

# CactusWorld

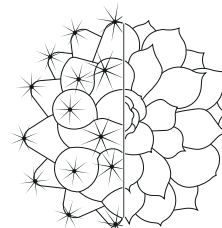
The Journal of the British Cactus & Succulent Society

[www.bcsc.org.uk](http://www.bcsc.org.uk)

[www.cactusworld.org.uk](http://www.cactusworld.org.uk)

Charity No. 290786 – A charity registered in England and Wales

Patrons: Anne Swithinbank and Tom Hart Dyke



## Volume 39 (2021)

Published by the British Cactus & Succulent Society, UK and compiled by the production team.

Edited by Al Laius.

Designed by David Quail, Alice Vanden Bon, Sheila Cude, Phil Crewe, Greg Bulmer and Jane Snowling.

Printed by Swallowtail Print Ltd, Norwich, UK.

Copyright: Authors assign copyright of their articles to the British Cactus & Succulent Society. Authors retain their right to use their own material elsewhere, provided that *CactusWorld* is acknowledged as the original place of publication. Any authors who are unable by reason of their employment to assign copyright will be required to grant a licence to publish. Requests for permission to use material from *CactusWorld* should be addressed to the Editor.

ISSN 1751-1429

### Publication dates & bibliographical data

**CactusWorld 39(1)** 13 Mar 2021.

p. [1]-[84] (84 pp). With 8-page bound-in *BCSS News*, and with separate 1-page Spring Virtual Show advert, 12-page *Notice and agenda of the AGM*, 8-page *Index to Vol.38* and 2×2 pages of *Cultivation Notes*.

**CactusWorld 39(2)** 10 Jun 2021.

p. [85]-[172] (88 pp). With 8-page bound-in *BCSS News*, separate 8-page *Directory of officers and branches*, 1-page Autumn Virtual Show advert and 2×2 pages of *Cultivation Notes*.

**CactusWorld 39(3)** 10 Sep 2021.

p. [173]-[256] (84 pp). With 8-page bound-in *BCSS News*, separate 4-page *National Show 2022 schedule* and 2×2 pages of *Cultivation Notes*.

**CactusWorld 39(4)** 8 Dec 2021.

p. [257]-[344] (88 pp). With 8-page bound-in *BCSS News*, separate 4-page *Seed Distribution* list, 1-page *Subscription Renewal* form and 2×2 pages of *Cultivation Notes*.

# Index to Volume 39 (2021)

Compiled by Peter Cupial-Jones† and Al Laius

**New names** published in Vol. 39 (2021), with issue number and page of validation:

*Ceropegia aquamontana* Peckover sp. nov. (1): 62  
*Crassula moniliformis* N.H.G. Jacobsen sp. nov. (3): 197  
*Drimiopsis kikiæ* P.D. Lebach sp. nov. (2): 163  
*Euphorbia neocastillonii* Sébastien Houyelle sp. nov. (4): 288  
*Euphorbia pseudoaprica* J-P. Castillon sp. nov. (4): 290  
*Ledebouria kikiæ* J.M.H. Shaw comb. nov. (2): 164  
*Melocactus caloxanthus* Hoxey, Gdaniec & Cinea sp. nov. (2): 98  
*Oxalis mollendoensis* J.M.H. Shaw stat. & nom. nov. (1): 71  
*Portulaca waterbergensis* Peckover sp. nov. (4): 328

**Key:** Issue number shown in brackets.

Illustrations underlined.

BCSS News pages indicated with an 'N'.

Generic names in bold are valid names accepted by the author.

Generic names not in bold are either invalid, not accepted by the author, or of lesser importance such as non-succulents.

A key to other abbreviations and conventions may be found in the online index to *Bradleya*.

## Acacia

*Acacia harpophylla* (2): 139

## Acanthocalycium (Echinopsis)

*Acanthocalycium aurantiacum* (2): 123-124

*Acanthocalycium thionanthum* (2): 122

## Adansonia

*Adansonia digitata* (2): 87, 172, 135-137, 138

*Adansonia gregorii* (2): 137

*Adansonia perrieri* (2): 137

*Adansonia rubrostipa* (2): 137

*Adansonia za* (2): 136-137

## Aeonium

*Aeonium arboreum* (3): 215-216, 218

*Aeonium atropurpureum* (3): 239

*Aeonium* 'Big Bang' (3): 239-240

*Aeonium dodrantale* (3): 238

*Aeonium* 'Emerald Ice' (3): 239

*Aeonium haworthii* 'Dream Color' (1): 24

*Aeonium* 'Mardi Gras' (3): 240

## Agave

*Agave × leopoldii* (4): 331-332

*Agave albipilosa* (1): 74

*Agave americana* 'Lemon and Lime' (3): 221

*Agave antillarum* (2): 91

*Agave attenuata* 'Emery Stripe' (3): 221-222

*Agave attenuata* 'Kara's Stripes' (3): 222

*Agave attenuata* 'Myron's Magic' (3): 222

*Agave attenuata* × *desmetiana* (3): 222

*Agave attenuata* × *mitis* 'Blue Flame' (3): 222

*Agave attenuata* × *ocahui* 'Blue Glow' (3): 222

*Agave attenuata* × *ocahui* 'Blue Glow' (3): 222

*Agave attenuata* × *ocahui* 'Snow Glow' (3): 222

*Agave bracteosa* (1): 73-74

*Agave bracteosa* variegata (3): 222

*Agave filifera* (1): 74

*Agave filifera* subsp. *filifera* (4): 331

*Agave filifera* subsp. *schidigera* (4): 331

*Agave filifera* 'Pinky' (3): 222

*Agave gypsophila* (4): 309

*Agave lechuguilla* (4): 269-270

*Agave lochantha* 'Quadricolor' (3): 222-223

*Agave parrasana* variegata (3): 222-223

*Agave parryi* var. *truncata* 'Huntington' (3): 223

*Agave parviflora* variegata (3): 223

*Agave pelona* (1): 74

*Agave potatorum* 'Kichiokan' ('Kisshokan') (3): 223-224

*Agave schidigera* (1): 74

*Agave sisalana* (1): 74

*Agave stricta* (1): 73

*Agave tequilana* (1): 74

*Agave titanota* variegata (3): 223-224

*Agave victoriae-reginae* (1): 73-74

*Agave victoriae-reginae* variegata (3): 224

*Agave victoriae-reginae* 'Hyon Zan' (3): 224

*Agave xylonacantha* (4): 340

*Agave xylonacantha* 'Frostbite' (3): 224

## Aloe

*Aloe bakeri* (1): 78-79

*Aloe citrina* (1): 75

*Aloe dhufarensis* (1): 75

*Aloe dichotoma* (3): 247

*Aloe ferox* (1): 78

*Aloe jacksonii* (1): 75

*Aloe jucunda* (1): 75

*Aloe lettyae* (1): 79

*Aloe occidentalis* (4): 289

*Aloe polyphylla* (4): 325

*Aloe somaliensis* (1): 75

*Aloe trichosantha* (1): 75

*Aloe vera* (1): 78

*Aloe* 'Hanky Panky' (1): 75

## Aloestrela (Aloe)

*Aloestrela suzzanae* (1): 79

## Aloidendron

*Aloidendron dichotomum* (3): 247

## Aloinopsis

*Aloinopsis rubrolineata* (2): 155

## Aporocactus

*Aporocactus flagelliformis* (1): 16

## Ariocarpus

*Ariocarpus retusus* var. *confusus* (3): N28

*Ariocarpus trigonus* (3): N25

## Arrojadoa

*Arrojadoa rhodantha* (4): 309

## Asclepias

*Asclepias viridis* (1): 9-10

## Astroloba

*Astroloba foliolosa* (2): 154

## Astrophytum

*Astrophytum asterias* (2): 133

*Astrophytum ornatum* (3): 220

*Astrophytum ornatum* 'Fukuryu' (3): 244

## Augea

*Augea capensis* (3): 199

## Authors & articles

Acevedo-Rosas, R & Cházaro-Basáñez, M,

*Graptopetalum superbum* (Crassulaceae)

(2): 99-102

Adkin, T, Succulents in vogue (3): 237-241

Berger, S, *Eriosyce occulta* – a field report (2): 119-121

- Building an ethical cactus and succulent collection (2): 156

Berresford, P, The Edwards Plateau (1): 5-12

- *Schlumbergera* – a long journey to the windowsill (3): 225-236

Bint, P, The genus *Gibbaeum* – sorely in need of a revision (4): 271-282

Centenari, F, *Echinocactus (Homalocephala) texensis* – the 'Horse Crippler' (3): 201-206

- CactusTalk: Operation Atacama, a positive sign in the fight against illicit cactus trafficking (4): 338-339

Ciderspiller, M, In my greenhouse (Lockdown 2020) (1): 43-50

Cupial-Jones, P, Cacti past and present from my photo archive (2): 123-128

Gillman, R, The hanging gardens of Monaco (2): 149-152

Goodfellow, T, A beginner's guide to making digital art images of your cacti and succulents (2): 111-117

- In my greenhouse (4): 301-306

Gorelick, R, *Glandulicactus uncinatus* var. *wrightii* at Anthony Gap (4): 261-270

Green, K, CactusTalk: New *Lithops* cultivar registrations 2020 (1): 76-78

Harris, A & Cox, R, Exploring ways of growing hanging cacti and succulents (1): 13-16

Hayward, J, CactusTalk: *Espostoa lanata* blooms in Suffolk (4): 337

Hoxey, P, Gdaniec, A & Cinea, W, Two interesting cactus discoveries in southern Haiti and the description of a new species of *Melocactus* (2): 89-98

Houyelle, S & Castillon, J-P, Two new species of *Euphorbia* (section *Denisophorbia*) from Madagascar (4): 287-292

Ilett, D, E is for (2): 157-159

- S is for (3): 207-210

Jacobsen, N H G, *Crassula moniliformis* N.H.G. Jacobsen, a new species of *Crassula* from the Little Karoo, Western Cape, South Africa (3): 197-200

Janeba, Z, Zlatko's favourites (4) (1): 66

- Zlatko's favourites (5) (2): 122

- Zlatko's favourites (6) (3): 246

- Zlatko's favourites (7) (4): 324

- *Pediocactus simpsonii* in the field and in cultivation (3): 187-196

- CactusTalk: Josef Bušek (1942–2021) 'The Cactus Expert' (4): 336-337

Ježek, J, *Sempervivum montanum* in Slovakia (3): 211-214

Jonkers, B, CactusTalk: Extrafloral nectaries in *Aloe* – the sequel (1): 75

Koenemann, G, Cacti and succulents in the home – learning to compromise (1): 243-245

Laius, A, CactusTalk: *Eulychnia* diversification (4): 337-338

- CactusTalk: Cactaceae at Caryophyllales.org – a dynamic online species-level taxonomic backbone for the family (4): 338

McKellar, C, Seed purchaser's report 2021 .. .....(4): 325-326	- Succulents contained: <i>Crassula brevifolia</i> subsp. <i>brevifolia</i> .....(3): 242	Glen, Alasdair (Obit) .....(1): <u>N3</u>
Marchbank, D, Memories of lockdown ..... .....(1): 35-38	- Succulents contained: <i>Sedum lucidum</i> .. .....(4): 300	Goodfellow, Terry .....(4): <u>306</u>
Martin, R, Hot water treatment – further experiments .....(2): 153-155	Watters, D, CactusTalk: <i>Agave xylonacantha</i> .....(4): 340	Hill, Brian (Obit).....(4): <u>N33</u>
Mordhorst, A, An attractive hybrid swarm derived from the cross between <i>Echinopsis</i> <i>maximiliana</i> and <i>E. subdenudata</i> ..... .....(4): 293-299	Wittner, H, Some notes about <i>Matucana</i> <i>intertexta</i> .....(1): 17-23	Jackman, Trevor .....(4): N30
Mottram, R, CactusTalk: Molecular phylogeny of the Mammilloid clade ..... .....(2): 165-166	Wood, J, In my greenhouse .....(3): 215-220	Kirkbright, David (Obit) .....(2): <u>N10-N12</u>
Peckover, R, A new species of <i>Ceropegia</i> (Apocynaceae) from Klein Elandsfontein, Waterberg region, South Africa ..... .....(1): 61-65	Woods, S, In my greenhouse .....(2): 129-134	Laius, Al .....(4): N31
- <i>Portulaca waterbergensis</i> (Portulacaceae), an unusual new species from the Waterberg, Limpopo Province, South Africa .....(4): 327-330	Woolnough, I, <i>Ferocactus haematacanthus</i> – a lesser known <i>Ferocactus</i> .....(1): 29-33	Masson, Francis .....(3): 247-248
Pilbeam, J, <i>Ferocactus</i> .....(2): 103-108	- <i>Turbinicarpus beguinii</i> subsp. <i>zaragozae</i> .....(4): 283-286	Marchbank, Dave .....(1): <u>35</u>
- <i>Huernia</i> – an appreciation .....(1): 25-28	<b>BCSS</b>	Ortolani, Diane .....(2): <u>149</u>
- Variegated agaves .....(3): 221-224	A cactus and succulent day in memory of Gordon Rowley .....(4): N29	Phipps, Brian .....(1): <u>N2</u>
- <i>Stapelianthus</i> and <i>Stapelopsis</i> – an appreciation .....(4): 317-320	Around the Branches(1): N7-N8; (2): N15-N16; .....(3): N23-N24; (4): N34-N36	Plumier, Charles .....(2): 89-93
Roseblade, J, A double-edged sword ..... .....(4): 331-332	Autumn Virtual Show .....(4): N33	Roseblade, Judith .....(4): <u>331</u>
Samek, R, CactusTalk: <i>Huernia</i> from Tigray, Ethiopia .....(2): 162-163	BCSS AGM 2021 .....(1): N1	Sharp, Doris (Obit) .....(3): <u>N22</u>
Scarr, S, CactusTalk: <i>Rebutia senilis</i> var. <i>kesselringiana</i> outdoors .....(4): 339	BCSS Awards 2020 – Diploma of Merit Brian Phipps .....(1): N2	Smale, Jennifer .....(3): <u>186</u>
Shaw, J M H, The identity of <i>Oxalis</i> <i>megalorrhiza</i> – a 300-year puzzle ..... .....(1): 67-72	BCSS Awards 2021 .....(4): N30-N31	Smale, Terry (Obit).....(2): <u>N13</u> ; (4): N30
- CactusTalk: What is <i>Drimiopsis 'purpurea'</i> ? .....(2): 163-164	BCSS Events .....(3): N24	Thomson, Vicky .....(1): <u>N6</u>
- A recently identified <i>Oxalis</i> in cultivation .....(4): 333-335	BCSS Secretary – Vanessa Ridge .....(1): N1	Tibbetts, Barry .....(1): <u>N5</u>
Silverton, J, Latin in the greenhouse? A few thoughts on some names.....(4): 321-323	BCSS Shows and Judging Committee award .....(1): N5; (4): N32	Walker, Colin .....(2): <u>138</u>
Smale, T, Care of haworthias and related plants .....(1): 51-58	Cacti at the Castle.....(3): N17	Walker, Graham .....(4): <u>N32</u>
- Dr Terry's guide to growing <i>Conophytum</i> .....(3): 177-186	Cacti at the Devon County Show .....(3): N21	Wood, Jean .....(3): <u>220</u>
Stephenson, R, <i>Brasiliopuntia brasiliensis</i> (Willdenow) A.Berger .....(4): 315-316	Conservation or Research Grants .....(1): N1	Zhou, HanHan .....(3): <u>181</u>
- Two contrasting forms of <i>Crassula</i> <i>pellucida</i> subsp. <i>marginalis</i> 'Variegata' .... .....(2): 109-110	Editor's Comments .....(1): 2; (2): 88; (3): 176; (4): 260	<b>Blossfeldia</b>
Taylor, H, New Edition of the Handbook of Shows .....(1): 59-60	Fond Memories .....(2): N21	<i>Blossfeldia liliputana</i> .....(1): <u>59-60</u>
- Rio de Janeiro Botanical Garden – a visit and a surprise!.....(4): 307-314	Garden Media Guild Awards .....(1): N3	<b>Brachychiton</b>
Thomson, G, <i>Bradleya</i> , 40 years of your Society's yearbook.....(1): 39-42	Obituary: Alasdair Glen .....(1): <u>N3</u>	<i>Brachychiton rupestris</i> .....(2): <u>138-139</u>
Walker, C C, A survey of succulents of the mallow family (Malvaceae) ..... .....(2): 135-148	Obituary: Brian Hill .....(4): <u>N33</u>	<b>Brasiliopuntia</b>
- CactusTalk: A review of the <i>Euphorbia</i> <i>schinzii</i> complex in southern Africa ..... .....(1): 74-75	Obituary: David John Kirkbright .....(2): <u>N10-N12</u>	<i>Brasiliopuntia brasiliensis</i> .....(4): <u>315-316</u>
- CactusTalk: Agave evolution and taxonomy .....(1): 73-74	Obituary: Doris Elizabeth Sharp 1940–2021 .....(3): <u>N22</u>	<i>Bumelia</i>
- CactusTalk: Dragon trees updated ..... .....(2): 165	Obituary: Ray Allcock 1930–2021.....(3): <u>N20</u>	<i>Bumelia lanuginosa</i> .....(1): 5
- CactusTalk: Halting plant extinction webinar (November 2020) .....(1): 78-79	Obituary: Terence Charles Smale .....(2): <u>N13</u>	<b>Carruanthus</b>
- CactusTalk: Heidi Hartmann and a life with mesembs .....(2): 164-165	Proud to be your new President .....(3): N18	<i>Carruanthus caninus</i> .....(2): 155
- CactusTalk: State of the world's plants and fungi .....(2): 161-162	Recent activity of the Research Committee..... .....(1): N4	<i>Carruanthus ringens</i> .....(2): 155
- Presidential potted plants <i>Aeonium</i> <i>haworthii</i> 'Dream Color' .....(1): 24	Reminiscing at Leeds Branch .....(1): N5-N6	<b>Cavanillesia</b>
- <i>Stapelia divaricata</i> Masson – the rarest and most localised species of <i>Stapelia</i> .... .....(3): 247-249	RHS Banksian Medal – Graham Charles .... .....(1): N2	<i>Cavanillesia arborea</i> .....(2): <u>139-140</u> , 141
	Shows and Judging Committee report..... .....(1): N5; (2): N14; (3): N22; (4): N32	<i>Cavanillesia chicamochae</i> .....(2): 141
	Spring Virtual National Show 2021 ..... .....(3): N25-N28	<i>Cavanillesia hylogeiton</i> .....(2): 141
	The BCSS YouTube Channel .....(2): N14	<i>Cavanillesia platanifolia</i> .....(2): 141
	The Gordon Rowley Lifetime Achievement Award, Susan Carter Holmes .....(3): N19	<i>Cavanillesia tuberculata</i> (drawing) ..(2): 139
	Zone 3 Rally .....(3): N17	<i>Cavanillesia umbellata</i> .....(2): 141
	<b>Beaucarnea</b>	<b>Celtis</b>
	<i>Beaucarnea recurvata</i> .....(2): <u>151</u>	<i>Celtis occidentalis</i> .....(1): 5
	<b>Berberis</b>	<b>Ceiba</b>
	<i>Berberis dealbata</i> .....(1): 72	<i>Ceiba boliviana</i> .....(2): 142
	<i>Berberis flexuosa</i> .....(1): 72	<i>Ceiba chodatii</i> .....(2): 142
	<b>Bijlia</b>	<i>Ceiba erianthos</i> (non-pachycaul).....(2): 145
	<i>Bijlia tugwelliae</i> .....(3): <u>238</u>	<i>Ceiba glaziovii</i> .....(2): 142
	<b>Biographies, people &amp; portraits</b>	<i>Ceiba insignis</i> (non-pachycaul) (2): 142-143
	Allcock, Ray (Obit) .....(3): <u>N20</u>	<i>Ceiba pentandra</i> (non-succulent) .....(2): 143
	Baker, Helen (Obit) .....(2): <u>N16</u>	<i>Ceiba rubriflora</i> .....(2): 142-143, 144-145
	Baker, Stirling .....(4): <u>N30</u>	<i>Ceiba schottii</i> (non-pachycaul) .....(2): 145
	Brown, Alan .....(1): <u>N2</u>	<i>Ceiba speciosa</i> .....(2): <u>140-142</u> , 143-144
	Bušek, Josef .....(3): <u>189</u> ; (4): <u>336-337</u>	<i>Ceiba speciosa</i> 'Majestic Beauty' .....(2): <u>142</u>
	Carter Holmes, Susan .....(3): <u>N19</u>	<i>Ceiba ventricosa</i> .....(2): 142
	Charles, Graham..(1): <u>N2</u> ; (3): <u>N18</u> ; (4): N31	<b>Cephalocereus</b>
	Cotter, Mick .....(4): <u>N32</u>	<i>Cephalocereus senilis</i> ..(3): <u>215-216</u> , 219-22
	Darbon, Bill .....(4): <u>N32</u>	<b>Cereus</b>
	Finney, Adrian .....(4): <u>N30</u>	<i>Cereus forbesii</i> 'Spiralis' ( <i>Cereus hankeanus</i> ) .....(4): <u>309</u>
	Gibbs, Sheila .....(2): <u>N12</u>	<b>Ceropegia</b>
	Gillman, Rick .....(2): <u>152</u>	<i>Ceropegia aquamontana</i> ..... .....(1): <u>61-62</u> , 63-64, <u>65</u>
		<i>Ceropegia decidua</i> subsp. <i>decidua</i> ..... .....(1): <u>63</u> , 64
		<i>Ceropegia decidua</i> subsp. <i>pretoriensis</i> ..... .....(1): <u>62-63</u> , 64
		<i>Ceropegia fortunei</i> .....(1): <u>61-62</u> , 63-64
		<i>Ceropegia linearis</i> .....(1): <u>62-63</u> , 64, <u>65</u>
		<i>Ceropegia woodii</i> .....(1): 16
		<b>Chamaecereus</b>
		<i>Chamaecereus silvestrii</i> .....(1): 66; (3): 215
		<b>Chorisia</b>
		<i>Chorisia speciosa</i> .....(2): 143
		<b>Cleistocactus</b>
		<i>Cleistocactus brookeae</i> .....(2): 126
		<i>Cleistocactus colademononis</i> .....(1): 16
		<i>Cleistocactus samaipatanus</i> .....(2): <u>124-125</u>
		<i>Cleistocactus strausii</i> .....(2): 126; (3): 220

- Cleistocactus wendlandiorum* ..(2): 124, 126  
*Cleistocactus winteri* .....(1): 16  
*Cleistocactus winteri* subsp. *colademono* .....(1): 16; (4): 312  
*Cleistocactus winteri* subsp. *winteri*.....(1): 16
- Cochemia**  
*Cochemia halei* .....(2): 166
- Colletia**  
*Colletia horrida* .....(1): 72  
*Colletia spinosissima* .....(1): 72
- Conophytum**  
*Conophytum achabense* .....(3): 177  
*Conophytum bilobum*.....(3): 177, 179  
*Conophytum bilobum* subsp. *bilobum* .....(3): 186  
*Conophytum burgeri* .....(3): 177, 178  
*Conophytum burgeri* (seedlings) .....(3): 183  
*Conophytum calculus* .....(3): 180  
*Conophytum chrisocruxum* .....(3): 179  
*Conophytum chrisolum* .....(3): 178  
*Conophytum concavum* .....(3): 184-185  
*Conophytum ectypum* .....(3): 179  
*Conophytum ernestii* subsp. *cerebellum* (seedlings).....(3): 183  
*Conophytum flavum*.....(3): 177  
*Conophytum fraternum* .....(3): 182  
*Conophytum herreanthus* .....(3): 177  
*Conophytum herreanthus* subsp. *rex*.....(3): 177  
*Conophytum joubertii*.....(3): 180  
*Conophytum jucundum* .....(3): 182  
*Conophytum jucundum* subsp. *ruschii* .....(3): 218  
*Conophytum leucanthum*.....(3): 186  
*Conophytum luckhoffii* .....(3): 185  
*Conophytum minimum*.....(3): 177  
*Conophytum minusculum* .....(3): 179  
*Conophytum orbicum* .....(3): 182  
*Conophytum pellucidum* .....(3): 178  
*Conophytum pellucidum* 'Makin's Plum' .....(3): 186  
*Conophytum quaesitum*.....(3): 181  
*Conophytum speciosum* .....(3): 218  
*Conophytum stephanii* subsp. *helmutii* .....(3): 179  
*Conophytum uviforme* .....(3): 179  
*Conophytum uviforme* subsp. *subincanum* ..(3): 179
- Consolea**  
*Consolea microcarpa*.....(2): 93  
*Consolea moniliformis* .....(2): 90-93, 94, 98  
*Consolea testudinis-crus* .....(2): 91, 93, 94
- Copiapoa**  
*Copiapoa cinerea* subsp. *columna-alba*.....(2): 121  
*Copiapoa grandiflora* .....(4): 325  
*Copiapoa longistaminea* .....(2): 88
- Coryphantha**  
*Coryphantha dasyacantha*.....(4): 270  
*Coryphantha echinus*.....(1): 8  
*Coryphantha macromeris* subsp. *runyonii* ....(1): 10  
*Coryphantha (Escobaria) sneedii*.....(4): 262, 269  
*Coryphantha sneedii* var. *sneedii*.....(4): 263, 270  
*Coryphantha (Escobaria) sneedii* var. *organensis*.....(4): 262  
*Coryphantha tuberculosa* .....(4): 270
- Cotyledon**  
*Cotyledon orbiculata* var. *oblonga* 'Macrantha' .....(3): 238  
*Cotyledon orbiculata* var. *orbiculata* .....(3): 198-199  
*Cotyledon papillaris*.....(3): 199
- Crassula**  
*Crassula brevifolia* subsp. *brevifolia* .....(3): 242  
*Crassula brevifolia* subsp. *psammophila* .....(3): 242  
*Crassula expansa* .....(3): 197  
*Crassula expansa* subsp. *expansa* .....(3): 198-199, 200  
*Crassula expansa* subsp. *filicaulis* .....(3): 199-200  
*Crassula expansa* subsp. *fragilis*.....(3): 199  
*Crassula expansa* subsp. *pyrifolia* .....(3): 197, 199  
*Crassula falcata*.....(3): 241  
*Crassula moniliformis* .....(3): 197-200  
*Crassula nudicaulis* var. *herrei*.....(3): 242; (4): 260  
*Crassula pellucida* subsp. *marginalis* minor form, 'Little Missy' .....(2): 109-110  
*Crassula pellucida* subsp. *marginalis* 'Variegata' .....(2): 110  
*Crassula perfoliata* var. *minor* .....(3): 241
- Cultivation (includes pests & diseases)**  
General.....(2): 133-134  
General indoor .....(3): 243-245  
Hot water treatment as a form of pest control .....(2): 153-155  
Of *Conophytum* .....(3): 177-186  
Of *Echinocactus texensis* .....(3): 205-206  
Of hanging cacti and succulents ..(1): 13-16  
Of haworthias and related plants ..(1): 52-58  
Of *Gibbaeum* species .....(4): 282  
Of *Huernia* species .....(1): 27  
Of *Massonia* .....(4): 326  
Of *Pediocactus simpsonii* .....(3): 194-196  
Of *Rebutia fischeriana* .....(4): 324  
Of *Schlumbergera* species and hybrids .....(3): 235-236  
Of *Stapelianthus* and *Stapelopsis* .....(4): 319-320  
Of *Turbinicarpus beguinii* subsp. *zaragozae* .....(4): 285-286
- Cylindropuntia**  
*Cylindropuntia kleiniae* .....(1): 6, 7  
*Cylindropuntia leptocaulis* .....(1): 11
- Delosperma**  
*Delosperma cooperi* .....(3): 218  
*Delosperma heidihartmanniae*.....(2): 165  
*Delosperma sutherlandii* .....(3): 218  
*Delosperma sutherlandii* 'Peach Star' .....(3): 241
- Dendrocereus (Leptocereus)**  
*Dendrocereus undulosus*.....(2): 89, 91
- Diospyros**  
*Diospyros texana*.....(1): 5
- Dinteranthus**  
*Dinteranthus puberulus* .....(4): 326
- Dorstenia**  
*Dorstenia lavranii* .....(3): N27
- Dracaena**  
*Dracaena ajgal* .....(2): 165  
*Dracaena caboverdeana* .....(2): 165  
*Dracaena draco* subsp. *ajgal*.....(2): 165  
*Dracaena draco* subsp. *caboverdeana* .....(2): 165  
*Dracaena draco* subsp. *draco* .....(2): 165
- Drimiopsis**  
*Drimiopsis atropurpurea* .....(2): 163  
*Drimiopsis kikiiae* .....(2): 163-164  
*Drimiopsis purpurea* .....(2): 163  
*Drimiopsis quaeae*.....(2): 163
- Drosanthemum**  
*Drosanthemum hispidum*.....(3): 199
- Echeveria**  
*Echeveria agavoides* .....(2): 157  
*Echeveria chihuahuensis* .....(3): 240-241  
*Echeveria elegans*.....(3): 244  
*Echeveria setosa* .....(2): 157
- Echidnopsis**  
*Echidnopsis dammanniana* .....(2): 158
- Echinocactus**  
*Echinocactus grusonii* .....(1): 44; (2): 94; (3): 203  
*Echinocactus horzonthalonius* .....(3): 203-204, 206; (4): 262, 268-269  
*Echinocactus horzonthalonius* subsp. *horzonthalonius* .....(3): 204  
*Echinocactus horzonthalonius* subsp. *nicholii* .....(3): 204  
*Echinocactus ingens* .....(3): 203  
*Echinocactus parryi* .....(3): 203, 206  
*Echinocactus platyacanthus* .....(1): 30-31, (3): 203-204  
*Echinocactus polycephalus* .....(3): 203, 205-206  
*Echinocactus polycephalus* subsp. *polycephalus* .....(3): 204  
*Echinocactus polycephalus* subsp. *xeranthemoides*.....(3): 204  
*Echinocactus texensis* .....(3): 176, 201-206
- Echinocereus**  
*Echinocereus baileyi* .....(2): 156  
*Echinocereus coccineus* subsp. *paucispinus* .....(1): 6-7  
*Echinocereus coccineus* subsp. *roemerii* .....(1): 11-12  
*Echinocereus coccineus* subsp. *transpecosensis* .....(1): 6, 8  
*Echinocereus coccineus* subsp. unidentified (Bandera Co.) .....(1): 9  
*Echinocereus dasyacanthus* .....(1): 6  
*Echinocereus enneacanthus* subsp. *intermedius* .....(1): 7-8  
*Echinocereus polyacanthus* .....(2): 125-126  
*Echinocereus poselgeri* .....(1): 16  
*Echinocereus reichenbachii* subsp. *baileyi* ..(2): 158  
*Echinocereus reichenbachii* subsp. *caespitosus* .....(1): 7, 8, 9-12  
*Echinocereus triglochidiatus* .....(3): 188
- Echinopsis**  
*Echinopsis albispinosa* .....(1): 66  
*Echinopsis atacamensis* subsp. *pasacana* ..(2): 122, N10  
*Echinopsis aurea* .....(1): 66  
*Echinopsis aurea* var. *callochrysea* ....(1): 66  
*Echinopsis 'Bourne Prince'* .....(1): 37  
*Echinopsis 'Candlelight'*.....(4): 305  
*Echinopsis chamaecereus*.....(1): 66  
*Echinopsis 'Elegant Lady'* .....(4): 305  
*Echinopsis 'Fangri-la'* .....(3): N25  
*Echinopsis 'Goldlocks'* .....(1): 37  
*Echinopsis 'Hard Hearted Hannah'* ....(1): 38  
*Echinopsis maximiliana* .....(4): 293-299  
*Echinopsis maximiliana* subsp. *caespitosa* ..(4): 294  
*Echinopsis maximiliana* subsp. *westii* .....(4): 294  
*Echinopsis silvestrii* .....(1): 66  
*Echinopsis subdenudata* .....(4): 293-299  
*Echinopsis thionantha* .....(2): 122  
*Echinopsis thionantha* subsp. *ferrarii* .....(2): 124  
*Echinopsis 'Tuffet'* .....(4): 305
- Epiphyllum**  
*Epiphyllum buckleyi*.....(3): 232  
*Epiphyllum gaertneri* .....(3): 230  
*Epiphyllum russellianum* .....(3): 228, 230  
*Epiphyllum truncatum*.....(3): 228-229
- Epithelantha**  
*Epithelantha micromeris* .....(2): 157; (4): 262, 269
- Erepsia**  
*Erepsia lacera* .....(2): 157-158
- Eriocephala (Parodia)**  
*Eriocephala leninghausii* .....(1): 60

- Eriocephalo magnifica* .....(1): 60
- Eriosyce**
- Eriosyce curvispina* .....(4): 325
- Eriosyce meglolioli* .....(2): 128
- Eriosyce occulta* .....(2): 119-121
- Eriosyce odieri* var. *weisseri* .....(2): 120-121
- Eriosyce taltalensis* subsp. *paucicostata* .....(2): 159
- Eriosyce weisseri* .....(2): 121
- Escobaria**
- Escobaria vivipara* .....(3): 187-188
- Escobaria zilziana* .....(2): 158-159
- Espostoa**
- Espostoa lanata* .....(4): 337
- Espostoa melanostele* .....(1): 71
- Espostoa senilis* .....(3): 219
- Eulychnia**
- Eulychnia* (diversification) .....(4): 337-338
- Eulychnia chorosensis* (*acida*) .....(4): 337
- Eulychnia ritteri* .....(4): 337
- Euphorbia**
- Euphorbia aeruginosa* .....(1): 74
- Euphorbia aprica* .....(4): 289, 290-292
- Euphorbia bongolavensis* .....(4): 292
- Euphorbia carteriana* .....(3): N19
- Euphorbia clivicola* .....(1): 75
- Euphorbia clivicola* subsp. *calcritica* ..(1): 75
- Euphorbia holmesiae* .....(3): N19
- Euphorbia horrida* .....(1): 13
- Euphorbia kaokoensis* .....(1): 75
- Euphorbia limpopoana* .....(1): 75
- Euphorbia louwii* .....(1): 75
- Euphorbia lydenburgensis* .....(1): 75
- Euphorbia malevola* subsp. *bechuanica* .....(1): 74
- Euphorbia martinae* .....(4): 288, 290
- Euphorbia neocastillonii* .....(4): 287-290
- Euphorbia obesa* .....(4): 321
- Euphorbia otjipembana* subsp. *fluvialis* .....(1): 75
- Euphorbia otjipembana* subsp. *otjipembana* .....(1): 75
- Euphorbia physoclada* .....(4): 292
- Euphorbia pisima* .....(1): 75
- Euphorbia pseudoaprica* .....(4): 290-292
- Euphorbia rhombifolia* .....(3): 198-199
- Euphorbia schinzii* .....(4): 329, 330
- Euphorbia schinzii* subsp. *bechuanica* .....(1): 74
- Euphorbia schinzii* subsp. *schinzii* .....(1): 74-75
- Euphorbia schinzii* subsp. *schinzioides* .....(1): 75
- Euphorbia steelpoortensis* .....(1): 75
- Euphorbia stellata* .....(2): 159
- Euphorbia subsala* .....(1): 75
- Euphorbia susanholmesiae* .....(3): N19
- Euphorbia umbraculiformis* nom. nud. ....(4): 292
- Euphorbia venterii* .....(1): 75
- Faucaria**
- Faucaria albidens* .....(1): 16
- Ferocactus**
- Ferocactus cylindraceus* .....(2): 106
- Ferocactus cylindraceus* subsp. *eastwoodiae* .....(2): 106
- Ferocactus cylindraceus* subsp. *lecontei* .....(2): 106
- Ferocactus cylindraceus* subsp. *tortulispinus* .....(2): 106
- Ferocactus emoryi* subsp. *rectispinus* .....(2): 106-107
- Ferocactus flavovirens* .....(2): 107
- Ferocactus fordii* .....(2): 103-104
- Ferocactus fordii* subsp. *borealis* .....(2): 104
- Ferocactus fordii* subsp. *fordii* .....(2): 104
- Ferocactus glaucescens* .....(2): 105, 106
- Ferocactus gracilis* .....(2): 107
- Ferocactus gracilis* subsp. *coloratus* (2): 107
- Ferocactus gracilis* subsp. *gatesii* .....(2): 107
- Ferocactus haematacanthus* .....(1): 29-33
- Ferocactus hamatacanthus* .....(1): 7, 29
- Ferocactus latispinus* .....(2): 104
- Ferocactus lindsayi* .....(2): 105-106
- Ferocactus macrodiscus* .....(2): 105-106
- Ferocactus macrodiscus* subsp. *septentrionalis* .....(2): 105
- Ferocactus peninsulae* subsp. *peninsulae* .....(2): 104-105
- Ferocactus peninsulae* subsp. *santa-maria* ..(2): 104-105
- Ferocactus pilosus* .....(2): 103, 108
- Ferocactus recurvus* .....(1): 29, (2): 108
- Ferocactus recurvus* subsp. *greenwoodii* ....(2): 108
- Ferocactus robustus* .....(1): 29; (2): 107
- Ferocactus schwarzii* .....(2): 107-108
- Ferocactus viridescens* subsp. *viridescens* ..(2): 105
- Ficus**
- Ficus cotinifolia* .....(2): 101
- Gasteria**
- Gasteria batesiana* .....(1): 52; (2): 153, 155
- Gasteria batesiana* 'Barbe Bleue' .....(2): 154
- Gasteria baylissiana* .....(1): 51 (flower), 57
- Gasteria bicolor* var. *liliputana* .....(1): 55
- Gasteria carinata* .....(2): 153, 155
- Gasteria croucheri* .....(1): 52
- Gasteria nitida* .....(2): 155
- Gasteria pendulifolia* .....(1): 52
- Gasteria pillansii* .....(1): 52
- Gasteria polita* .....(1): 57
- Gasteria tukhensis* .....(1): 52
- \*Gasteraloe**
- \**Gasteraloe* 'Wonder' .....(2): 155
- Gibbaeum**
- Gibbaeum album* .....(4): 272-273, 281
- Gibbaeum angulipes* .....(4): 272-273, 274, 281
- Gibbaeum blackburniae* .....(4): 276, 280
- Gibbaeum comptonii* .....(4): 276, 280, 282
- Gibbaeum cryptopodium* .....(4): 272, 277
- Gibbaeum dispar* .....(4): 272, 274, 281
- Gibbaeum esterhuyseniae* (4): 274-275, 276
- Gibbaeum geminum* (4): 272, 274-275, 281
- Gibbaeum gibbosum* (4): 271, 274-275, 281
- Gibbaeum haaglenii* .....(4): 274
- Gibbaeum hartmannianum* (2): 165; (4): 275
- Gibbaeum heathii* .....(4): 272, 275-276, 280, 282
- Gibbaeum helmiae* .....(4): 278, 280
- Gibbaeum ihlenfeldtii* .....(4): 274, 276
- Gibbaeum johnstonii* .....(4): 277, 280-281
- Gibbaeum luckhoffii* .....(4): 276, 281-282
- Gibbaeum luteoviride* .....(4): 271, 275, 281
- Gibbaeum marlothii* .....(4): 275, 281
- Gibbaeum molle* .....(4): 278, 281
- Gibbaeum muirii* .....(4): 275, 281
- Gibbaeum nebrownii* .....(4): 276-277, 281
- Gibbaeum nuciforme* .....(4): 277-278
- Gibbaeum pachypodium* .....(4): 277, 281
- Gibbaeum perviride* .....(4): 271, 281
- Gibbaeum petrense* (4): 274, 277-278, 282
- Gibbaeum pilosulum* .....(4): 278, 281
- Gibbaeum pubescens* (4): 271, 278-279, 281
- Gibbaeum schwantesii* .....(4): 279-281
- Gibbaeum shandii* .....(4): 272, 279, 281
- Gibbaeum tschleri* .....(4): 278
- Gibbaeum velutinum* .....(4): 279-280, 281
- Glandulicactus**
- Glandulicactus crassihamatus* .....(4): 261
- Glandulicactus mathssonii* .....(4): 261
- Glandulicactus uncinatus* var. *uncinatus* .....(4): 261
- Glandulicactus uncinatus* var. *wrightii* .....(4): 261-269
- Gonialoe**
- Gonialoe variegata* .....(2): 153, 155
- Gonostemon**
- Gonostemon divaricata* .....(3): 248
- Graptopetalum**
- Graptopetalum glassii* .....(2): 101
- Graptopetalum pentandrum* .....(2): 101
- Graptopetalum pentandrum* subsp. *superbum* .....(2): 100
- Graptopetalum rosanevadoensis* .....(2): 100
- Graptopetalum superbum* .....(2): 99-102
- Greenovia**
- Greenovia dodrantalis* .....(3): 238
- Gunnera**
- Gunnera tinctoria* .....(1): 67
- Gymnocactus**
- Gymnocactus subterraneus* subsp. *zaragosa* .....(4): 283
- Gymnocalycium**
- Gymnocalycium amerhauseri* .....(4): 303
- Gymnocalycium andreae* ..(3): 246; (4): 303
- Gymnocalycium andreae* var. *longispinum* ..(3): 246
- Gymnocalycium baldianum* .....(4): 303
- Gymnocalycium calochlorum* .....(3): 176
- Gymnocalycium friedrichii* .....(1): 36
- Gymnocalycium pflanzii* .....(4): 310
- Gymnocalycium ragonesei* .....(4): 303
- Gymnocalycium spegazzinii* .....(2): 122
- Harrisia**
- Harrisia divaricata* .....(2): 91
- Hatiora**
- Hatiora* × *graeseri* .....(3): 232
- Haworthia**
- Haworthia arachnoidea* var. *aranea* .....(1): 52
- Haworthia arachnoidea* var. *scabrispina* .....(1): 52
- Haworthia* 'Barazono' .....(1): 54-55
- Haworthia bayeri* .....(1): 53, 54-55
- Haworthia groenewaldii* .....(1): 53; (4): 259, 344
- Haworthia* 'Hakuma' .....(1): 57
- Haworthia maughanii* .....(1): 56
- Haworthia mutica* .....(1): 53
- Haworthia mutica* 'White Widow' .....(1): 58
- Haworthia nortieri* .....(1): 51 (flower), 52
- Haworthia picta* .....(1): 54-55
- Haworthia splendens* .....(1): 54-55, 56
- Haworthia truncata* .....(1): 54
- Haworthia truterorum* .....(1): 53
- Haworthiopsis**
- Haworthiopsis attenuata* .....(1): 153
- Haworthiopsis bruynsii* .....(1): 55
- Haworthiopsis fasciata* .....(1): 55
- Haworthiopsis koelmaniorum* .....(1): 52
- Haworthiopsis koelmaniorum* var. *mcmurtryi* .....(1): 52
- Haworthiopsis limifolia* .....(1): 52
- Haworthiopsis nigra* var. *diversifolia* ..(1): 56
- Haworthiopsis sordida* .....(1): 51 (flower)
- Haworthiopsis tessellata* .....(1): 52, 55
- Hesperaloe**
- Hesperaloe parviflora* .....(1): 5, 7
- Hesperomeles**
- Hesperomeles cuneata* .....(1): 72
- Hesperomeles weberbaueri* .....(1): 72
- Hesperoyucca**
- Hesperoyucca whipplei* .....(1): 74
- Hildewintera**
- Hildewintera colademononis* (*Cleistocactus winteri* subsp. *colademono*) .....(4): 312
- Hildewintera* 'Haugg's Amethyst' .....(1): 3, 84
- Hildewintera* 'Traisenprinz' .....(4): 257, 259

## Homalocephala

- Homalocephala parryi* .....(3): 203-204  
*Homalocephala polycephalus* ..(3): 203-204  
*Homalocephala texensis* .....(1): 8; (3): 201, 203-204

## Huernia

- Huernia anagaynensis*.....(1): 26  
*Huernia arabica* .....(1): 26-27  
*Huernia archeri*.....(1): 26-27  
*Huernia asirensis*.....(1): 26  
*Huernia baradii* .....(1): 26  
*Huernia blydenverensis* .....(1): 25  
*Huernia collenetteae* .....(1): 26-27  
*Huernia concinna*.....(2): 163  
*Huernia delicata*.....(1): 26  
*Huernia foetida* .....(1): 26, 28  
*Huernia guttata* subsp. *guttata* .....(1): 25  
*Huernia hystrix* subsp. *parvula* .....(1): 25  
*Huernia kennedyana* .....(1): 26  
*Huernia kirkii* .....(1): 26  
*Huernia laevis* .....(1): 26  
*Huernia levyi* .....(1): 26  
*Huernia macrocarpa* .....(1): 26, 28; (2): 162  
*Huernia macrocarpa* subsp. *arabica* (2): 163  
*Huernia macrocarpa* subsp. *concinna* .....(2): 163  
*Huernia macrocarpa* subsp. *macrocarpa*.....(2): 162-163  
*Huernia oculata* .....(1): 26-27  
*Huernia penzigii* .....(1): 26, 28; (2): 163  
*Huernia penzigii* var. *schimperi* .....(2): 163  
*Huernia penzigii* var. *schweinfurthii* ..(2): 163  
*Huernia pillansii* .....(1): 26  
*Huernia pulchra* .....(1): 26, 28  
*Huernia quinta* .....(1): 26  
*Huernia rubrostricta* .....(1): 26  
*Huernia saudi-arabica* .....(1): 26, 28  
*Huernia sudanensis*.....(1): 26, 28  
*Huernia thureti* var. *primulina* .....(1): 26  
*Huernia urceolata* .....(1): 26-27  
*Huernia yemenensis* .....(1): 26, 28  
*Huernia zebrina* subsp. *zebrina*.....(1): 26

## Ilex

- Ilex vomitoria* .....(1): 5

## Imitaria

- Imitaria muirii* .....(4): 281

## Juniperus

- Juniperus ashei*.....(1): 5  
*Juniperus pinchotii* .....(1): 5

## Kalanchoe (Bryophyllum)

- Kalanchoe (Bryophyllum) fedtschenkoi* variegated .....(3): 240-241  
*Kalanchoe orgyalis* .....(4): 311

## Kleinia

- Kleinia stapeliiformis* .....(3): 207

## Ledebouria

- Ledebouria kikiæ* .....(2): 164  
*Ledebouria socialis* .....(1): 35

## Leuchtenbergia

- Leuchtenbergia principis* .....(4): 322

## Literature reviews

- BCSS, *Bradleya* 39 .....(3): 251  
Blaczkowski, Tomasz, *Lobivia* .....(2): 160  
Borghi, Paolo, *Adromischus: Introduzione al genere e due reportage di viaggio*.....(2): 160  
Earlé, Roy A & Round, Janice E, *Lithops in habitat and cultivation* .....(3): 250  
Entwistle, Robert, *Aloes in the Garden. An Identity Parade* .....(3): 251  
Horáček, Ladislav, *Sulcorebutia 2020* .....(2): 160

## Lithops

- Lithops aucampiae* subsp. *aucampiae* var. *aucampiae* 'Halo'.....(1): 76  
*Lithops aucampiae* subsp. *aucampiae* var. *koelemanii*.....(4): 326

- Lithops aucampiae* subsp. *euniceae* var. *fluminalis* 'Spotted Dog'.....(1): 77  
*Lithops bromfieldii* var. *glaudinae* ....(4): 326  
*Lithops 'Chinchillas ZW'* .....(1): 76  
*Lithops coleorum* 'Lindsey Deaves' .....(1): 76-77

- Lithops divergens* var. *amethystina* 'Sunny Grassland ZW' .....(1): 77-78  
*Lithops dorotheae* .....(4): 326  
*Lithops julii* 'Nine Rivers ZW' .....(1): 77  
*Lithops lesliei* subsp. *lesliei* var. *venteri* 'Black Top' .....(1): 76  
*Lithops lesliei* subsp. *lesliei* var. *venteri* 'Pepper Pot'.....(1): 77  
*Lithops localis* .....(4): 260  
*Lithops olivacea* var. *olivacea* 'Voldemort's Visage' .....(1): 78

## Lobivia (Echinopsis)

- Lobivia ferox* .....(3): 220  
*Lobivia ferox* var. *longispina* .....(4): 325  
*Lobivia haematantha* .....(2): 122

## Lupinus

- Lupinus texensis* .....(1): 10-11

## Mammillaria

- Mammillaria buxbaumeriana* ..(3): N26, N28  
*Mammillaria candida* .....(3): 191  
*Mammillaria dioica* .....(2): 166  
*Mammillaria gracilis*.....(3): 215  
*Mammillaria haageana* subsp. *elegans* .....(1): 29  
*Mammillaria hahniana* .....(3): 217, 219  
*Mammillaria halei*.....(2): 166  
*Mammillaria heyderi* .....(1): 10  
*Mammillaria jaliscana* .....(2): 166  
*Mammillaria lasiacantha* .....(4): 269  
*Mammillaria longiflora* .....(2): 166  
*Mammillaria mammillaris*.....(2): 166  
*Mammillaria mystax*.....(1): 29  
*Mammillaria napina* .....(1): 29  
*Mammillaria pectinifera* .....(1): 29  
*Mammillaria picta* subsp. *viereckii* .....(4): 285-286  
*Mammillaria pringlei*.....(2): 132  
*Mammillaria prolifera*....(2): 91, 166; (4): 310  
*Mammillaria schumannii* .....(2): 166  
*Mammillaria scrippsiana* .....(2): 101  
*Mammillaria senilis* .....(2): 166  
*Mammillaria sphaelata* subsp. *sphaelata* ..(1): 29  
*Mammillaria sulcata*.....(2): 166  
*Mammillaria weingartiana* .....(2): 166  
*Mammillaria wrightii*.....(4): 263

## Mamillopsis

- Mamillopsis senilis*.....(2): 166

## Matucana

- Matucana aurantiaca* .....(1): 21  
*Matucana aureiflora*.....(1): 18  
*Matucana haynei* subsp. *herzogiana*..(1): 18  
*Matucana intertexta* .....(1): 17-23  
*Matucana intertexta* subsp. *jankei*.....(1): 18  
*Matucana intertexta* × *aureiflora* ..(1): 18, 21  
*Matucana klopfensteinii* .....(1): 21  
*Matucana madisoniorum* .....(1): 43-44; (4): 304  
*Matucana weberbaueri* var. *flammea* .....(2): 126-127; (4): 304  
*Matucana yanganucensis* .....(2): 126

## Mediolobivia

- Mediolobivia steinmannii* (*Rebutia steinmannii*) .....(4): 325

## Melocactus

- Melocactus caloxanthus*.....(2): 85, 87, 93-94, 96-97, 98  
*Melocactus intortus* subsp. *domingensis*.....(2): 96  
*Melocactus lemairei* .....(2): 95-96  
*Melocactus pedernalensis* .....(2): 94-95, 96, 97, 98

## Megistostegium

- Megistostegium nodulosum*.....(2): 145  
*Megistostegium perrieri* .....(2): 144-145

## Micranthocereus

- Micranthocereus dolichospermaticus*.....(1): 1, 3

## Neolloydia

- Neolloydia subterranea* var. *zaragosae* .....(4): 283

## Notocactus (Parodia)

- Notocactus leninghausii*.....(3): 216  
*Notocactus ottonis* var. *venclusianus*.....(3): 216, 220  
*Notocactus purpureus* .....(2): 127  
*Notocactus scopia ramosus*.....(3): N28

## Opuntia

- Opuntia engelmannii* var. *lindheimeri* ..(1): 5  
*Opuntia sulphurea* .....(2): 122  
*Opuntia testudinis-crus* .....(2): 94

## Orbea

- Orbea gilbertii* .....(2): 155

## Oreocereus

- Oreocereus trollii* .....(3): 216

## Oxalis

- Oxalis arborescens* .....(1): 70  
*Oxalis atacamensis* .....(1): 72  
*Oxalis bicolor* .....(1): 70  
*Oxalis borchersii* .....(1): 70  
*Oxalis brevis* .....(1): 70  
*Oxalis bulbocastanum* .....(1): 70  
*Oxalis carnosus*.....(1): 67-69, 70-71  
*Oxalis crassifolia* .....(1): 68  
*Oxalis darapskyi* .....(1): 70  
*Oxalis herrerae* .....(4): 333  
*Oxalis illapelina* .....(1): 70  
*Oxalis megalorrhiza* .....(1): 67-70, 71-72  
*Oxalis megalorrhiza* var. *hirta*.....(1): 70-71  
*Oxalis mirbelii*.....(1): 67, 69, 70-71  
*Oxalis mollendoensis*.....(1): 71  
*Oxalis pachyrrhiza* .....(1): 68, 70  
*Oxalis paniculata* .....(1): 70  
*Oxalis peduncularis* .....(4): 333, 335  
*Oxalis polyrrhiza* .....(4): 333-335  
*Oxalis ptychoclada* .....(4): 334  
*Oxalis reticulata* .....(1): 70  
*Oxalis rubrocincta*.....(1): 67, 70, 71-72  
*Oxalis sepalosa* .....(1): 71  
*Oxalis succulenta* .....(1): 70; (4): 333  
*Oxalis tarapacana* .....(1): 70  
*Oxalis tortuosa*.....(1): 70  
*Oxalis tuberosa* .....(4): 334  
*Oxalis vulcanicola* .....(4): 333

## Pachypodium

- Pachypodium horombense* .....(3): 175, 256  
*Pachypodium rosulatum* .....(3): N27

## Parodia

- Parodia aureicentra* var. *rauschii*.....(2): 122  
*Parodia buiningii* .....(3): 245  
*Parodia echinopsoides* var. *tredecimcostata* .....(2): 127-128  
*Parodia horrida* var. *kilianana* .....(2): 122  
*Parodia horstii* .....(2): 127  
*Parodia kilianana* .....(2): 122  
*Parodia microsperma* .....(2): 122  
*Parodia nivosa*.....(3): 191  
*Parodia procera*.....(2): 128  
*Parodia rauschii*.....(2): 122  
*Parodia schumanniana* subsp. *schumanniana* .....(4): 312  
*Parodia tredecimcostata* .....(2): 128

## Passiflora

- Passiflora mixta* .....(1): 71

## Pediocactus

- Pediocactus despainii* .....(3): 187  
*Pediocactus knowltonii* .....(3): 187  
*Pediocactus nigrispinus*.....(3): 187  
*Pediocactus sileri*.....(3): 187

- Pediocactus simpsonii* .....(3): 173, 175, 187, 188-196  
*Pediocactus simpsonii* subsp. *idahoensis* .....(3): 191-192  
*Pediocactus subterraneus* var. *zaragosae* .....(4): 283  
*Pediocactus winklerii* .....(3): 187
- Photography**  
 Digital art images .....(2): 111-117  
 UVIVF image of *Gymnocalycium triacanthum* (*bodenbenderianum*) .....(4): 306
- Piранthus**  
*Piранthus geminatus* .....(3): 199
- Pilosocereus**  
*Pilosocereus gounellei* .....(4): 308  
*Pilosocereus polygonus* .....(2): 91
- Pinus**  
*Pinus aristata* .....(3): 190  
*Pinus ponderosa* .....(3): 188
- Places & maps**  
 Anse-à-Pitres, Dept. Sud-Est, Haiti .....(2): 91-98  
 Anthony's Nose, Franklin Mountains State Park, Texas, USA .....(4): 261-270  
 Calitzdorp, Little Karoo, Western Cape, South Africa .....(3): 197-200  
 City of Rocks National Reserve, Idaho, USA .....(3): 191  
 Distribution of *Schlumbergera* in Brazil .....(3): 225  
 General Zaragoza, Nuevo León, Mexico .....(4): 283-286  
 Ipanema Beach, Rio de Janeiro, Brazil .....(4): 307  
 Klein Elandsfontein, Waterberg region, South Africa .....(1): 62  
 La Sal mountains, Utah, USA .....(3): 188  
 Mahajanga, Madagascar .....(4): 289  
 Pecos River, Val Verde County, Texas, USA .....(1): 6  
 Rio de Janeiro Botanical Garden, Brazil .....(4): 307-314  
 South Africa – the area where *Gibbaeum* are known to grow .....(4): 271-272  
 Sugarloaf Mountain, Rio de Janeiro, Brazil ..(4): 307  
 The Edwards Plateau, Texas, USA (1): 5-12
- Pleiospilos**  
*Pleiospilos compactus* .....(2): 155  
*Pleiospilos compactus* subsp. *canus* .....(2): 155  
*Pleiospilos willowmorensis* .....(2): 155
- Portulaca**  
*Portulaca kermesina* .....(4): 330  
*Portulaca rhodesiana* .....(4): 327, 328-329  
*Portulaca waterbergensis* .....(4): 327-330
- Prosopsis**  
*Prosopsis glandulosa* .....(1): 5
- Pseudobombax**  
*Pseudobombax ellipticum* .....(2): 144-146  
*Pseudobombax palmeri* .....(2): 146-147
- Pyrrhocactus (Eriosyce)**  
*Pyrrhocactus curvispinus* .....(4): 325  
*Pyrrhocactus megloli* .....(2): 128
- Quercus**  
*Quercus buckleyi* .....(1): 5  
*Quercus havardii* .....(1): 5  
*Quercus muehlenbergii* .....(1): 5  
*Quercus virginiana* .....(1): 5
- Rapicactus**  
*Rapicactus mandragora* subsp. *zaragosae* ..(4): 283
- Rebutia**  
*Rebutia atrovirens* var. *zecheri* .....(4): 304  
*Rebutia fiebrigii* .....(1): 44  
*Rebutia fischeriana* .....(4): 324  
*Rebutia flavistyla* .....(3): 216  
*Rebutia iseliniana* .....(3): 216
- Rebutia kesselringiana* .....(3): 216  
*Rebutia krainziana* .....(3): 245  
*Rebutia marsoneri* .....(3): N25, 245  
*Rebutia minuscula* .....(3): 215  
*Rebutia senilis* var. *kesselringiana* (*R. minuscula*) .....(4): 339  
*Rebutia steinmannii* .....(3): 325
- Rechsteineria**  
*Rechsteineria leucotricha* .....(3): 207
- Rhipsalidopsis**  
*Rhipsalidopsis rosea* .....(3): 232  
*Rhipsalidopsis* × *graeseri* .....(3): 232  
*Rhipsalidopsis* × 'Sirius' .....(3): 233
- Rhipsalis**  
*Rhipsalis baccifera* .....(2): 91  
*Rhipsalis elliptica* .....(4): 313  
*Rhipsalis lindbergiana* .....(4): 313  
*Rhipsalis pachyptera* .....(4): 313  
*Rhipsalis pilocarpa* .....(1): 16  
*Rhipsalis rosea* .....(3): 232
- Rhus**  
*Rhus lanceolata* .....(1): 5
- Roystonea**  
*Roystonea oleracea* .....(4): 312
- Ruschia**  
*Ruschia cradockensis* .....(3): 199
- Sapium**  
*Sapium carterianum* .....(3): N19
- Schlumbergera**  
*Schlumbergera* 'Cambridge' .....(3): 232-233, 234  
*Schlumbergera epiphyllodes* .....(3): 229  
*Schlumbergera gaertneri* ..(3): 226, 229-233  
*Schlumbergera* 'Gold Charm' .....(3): 234  
*Schlumbergera orssichiana* .....(3): 228-230  
*Schlumbergera* "rose-pink" .....(3): 234  
*Schlumbergera rosea* .....(3): 226, 230-233  
*Schlumbergera russelliana* .....(3): 227-228, 229, 232  
*Schlumbergera russelliana* 'Ashfield' .....(3): 227  
*Schlumbergera* "salmon-pink" .....(3): 234, 235-236  
*Schlumbergera* "strawberry-pink" .....(3): 235  
*Schlumbergera* 'Thor Livia' .....(3): 234  
*Schlumbergera* 'Thor Olga' .....(3): 233  
*Schlumbergera truncata* .....(3): 225-226, 228-230, 232-235  
*Schlumbergera truncata* 'Cambridge' .....(3): 232  
*Schlumbergera* × *buckleyi* 'Charles Lemaire' .....(3): 230-231  
*Schlumbergera* × *graeseri* .....(3): 231-232  
*Schlumbergera* × *reginae* .....(3): 230
- Sclerocactus**  
*Sclerocactus brevihamatus* subsp. *tobuschii* .....(1): 8  
*Sclerocactus parviflorus* .....(3): 188  
*Sclerocactus polyancistrus* f. *albino* (4): 336
- Sedum**  
*Sedum brevifolium* .....(3): 210  
*Sedum furfuraceum* .....(2): 110  
*Sedum hakonense* 'Chocolate Ball' ..(3): 237  
*Sedum hernandezii* .....(2): 110  
*Sedum lucidum* .....(4): 300  
*Sedum morganianum* .....(1): 16  
*Sedum polytrichoides* .....(3): 237  
*Sedum pulchellum* 'Sea Star' .....(3): 237-238
- Selenicereus**  
*Selenicereus dorschianus* .....(1): 16
- Semnanthe**  
*Semnanthe lacera* .....(2): 157
- Sempervivum**  
*Sempervivum cantabricum* .....(3): 210  
*Sempervivum montanum* .....(3): 211, 213  
*Sempervivum montanum* subsp. *carpathicum* .....(3): 211-212, 214
- Sempervivum montanum* subsp. *heterophyllum* .....(3): 211-212, 213-214
- Senecio**  
*Senecio* 'Hippogriff' .....(3): 238-239  
*Senecio macroglossus* .....(3): 239  
*Senecio* (*Curio*) *rowleyanus* .....(3): 218  
*Senecio stapeliiformis* .....(3): 207
- Senegalia**  
*Senegalia greggii* .....(1): 5
- Setiechinopsis (Echinopsis)**  
*Setiechinopsis mirabilis* .....(3): 207; (4): 297
- Sinningia**  
*Sinningia leucotricha* .....(3): 207-208
- Societies and Shows (other than BCSS)**  
 Devon County Show .....(3): N21
- Stapelia**  
*Stapelia divaricata* .....(3): 176, 247-249  
*Stapelia erectiflora* .....(3): 249  
*Stapelia gigantea* .....(3): 249; (4): 311  
*Stapelia hirsuta* .....(2): 132, 134  
*Stapelia leendertziae* .....(2): 155  
*Stapelia pallida* .....(3): 248  
*Stapelia similis* .....(3): 208-209
- Stapelianthus**  
*Stapelianthus arenarius* .....(4): 317  
*Stapelianthus decaryi* .....(4): 317  
*Stapelianthus insignis* .....(4): 317  
*Stapelianthus keraudreniae* .....(4): 317  
*Stapelianthus madagascariensis* .....(4): 318  
*Stapelianthus montagnacii* .....(4): 318  
*Stapelianthus pilosus* .....(4): 319
- Stapeliopsis**  
*Stapeliopsis breviloba* .....(4): 319  
*Stapeliopsis exasperata* .....(4): 319  
*Stapeliopsis khamiesbergensis* .....(4): 319  
*Stapeliopsis neronis* .....(4): 320  
*Stapeliopsis pillansii* .....(4): 318  
*Stapeliopsis saxatilis* .....(4): 320  
*Stapeliopsis stayneri* .....(4): 320  
*Stapeliopsis umiflora* .....(4): 318
- Stenocactus (Echinofossulocactus)**  
*Stenocactus multicostratus* .....(3): 208-209
- Stenocereus**  
*Stenocereus dumortieri* .....(2): 101  
*Stenocereus fibriatus* .....(2): 90, 91-92  
*Stenocereus queretaroensis* .....(1): N4
- Sterculia**  
*Sterculia africana* .....(2): 147-148
- Strelitzia**  
*Strelitzia reginae* .....(3): 247
- Sulcorebutia**  
*Sulcorebutia horacekii* .....(3): 209-210  
*Sulcorebutia purpurea* subsp. *horacekii* .....(3): 209  
*Sulcorebutia tarabucoensis* .....(4): 304
- Tephrocactus**  
*Tephrocactus articulatus* var. *papyracanthus* .....(1): 36  
*Tephrocactus verschaaffeltii* .....(2): 122  
*Tephrocactus weberi* .....(2): 122
- Thelesperma**  
*Thelesperma filifolium* .....(1): 9-10
- Tillandsia**  
*Tillandsia capitata* .....(2): 101
- Titanopsis**  
*Titanopsis hugo-schlechteri* .....(4): 326
- Trichocereus (Echinopsis)**  
*Trichocereus cuzcoensis* .....(1): 71  
*Trichocereus pachanoi* .....(3): 219-220  
*Trichocereus pasacana* .....(2): 122
- Tulista**  
*Tulista marginata* .....(1): 56  
*Tulista pumila* .....(1): 51 (flower)  
*Tulista pumila* var. *sparsa* .....(1): 4 (drawing)
- Turbinicarpus**  
*Turbinicarpus beguinii* subsp. *beguinii* .....(4): 284

<i>Turbinicarpus beguinii</i> subsp. <i>zaragozae</i> .....	<i>Xylocalyx</i>	<i>Ziziphus</i>
.....(4): 283-286	<i>Xylocalyx carterae</i> .....(3): N19	<i>Ziziphus obtusifolia</i> .....(1): 5
<i>Turbinicarpus zaragosae</i> .....(4): 283	<b>Yavia</b>	
<b>Tylecodon</b>	<i>Yavia cryptocarpa</i> (cristate) .....(3): <u>N27</u>	
<i>Tylecodon singularis</i> .....(2): <u>132</u>	<b>Yucca</b>	
<b>Uebelmannia</b>	<i>Yucca constricta</i> .....(1): 5, 11	
<i>Uebelmannia pectinifera</i> .....(3): N26- <u>N27</u>	<i>Yucca harrimaniae</i> .....(3): 189, <u>195</u>	
<b>Weberbauerocereus</b>	<i>Yucca rupicola</i> .....(1): 5, <u>10</u>	
<i>Weberbauerocereus weberbaueri</i> .....(1): 71	<i>Zanthoxylum</i>	
<b>Wilcoxia</b>	<i>Zanthoxylum hirsutum</i> .....(1): 5	
<i>Wilcoxia tuberosa</i> .....(1): 16		

#### Errata

The plant featured in *CactusWorld* 39(3): 242, Fig. 1 as *Crassula brevifolia* var. *brevifolia* was wrongly identified. The most likely correct identification appears to be *Crassula nudicaulis* var. *herrei*.