

SUBJECT INDEX

- ABA 343
- groundnut 343
- maturation proteins 343
- stress 343
Achillea millefolium 247
- germination 247
- viability 247
Agrotechnology 325
Alkali soil 378, 451
- aonla 451
- chlorophyll 378
- growth 378
- rice 378
- yield 378
- zinc 378
Allelopathy 181, 195, 313
- chickpea 181
- horse purslane 181
- leachates 181
- mungbean 195
- mustard 181
- *Parthenium* 313
- rice 195
- seed germination 181, 195
- seedling vigour 313
- *Sphaeranthus indicus* 195
- wheat 181, 195
- *Xanthium* 313
Aluminium 348
- rice 348
Antioxidant enzymes 36, 407, 413
- duckweed 176
- PEG stress 413
- rice 407, 413
- salinity 407
- sunflower 36
Aonla 451
- alkalinity 451
- fruit quality 451
Apple 217
- cell wall enzymes 217
- storage 217
Azolla 302
- cadmium 302
- hyperaccumulation 302
- nickel 302
- phytoremediation 302
Bell capsicum 164
- glycosidases 164
- heat treatment 164
- shelf life 164
Ber 199
- packages 199
- quality 199
- shelf life 199
Biotechnology 325
Bixa orellana L. 185
- bixin 185
- seeds 185
Brassica 101, 164, 283, 419
- Acetyl-CoA carboxylase gene 101
- biological yield 419
- cloning 101
- crop growth rate 419
- fatty acid composition 283
- growth 283
- harvest index 419
- leaf area index 419
- net assimilation rate 419
- rapeseed mustard 283
- seed yield 419
- yield 283
Cadmium 15
- pea 15
Castor bean 442, 447
- drought 447
- drought susceptibility 447
- light intensity 442
- net photosynthetic rate 442
- vapour pressure deficit 442
Chlorophyll 29, 62, 86, 90, 98, 112, 124, 429
- chlorophyllase 62
- chlorophyll degradation 112

SUBJECT INDEX

- chlorosis 62, 429
- lentil 90
- *Leucaena leucocephala* 86
- mango 112
- marshmallow 224
- micronutrients 98
- moth bean 29
- organic manures 98
- salinity stress 90
- SO₂ stress 224
- stay green fruits 112
- sugarcane 62, 429
- water stress 19
- wheat 98
- Cicer arietinum* L. 21, 294, 426
- chlorophyll 294
- germination 21
- membrane injury 294
- salt stress 21
- shoot morphogenesis 426
- temperature tolerance 294
- thaidiazuron 426
- yield 294
- Cotton 169, 255
- *in vitro* fibre development 255
- plant growth regulators 255
- preservatives 169
- salt tolerance 169
- seed vigour 169
- seed viability 169
- Cyperus rotundus* 367
- glyphosate 367
- translocation 367
- uptake 367

- Duckweed 176
- aluminium toxicity 176
- lipid peroxidation 176
- oxidative damage 176

- Ethylene 124
- sugarcane 124
- iron chlorosis 124

- Gentiana kurroo* 247
- germination 247
- viability 247
- Glyphosate 367
- *Cyperus rotundus* 367
- translocation 367
- uptake 367
- Grape 145, 395
- callus 145, 395
- multiple shoots 145
- rooting 145
- somatic embryos 395
- Groundnut 343
- ABA stress 343
- maturation proteins 343
- salt stress 343
- Growth 54, 79, 94, 212, 260, 269, 283, 294, 378, 419
- acid rain 79
- *Brassica juncea* 419
- chickpea 294
- date of sowing 419
- green manuring 269
- irrigation 419
- mulberry 54
- mungbean 79
- *Pluchea lanceolata* 260
- rapeseed mustard 283
- RGR 54
- rice 378
- ricebean 94
- sugarcane 269
- water stress 212
- wheat 212

- Harvest index 419
- *Brassica juncea* 419
- date of sowing 419
- irrigation 419
- Henna 275
- lawsone content 275
- light intensity 275
- Horse purslane 181
- allelopathy 181
- leachates 181

SUBJECT INDEX

- Justicea gendarussa* 388
 - salt stress 388
 - somatic embryos 388
- Lentil 90
 - pigments 90
 - potassium 90
 - salinity stress 90
 - sodium 90
- Leucaena leucocephala* 86
 - chlorophyll 86
 - nitrate reductase 86
- Litchi chinensis* 208, 372
 - desiccation 372
 - flowering 208
 - paclobutrazol 208
 - protein 372
 - seed viability 372
 - starch 372
 - sugars 372
- Maize 65, 118, 189, 203
 - alcohol dehydrogenase 65
 - anthesis silking interval 118
 - drought tolerance 203
 - heterobeltiosis 189
 - porometry 189
 - proline 65
 - tasseling 118
 - waterlogging 65, 118
 - water stress 189
- Mango 112, 136
 - chlorophyll degradation 112
 - *in vitro* culture 136
 - shoot bud explant 136
 - stay green fruits 112
- Marshmallow 224
 - chlorophyll 224
 - leaf morphology 224
 - photosynthesis 224
 - SO₂ stress 224
 - stomata 224
- Melon dialdehyde 413
 - rice 413
- Moth bean 29, 59
 - chlorophyll 29
 - kaempferol 59
 - nitrate reductase 29
 - photosynthesis 29
 - quercetin 59
 - tissue culture 59
 - water stress 29
- Mulberry 54, 278
 - amylase 278
 - fungal diseases 278
 - RGR 54
 - starch 278
- Mungbean 79
 - acid rain 79
 - growth 79
 - yield 79
- Nitrogen assimilatory enzymes 29, 75, 86, 438
 - aminotransferases 438
 - glutamate dehydrogenase 438
 - glutamine synthetase 438
 - *Leucaena leucocephala* 86
 - moth bean 29
 - nitrate reductase 438
 - nitrate reduction 438
 - rice 438
 - tomato 75
 - wheat 239
- Nothopodytes nimmoniana* 308
 - growth regulators 308
 - sand medium 308
 - semi-hard wood cuttings 308
- Oil palm 43
 - seasons 43
 - sex ratio 43
 - yield 43
- Pea 9, 15, 316
 - air pollution 9
 - cadmium partitioning 15

SUBJECT INDEX

- elicitor 316
- glucanase 316
- photosynthesis 9
- powdery mildew 316
- water use efficiency 9
- yield 9
- Pesticide 82
 - monocrotophus 82
 - oxidative stress 82
 - tea 82
- Photosynthesis 9, 29, 224, 407, 442
 - air pollution 9
 - castor bean 442
 - light intensity 442
 - marshmellow 224
 - moth bean 29
 - pea 9
 - rice 407
 - salinity 407
 - SO₂ stress 224
 - vapour pressure deficit 442
 - water stress 29
- Phytosiderophores 124
 - ethylene 124
 - iron chlorosis 124
 - sugarcane 124
- Pigeonpea 132
 - cotylendonary node 132
 - regeneration 132
- Plant physiological paradigm 325
 - agrotechnology 325
 - biotechnology 325
- Pluchea lanceolata* 260
 - biomass 260
 - neem cake 260
 - nitrogen 260
 - quercetin 260
 - sulphur 260
- Podophyllum hexandrum* 247
 - germination 247
 - viability 247
- Potato 69, 192
 - ageing 192
 - chemical sprout inhibition 69
 - ion leakage 192
 - respiration 69
- triadimefon 192
- Rauwolfia serpentina* 47
 - germination 47
 - VAM 47
- Red pepper 158
 - callus lines 158
 - growth 158
 - osmotic stress 158
 - proline 158
- Respiration 69
 - potato 69
- Rice 305, 230, 348, 378, 402, 407, 413, 435, 438
 - alkali soil 378
 - aluminium 348
 - aminotransferases 438
 - antioxidant enzymes 407
 - assimilates 402
 - chlorophyll 378
 - drought tolerance 305
 - flowering 305
 - glutamate dehydrogenase 438
 - glutamine synthetase 438
 - growth 378
 - male sterility 435
 - melon dialdehyde 413
 - metabolic dominance 402
 - nitrate reductase 438
 - nitrite reductase 438
 - nitrogen 320
 - nutritional changes 435
 - PEG stress 413
 - photosynthesis 407
 - potassium 320
 - pressure potential 413
 - pulling resistance 305
 - salinity 407
 - sheath rot disease 320
 - solute potential 413
 - superoxide dismutase 413
 - thermosensitivity 435
 - tiller dynamics 402
 - water potential 413
 - yield 378
 - zinc 378

SUBJECT INDEX

- Ricebean 94
 - growth 94
 - yield 94

- Salt stress 21, 90, 234, 269, 343, 360, 388, 407
 - ABA 343
 - antioxidant enzymes 407
 - chickpea 21
 - cotton 21
 - germination 21
 - groundnut 343
 - growth 234
 - *Justicea gendarussa* 388
 - lentil 90
 - maturation proteins 343
 - NaCl salinity 360
 - photosynthesis 407
 - pigments 90
 - potassium 90
 - proline 1, 234
 - rice 407
 - salt uptake 360
 - *Salvadora persica* 234
 - silicon 360
 - sodium 90
 - somatic embryos 388
 - sorghum 1
 - wheat 360
- Salvadora persica* 234
 - growth 234
 - proline 234
 - salinity 234
- Seed viability 372
 - desiccation 372
 - *Litchi chinensis* 372
- Silicon 360
 - NaCl salinity 360
 - wheat 360
- Sorghum 1
 - proline 1
 - salt tolerance 1
- Sugarcane 62, 124, 269, 354, 429
 - biomass 269
 - carbohydrates 429
 - chlorosis 62, 124, 429
 - chlorophyllase 62
 - ethylene 124
 - green manuring 269
 - intercrop 269
 - macronutrients 429
 - micronutrients 62, 429
 - micropropagation 124
 - nitrogen 269
 - phytosiderophores 124
 - ratoon 269
 - shootlet multiplication 354
 - thidiazuron 354
- Sunflower 36
 - antioxidant enzymes 36

- Tea 82
 - monocrotophus 82
 - oxidative stress 82
- Thidiazuron 354, 426
 - chickpea 426
 - shoot morphogenesis 426
 - shootlet multiplication 354
 - sugarcane 354
- Tissue culture 59, 124, 132, 145, 255, 288, 388, 395, 426
 - chickpea 426
 - cotton 255
 - grape 145, 395
 - *Justicea gendarussa* 388
 - mango 137
 - moth bean 59
 - pigeonpea 132
 - red pippier 158
 - sugarcane 354, 124
- Tobacco 288
 - flue cured tobacco 288
 - potash 288
 - topping 288
- Tomato 75
 - nitrate reductase 75

- Waterlogging 65, 118
 - alcohol dehydrogenase 65
 - anthesis silking interval 118
 - maize 65, 118

SUBJECT INDEX

- proline 65
- tasseling 118
- Water stress 29, 189, 203, 212, 447
 - castor 447
 - drought susceptibility index 447
 - drought tolerance 447
 - maize 189, 203
 - moth bean 29
 - nitrate reductase 29
 - photosynthesis 29
 - rice 305
 - wheat 212
- Wheat 98, 105, 212, 239, 360
 - chlorophyll 98
 - gliadin 105
 - grain protein 239
 - irrigation 239
 - leaf area duration 98
 - micronutrient 98
 - NaCl salinity 360
 - N application 239
 - nitrogen assimilation 239
 - organic manures 98
 - potassium sulphate 212
 - salt uptake 360
 - silicon 360
 - storage protein 105
 - urea 212
 - water stress 212
- Yield 9, 43, 79, 94, 208, 212, 269, 283, 294, 378, 419
 - acid rain 79
 - air pollution 9
 - *Brassica juncea* 419
 - chickpea 294
 - date of sowing 419
 - green manuring 269
 - irrigation 419
 - litchi 208
 - mungbean 79
 - oil palm 43
 - pea 9
 - rapeseed-mustard 283
 - rice 378
 - ricebean 94
 - sugarcane 269
 - wheat 212
 - water stress 212
- Zinc 378
 - alkali soil 378
 - chlorophyll 378
 - rice 378
 - zinc frit 378
 - zinc sulphate 378
- Zinnia 383
 - dehydration 383
 - pigment 383