Index

A
Abdallah, M.A., 29
Adhesion, 198, 199
  benefits of, 202
  mechanism of, 195, 196
    molecular/cellular phase, 196, 197
    physical phase, 196
  theories of, 197
    DLVO theory, 197, 198
Agronomic by-products, 168, 173, 213
Ahmed, E., 34
Ahmed, S., 113
Ahmed T., 89
Aino, K., 60, 67
Aizawa, T., 60, 63, 70
Ajithkumar, P.V., 108
Alarcón, B., 271, 276
Albesa, I., 28
Alkaliphiles, 11, 15, 64, 67, 95
Alkaliphilic bacteria, 71, 96, 113
Allerberger, F., 266, 267
Alva, V., 89, 95
Aniline
  degradation of, 113
  degradation/ transformation studies of, 119, 120
Annweiler, E., 108
Anson, J.G., 113
Antifouling agent, 181
Anyanwu, C.U., 50, 51
Anzai, Y., 43
Aono, R., 70
Arahal, D.R., 111
Aranda, C., 117
Armstrong, G.A., 8
Aslim, B., 6
Atkinson, S., 120
Audurier, A., 273
Aurora, R., 266
Autio, T., 273
Aznar, R., 271, 276

B
Bachofer, R., 113
Bacillus amyloliquefaciens, 31, 136
Bacillus halodurans, 72, 73
Bacillus lehensis, 72, 73, 74
Bacillus megaterium, 5, 29, 143, 157, 158, 159
Bacillus subtilis, 20, 50, 134, 140, 184
Bacterial consortium, 89, 230
Bae, H., 39, 40
Bahm, Y.S., 63
Bailey, M.J., 89
Bakker, H., 264
Banciu, H.L., 64
Barbeau, K., 26, 27
Barbour, M.G., 90, 91
Barbuddhe, S.B., 265, 266, 267, 271
Bar-Ness, E., 34
Barnett, J.A., 93
Bar-or, Y., 74
Basu, A., 48
Bayley, R.C., 90, 91
Beena, K.R., 4
Bellis, P., 10
Benzoquinone, 93
Berlanga, M., 6
Bertsch, D., 264
Beuchat, L.R., 268
Beumer, R.R., 270
Bhagwat, A.A., 271
Bhilegaonkar, K. N., 266
Bhosale, P., 8
Bhosle, S., 16, 18, 19, 31, 33, 40, 42, 43, 44, 45, 46, 49, 50, 51, 53, 73
Bhushan, B., 64, 70

S. Borkar (ed.), *Bioprospects of Coastal Eubacteria,*
DOI 10.1007/978-3-319-12910-5

Bille, J., 268, 269
Biodegradable, 7, 151, 155, 163, 241
Biodegradable polymer, 151
Biodegradation, 7, 40, 41
  of aromatic compounds, 85, 86
Bio-fuels, 143
Bioremediation, 39, 40, 43, 87, 186
Biosurfactant, 45, 50, 51
Blackburn, J.W., 86
Blanco, K.C., 60, 63
Blanco, M. B., 268
Blumer, C., 10
Boorman, A.L., 1
Boorman, L., 30
Borgave, S.B., 63
Borkar, S., 60, 62, 73
Borsodi, A.K., 61
Boruah, H.P.D., 29
Borucki, M.K., 271, 272
Bouwer, E.J., 39, 41, 42, 49, 87
Boyer, E.W., 61
Boyer, G.L., 29
Brackett, R.E., 268
Braud, A., 28, 29, 30, 34
Braun, M., 8
Braun, V., 8
Brenner, D.J., 44
Brezonik, P.L., 49
Britton, G., 8
Buchanan, R.L., 268
Budzikiewicz, H., 27
Buffering capacities, 66, 73
Bultreys, A., 28
Burks, N.J., 4
Butanol, 135, 138, 139, 140, 141
Butler, A., 26, 27

C
Call, D.R., 272
Camilli, A., 270
Cao, B., 39, 40, 41
Cao, J., 70
Carter, R.W.G., 30
Casida, L.E. Jr., 28
Catimel, B., 270
Chakraborty, T., 265
Chandrasekaran, M., 6
Chapman, P.J., 88, 90
Chauthaiwale, J., 61
Chayabutra, C., 40, 42, 44
Chénier, M.R., 42
Chen, W., 87
Cholesterol transformation, 143, 144
Chu, B.C., 26, 32
Churchill, R.L., 270, 271
Citrus fruit waste, 171, 172
Clark, A.G., 269
Clegg, R.A., 26
Clement, P.D., 89
Cocolin, L., 271
Coir fibre, 226, 238
Coir pith, 226, 234, 235
Collins, M.D., 64
Cook, M.G., 73
Corcoran, D., 273, 278
Cox, C.D., 53
Crawford, R.L., 91
Crumbliss, A.L., 32
Curtis, G.D.W., 267, 268

D
Daane, L.L., 7
Dagley, S., 87
Dalton, D.A., 4
Danovara R., 6
Defago, G., 29
De Leenbeer, A.P., 8
Delepelaire, P., 25
Demain, A.L., 8
Denitrification, 39, 42
  influence of hydrocarbons on, 49
Denitrifying bacteria, 39, 41, 42, 43
Desai, K. N., 1, 2, 3
Desai, K.N., 30
Desai, R.S., 12, 96
De Sousa, S.N., 39
De Sousa, T., 40, 42, 43, 44, 45, 46, 49, 50, 51, 53
De Souza, M.L., 89
Dickel, D., 87
Dimitrov, P.L., 61
Dimkpa, C.O., 34
Dinkla, I.J.T., 33
Djordjeric, S.P., 93
Domínguez-Cuevas, P., 44, 46
Duffy, B.K., 29
Duhme, R.C., 29
Dunkley, E.A., 66

E
Ellis, B.M.L., 86
El-Sheekh, M.M., 40, 45
Enzymes, 26, 67, 136, 211, 270
Ercolani, G.L., 10
Evans, W.C., 91
Exopolymer, 16, 70, 74
Exopolysaccharide (EPS), 6, 16, 45
Extremophiles, 59, 129

F
Fabiano, M., 6
Faraldo-Gómez, J.D., 8
Feist, C.F., 89
Ferguson, D., 53
Ferguson, S.A., 64
Ferulic acid, 209, 211, 212, 213, 214
Feruloyl esterase, 43, 210, 213
Finley, K.T., 98
Firestone, M.K., 6
Flavobacterium, 64, 96, 97, 100, 228
Florenzano, G., 61, 64
Frankenberger, W.T., Jr., 9
Franzetti, A., 46, 50, 51
Fuchs, G., 42
Fuenmayor, S.L., 89
Fujinami, S., 67
Fujisawa, M., 66
Fujiwara, N., 70
Fukumori, F., 89

G
Gaonkar, T., 31, 33, 43, 44, 51, 53
Garcia, M.L., 95
Gardener, B., 10
Garg, A.P., 63
Gee, J.M., 62, 64, 71, 96
Georganta, G., 61, 63, 65
Gerner-Smidt, P., 267
Gessesse, A., 61, 70
Ghauri, M.A., 60
Gheysen, D., 28
Gibson, D.T., 90, 95
Gilbert, F., 44, 49
Glick, B.R., 9, 10, 20
Godinho, A., 19, 20, 31
Godinho, L.A., 16, 18, 19
Golden, D.A., 269
Golovleva, L.A., 88, 90
Goodwin, T.W., 93
Gould, S.J., 29
Graves, L.M., 264, 272, 273, 279
Gray, M.L., 265
Grimont, F., 273
Grimont, P.A., 273
Grossmann, K., 10
Guan, L.L., 25
Guerinot, M.L., 12

H
Haas, D., 10
Hafker, W.R., 86
Halomonas, 95, 111, 116
Halophiles, 11, 111, 113
Hammond, R.K., 8
Hamon, M.A., 264
Harpel, M.R., 91
Harrington, J.M., 32
Hay, A.G., 89
Hayaishi, O., 87, 91
Hazeleger, W.C., 270
Hearing, V.J., 93
Hegeman, G.D., 89
Hegeman, J.H., 93
Hemicellulose, 108, 209
Her, J., 49
Hickford, S.J.H., 26
Hider, R.C., 26
Holmstrom, S.J.M., 34
Homann, V.V., 26
Hontzeasa, N.A., 10
Horikoshi, K., 70, 95
Hossain, H.Z., 30
Huang, J., 49
Hughes, E.T.L., 88, 89
Hunter, W.J., 39
Hussain, K.A., 34
Hu, X., 29
Hydrocarbons, 40, 86
  effects on growth and cell morphology, 45, 48
  on denitrification
    influence of, 49
Hydroxycinnamates, 209
Hydroxymuconic semialdehyde (HMS), 91

I
Iizuka, H., 43
Ingle, M.B., 61
Ingole, B.S., 40, 43
Ishimura, Y., 33
Ito, Y., 26, 27

J
Jacquet, C., 272
Jain, V., 10
Janek, T., 50
Janssen, D.B., 86, 87
Jaradat, Z.W., 274
Johan, E.T., 87
Johri, B.N., 29
Joo, J.H., 34
Ju, L., 40, 42, 44

K
Kaiser, P., 48
Kalekar, S., 278
Kampert, M., 9

Kanekar, P.P., 95
Kataeva, I.A., 88, 90
Kazumi, J., 88
Kelley, S.K., 92, 99, 100, 101
Khan, K., 7
Killinger, A.H., 265
Kim, E.J., 27, 28
Kimura, N., 94
King, E.O., 29
Kiran, B.S., 87, 88
Kisaalita, W.S., 32
Kleinsteuber, S., 95
Komagata, K., 43
Kong, X., 26
Kremer, R.J., 10
Kunhi, A.A.M., 108
Kupper, F.C., 26

L
Laine, M.H., 28
Lee, M.S., 4
Lee, W.H., 267
Leveau, J.H.J., 9
Light, P.A., 26
Lindow, S.E., 9
Lingens, F., 113
Listeria monocytogenes, 263, 264, 271
Listeriolysin O (LLO), 264, 269
Listeriosis, 264, 265
  symptoms of, 266
Li, X.Z., 29
Loon, L.C., 9
Loper, J.E., 9
Loren, J.G., 66
Lutkenhaus, J.F., 29

M
Makkar, R.S., 50
Mangrove, 30, 96, 203
Manninen, E., 28
Marine siderophores, 26, 27
Martin, C., 273
Martínez-Hernández, S., 42
Martinez, J.S., 26, 27
Martin, J.D., 26, 27
Mattila-Sandholm, T., 28
Mavrodi, D.V., 51
Maya, M.V., 43
McCoy, M.M., 4
McLaughlin, J., 269
Mehta, S., 9
Messenger, A.J.M., 28
Metal ions, 29, 188
  effect on siderophore production, 33
Meyer, J.M., 29
Microbial enzymes, 6
Morris, J., 28
Moss, M., 51
Murray, K., 88

N
Namvar, A., 264
Nanda, G., 69
Naqvi, S.W.A., 42
Nautiyal, S.C., 9
Neilands, J.B., 8, 12, 28
Nelis, H.J., 8
Nerurkar, A.S., 50, 51
Neumann, G., 46
Neves, E., 273
Newell, D.G., 264
Nile blue A, 153, 157, 172
N, N-Dimethyl-1-Naphthylamine (NND), 115
Norman, R.S., 50, 51, 52
Norton, D.M., 271
Notermans, S.H.W., 269, 270
Nowak-Thompson, B., 29
Nozaki, M., 33

O
Ochsner, U.A., 27, 28
Ohyama, A., 51
Organic solvent tolerant bacteria (OSTB), 129, 138

P
Pal, K.K., 10
Palleroni, N.J., 28
Palumbo, J.D., 272
Pan, Y., 264
Park, M.S., 4
Patten, C., 9
Peng, F., 50
Pérez-Pantoja, D., 40, 41, 42
Peterson, C.H., 40
Peyton, B., 89, 95
Phale, P.S., 48
Philipp, B., 40, 41
Pierson, E.A., 50, 51, 52, 53
Pierson, L.S. III, 50, 51, 52, 53
Plant growth promoting rhizobacteria (PGPR), 8, 19, 20
Polyhydroxyalkanoates (PHAs), 12, 151, 152
Polymixin-acriflavin-lithium chloride-ceftazidime-asculin-mannitol (PALCAM), 268, 274
Polyphenols, 227, 228
Portnoy, D.A., 269

Postgate, J.R., 10
Prince, R.C., 7
Pseudomonas aeruginosa, 28, 31, 42, 52, 185, 202
Pseudomonas nitroreducens, 43
Pseudomonas stutzeri, 185, 188
Pugsley, A.P., 29
Pulse-field gel electrophoresis (PFGE), 272, 273, 279

R
Ramanathan, A.L., 30
Rao, M., 61
Rao, Y.M., 53
Ratledge, C., 28
Rawte, T., 30
Raymond, K.N., 26
Ray, R.R., 69
Reber, H.H., 48
Red compound, 119, 122
Rees, H.C., 65
Reid, C.P., 34
Retting, 227, 228, 230
Rhizosphere, 1, 3, 4, 16
Roadcap, G.S., 60, 61
Roberson, E.B., 6
Rocourt, J., 270, 273
Ruis, N., 66

S
Saeki, K., 69
Saikia, S.P., 10
Saint, C.P., 89
Salva, T.D.G., 70
Sand dune, 1, 3, 20, 215
Sandy, M., 26, 27
Sansom, M.S.P., 8
Saraf, M., 34
Sardessai, S., 43
Sarethy, I.P., 67
Schink, B., 40, 41
Schlundt, J., 263
Schmeling, S., 42
Schnaitman, C.A., 29
Schroth, M.N., 9
Seitzinger, S.P., 39
Shaner, D.L., 39
Sharma, A., 29
Shetye, S.R., 43
Shikata, S., 70
Shilo, M., 74
Shinoda, Y., 42
Shirai, T., 69
Siderophores, 8, 13, 26
Sikkema, J., 7, 44, 45
Singh, S., 70
Sivadas, S., 40, 43
Sneath, P.H., 72
Sodium benzoate, 33, 34, 52, 96, 97, 101
Soil aggregation, 16
Soil fertility, 252
Song, B., 42
Song, J., 33
Sorokin, D.Y., 62, 63, 65
Souissi, T., 10
Staijen, I.E., 33
Stevens, L.H., 94
Strand, A., 8
Struelens, M.J., 272
Submerged cultivation, 166, 170, 173
  PHA production using, 169, 170
Subramanian, V., 90, 95
Sundar, D., 43
Sureshkumar, G.K., 53
Swaminathan, B., 267, 273, 279
Sylvia, D.M., 4

T
Takami, H., 61, 65
Tanghe, T., 89
Tank, N., 34
Teitzel, G.M., 29
Tender coconut husk, 236, 238
Terplan, G., 270
Tilak, R.B.V.K., 3
Triphenyltin (TPT), 179
  as source of environmental pollution, 181
  chemical and physical properties of, 180, 181
  effects on various ecosystem, 183, 184, 185
  microbial transformation of, 185, 186
Triphenyltin-transforming bacteria, 179, 180
Tsuge, T., 94
Tyrosine
  degradation of, 92, 93
    by Falvobacterium strain A-131, 99, 101

U
Untawale, A.G., 1, 2, 3
Ushiba, Y., 89

V
Van der Zaan, B.M., 42
Van Hamme, J.D., 40, 41

Van Kessel, J.S., 265
Van Netten, P., 268
Van veen, J.A., 5
Vasil, M.L., 27
Vázquez, S., 44
Vermicomposting, 242, 243, 252, 254
Vermiwash (VW), 254
Vignesh, R., 50, 51
Villegas, M., 28
Visca, P., 27
Vlaemynck, G., 268, 270
Voisard, C., 10
Vraspir, J.M., 27

W
Wackett, L.P., 89
Wagner, M., 266, 267
Wandersman, C., 25
Wang, C., 49
Wang, X.B., 88
Wang, Y., 34, 51, 52
Ward, B.B., 42, 45
Warriner, K., 264
Wasielewsk, E., 51, 53
Watanabe, K., 87
Wentzel, A., 40, 41
White, D.C., 8
Whiteley, A.S., 89
Wiedmann, M., 265, 272, 273
Wielinga, P.R., 263
Williams, P.A., 88
Wilson, L.P., 39, 41, 42, 49

X
Xiao, R., 32

Y
Yabuuchi, E., 51
Yumoto, I., 63, 65, 66, 88, 95, 98

Z
Zchendir, A.J.B., 87
Zehr, J., 45
Zeyaullah, M., 33
Zeyer, J., 89
Zhang, H., 44
Zhang, H.-M., 64
Zhang, Z., 42, 44
Zhao, B., 65
Zhao, S., 39
Zhilina, T.N., 62, 64
Zylstra, G.J., 88