, 587
- connata* Hook. ex Graham, 587
- purpurea* Graham, 587
- thyrsiflora* Graham, 587
- Calochortus barbatus* (H. B. K.) Painter, 581
- Calyptrostegia nana* (Graham) Endl., 590
- Campanula antalyensis* Ayaşlıgil & Kit Tan, 71
- staintonii* Rech. f. & Schiman-Czeika, 560
- tenuissima* Dunn, 560
- Cardamine violacea* (D. Don) Hook. f. & Thoms.
- subsp. *bhutanica* Grierson, 109
- Carex chitralensis* Nelmis, 561
- Carpinus orientalis* Miller
- subsp. *orientalis*, 75
- Carumbium populifolium* (Graham) Benth., 577
- Cassia opaca* Graham, 579
- Castelia cuneato-ovata* Cav., 591
- Catalogue of the names published by Hector Léveillé: XVIII, 595
- Catimbum* Lestib., 273
- Cattleya intermedia* Graham, 584
- Cenolophon argenteum* Burtt & Smith, 282
- Centaurea athoa* DC., 75
- Cephalaria lycica* Matthews, 75
- Cephalorrhyncus chitralensis* Tuisl, 560
- Cerastium pisidicum* Ayaşlıgil & Kit Tan, 70
- Cereus napoleonis* Graham, 573
- Ceropegia bulbosa* Roxb., 571
- lushii* Graham, 571
- mansouriana* Chaudhary & Lavranos, 317
- tihamana* Chaudhary & Lavranos, 316
- Chaenorhinum minus* (L.) Lange
- subsp. *anatolicum* Davis, 75
- Chaerophyllum reflexum* Lindley
- var. *occidentale* Hedge & Lamond, 566
- CHAMBERLAIN, D. F. & HU, C. M.
- A synopsis of *Berberis* section Wallichianae, 529

- CHAUDHARY, SHAUKAT A. & LAVRANOS, JOHN J.
 Studies in the Flora of Arabia: XVI. Two new species of *Ceropegia* from Saudi Arabia, 315
- Chelonopsis albiflora* Pax ex K. Hoffm.
 var. *cashmeriana* Mukerji, 561
- Chorizema baxteri* Graham, 579
dicksonii Graham, 579
scandens Sm., 579
- Chromosomes of *Bretschneidera* Hemsl., 347
- Cistanche lutea* Hoffm. & Link, 28
lutea Hoffg., 28
phelypaea (L.) Cout., 28
- Cleome heratensis* Bunge & Bien. ex Boiss.
 subsp. *pakistanica* Jafri, 560
- Coccosypselum campanuliflorum* (Hook.) Cham. & Schldl., 586
- Collinsia bicolor* Benth., 587
heterophylla Buist ex Graham, 587
- Commelina diffusa* Burm. f., 574
formosa Graham, 574
- Conobea alata* Graham, 588
- Conospermum acinacifolium* Graham, 585
- Corchorus pseudo-olitorius* Islam & Zaid, 565
- Cordylone baueri* Hook. f., 581
obtecta (Graham) Baker, 581
- Correct name for *Alstroemeria aurantiaca* D. Don, 150
- Cortia schmidii* E. Nasir, 566
- Cortus matthioli*
 subsp. *hazarica* Y. Nasir & Ali, 563
- Corydalis adiantifolia*
 var. *heterocarpa* Jafri, 561
- bowes-lyonii* Long, 99
- calliantha* Long, 105
- cashmeriana* Royle
 subsp. *brevicornu* (Prain) Long, 90
 subsp. *cashmeriana*, 88
 var. *brevicornu* Prain, 90
 var. *ecristata* Prain, 91
- casimiriana* Duthie & Prain, 102
- cavei* Long, 103
- changuensis* Long, 102
- delicatula* Long, 97
- dorjii* Long, 93
- drepanantha* Long, 101
- ecristata* (Prain) Long, 91
 var. *ecristata*, 91
 var. *longicalcarata* Long, 93
- gerdae* Fedde
 var. *physodes* Long, 87
- govianiana* Wall.
 var. *malukiana* Jafri, 561
- iochanensis* Léveillé, 98
- jigmei* Fischer & Kaul, 90
- laelia* Prain
 subsp. *bhutanica* Long, 96
- murreeana* Jafri, 561
- pakistanica* Jafri, 561
- prainiana* Kanodia & Mukerjee, 102
- pseudo-crithmifolia* Jafri, 561
- stewartii* Fedde, 561
- triternata?* sensu Prain, 93
- Cousinia chitralensis* Rech. f., 560
- Crotalaria dichotoma* Graham, 580
- pumila* Ortega, 580
- Crucianella angustifolia* L., 75
imbricata Boiss., 75
- Cryptomeria fortunei* [Hooibrenk ex] Otto & Dietr., 595
japonica (L.) D. Don
 var. *sinensis* Miq., 595
mairei (Lévl.) Nakai, 595
- Ctenanthe setosa* (Roscoe) Eichler, 583
- Cubanola daphnoides* (Graham) Aiello, 586
- Cunninghamia lanceolata* (Lamb.) Hook., 596
sinensis R. Br.
 var. *prolifera* Lemée & Lévl., 596
- Cupressus mairei* Lévl., 595
- Cuscuta (Convolvulaceae), Hydnoraceae, Orobanchaceae. Some parasitic angiosperms of Sudan, 21
- Cuscuta arabica* Fres., 32
australis R. Br., 37
brevistyla A. Braun ex A. Rich., 33
campestris Yunker, 36
chinensis Lam., 37
cordofana (Engelm.) Yunker, 37
hyalina Roth, 33
kilimanjari Oliv., 35
obtusiflora
 var. *cordofana* Engelm., 37
pedicellata Ledeb., 32
planiflora Ten., 33
- Cuviera caput-medusae* (L.) Koeler
 var. *aspera* Simonkai, 81
- Cyphella drummondii* Graham, 578
- Delphinium from Saudi Arabia, A new. Studies in the Flora of Arabia XIII, 17
- Delphinium nordhagenii* Wendelbo, 563
penicillatum Boiss., 19
sheilae Kit Tan, 17
- Desmodium elegans* DC.
 var. *nutans* (Graham) Ohashi, 580
- Dianthus roseoluteus* Vel., 75
- Didiscus coeruleus* (Graham) Hook., 591
- Dionysia II. Anatomy of. Xeromorphic features, 327
- Dipolophium buchananii* (Oliver) Norman
 subsp. *swynnertonii* (Baker f.) Cannon, 259
swynnertonii (Baker f.) Norman, 259
- Dissotis canescens* (E. Meyer ex Graham) Hook. f., 583
incana (E. Meyer ex Hochst.) Triana, 583
- Donacodes tomentosus* Bl., 290
villosus Teysm. & Binn., 290

- Draba aubrietoides* Jafri, 560
crassifolia Graham, 576
gracilis Graham, 576
hicksii Grierson, 107
memorosa L.
 var. *leiocarpa* Lindblom, 576
pakistanica Jafri, 560
sherriffii Grierson, 108
Dracaena oblecta Graham, 581
Drimia modesta (Baker) Jessop, 252
Dysophylla pumila (Graham) Benth., 578

Edwardsiana macnabiana Graham, 580
EKIM, T.
 Some new taxa and records for Turkey, 83
Elephantopus martii Graham, 574
sericeus Graham, 575
tomentosus L., 574
Elettaria minor Bl., 294
surculosa (K. Schum.) Burt & Smith, 312
Elettariopsis stenosisiphon (K. Schum.) Burt & Smith, 312
EL-SHEIKH, A. M., MIGAHD, A. M., FREY, W. & KÜRSCHNER, H.
 Zonation and photosynthetic pathways of halophytes on the Red Sea coast near Tawwal (Saudi Arabia), 45
Elymus L., 77
 caespitosus Sukaczew, 80
 cappodocicus Boiss. & Bal., 81
 clivorum Melderis, 77
 crinitus Schreiber, 81
 divaricatus Drobov, 79
 elongatus (Host) Runemark
 subsp. *salsus* Melderis, 77
 subsp. *turcicus* (McGuire) Melderis, 81
 erosighumis Melderis, 78
 fartus (Viv.) Runemark ex Melderis
 subsp. *bessarabicus* (Savul. & Rayss) Melderis
 var. *striatulus* (Runemark) Melderis, 82
 subsp. *fartus*
 var. *sartorii* (Boiss. & Heldr.) Melderis, 78
 gentryi (Melderis) Melderis, 82
 hispidus (Opiz) Melderis
 subsp. *podpyrae* (Nab.) Melderis, 78
 subsp. *pulcherrimus* (Grossh.) Melderis, 78
 koshaninii (Nab.) Melderis, 79
 lazicus (Boiss.) Melderis, 79
 subsp. *attenuatigumis* (Nevski) Melderis, 79
 subsp. *divaricatus* (Boiss. & Bal.) Melderis, 79
 subsp. *lomatolepis* Melderis, 79
 longearistatus (Boiss.) Tzvelev
 subsp. *sintenisii* Melderis, 79
 nodosus (Nevski) Melderis
 subsp. *caespitosus* (C. Koch) Melderis, 80
 subsp. *gypsiculus* Melderis, 80
 subsp. *platyphyllus* Melderis, 80
 subsp. *sinuatus* (Nevski) Melderis, 80
 sosnowskyi (Hackel) Melderis, 80
 striatulus Runemark, 82
 tauri (Boiss. & Bal.) Melderis, 81
 subsp. *pertenuis* (C. A. Meyer) Melderis, 81
Elytrigia caespitosum (C. Koch) Nevski
 subsp. *sinuata* (Nevski) Tzvelev, 80
 intermedia (Host) Nevski
 subsp. *pulcherrima* (Grossh.) Tzvelev, 79
 tauri (Boiss. & Bal.) Tzvelev
 subsp. *pertenuis* (C. A. Meyer) Tzvelev, 81
 turica McGuire, 81
Epacris ceraeflora Graham, 576
 impressa Labill., 576
 nivalis Loddiges, 576
Epilobium chitralense Raven, 562
 royleanum Hausskn.
 f. *glabrum* Raven, 562
Eremophila glabra (R. Br.) Ostenf., 583
Eremopyrum (Ledeb.) Jaub. & Spach, 81
 bonaepartis (Spengel) Nevski
 subsp. *hirsutum* (Bertol.) Melderis, 81
Erica L., 239
 albospicata Hilliard & Burt, 240
 anomala Hilliard & Burt, 242
 austroverna Hilliard, 243
 caespitosa Hilliard & Burt, 244
 dissimulans Hilliard & Burt, 245
Erigeron humilis Graham, 575
Eriocyclus staintonii Riedl & Kuber, 566
Eriostemon gracile Graham, 586
Erythrocoma triflora (Pursh) E. L. Greene, 586
Euonymus scandens Graham, 574
Euphorbia cruentata Graham, 577
Euphrasia aristulata Pennell, 564
 densiflora Pennell, 564
 flabellata Pennell, 564
 foliosa Pennell, 564
 incisa Pennell, 564
 laxa Pennell, 564
 multiflora Pennell, 564
 platyphylla Pennell, 564
 remota Pennell, 564
 secundiflora Pennell, 564
Eutoca sericea Graham, 577

Ferraria elongata Graham, 578
Ferula stewartiana O. E. Schulz, 566
FREITAG, H.
 The genus *Stipa* (Gramineae) in southwest and south Asia, 355

- FREY, W., KÜRSCHNER, H., EL-SHIEKH, A. M. & MIGAHID, A. M.
 Zonation and photosynthetic pathways of halophytes on the Red Sea coast near Tawwal (Saudi Arabia), 45
- Fritillaria cuprea* Graham, 581
leucantha Fischer ex Schult., 581
leucantha Fischer ex Graham, 581
verticillata Willd., 581
- Gagea kashmiriensis* Turrill, 562
Galium asparagifolium Boiss. & Heldr., 76
setaceum Lam., 76
Gardoa gilliesii Graham, 578
Gaudiniopsis macra (M. Bieb.) Eig
 subsp. *micropyroides* (H. Scholz) Ayaşlıgil & Kit Tan, 74
micropyroides H. Scholz, 74
Gaultheria humifusa (Graham) Rydberg, 591
myrsinites Hook., 591
Geanthus fimbriobraceatus (K. Schum.) Burt & Smith, 312
sanguineus (Ridl.) R. M. Smith, 295
Gelasine azurea Herb., 578
Gentiana caespitosa Graham, 577
glauca Pall., 577
Geranium L. from China. New taxa of, 325
Geranium in Africa south of the Limpopo, 171
Geranium
 sect. *Incana* Reiche, 180
 sect. *Simensia* Knuth, 221
alticola [Schltr. ex] Knuth, 203
amatolicum Hilliard & Burt, 211
angustipetalum Hilliard & Burt, 185
arabicum Forssk., 221
baurianum Knuth, 215
brycei N. E. Br., 183
cafferum Ecklon & Zeyher, 199
canescens L'Hérit., 189
contortum Ecklon & Zeyher, 214
costatum Graham, 577
discolor Hilliard & Burt, 186
dissectum L., 223
drakensbergense Hilliard & Burt, 190
dregei Hilliard & Burt, 201
elongatum Salisb., 195
flanagani [Schltr. ex] Knuth, 218
flexuosum E. Mey., 215
glandulosum [Lehm. ex] Ecklon & Zeyher, 189
grandistipulatum Hilliard & Burt, 213
harveyi Briq., 187
incanum auct. non Burm. f., 191
incanum Burm. f., 195
 subsp. *nyassense* (Knuth) Laundon, 198
 var. *β flore rubro* Ecklon & Zeyher, 197
 var. *glabrius* Knuth, 191
 var. *grandicalyculatum* Knuth, 191
 var. *incanum*, 195
 var. *multifidum* (Sweet) Hilliard & Burt, 197
 var. *pottiae* Burt Davy, 180
 var. *purpureum* Burt Davy, 191
knysnaense Knuth, 216
kweichowense Huang, 325
lanuginosum Knuth, 182
magniflorum Knuth, 194
molle L., 223
multifidum Sweet, 197
multisectum N. E. Br., 191
natalense Hilliard & Burt, 204
nyassense Knuth, 198
ocellatum Camb.
 var. *yunnanense* R. Knuth, 326
ornithopodioides Hilliard & Burt, 220
ornithopodon auct., 218
ornithopodon Ecklon & Zeyher, 216
 var. *album* Kuntze, 208
 var. *lilacinum* Kuntze, 205
pratense L.
 subsp. *stewartianum*
 var. *schmidii* Y. Nasir, 561
 var. *stewartianum* Y. Nasir, 561
pulchrum N. E. Br., 182
purpureum Vill., 224
robustum Kuntze, 180
rotundifolium L., 222
schlechteri Knuth, 205
sericeum Harvey, 187
simense [Hochst. ex] A. Rich., 222
sparsiflorum [Schltr. ex] Knuth, 203
subglabrum Hilliard & Burt, 202
tapintzense Huang, 326
thodei [Schltr. ex] Knuth, 183
wakkerstroomianum Knuth, 208
- Geum triflorum* Pursh, 586
Glyceria kashmiriensis Kelso, 563
tonglensis C. B. Clarke, 563
Gnetum cavaleriei Lévl., 595
Gompholobium polymorphum R. Br.
 var. *luteum* Graham, 580
- Gramineae tribe Triticeae from Turkey.
 New taxa and combinations in, 77
- Grevillea baueri* R. Br., 585
glabrata (Lindley) Meisn., 585
pubescens Graham, 585
- GRIERSON, A. J. C.
 Notes relating to the Flora of Bhutan: X, 107
- Gundelia purpurascens* Bornm., 43
rosea Hossain & Al-Taey, 41
tournefortii L.
 var. *β* L., 41
 f. *purpurascens* Bornm., 41
- Gypsophila gmelinii* Bunge, 64
hakkiarica Kit Tan, 61
koeii Rech. fil., 64
patrinii Ser., 64

- Gypsophila* contd.
perfoliata L.
 var. *araratica* Kit Tan, 63
polyclada Fenzl ex Boiss., 64
- Halenia fischeri* Graham, 577
Hardenbergia comptoniana Benth., 580
 HEDGE, I. C.
 A memorial to Prof. Michael Zohary (review), 351
 A world monograph of *Trifolium* (review), 599
- Hedyotis campanuliflora* Hook., 586
Hedysarum nutans Graham, 580
Helichrysum bracteatum Willd.
 var. *album* DC., 575
niveum Graham, 575
Helicteres apetalata Jacq., 128
Hellenia melanocarpa Teysm. & Binn., 275
Heracleum peshmeniana Ekim, 84
Heritiera aquatica Retz., 275
Heteropteris fulgens Graham, 582
fulgens (Lam.) H. B. K., 582
Heuchera glabra Willd., 587
Hibiscus divaricatus Graham, 582
splendens Fischer ex Graham, 582
- HILLIARD, O. M. & BURTT, B. L.
 Notes on some plants of southern Africa chiefly from Natal: XI, 227
 A revision of *Geranium* in Africa south of the Limpopo, 171
- Homalanthus populifolius* Graham, 577
Hordeum hirsutum Bertol., 81
Hornstedtia Retz., 289
affinis Ridley, 294, 312
brachychilus Ridley, 295
havilandii (K. Schum.) K. Schum., 293, 312
hewittii Ridley, 295
incana R. M. Smith, 290
licmeres Ridley, 295
longipes Ridley, 293
minor (Bl.) K. Schum., 294
minor (Bl.) Val., 294
phaeochoana (K. Schum.) K. Schum., 294
pinigra (Bl.) Val., 293
 var. *borneense* R. M. Smith, 293
reticulata (K. Schum.) K. Schum., 292, 312
sanguinea Ridley, 295
sarawacensis (K. Schum.) K. Schum., 295, 304
scyphifera (Koenig) Steud., 292
spathulata Ridley, 295
tomentosa (Bl.) Bakh. f., 290
triloba Ridley, 295
velutina Ridley, 295
villosa (Taysm. & Binn.) Val., 290
winkleri Ridley, 295
- HOSSAIN, MOSHARRAF & AL-TAEY, RAFIDA ABDULLA
 Studies in *Gundelia*: 1. A new species from Iraq, 39
- HU, C. M. & CHAMBERLAIN, D. F.
 A synopsis of *Berberis* section *Wallichianae*, 529
- HU, CHI-MING & YANG DI-QUING
 The chromosomes of *Bretschneidera* Hemsl., 347
- HUANG, CHENG-CHIU
 New taxa of *Geranium* L. from China, 325
- Hydnora abyssinica* A. Br., 23
johannis Beccari, 23
- Hydnoraceae, Orobanchaceae, and *Cuscuta* (Convolvulaceae). Some parasitic angiosperms of Sudan, 21
- Hylocereus napoleonis* (Graham) Britton & Rose, 573
- Iberis attica* Jord., 74
Imperialis leucantha Fischer, 581
Ipheion uniflorum (Graham) Raf., 581
Ivira Aublet, 123
pruriens Aublet, 143
- Juncus compressus* Jacq.
 var. *pseudo-gerardii* Jafri, 561
- Juniperus formosana* Hayata, 596
franchetiana Lévl., 596
lemeeana Lévl. & Blin., 596
mairiei Lemée & Lévl., 596
squamata [Buch.-Ham. ex] Lamb., 596
 var. *fargesii* Rehder & Wilson, 596
- Kennedia comptoniana* Link
 var. *quinquefolia* Graham, 580
- Keteleeria davidiana* (Bertr. ex Carr.) Beissn., 596
esquirolii Lévl., 596
- Kikxia subsessilis* Pennell, 564
- KÜRSCHNER, H., EL-SHIEKH, A. M., MIGAHD, A. M. & FREY, W.
 Zonation and photosynthetic pathways of halotypes on the Red Sea coast near Tawwal (Saudi Arabia), 45
- LAMB, A., PHILLIPPS, A. & ARGENT, G. C. G.
 New taxa and combinations in *Vireya* *Rhododendrons* from Sabah (Borneo), 113
- Languas* Small, 273
angustifolia (K. Schum.) Merr., 286
borneensis (Val.) Merr., 278
brachypoda (K. Schum.) Merr., 272
capitellata (Jack) Merr., 274
cornu-cervi (Ridley) Merr., 275
crocydocalyx (K. Schum.) Merr., 268

- Languas* contd.
- exostylis* (K. Schum.) Merr., 275
- flava* (Ridley) Merr., 278
- flexistamen* (K. Schum.) Merr., 286
- fraseriana* (Oliv.) Merr., 275
- glabra* (Ridley) Merr., 286
- havilandii* (K. Schum.) Merr., 279
- hookeriana* (Val.) Merr., 283
- korthalsii* (K. Schum.) Merr., 284
- laxiflora* (Gagnep.) Merr., 284
- ligulata* (K. Schum.) Merr., 276
- longilora* (Ridley) Merr., 264
- microlophon* (Ridley) Merr., 283
- mutica* (Roxb.) Merr., 284
- polycarpa* (K. Schum.) Merr., 300
- ptychanthera* (K. Schum.) Merr., 279
- reticosa* (Ridley) Merr., 276
- rubella* Merr., 275
- sericea* (Ridley) Merr., 283
- strobilifera* (Bak.) Merr., 272
- sumatrana* (Miq.) Merr., 275
- Lantana hirta* Graham, 591
- mollis* Graham, 591
- Lanthraea phelypaea* L., 28
- Lasiagrostis* Link, 386
- § *Lasiagrostis* Trin. & Rupr., 386
- § *Leptanthele* Trin. & Rupr., 404
- bromoides* (L.) Nevski, 401
- caragana* (Trin.) Trin. & Rupr., 386
- jacquemontii* (Jaub. & Spach) Boiss., 394
- litwinowiana* Smirnow ex Gamajun et al., 398
- longearistata* (Boiss.) Rosh. & Nevski ex Rosh., 399
- mongholica* (Turcz. ex Trin) Trin. & Rupr., 405
- splendens* (Trin.) Knuth, 389
- subsessiliflora* Rupr., 411
- tremula* Rupr., 424
- Lasiopetalum macrophyllum* Graham, 589
- LAUENER, L. A.
- The correct name for *Alstroemeria aurantiaca* D. Don, 150
- LAUENER, L. A. & PAUL, H.
- The type specimens of Robert Graham, 567
- Lavandula* in Arabia and tropical northeast Africa, The genus, 503
- Lavandula*
- sect. *Pterostoechas* Gingins, 504
- sect. *Stoechas* Gingins, 504
- sect. *Subnuda* Chaytor, 503
- aristibracteata* A. G. Miller, 517
- atriplicifolia* Benthams, 523
- bipinnata* Kuntze
- ε *nimmoi* (Benthams) Kuntze, 514
- ζ *setifera* (T. Anderson) Kuntze, 512
- δ *subnuda* (Benthams) Kuntze, 506
- canescens* Defflers, 523
- citriodora* A. G. Miller, 522
- coronopifolia* Poiret, 519
- dentate* L., 525
- dhofarensis* A. G. Miller, 510
- subsp. *ayunensis* A. G. Miller, 512
- subsp. *dhofarensis*, 511
- galgalloensis* A. G. Miller, 515
- hasikensis* A. G. Miller, 526
- macra* Baker, 508
- nimmoi* Benthams, 514
- pubescens* Decaisne, 521
- santoliniaefolia* Spach, 525
- setifera* T. Anderson, 512
- somaliensis* Chaytor, 518
- stricta* Delile, 519
- subnuda* Benth., 503, 506.
- LAVRANOS, JOHN J. & CHAUDHARY, SHAUKAT, A.
- Studies in the Flora of Arabia: XVI. Two new species of *Ceropegia* from Saudi Arabia, 315
- LEBLEBICI, ERKUTER
- Two new species from Turkey, 321
- Léveillé, Hector Catalogue of the names published by: XVIII, 595
- Leucocarpus alatus* (Graham) D. Don, 588
- Leymus* Hochst., 81
- cappadocicus* (Boiss. & Bal.) Melderis, 81
- Libertia crassa* Graham, 578
- formosa* Graham, 578
- Liparis walkeriae* Graham, 584
- Lipostoma capitatum* (Graham) D. Don, 586
- Loasa incana* Graham, 582
- patula* Graham, 582
- pinnata* Graham, 582
- Lobelia assurgens* L.
- var. *portoricensis* (A. DC.) Urb., 574
- corymbosa* Graham
- crispa* Graham, 573
- fenestralis* Cav., 573
- jasionoides* (A. DC.) E. Wimm., 573
- kraussii* Graham, 573
- mollis* Graham, 573
- odorata* Graham, 573
- robusta* Graham, 573
- rugulosa* Graham, 574
- xalapensis* H. B. K., 573
- LONG, D. G.
- Notes relating to the Flora of Bhutan: IX.
- Corydalis* (Fumariaceae), 87
- Lupinus incanus* Graham, 580
- Lycaste aromatica* (Graham) Lindley, 584
- Macowania* Oliver, 230
- deflexa* Hilliard & Burt, 231
- Malva creeana* Graham, 582
- MANDAVILLE, JAMES P.
- Studies in the Flora of Arabia XI: Some historical and geographical aspects of a principal floristic frontier, 1
- Manglesia glabrata* Lindley, 585

- Maranta secunda* Graham, 583
Mateatia Vell. Conc., 123
curiosa Vell. Conc., 125
Maxillaria aromatica Graham, 584
 MCKEAN, D. R.
 British and Irish Herbaria (review), 594
 Catalogue of the names published by
 Hector L  veill  : XVIII, 595
 MELDERIS, A.
 New taxa and combinations in Gramineae
 tribe Triticeae from Turkey, 77
Mentha fistulosa L.
 var. *menthifolia* (Graham) Fernald, 579
 ? *pumila* Graham, 578
 MIGAHD, A. M., FREY, W., K  RSCHNER,
 H. & EL-SHEIKH, A. M.
 Zonation and photosynthetic pathways of
 halophytes on the Red Sea coast near
 Tawwal (Saudi Arabia), 45
Milla uniflora Graham, 581
 MILLER, A. G.
 The genus *Lavandula* in Arabia and
 tropical northeast Africa, 503
Mirbelia angustifolia Graham, 580
baxteri Lindley, 579
rubiifolia (Andr.) G. Don, 580
Mitella trifida Graham, 587
Monarda menthaefolia Graham, 578
 More new taxa from south and east
 Anatolia, 61
 MUSSELMAN, L. J.
 Some parasitic angiosperms of Sudan.
 Hydnoraceae, Orobanchaceae, and
 Cuscuta (Convolvulaceae), 21
Myosotis ramosissima Rochel. ex Schultes
 subsp. *ramosissima*, 75
silvatica Ehrh. ex Hoffm.
 subsp. *cyanea* Vestergren, 75
Myrica esquirolii L  vl., 598
Myricaria germanica (L.) Desv.
 subsp. *pakistanica* Qaiser, 565
 NASIR, YASIN, J. & AKHTER, RUBINA
 Vascular plant type specimens in the
 National Herbarium (RAW), Pakistan
 Agricultural Research Council,
 Islamabad, 559
Neoregelia cruenta (Graham) L. B. Smith,
 572
 New taxa and combinations in Gramineae
 tribe Triticeae from Turkey, 77
 New taxa and combinations in Vireya
 Rhododendrons from Sabah (Borneo),
 113
 New taxa and records from SW
 Turkey, 69
 New taxa of *Geranium* L. from China, 325
Nicolaia pyramidosphaera (K. Schum.) Burt
 & Smith, 312
Nicotiana acuminata (Graham) Hook., 589
glaucia Graham, 588
Nierembergia intermedia Graham, 589
linariaefolia Graham, 589
 Notes on some plants of southern Africa
 chiefly from Natal: XI, 227
 Notes relating to the Flora of Bhutan: IX.
Corydalis (Fumariaceae), 87; X, 107
 Observations on Turkish brome-grasses. I.
 Some new taxa, new combinations and
 notes on typification 491
Odonites himalaica Pennell, 564
Oenothera perampla Graham, 583
Omalthus populifolius Graham, 577
Onobrychis ralphii Sirj., 562
stewartii Baker, 562
Orinus arenicola Hitchcock, 563
thoroldii (Stapf. ex Hemsley) Bor, 563
Ormopterum tuberosum E. Nasir, 566
Ornithogalum calcaratum Baker, 252
melanogynum Cullen, 57
Ornithogalum persicum, a little known
 species from southwest Asia, 57
Ornithogalum persicum Hausskn. ex Bornm.,
 57
 var. *elongatum* Bornm., 57
 var. *longeciliatum* Rech. f., 57
 Orobanchaceae, and Cuscuta
 (Convolvulaceae), Hydnoraceae. Some
 parasitic angiosperms of Sudan, 21
Orobanche aegyptiaca Pers., 75
cernua Loeff., 30
 var. *desertorum* Beck, 30
lutea Baumg., 75
minor Sm., 31, 75
ramosa L., 29
Orthoraphium Nees, 403
roylei Nees, 403
Oryzopsis asiatica Mez, 386
longearistata (Boiss.) Rosh., 399
pallenscens Westberg, 386
turcomanica Roshev., 398
wendelboi Bor, 563
Osbeckia canescens E. Meyer ex Graham,
 583
incana E. Meyer ex Hochst., 583.
Osteospermum attenuatum Hilliard & Burt,
 232
Oxalis bipunctata Graham, 577
corymbosa DC., 577
debilis H. B. K.
 var. *corymbosa* (DC.) Lourt., 577
Oxylobium scandens (Sm.) Benth., 579
Oxytropis birirensis Ali, 562
chitralensis Ali, 562
gloriosa Ali, 562
immersa (Baker ex Aitch.) Bunge ex B.
 Fedtsch.
 var. *jinaliensis* Ali, 562

- Palavia rhombifolia* Graham, 583
Papaver stewartianum Jafri & Qaiser, 562
Passiflora alata Dryand.
 var. *pedunculata* Graham, 584
 PAUL, H. & LAUENER, L. A.
 The type specimens of Robert Graham, 567
Pedicularis albida Pennell, 564
 brunoniana Wallich ex Pennell
 subsp. *ctenodonta* Pennell, 564
 subsp. *ornata* Pennell, 564
 multiflora Pennell, 564
 rhinanthoides Schrenk
 subsp. *speciosa* Pennell, 564
 stewartii Pennell, 564
Penaea imbricata Graham, 584
Penstemon glaucus Graham, 588
 micranthus Nutt., 588
 procerus Douglas ex Graham, 588
Pernettya ciliata (Schldl. & Cham.) Small, 577
 pilosa (Graham) G. Don, 577
Persoonia acerosa Sieber, 585
 pallida Graham, 585
Petunia acuminata Graham, 589
 intermedia (Graham) G. Don, 589
 linearis (Hook.) Paxton, 589
Phacelia sericea (Graham) A. Gray, 577
Phalangium longifolium Graham, 581
 PHILLIPPS, A., ARGENT, G. C. G. & LAMB, A.
 New taxa and combinations in Vireya Rhododendrons from Sabah (Borneo), 113
Physianthus auricomus Graham, 571
Physotrichia swynnertonii Baker f., 259
Pimelia hendersonii Graham, 590
 imbricata R. Br., 590
 intermedia [Hort. ex] Graham, 590
 nana Graham, 590
 rosea R. Br., 590
 var. *hendersonii* (Graham) Meisn., 590
Pimpinella stewartii (Dunn) E. Nasir, 566
Pinus argyi Lemée & Lév., 597
 var. *longevaginans* Lév., 597
 armandii Franch., 597
 cavaleriei Lemée & Lév., 597
 densiflora Sieb. & Zucc., 597
 komarovii Lév., 597
 lanceolata Lamb., 596
 levis Lemée & Lév., 597
 massoniana D. Don, 597
 nana Faurie & Lemée, 597
Piptatherum hilariae Pazij., 563
 longearistatum Boiss. & Hausskn. ex Boiss., 399
Pipturanthos stewartii Dunn, 566
Pistacia × *saportae* Burnat, 86
Plagiostachys Ridley, 265
 albiflora Ridley, 268
 borneensis Ridley, 271
 brachypoda (K. Schum.) Loesen, 271
 bracteolata R. M. Smith, 270
 crocydocalyx (K. Schum.) Burt & Smith, 268, 288
 polycarpa (K. Schum.) Loesen., 272, 300
 strobilifera (Bak.) Ridley, 271, 288
 sp. nov., 271
 sp., 272
Plantago balistanica Hartmann, 562
Platycladus orientalis (L.) Franco, 595
Platytaenia multicaule E. Nasir, 566
Podocarpus mairei Lemée & Lév., 596
 nerifolius D. Don, 598
Podolepis gracilis Graham, 575
Podolobium scandens (Sm.) DC., 579
Podotheca gnaphalioides Graham, 575
Polemonium boreale Adams, 584
 richardsonii Graham, 584
Polygonum afyonicum Leblebici & Gemici, 321
 luzuloides Jaub. & Spach, 323
 patulum Bieb.
 subsp. *pulchellum* (Lois.) Leblebici, 323
 pulchella Lois., 323
 rotthoellioides Jaub. & Spach, 323
 salsugineum Bieb., 323
 setosum Jacq.
 subsp. *luzuloides* (Jaub. & Spach) Leblebici, 323
Portlandia daphnoides Graham, 586
Potentilla aladaghensis Leblebici, 321
 chrysantha Trev.
 var. *karakoramensis* Hartmann, 563
Pothos coriacea Graham, 570
 harrisii Graham, 571
Pratia angulata (Forst. f.) Hook. f., 574
 hederacea (Cham.) G. Don, 573
Pseudotsuga davidiana [Bertr. ex] Carr., 596
Ptilagrostis Griseb., 404
 concinna (Hook. f.) Rosh., 404
 mongholica (Turcz. ex Trin) Griseb., 405
 purpurea (Griseb.) Rosh., 424
 subsessiliflora (Rupr.) Rosh., 411
 tibetica (Mez) Tzvelev, 405
Pultenaea cordata Graham, 580
 juniperina Labill.
 var. *latifolia* Benth., 581
Pyrethrum diversifolium Graham, 575

Ranunculus dissectus Bieb.
 subsp. *ermenekensis* Kit Tan & Vural, 61
 gueneri Ayaşlıgil & P. H. Davis, 69
 hispidus Michx.
 var. *marilandicus* (Poir.) L. Benson, 586
 schlechtendalii Hook. ex Graham, 585
 stewartii Riedb, 563
 RENZ, JANY
 Nepalese orchids (review), 353

- Review of Bornean Zingiberaceae: 1
(Alpineae p.p.), 261
Revision of the Brazilian species of *Sterculia* L., 121
Revision of *Geranium* in Africa south of the Limpopo, 171
Rhodiola marginata Grierson, 109
Rhododendron
ser. *Dendrolepidon* Argent, Lamb & Philipps, 117
baconii Argent, Lamb & Philipps, 115
borneense (J. J. Smith) Argent, Lamb & Philipps, 118
subsp. *borneense*, 118
subsp. *villosum* (J. J. Smith) Argent, Lamb & Philipps, 118
cuneifolium Stapf
var. *microcapum* Argent, Lamb & Philipps, 118
durionifolium Becc.
subsp. *sabahense* Argent, Lamb & Philipps, 119
gracile Lindley, 114
javanicum (Bl.) Benn.
subsp. *brookeanum* (Lindley) Argent & Philipps
var. *kinabaluense* Argent, Lamb & Philipps, 113
subsp. *cockburnii* Argent, Lamb & Philipps, 113
subsp. *gracile* (Lindley) Argent, Lamb & Philipps, 114
× *liewianum* Argent, Lamb & Philipps, 120
longiflorum Lindley
var. *longipetalum* Argent, Lamb & Philipps, 114
meijeri Argent, Lamb & Philipps, 116
quadrasiannum Vidal
var. *borneense* J. J. Smith, 118
var. *villosum* J. J. Smith, 118
rugosum Low ex Hook. f.
var. *laeve* Argent, Lamb & Philipps, 118
stenophyllum Hook. f. ex Stapf, 114
subsp. *angustifolium* (J. J. Smith) Argent, Lamb & Philipps, 115
var. *angustifolium* J. J. Smith, 115
suaveolens Sleumer
f. *roseum* Argent, Lamb & Philipps, 117
Rulingia corylifolia Graham, 590
Rumex L.
subgen. *Acetosae* Campd.
sect. *Afroacetosae* Rech. f.
subsect. *Capensis* Rech. f., 253
cordatus Desf., 255
cordatus Poiret, 255
dregeanus Meisn., 255
subsp. *dregeanus*, 256
subsp. *montanus* B. L. Burtt, 256
dregei Meisn., 256
sarcorrhizus Link, 255
woodii N. E. Brown, 257
Sabina squamata (Buch.-Ham. ex Lamb.) Ant., 596
Salpiglossis atro-purpurea Graham, 589
linearis Hook., 589
sinuata Ruiz & Pavón, 589
Salvia tilifolia Vahl, 246
Saponaria pinetorum Hedge
var. *elatior* Ekim & Hedge, 84
Satureia gilliesii (Graham) Briq., 578
Saxifraga brevicaulis H. Smith, 564
ferruginea Graham, 587
flagellaris Willd. ex Sternb.
subsp. *crassiflagellata* Hultén, 564
leucanthemifolia, 587
Scabiosa maslakhensis Y. Nasir, 561
Scaligera chitralica Hiroe, 566
stewartiana (E. Nasir) E. Nasir, 565
Schizanthus hookeri Gillies ex Graham, 589
porrigens Graham, 589
Schubertia graveolens Lindley, 571
Scrophularia libanotica Boiss.
var. *antalyensis* Ayaşlıgil & R. Mill, 71
nudata Pennell, 564
stewartii Pennell, 565
suffruticosa Pennell, 565
Sedum caroli-henrici Kit Tan, 65
cilicicum Kit Tan & Vural, 65
sorgerae Kit Tan & Chamberlain, 65
Selenium stewartii Hiroe, 566
Senecio dissimulans Hilliard, 233
kalingenwae Hilliard & Burtt, 234
macowanii Hilliard, 235
marginalis Hilliard, 236
parascitus Hilliard, 237
prionites MacOwan
var. *laxus* MacOwan, 235
villifructus Hilliard, 238
Serratula gradifolia Davis, 86
Sieversia rosea Graham, 586
Silene akmaniana Ekim & Çelik, 85
birandiana Ekim, 85
julaensis Grierson, 109
longispala E. Nasir, 560
lucide Chowd.
subsp. *glandulosa* Ekim, 85
staintonii S. A. Ghazanfar, 560
Siphocampylus reticulatus (Willd.) Klotzsch & Karsten apud Vatke, 574
revolutus Graham, 574
Sisyrinchium macrocephalum Graham, 578
SMITH, P. M.
Observations on Turkish brome-grasses. I.
Some new taxa, new combinations and notes on typification, 491

SMITH, R. M.

A review of Bornean Zingiberaceae: 1
(Alpineae p.p.), 261

Some new taxa and records for Turkey, 83

Some parasitic angiosperms of Sudan:

Hydnoraceae, Orobanchaceae, and

Cuscuta (Convolvulaceae), 21

Sophora alopecurioides L.

var. *alopecurioides*, 75

microphylla Aiton

subsp. *macnabiana* (Graham) Yakovl.,
580

Sphaeralcea creana (Graham) Sprague &
Sandwith, 583

munroana (Douglas) Spach

subsp. *subrhomboidea* (Rydberg)

Kearney, 582

Stachys antalyensis Ayaşlıgil & P. H. Davis,
72

byzantina C. Koch, 75

chamosericea Ayaşlıgil & P. H. Davis, 72

Stellaria sennii Chiov., 228

Stenochilus viscosus Graham, 583

Sterculia L., 123

albidiflora Ducke, 140

apeibophylla Ducke, 135

apetala (Jacq.) H. Karst, 128

carthaginensis Cav., 128

chicha St Hil., 128

chicha sensu Schumann, 125

curiosa (Vell. Conc.) Taroda, 125

elata Ducke, 128

excelsa Mart., 132

foetida L., 148

frondosa Rich., 137

pendula Ducke, 146

pilosa Ducke, 132

pruriens (Aublet) Schumann, 143

var. *grandiflora* Ducke, 143

var. *parviflora* Ducke, 143

rigidifolia Ducke, 143

roseiflora Ducke, 137

speciosa Schumann, 132

stipulifera Ducke, 137

striata St Hil. & Naudin, 130

Stewartiella baluchistanica E. Nasir, 566

Stipa (Gramineae) in southwest and south
Asia, The genus, 355

Stipa L., 381

sect. *Achnatheropsis* Tzvelev, 407

sect. *Aristella* (Trin.) Hackel, 397

sect. *Barbatae* Junge, 456

sect. *Eriostipa* Dumort., 419

sect. *Lasiagrostis* (Link) Hackel, 386

sect. *Leiostipa* Dumort, 452

sect. *Orthoraphium* (Nees) Hackel, 403

sect. *Pseudoptilagrostis* Tzvelev, 411

sect. *Ptilagrostis* (Griseb.) Hackel, 404

sect. *Regelia* Tzvelev, 407

sect. *Smirnovia* Tzvelev, 446

sect. *Stipa* sensu Tzvelev, 419

sect. *Stipella* Tzvelev, 413

ser. *Brevigeniculatae* Rosh., 446

ser. *Capillatae* Rosh., 452

ser. *Inaequiglumes* Bor., 413

ser. *Sibiricae* Rosh., 407

ser. *Tortiles* Rosh., 413

§ *Lasiagrostis* (Link) Steud., 386

§ *Orthoraphium* (Nees) Steudel, 403

a. *Aristella* Trin., 397

aliciae Kanitz, 422

altaica Trin., 390

anisotricha Smirnow, 453

arabica Trin. & Rupr., 457

subsp. *caspia* (K. Koch) Tzvelev, 457

subsp. *prilipkoana* (Grossh.) Tzvelev,
461

var. *arabica*, 459

var. *meyeriana* Trin. & Rupr., 457

var. *pamirica* (Rosh.) Freitag, 461

var. *prilipkoana* (Grossh.) Freitag, 461

var. *szovitsiana* Trin. & Rupr., 457

araxensis Grossh., 441

aristella L., 401

armeniaca Smirnow ex Rosh., 468

assyriaca Hand.-Mazz., 464

atriseta Stapf ex Bor, 464

badachschanica Rosh., 457

subsp. *pamirica* (Rosh.) Tzvelev, 461

barbata Desf., 456

var. *longiaristata* Martinovský, 468

var. *platyphylla* Hackel ex Paulsen, 450

var. *seminuda* Hackel, 464

var. *szovitsiana* (Trin. & Rupr.) Hackel,
457

basiphumosa Munro ex Hook. f., 411

var. *longearistata* Munro ex Hook. f.,
420

bella Drobv, 447

brandisii Mez, 407

breviflora Griseb, 422

bromoides (L.) Doerfler, 397, 401

calamagrostis (L.) Wahlenb., 386

canescens Smirnow ex Rosh., 443

capensis Thunb., 413, 416

capillata L., 452, 453

caragana Trin., 386

caspia K. Koch, 457

caucasica Schmalh., 446

subsp. *caucasica*, 447

subsp. *drobovii* Tzvelev, 447

subsp. *glareosa* (Smirnow) Tzvelev, 448

subsp. *iskanderkulica* Tzvelev, 447

subsp. *desertorum* (Rosh.) Tzvelev, 449

f. *desertorum* Rosh., 449

chitralensis Bor, 392

concinna Hook. f., 404

crassiculmis Smirnow, 440

cretacea Smirnow, 440

damascena Boiss., 457

Stipa contd.

- duthiei* Hook. f., 295
effusa Mez, 396
ehrenbergiana Trin. & Rupr., 468
epilosa Martinovský, 440
eriocaulis
 subsp. *lithophila* (Smirnow) Tzvelev, 440
fontanesii Parl., 476
froedinii Meld., 468
gaubae Bor, 471
gigantea Lag., 479
glareosa Smirnow, 449
grafiana Stev., 440
haussknechtii Boiss., 396
himalaica Rosh., 427
hohenackerana Trin. & Rupr., 464
 subsp. *grossheimii* Tzvelev, 464
 subsp. *nachiczewanica* Tzvelev, 464
 var. *ordubadica* Tzvelev, 464
 subsp. *ordubadica* Tzvelev, 464
holosericea Trin., 476
 subsp. *transcaucasica* (Grossh.) Tzvelev, 476
hookeri Stapf, 386, 393
iranica Freitag, 474
iraquensis Martinovský, 464
jacquemontii Jaub. & Spach, 394
jagnobica Ovcz. & Czukav., 423
joannis Čelak., 437
 subsp. *lejophylla* (Smirnow) Tzvelev, 437
kirghisorum Smirnow, 438
koelzii R. R. Stewart, 421
koenigii Woronow, 457
kokonorica Hao, 390
kotschyana Hochst. ex Steudel, 476
kuhitangi Drobov, 423
kurdistanica Bor, 397, 399
lagascae Roemer & Schltes, 479
 subsp. *letourneuxii* (Trabut) Battand & Traub, 479
 β *pellita* Trin. & Rupr., 479
lejophylla Smirnow, 437
lessingiana Trin. & Rupr., 429
letourneuxii Traub, 479
lingua Junge, 450
lithophila Smirnow ex Roshev., 440
litwinowiana Smirnow ex Pavlov & Lipsch., 398
margelanica Smirnow, 455
meyeriana (Trin. & Rupr.) Grossh., 457
mongholica Turcz. ex Trin., 404, 405
munroana Bor, 390
orientalis Trin., 425
 var. *grandiflora* Rupr., 447
 var. *trichoglossa* Hackel ex Paulsen, 447, 449
orthoraphium Steudel, 403
ovczinnikovii Rosh., 450
pamirica Rosh., 461

- parviflora* Desf., 413, 414
pellita (Trin. & Rupr.) Tzvelev, 479
pennata L., 381, 434
 subsp. *kirghisorum* (Smirnow) Freitag, 438
 subsp. *lithophila* (Smirnow) Martinovský, 440
 subsp. *pennata*, 437
 subsp. *pulcherrima* (K. Koch) Freitag, 440
 var. *araxensis* (Grossh.) Freitag, 441
 var. *pulcherrima*, 440
 subsp. *zalesskii* (Wilensky) Freitag, 443
 var. *minor* Boiss., 464
 var. *pulcherrima* (K. Koch) Halascy, 440
 var. *stenophylla* Czernj. ex Lindemann, 445
pennatiformis Figari & de Notaris, 457
pilgeriana Hao, 424
platypoda Bor, 450
pontica Smirnow, 443
prilipkoana Grossh., 461
pubescens Lag., 479
pulcherrima K. Koch, 440
 subsp. *araxensis* (Grossh.) Tzvelev, 441
 subsp. *crassiculmis* (Smirnow) Tzvelev, 440
 subsp. *epilosa* (Martinovský) Tzvelev, 440
purpurea Griseb., 424
regeliana Hackel, 407, 410
retorta Cav., 416
richterana Kar. & Kir., 423
 subsp. *jagnobica* (Ovcz. & Czukav.) Tzvelev, 423
roborovskyi Rosh., 419
roylei (Nees) Mez, 403
rubens Smirnow, 443
sareptana
 subsp. *anisotricha* (Smirnow) Tzvelev, 453
schlagintweitii Mez, 390
schmidtii Woronow ex Grossh., 445
semenowii Krasnov, 424
sibirica (L.) Lam., 407
 var. *pallida* Hook. f., 394
splendens Trin., 386, 389
staintonii Bor, 413
stapfii Rosh., 464
stenophylla (Czernj. ex Lindemann) Traubv., 445
subbarbata Keller, 464
subeffusa Ohwi, 407
subsessiliflora (Rupr.) Rosh., 411
szovitsiana Trin., 457
szovitsiana (Trin. & Rupr.) Griseb., 457
tauricola Čelak., 468
tenerrima Bornm. & Gauba, 468
tibetica Mez, 405
tirsa Stev., 445

- Stipa* contd.
tortilis Desf., 416
transcaucasica Grossh., 476
trichoides Smirnow, 431
turcica Martinovský, 440
turcomanica Smirnow, 443
turkestanica Hackel, 431
woroninii Krasnov, 423
zalesskii Wilensky
 subsp. *canescens* (Smirnow) Tzvelev, 443
 subsp. *pontica* (Smirnow) Tzvelev, 443
 subsp. *turcomanica* (Smirnow) Tzvelev, 443
zuvantica Tavelev, 472
Strobidia sumatrana Miq., 275
Strophanthus divaricatus (Lour.) Hook. & Arn., 570
divergens Graham, 570
Studies in the Flora of Arabia XI: Some historical and geographical aspects of a principal floristic frontier, 1; XIII: A new Delphinium from Saudi Arabia, 17; XVI: Two new species of Ceropogia from Saudi Arabia, 315
Studies in Gundelia: 1. A new species from Iraq, 39
Stylidium bulbiferum Benth.
 var. *macrocarpum* Benth., 590
drummondii Graham, 590
recurvum Graham, 590
reduplicatum R. Br., 590
Stylolepis gracilis Lehm., 575
Survey of the work of the Royal Botanic Garden Edinburgh in 1983, 151
Synopsis of Berberis section Wallichianae, 529
Taeniatherum Nevski, 81
asperum (Simonkai) Nevski, 81
caput-medusae (L.) Nevski
 subsp. *asper* (Simonkai) Melderis, 81
 subsp. *crinitum* (Schreber) Melderis, 81
 var. *crinitum* (Schreber) C. J. Humphries, 81
crinitum (Schreber) Nevski, 81
TAN, KIT
 More new taxa from south and east Anatolia, 61
 Studies in the Flora of Arabia XIII: A new Delphinium from Saudi Arabia, 17
Taraxacum aurorum Van Soest, 561
baltistanicum Van Soest, 560
canum Van Soest, 560
ladakense Van Soest, 560
mellum Van Soest, 560
nasirii Van Soest, 560
pakistanicum Van Soest, 561
rorippa Van Soest, 561
stewartii Van Soest, 561
TARODA, NEUSA
 A revision of the Brazilian species of *Sterculia* L., 121
Taxus chinensis (Pilger) Rehder
 var. *mairei* (Lemée & Lévl.) W. C. Cheng & L. K. Fu, 598
 mairei (Lemée & Lévl.) S. Y. Hu ex Liu, 598
TAYLOR, GEORGE
 The European Garden Flora (review), 350
Thalictrum hazaricum R. R. Stewart ex Qureshi & Chaudhri, 563
 secundum
 var. *hazaricum* H. Riedl, 563
The genus *Lavandula* in Arabia and tropical northeast Africa, 503
The Genus *Stipa* (Gramineae) in southwest and south Asia, 355
Thesium cilicicum Bornm., 75
The type specimens of Robert Graham, 567
Thuja orientalis L., 595
 var. *argyi* Lévl. & Lemée, 595
Thunbergia coccinea Wall. ex Graham, 570
Tiarella colorans Graham, 587
Tibouchina nitida (Graham) Cogn., 583
Timouria aurita Hitchc., 393, 563
Torenia fimbriata Hook. ex Graham, 588
 scabra Graham, 588
Trachydium depressum Boiss.
 subsp. *chitralicum* Rech. f. & Riedl, 566
Trachymene coerulea Graham, 590
Trachyspermum clavatum E. Nasir, 566
Trikeria Bor, 386
 hookeri (Stapf) Bor, 393, 563
Triticum intermedium Host
 var. *pertenue* C. A. Meyer, 81
Trixis antimenorrhoea (Schrank) Mart.
 var. *auriculata* (Graham) Cabrera, 575
 auriculata Graham, 575
 divaricata (H.B.K.) Spreng, 575
Tsuga mairei Lemée & Lévl., 598
Turkey. New taxa and records from SW 69
Turkish brome-grasses, Observations on. I. Some new taxa, new combinations and notes on typification, 491
Turritis patula Graham, 576
 retrofracta (Graham) Hook., 575
 stricta Graham, 576
Two new species from Turkey, 321
Urginea calcarata (Baker) Hilliard & Burtt, 252
 modesta Baker, 252
 saniensis Hilliard & Burtt, 253
Urtica caffra Thunb., 259
Vaccinium humifusum Graham, 591
Vascular plant type specimens in the National Herbarium (RAW), Pakistan
Agricultural Research Council, Islamabad, 559

Verbena barbata Graham, 591
tuberosa Graham, 591
Vernonia flanaganii (E. P. Phillipps) Hilliard,
 238
hirsuta (DC.) Sch. Bip.
 var. *flanaganii* E. P. Phill., 238
Veronica hirta Pennell, 565
koelzii Pennell, 565
lasiocarpum Pennell, 565
leucothrix Pennell, 565
nana Pennell, 565
panormitana Tineo ex Guss.
 subsp. *baradostensis* (M.A.F.) M. A.
 Fischer, 74
secunda Pennell, 565
stewartii Pennell, 565

WENDELBO, PER

Ornithogalum persicum, a little known
 species from southwest Asia, 57

WENDELBO, P. & BOKHARI, M. H.

Anatomy of *Dionysia* II. Xeromorphic
 features, 327

Xylosterculia Kosterm., 123

YANG DI-QUING & HU CHI-MING

The chromosomes of *Bretschneidera*
 Hemsl., 347

Zerna variegata (Bieb.) Nevski

subsp. *villosula* (Steudel) Tzvelev, 496

Zingiberaceae: 1 (Alpineae p.p.) A review of
 Bornean, 261

Zingiberaceae

subfam. *Costoideae*, 262

subfam. *Zingiberoideae*, 261

Tribe *Alpineae*, 261, 262, 288

Tribe *Globbeae*, 262

Tribe *Hedychieae*, 262

Tribe *Zingibereae*, 262

Zonation and photosynthetic pathways of
 halophytes on the Red Sea coast near
 Tawwal (Saudi Arabia), 45