

Cambridge University Press

978-1-107-40939-2 - Materials Research Society Symposium Proceedings: Volume 776:
Unconventional Approaches to Nanostructures with Applications in Electronics, Photonics,
Information Storage and Sensing

Editors: Orlin D. Velev, Timothy J. Bunning, Younan Xia and Peidong Yang

Index

[More information](#)

AUTHOR INDEX

- Adar, Fran, 3
 Al-Jassim, M.M., 113
 Aydil, Eray S., 101
- Baskar, Chinnapan, 201
 Bassani, F., 253
 Baxter, Jason B., 101
 Bensahel, D., 253
 Berbezier, I., 253
 Bergman, Leah, 3
 Bessems, Ron E.M.W., 101
 Bindeus, Roland, 37
 Bremond, G., 253
 Bridges, Frank, 9
 Bunning, T.J., 225
- Cai, Yuanhua, 125
 Cao, Wenyi, 159
 Chen, Chia-Chun, 23
 Chen, Fu-Rong, 23
 Chen, Li-Chyong, 23
 Chen, Peilin, 67
 Chen, Xiang-Bai, 3
 Chen, Yang-Fang, 23
 Chen, Yong-Lin, 23
 Chigirinsky, Lubov A., 49
 Cho, Yi-Hong, 67
 Choi, Han-Ho, 107
 Coleman, James E., 95
- Decossas, S., 253
 Deguchi, Hiroyuki, 231
 Dickert, Franz L., 37
 Di Vece, M., 207
 Dubois, C., 253
- Feldmeier, Joel, 3
 Fitrilawati, Fitri, 201
 Fu, Degang, 177
- Gabriel, Jean-Christophe P., 271
 Glushchenko, Anatoliy, 193
 Gu, Hongwei, 177
 Guo, Qijie, 187
- Haderspöck, Claudia, 37
- Han, Song, 89, 137, 213, 265
 Hayden, Oliver, 37
 Heo, Jungna, 259
 Hsu, Chih Ming, 219
 Hsu, Julia W.P., 143
 Hussein, M.L., 249
- Ishida, Yoshihisa, 231
 Ivanisevic, Albena, 131
- Jacobson, Joseph, 171
 Javier, Artjay, 17
 Jeong, Taewon, 259
 Jin, Wu, 137, 265
- Kai, Ji-Jung, 23
 Kaler, Eric W., 81
 Kanoun, M., 253
 Kelly, J.J., 207
 Kermarrec, O., 253
 Kim, Bongsoo, 119
 Kim, Changwook, 119
 Kim, J.M., 259
 Kim, Tae Yun, 259
 Kim, Wonseok, 259
 Knoll, Wolfgang, 201
 Ko, Hwa-Young, 61
 Kohiki, Shigemi, 231
 Kramer, Ryan M., 151
 Kuo, Cheng Tzu, 219
 Kuo, Chun-Wen, 67
- Lee, Chang Soo, 259
 Lee, Gangho, 119
 Lee, Jeonghee, 259
 Lee, Sang Hyun, 259
 Lee, Shu Hsing, 219
 Lee, Tae-Woo, 143
 Leroy, Emmanuel, 3
 Li, Chao, 89, 137, 213, 265
 Li, Xia, 125
 Lieberzeit, Peter A., 37
 Lim, Y., 253
 Lin, Chao Hsun, 219
 Lin, Hung-Min, 23
 Liu, P., 113

Cambridge University Press

978-1-107-40939-2 - Materials Research Society Symposium Proceedings: Volume 776:
Unconventional Approaches to Nanostructures with Applications in Electronics, Photonics,
Information Storage and Sensing

Editors: Orlin D. Velev, Timothy J. Bunning, Younan Xia and Peidong Yang

Index

[More information](#)

- Liu, Xiaolei, 89, 137, 213, 265
 Liu, Yau-Chung, 23
 Loganathan, Amritraj G., 151
 Lumsdon, Simon O., 81
 Lun, Ning, 125
 Luo, Guohua, 55
- Ma, W.Q., 249
 Ma, Xicheng, 125
 Magana, Donny, 9
 Mann, Karl-Jürgen, 37
 Mayers, Brian T., 75
 Mitome, Masanori, 231
 Mitrofanov, Oleg, 143
 Möck, Peter, 43
 Moon, Heesung, 119
 Moon, Jooho, 61
 Mosley, David W., 171
 Muñoz, Antonio, 159
- Nahm, Kee Suk, 259
 Naik, Rajesh R., 151
 Nam, Changhun, 119
 Natarajan, L.V., 225
 Ning, Guoqing, 55
 Nogami, Sinichiro, 231
 Norman Jr., Thaddeus J., 9
- Oku, Masaoki, 231
- Palfy-Muhoray, Peter, 159
 Park, Joodong, 107
 Pei, Jianhong, 243
 Purdy, Andrew P., 3
 Putra, Ananda, 201
- Ravindranath, Renu, 201
 Rokhvargher, Anatoly E., 49
 Romero, M.J., 113
 Ronda, A., 253
- Salamo, G.J., 249
 Sellmyer, Mark A., 171
 Shimooka, Hirokazu, 231
 Shin, Hyunjung, 61
- Shirakashi, Jun-ichi, 237
 Shiu, Jau-Ye, 67
 Singh, Rajiv K., 107
 Souifi, A., 253
 Stone, Morley, 151
 Strouse, Geoffrey F., 17
 Sun, Yugang, 31
 Sutherland, R.L., 225
- Taheri, Bahman, 159
 Tajiri, Takayuki, 231
 Takemura, Yasushi, 237
 Tang, Jun, 177
 Tang, Tao, 137, 213, 265
 Teng, Xiaowei, 187
 Thundat, Thomas, 243
 Tian, Fang, 243
 Tomlin, D., 225
 Tondiglia, V.P., 225
 Tsai, Ming Her, 219
- Valiyaveetil, Suresh, 201
 Velev, Orlin D., 81
- Wang, Chong-Min, 95
 Wang, Lai-Sheng, 95
 Wang, Qixiang, 55
 Wei, Fei, 55
 Wen, Shulin, 125
 West, John L., 193
 White, Christopher A., 143
- Xia, Younan, 31, 75
 Xie, Jie, 177
 Xu, Bing, 177
 Xu, Chenjie, 177
- Yan, Yanfa, 113
 Yang, Hong, 187
 Yang, Jian, 23
 Yin, Kai-Min, 23
 Young, James S., 95
 Yu, Meng, 131
 Yu, SeGi, 259
 Yun, C. Steven, 17

Cambridge University Press
978-1-107-40939-2 - Materials Research Society Symposium Proceedings: Volume 776:
Unconventional Approaches to Nanostructures with Applications in Electronics, Photonics,
Information Storage and Sensing
Editors: Orlin D. Velev, Timothy J. Bunning, Younan Xia and Peidong Yang
Index
[More information](#)

Zhang, Daihua, 137, 213, 265
Zhang, Hai-Feng, 95
Zhang, Jin Z., 9

Zhang, Ke, 193
Zhou, Chongwu, 89, 137, 213, 265

Cambridge University Press

978-1-107-40939-2 - Materials Research Society Symposium Proceedings: Volume 776:
Unconventional Approaches to Nanostructures with Applications in Electronics, Photonics,
Information Storage and Sensing

Editors: Orlin D. Velev, Timothy J. Bunning, Younan Xia and Peidong Yang

Index

[More information](#)

Cambridge University Press

978-1-107-40939-2 - Materials Research Society Symposium Proceedings: Volume 776:
Unconventional Approaches to Nanostructures with Applications in Electronics, Photonics,
Information Storage and Sensing

Editors: Orlin D. Velev, Timothy J. Bunning, Younan Xia and Peidong Yang

Index

[More information](#)**SUBJECT INDEX**

- adlayer, 171
- AFM, 131
 - topography, 49
- aqueous latex dispersion, 81
- bioanalytes, 37
- biomimetic, 151
- cadmium oxide, 89
- carbon
 - encapsulation, 55
 - fiber, 95
 - nanotube, 219, 271
- CdSe, 17
- chemical
 - sensor(s), 213, 271
 - vapor deposition, 89, 95
- Co-filled carbon nanotubes, 125
- colloids, 61
- copper, 9
- core-shell, 23
- Coulomb blockade, 237
- CVD, 137
- doping, 113
- electron cyclotron resonance CVD, 219
- electronic properties, 265
- endotaxy, 43
- epitaxy, 43
- evaporation, 107
- field
 - effect transistor, 271
 - emission, 259
- FTIR, 249
- gallium nitride, 137
- GaN ensembles, 3
- Ge nanocrystals, 253
- glucose, 243
- gold, 31
- grain-boundary-reaction, 55
- growth mechanism, 219
- high-resolution TEM, 125
- helical nanowire, 95
- hologram, 225
- hydrogen diffusion, 207
- imprinted polymers, 37
- indium
 - nitride, 265
 - oxide, 213
- InGaAs, 249
- ink-jet printing, 61
- iron(-)
 - cobalt, 119
 - platinum, 187
- Langmuir-Blodgett technique, 187
- laser diffraction, 81
- LaSrMnO₃, 231
- liquid crystal, 159, 193
- magnetic(-)
 - nanoparticles, 55
 - polymer grain orientation, 49
 - tunnel junction, 237
- mass sensitive detection, 37
- MBE, 249
- memories, 253
- MEMS, 177
- microcantilever, 243
- micro contact printing, 187
- microstructure, 125
- mirrorless lasing, 159
- nanocluster wire, 119
- nanocross, 95
- nanocrystal, 17, 231
- nanoinprint, 67
- nanoneedles, 89
- nanoparticles, 3, 9
- nanophotonics, 225
- nanoshells, 31
- nanosphere lithography, 67
- nanostructure(s), 113, 207, 259
- nanowire(s), 23, 75, 101, 107, 213
 - synthesis, 265

Cambridge University Press

978-1-107-40939-2 - Materials Research Society Symposium Proceedings: Volume 776:
Unconventional Approaches to Nanostructures with Applications in Electronics, Photonics,
Information Storage and Sensing

Editors: Orlin D. Velev, Timothy J. Bunning, Younan Xia and Peidong Yang

Index

[More information](#)

- Nematic-isotropic interface, 193
- optical properties, 23
- oxidation, 253
- particles, 193
- patterning, 131, 177
- PDLC, 225
- periodic nanostructure, 67
- photoluminescence, 3
- photonic
 - band gap, 159
 - crystal, 143
- poly(diacetylene), 171
- polymers, 131
- polyparaphenylenes, 201
- protein, 151
- quantum dot(s), 17, 43
- SAM, 171
- selenium, 75
- self-assembly, 61, 151, 201
- SEM, 95
- sensing applications, 31
- sensor, 243
- silicon carbide, 95
- single electron transistor, 237
- solventless polymerization, 177
- SQUID, 231
- SU-8, 143
- switchable mirror, 207
- tellurium, 75
- TEM, 95
- thermal decomposition, 119
- thin films, 201
- 3D nanoarchitecture, 49
- 2D crystals, 81
- two-photon lithography, 143
- YBCO superconductor ceramic
 - nanoparticles, 49
- zinc
 - oxide, 101, 107
 - selenide, 9
- ZnO, 101, 113, 259