

Cambridge University Press

978-1-107-40904-0 - Surface Engineering 2004—Fundamentals and Applications:
Materials Research Society Symposium Proceedings: Volume 843

Editors: Soumendra N. Basu, James E. Krzanowski, Joerg Patscheider and Yury Gogotsi

Index

[More information](#)

AUTHOR INDEX

- Abernathy, H., 13
 Ando, Teiichi, 123
 Aoki, Takaaki, 183, 189
 Aono, Masami, 209
- Basu, Soumendra, 35
 Bedolla-Jacuinde, A., 299
 Bentley, James, 265
 Bergman, Leah, 75
 Berry, C.J., 13
 Bobzin, K., 3
 Bouten, Piet C.P., 105
 Bradby, J.E., 259
 Brigmon, R., 13
 Brooks, C.R., 131
 Buchanan, R.A., 131
- Casey, Elizabeth, 341
 Cavaleiro, Albano, 25
 Chauhan, Alok, 341
 Chen, P., 203
 Chen, Xiang-Bai, 75
 Cheng, Yang-Tse, 89
 Chiang, C.L., 131
 Chowdhury, S., 293
 Chu, J.P., 131
- Daniel, C., 195
 De Hosson, Jeff Th.M., 25
 Dellas, Nicholas S., 329
 Dong, Lei, 271
 Doumanidis, Charalabos C., 123
 Dünge, W., 99
- Endrino, J.L., 19
 Erdemir, Ali, 49
- Fahrner, W.R., 99
 Fenske, George, 49
 Franco Júnior, Adolfo, 143
 Funatsu, Takayuki, 221
 Furusawa, Kenji, 183
- Galasso, Francis S., 117
 Galvan, Damiano, 25
 Gey, C., 19
- Gilman, John J., 283
 Grummon, David S., 89
 Gunduz, Ibrahim Emre, 123
 Gutmann, R.J., 305
- Haberl, B., 259
 Harper, James M.E., 169, 329
 Hirsch, D., 155
 Holland, A.S., 215
 Hsieh, Y.Y., 131
 Huang, Y.L., 99
 Huening, J.J., 277
- Imura, Toru, 67
 Islam, Zahirul, 49
 Iwasaki, Chihiro, 209
- Jang, Jae-il, 75, 265, 277
 Job, R., 99
 Johnson, Jacqueline Anne, 49
- Kakuta, Shigeru, 183
 Karimi, A., 161
 Kassavetis, S., 311
 Kitazawa, Nobuaki, 209
 Klein, T.M., 203
 Kmetz, Michael A., 117
 Knotek, O., 3
 Kobayashi, Masanori, 221
 Kobayashi, Naoki, 227
 Kohyama, Masanori, 111
 Kojima, M., 245
 Kondo, Toshiyuki, 353
 Krzanowski, James E., 137, 317
 Kuhnt, E., 19
 Kumar, Arun, 55
 Kumar, Ashok, 55, 149
- Lance, M.J., 277
 Laugier, M.T., 293
 Lee, Ly James, 43
 Leech, P.W., 215
 Lev, Leonid, 149
 Li, Lang, 81
 Liang, Mengning, 75
 Liaw, P.K., 131

Cambridge University Press

978-1-107-40904-0 - Surface Engineering 2004—Fundamentals and Applications:
Materials Research Society Symposium Proceedings: Volume 843

Editors: Soumendra N. Basu, James E. Krzanowski, Joerg Patscheider and Yury Gogotsi

Index

[More information](#)

- Liu, F.X., 131
 Logothetidis, S., 311
 Lu, J.-Q., 305
 Lugscheider, E., 3
 Lukehart, Charles M., 81
 Lukitsch, Michael, 149
- Ma, Y., 99
 Maes, M., 3
 Mändl, S., 155
 Mano, Hideo, 67
 Manova, D., 155
 Maruyama, Takahiro, 353
 Matsumuro, Akihito, 67
 Matsuo, Jiro, 183, 189, 251
 McMahan, J.J., 305
 Mehta, Nikhil J., 49
 Mettler, T., 19
 Miller, Jimmie A., 271
 MoberlyChan, Warren J., 329
 Mochizuki, T., 239
 Moore, R.A., 215
 Moran, Wilton, 341
 Mücklich, Frank, 177, 195
 Murahara, Masataka, 221, 227,
 233, 239, 245, 323
- Nable, Jun C., 117
 Narayan, R.J., 13
 Naritsuka, Shigeya, 353
 Nemanich, Robert J., 75, 277
 Neuhaus, J., 19
 Neumann, H., 155
 Ni, Wangyang, 89
 Nisancioglu, Kemal, 347
 Nordlien, Jan Halvor, 347
 Nosheen, Shaneela, 117
- Okamoto, Yoshiaki, 221
- Patsalas, P., 311
 Patten, John A., 75, 271
 Pei, Yutao, 25
 Perova, T., 215
 Phani, A.R., 137
 Pharr, George M., 75, 267, 277
- Prorok, Barton, 49
- Rainforth, W.M., 299
 Rauschenbach, B., 155
 Reeves, G.K., 215
 Reisner, D.E., 335
 Ridgway, M., 215
 Riester, L., 13
 Roberts, Steve G., 143
 Roy, Sujoy, 49
- Sævik, Øystein, 347
 Saito, Kohji, 353
 Sankar, J., 61
 Santana, A., 161
 Santiago, P., 335
 Sarakinos, K., 311
 Sasaki, Shinji, 183
 Sato, Yuji, 227
 Sato, Yuki, 323
 Satoru, Kondo, 67
 Seki, Toshio, 183, 251
 Sengupta, Sreeparna, 81
 Shattuck, Emily D., 123
 Shover, Ann Marie, 329
 Si, Weidong, 341
 Sikder, Arun, 55, 149
 Sinha, Sunil, 49
 Soldera, Flavio A., 177
 Suib, Steven L., 117
- Tanaka, Shingo, 111
 Tezuka, Y., 233
- van Gils, Marcel A.J., 105
 Vasco, Th., 161
- Wachter, A., 19
 Walter, Jennifer J.H., 75
 Wang, Ping, 81
 Wang, X., 61
 Watanabe, Yoshihisa, 209
 Waters, C., 61
 Wen, Songqing, 265, 277
 White, Henry, 341
 Williams, J.S., 259

Cambridge University Press

978-1-107-40904-0 - Surface Engineering 2004—Fundamentals and Applications:

Materials Research Society Symposium Proceedings: Volume 843

Editors: Soumendran N. Basu, James E. Krzanowski, Joerg Patscheider and Yury Gogotsi

Index

[More information](#)

Wong, Peter Y., 123

Woodford, John, 49

Wu, L., 131

Xiao, T.D., 335

Xu, L. Roy, 81

Xu, Zhenqing, 55, 149

Yamamoto, Yo, 353

Yang, Rui, 111

Yang, Yong, 43

Yarmolenko, S., 61

Ye, Guosheng, 35

Young, G., 61

Yu, J., 305

Yu, Yingda, 347

Yuan, W., 131

Zhang, Heng., 335

Zinovev, Alexander, 49

Zölgert, B., 99

Cambridge University Press

978-1-107-40904-0 - Surface Engineering 2004—Fundamentals and Applications:

Materials Research Society Symposium Proceedings: Volume 843

Editors: Soumendra N. Basu, James E. Krzanowski, Joerg Patscheider and Yury Gogotsi

Index

[More information](#)

SUBJECT INDEX

- adhesion, 149
 tests, 341
- AFM, 293
- Ag-SiO₂, 329
- AlN-TiN, 61
- alumina, 143
- aluminium, nickel, 195
- amorphous silicon, 259
- antimicrobial properties, 13
- ArF
 excimer laser, 245
 laser, 239
- atomic force microscope, 353
- BEOL, 305
- biaxial texture, 169
- buckling, 105
- capacitance, 203
- carbon
 dioxide, 43
 nitride, 209
 thin films, 293
- cathodic arc evaporation, 19
- chemical vapor deposition, 55, 149
- cluster, 189
 ion, 251
- CrAlN, 3, 19
- cross-sectional TEM, 265
- CVD, 117
- diamond(-), 149, 215
 like carbon, 13, 49
- electrical insulating, 335
- electroless plating, 239
- failure, 105
- fatigue
 properties, 131
 strength, 67
- FEP, 323
- first-principles, 111
- flexible, 105
- fluorine, 189
- fluorocarbon, 239
- friction, 49, 317
 coefficient, 137
- gallium arsenide, 353
- gas cluster ion beam, 183
- germanium, 277
- glass-forming coatings, 131
- 6H-SiC, 75
- hafnium oxide, 203
- hardness, 283, 311
- high speed deformation, 123
- hydrogen(-)
 in silicon, 99
 terminated, 55
- hydrophilic, 323
 group, 227
- impact testing, 3
- indentation(-), 89
 induced phase transformation,
 277
- interface, 111, 117
- ion
 bombardment, 169
 implantation, 215, 259
- IR laser, 271
- laser interference metallurgy, 195
- lattice expansion, 155
- mechanical property, 111
- mechanisms, 283
- melting depression, 123
- microcrack formation, 35
- micro-Raman spectroscopy, 99
- molecular
 beam epitaxy, 353
 dynamics, 189
- molybdenum disulphide, 317
- mullite coating, 335
- nanocomposite(s), 81, 161
 coatings, 25
- nanocrystal, 67
- nanocrystalline diamond, 55

Cambridge University Press

978-1-107-40904-0 - Surface Engineering 2004—Fundamentals and Applications:

Materials Research Society Symposium Proceedings: Volume 843

Editors: Soumendra N. Basu, James E. Krzanowski, Joerg Patscheider and Yury Gogotsi

Index

[More information](#)

- nanodomes, 293
- nanofiber, 81
- nanohardness, 137
- nanoindentation, 259, 265
- nano-structured surface layers, 99
- nitrides, 311
- nitrogen
 - ion beam, 209
 - plasma, 203
- off-normal irradiation, 183
- oxide layer, 177
- Pb enrichment, 347
- permalloy, 183
- phase transformation, 265
- photochemical oxidization, 245
- photo-chemically laminated, 233
- PIII, 155
- plasma
 - erosion, 177
 - spray, 35
- polarization, 347
- polymer surface dynamics, 43
- polymeric MEMS/NEMS, 43
- preferential sputtering, 169
- protein adsorption, 227
- pseudomorphic, 161
- PTFE, 227
- pulsed laser deposition, 13, 341
- Raman
 - scattering, 75
 - spectroscopy, 277
- reactive
 - ion etch, 215
 - pulsed laser ablation, 137
 - sputtering, 251
- real time measurement, 323
- resistivity, 329
- room temperature, 233
- RuAl, 177
- shape memory, 89
- shot peening, 67
- SiC fiber, 117
- silica glass, 221
- silicon, 271
 - carbide, 341
 - whisker, 335
- silicone oil, 221, 245
- Si₃N₄, 75
- SiO₂ film, 233
- 316L stainless steel, 131
- steel, 155
- stresses, 35
- structural joints, 81
- structure, 311
- TEM, 299
 - characterization, 347
- theory of hardness, 283
- thin film(s), 61, 329
- thin multi-film, composite, 195
- TiAlN, 19, 161
- TiC, 25
- time of flight, 251
- Ti/Si, 305
- transformation, 271
- tribological, 61
- tribology, 3, 89, 317
- vacancy, 123
- wafer bonding, 305
- wear
 - map, 143
 - properties, 25
 - wet erosive wear, 143
 - white iron, 299
 - worn surface, 299
- Xe₂ lamp, 221
- XPS, 209
- x-ray studies, 49