

Index

Index for Rect Vol. **217**

Aerobic reduction, chromate, **217**: 106

Anion effects, Cr bioaccumulation, **217**: 98

Bacterial biotransformation, tannery effluent, **217**: 101

Bacterial chromate reduction, aerobically, **217**: 106

Bacterial fungicides, stereoisomer enrichment, **217**: 18

Bacterial growth effect, hexavalent chromium, **217**: 107

Bacterial mitigation, chromium contamination, **217**: 107

Bacterial reduction, chromium compounds, **217**: 100

Bacterial reduction, chromium, **217**: 106

Bacterial stains, chromium reduction potential, **217**: 106

Bioaccumulation by microbes, pH effects, **217**: 96

Bioaccumulation by microbes, temperature effects, **217**: 96

Bioaccumulation, bioremediation strategy, **217**: 95

Bioaccumulation, chromium, **217**: 82

Biological chromium reduction, aerobic or anaerobic, **217**: 108

Biological implication, stereoisometry, **217**: 3

Biomass (immobilized), chromium bioremediation (table), **217**: 113

Biomass elution, retrieving chromium, **217**: 112

Biomass pretreatment effect, biosorption, **217**: 95

Biomass, chromium bioremediation, **217**: 111

Bioreduction, bioremediation strategy, **217**: 100

Bioremediation of chromium, immobilized biomass (table), **217**: 113

Bioremediation of chromium, immobilized biomass, **217**: 111

Bioremediation strategies, chromium, **217**: 75ff.

Bioremediation strategies, for tannery waste, **217**: 84

Bioremediation strategy, bioaccumulation, **217**: 95

Bioremediation strategy, bioreduction, **217**: 100

Bioremediation strategy, biosorption, **217**: 85

Bioremediation techniques, vs. conventional ones, **217**: 78

Bioremediation, chromium & phenolics, **217**: 116

Bioremediation, description, **217**: 77

Bioremediation, factors limiting success (diag.), **217**: 85

Bioremediation, hexavalent chromium & phenolics (table), **217**: 118

Bioremediation, microbial sources, **217**: 84

Bioremediation, role & description, **217**: 84

Bioremediation, tannery effluent, **217**: 75ff.

Biosorbent concentration effect, biosorption process, **217**: 92

Biosorption by microbes, chromium (table), **217**: 86

Biosorption of metals, microbial processes, **217**: 88

Biosorption process, advantages, **217**: 88

Biosorption process, concentration effect, **217**: 92

Biosorption process, contact time effects, **217**: 93

Biosorption process, exopolysaccharide effects, **217**: 94

- Biosorption, biomass pretreatment effect, **217: 95**
- Biosorption, bioremediation strategy, **217: 85**
- Biosorption, chromium removal, **217: 85**
- Biosorption, heavy metal removal, **217: 85**
- Biosorption, live vs. dead cell use, **217: 85**
- Biosorption, living vs. dead cell biomass, **217: 89**
- Biosorption, metal ion effects, **217: 91**
- Biotransformation, chromium compounds, **217: 100**
- Carcinogenicity, chromium, **217: 81**
- Chemical chirality, key terms identified (table), **217: 2**
- Chiral center benefits, pesticides & drugs, **217: 2**
- Chiral datasets, pesticides, **217: 3**
- Chiral elements, in pesticides, **217: 2**
- Chiral forms described, fungicides, **217: 7**
- Chiral forms described, insecticides, **217: 38**
- Chiral forms, fungicides (table), **217: 8–12**
- Chiral forms, herbicides, **217: 19**
- Chiral forms, herbicides, plant growth regulators & safeners (table), **217: 20–28**
- Chiral forms, insecticides (table), **217: 39–46**
- Chiral forms, misc. pesticides (table), **217: 57–61**
- Chiral forms, pesticides (illus.), **217: 6**
- Chiral fungicides, ergosterol biosynthesis inhibitors, **217: 18**
- Chiral fungicides, structures (illus.), **217: 13–17**
- Chiral herbicide safeners, structures (illus.), **217: 29–37**
- Chiral herbicides, structures (illus.), **217: 29–37**
- Chiral insecticides, structures (illus.), **217: 47–54**
- Chiral pesticides (misc.), structures (illus.), **217: 62–67**
- Chiral pesticides, dataset curation (diag.), **217: 4**
- Chiral pesticides, description and nature, **217: 1ff.**
- Chiral plant growth regulators, structures (illus.), **29–37**
- Chirality classification, pesticide types (diag.), **217: 69**
- Chirality of pesticides, classification (diag.), **217: 69**
- Chirality, described, **217: 5**
- Chirality, key terms identified (table), **217: 2**
- ChirBase entries, fungicides, **217: 19**
- ChirBase entries, insecticides, **217: 56**
- ChirBase entries, misc. pesticides, **217: 68**
- Chromate, aerobic reduction potential, **217: 106**
- Chrome chemistry, in tanning, **217: 79**
- Chrome, in tanning processes, **217: 79**
- Chrome, role in tanning evolution, **217: 79**
- Chromium (hexavalent) & phenolics, microbial bioremediation (table), **217: 118**
- Chromium (hexavalent) reduction, bacterial growth effect, **217: 107**
- Chromium (hexavalent), industrial uses, **217: 76**
- Chromium (hexavalent), microbial reduction (table), **217: 102**
- Chromium bioaccumulation, anion effects, **217: 98**
- Chromium bioremediation, immobilized biomass (table), **217: 113**
- Chromium bioremediation, immobilized biomass, **217: 111**
- Chromium bioremediation, with phenolics, **217: 116**
- Chromium compounds, bacterial reduction, **217: 100**
- Chromium compounds, biotransformation, **217: 100**
- Chromium contamination, bacterial mitigation, **217: 107**
- Chromium contamination, Indian tannery waste, **217: 80**
- Chromium detoxification, methods, **217: 77**
- Chromium effects, from dietary exposure, **217: 82**
- Chromium effects, in tannery workers, **217: 82**
- Chromium elution, from immobilized biomass, **217: 112**
- Chromium exposure, symptoms, **217: 82**
- Chromium limits, in tannery waste, **217: 76**
- Chromium microbial reduction, electron donor role, **217: 108**
- Chromium pollution, tannery effluent, **217: 76**
- Chromium reduction inhibition, sulfate or nitrate, **217: 109**
- Chromium reduction potential, bacterial strains, **217: 106**
- Chromium reduction, aerobic or anaerobic, **217: 108**
- Chromium reduction, bacterial species, **217: 106**
- Chromium reduction, copper effects, **217: 111**
- Chromium reduction, heavy metal effects, **217: 110**

- Chromium remediation, treatment techniques (diag.), **217: 77**
- Chromium removal, biosorption, **217: 85**
- Chromium tannery waste, land contamination, **217: 81**
- Chromium toxicity, hexa- vs. tri-valent forms, **217: 81**
- Chromium waste, alternative treatments, **217: 77**
- Chromium waste, sources, **217: 76**
- Chromium, as a micronutrient, **217: 83**
- Chromium, bioaccumulation, **217: 82**
- Chromium, bioremediation strategies, **217: 75ff.**
- Chromium, carcinogenicity and mutagenicity, **217: 81**
- Chromium, discovery, **217: 79**
- Chromium, exposure sources, **217: 81**
- Chromium, in tannery effluent, **217: 80**
- Chromium, in vivo metabolism, **217: 82**
- Chromium, microbial accumulation, **217: 96**
- Chromium, microbial biosorption (table), **217: 86**
- Chromium, priority pollutant, **217: 76**
- Chromium, tannery effluent, **217: 75ff.**
- Chromium, toxicity, **217: 81**
- Chromium-laden effluents, in India, **217: 80**
- Contact time effects, microbial biosorption, **217: 93**
- Copper effects, chromium reduction, **217: 111**
- Detoxification methods, chromium, **217: 77**
- Dietary exposure effects, chromium, **217: 82**
- Electron donor role, microbial reduction of chromium, **217: 108**
- Ergosterol biosynthesis inhibitors, chiral fungicides, **217: 18**
- Exopolysaccharide effects, biosorption process, **217: 94**
- Fungicide structures, chiral forms (illus.), **217: 13–17**
- Fungicides from bacteria, stereoisomer enrichment, **217: 18**
- Fungicides, chiral forms (table), **217: 8–12**
- Fungicides, chiral forms described, **217: 7**
- Fungicides, ChirBase entries, **217: 19**
- Heavy metal accumulation, microbes, **217: 95**
- Heavy metal effects, chromium reduction, **217: 110**
- Heavy metal removal, biosorption, **217: 85**
- Heavy metals, wastewater disposal, **217: 76**
- Herbicide safener structures, chiral forms (illus.), **217: 29–37**
- Herbicide safeners, chiral forms (table), **217: 20–28**
- Herbicide structures, chiral forms (illus.), **217: 29–37**
- Herbicides, chiral forms (table), **217: 20–28**
- Herbicides, chiral forms, **217: 19**
- Herbicides, stereoisomer enrichment, **217: 19**
- India, chromium-laden effluents, **217: 80**
- India, tannery waste effluents, **217: 80**
- India, tanning industry described, **217: 76**
- Industrial effluent remediation, chromium (diag.), **217: 77**
- Industrial uses, hexavalent chromium, **217: 76**
- Industry, chromium waste, **217: 76**
- Insecticide structures, chiral forms (illus.), **217: 47–54**
- Insecticides, chiral forms (table), **217: 39–46**
- Insecticides, chiral forms described, **217: 38**
- Insecticides, ChirBase entries, **217: 56**
- Insecticides, stereoisomer enrichment, **217: 55**
- Land contamination, chromium tannery waste, **217: 81**
- Leather tanning, history, **217: 78**
- Metabolism (in vivo), chromium, **217: 82**
- Metal biosorption process, microbes, **217: 88**
- Metal concentration effects, biosorption process, **217: 92**
- Metal ion effects, biosorption, **217: 91**
- Microbe accumulation, heavy metals, **217: 95**
- Microbial accumulation, chromium, **217: 96**
- Microbial bioaccumulation, pH effects, **217: 96**
- Microbial bioaccumulation, temperature effects, **217: 96**
- Microbial biomass, chromium bioremediation (table), **217: 113**
- Microbial bioremediation, phenolics & hexavalent chromium (table), **217: 118**
- Microbial biosorption process, exopolysaccharide effects, **217: 93**
- Microbial biosorption process, metals, **217: 88**
- Microbial biosorption, chromium (table), **217: 86**
- Microbial biosorption, contact time effects, **217: 93**
- Microbial biosorption, living vs. dead cell biomass, **217: 89**
- Microbial biosorption, metal ion effects, **217: 91**
- Microbial biosorption, pH effects, **217: 89**
- Microbial biosorption, temperature effects, **217: 90**
- Microbial mats, toxic metal accumulation, **217: 99**
- Microbial reduction of chromium, electron donor role, **217: 108**
- Microbial reduction, hexavalent chromium (table), **217: 102**

- Microbial sources, for bioremediation, **217**: 84
- Micronutrient role, chromium, **217**: 83
- Mutagenicity, chromium, **217**: 81
- Pesticide (misc.) structures, chiral forms (illus.), **217**: 62–67
- Pesticides (misc.), ChirBase entries, **217**: 68
- Pesticides, chiral center benefits, **217**: 2
- Pesticides, chiral dataset curation (diag.), **217**: 4
- Pesticides, chiral datasets, **217**: 3
- Pesticides, chiral elements, **217**: 2
- Pesticides, chiral forms (illus.), **217**: 6
- Pesticides, chiral forms (table), **217**: 57–61
- Pesticides, chiral forms described, **217**: 56
- Pesticides, chirality, **217**: 1ff.
- Pesticides, molecular asymmetry, **217**: 1
- pH effects, microbial biosorption, **217**: 89
- Phenolics & chromium (hexavalent), microbial bioremediation (table), **217**: 118
- Phenolics bioremediation, with chromium, **217**: 116
- Plant growth regulator structures, chiral forms (illus.), **217**: 29–37
- Plant growth regulators, chiral forms (table), **217**: 20–28
- Priority pollutant, chromium, **217**: 76
- Remediation techniques, chromium waste (diag.), **217**: 77
- Stereoisomer enrichment, insecticides, **217**: 55
- Stereochemistry, definition, **217**: 5
- Stereoisomer enrichment, bacterial fungicides, **217**: 18
- Stereoisomer enrichment, herbicides, **217**: 19
- Stereoisometry, biological implications, **217**: 3
- Symptoms of exposure, chromium, **217**: 82
- Tannage, history, **217**: 78
- Tannery effluent, bacterial biotransformation, **217**: 101
- Tannery effluent, bioremediation strategies, **217**: 75ff.
- Tannery effluent, chromium bioremediation, **217**: 75ff.
- Tannery effluent, chromium pollution, **217**: 80
- Tannery waste limits, of chromium, **217**: 76
- Tannery waste, bioremediation strategies, **217**: 84
- Tannery waste, chromium involvement, **217**: 76
- Tannery waste, chromium land contamination, **217**: 81
- Tannery workers, chromium effects, **217**: 82
- Tanning evolution, chrome role, **217**: 79
- Tanning industry described, India, **217**: 76
- Tanning leather, ancient art, **217**: 78
- Tanning process, chrome chemistry, **217**: 79
- Tanning process, chrome role, **217**: 79
- Tanning process, description, **217**: 78
- Tanning waste treatment, in India, **217**: 80
- Temperature effects, microbial biosorption, **217**: 90
- Toxic metal accumulation, microbial mats, **217**: 99
- Toxicity, chromium, **217**: 81
- Wastewater disposal, heavy metals, **217**: 76