

## Subject Index of Volume 489

- Ab initio calculation  
 Ab initio study of the stability of  $X$  ( $X=\text{Cr, Nb, Ag}$ ) ultra-thin layers on  $\text{Cu}(001)$ , 344
- Adsorption  
 On the optical properties of gadolinium hydride systems, 330
- Alkali metals  
 Efficient sodium chlorate/calcium/aluminum cathode for polymer light-emitting diodes, 262
- Aluminium oxide  
 Crystalline coatings of aluminosilicate  $\text{Al}_2\text{SiO}_5$  polymorphs formed by solid state reaction of alumina layers with silicon/silica substrates, 5
- Aluminosilicate  
 Crystalline coatings of aluminosilicate  $\text{Al}_2\text{SiO}_5$  polymorphs formed by solid state reaction of alumina layers with silicon/silica substrates, 5
- Amorphous materials  
 Properties of amorphous aluminate dielectrics synthesized via photosensitized pulsed laser ablation of luminescent targets, 99
- Anisotropy  
 Directional-rolling method for strained  $\text{SiGe/Si}$  films and its application to fabrication of hollow needles, 169
- Atomic force microscopy  
 $\text{ZrO}_2$  thin films with controllable morphology and thickness by spin-coated sol–gel method, 17  
 Growth modes transition induced by strain relaxation in epitaxial  $\text{MgO}$  thin films on  $\text{SrTiO}_3$  (001) substrates, 245
- Auger Electron Spectroscopy (AES)  
 Electron energy loss spectroscopy, low energy electron diffraction, and auger electron spectroscopy study of Indium overlayers on  $\text{Si}(111)$  and  $\text{Si}(100)$  surfaces, 111
- Barium strontium titanium oxide  
 Improvement in crystallization and electrical properties of barium strontium titanate thin films by gold doping using metal-organic deposition method, 31
- Boron nitride  
 Complexity of the microstructure evolution for optimization cBN growth in a four-step ion-assisted deposition process, 63
- Buckle delamination  
 Buckle delamination of textured  $\text{TiO}_2$  thin films on mica, 221
- Buffer layer  
 Effect of  $\text{Eu}_2\text{CuO}_4/\text{Yttrium-stabilized ZrO}_2$  buffer layers on  $\text{YB}_2\text{Cu}_3\text{O}_{7-x}$  thin films grown on Si substrates, 200
- Cadmium sulphide  
 Particulate assemblies of  $\text{CdS}$  and  $\text{TiO}_2$  prepared by Langmuir–Blodgett technique with octadecylamine/methylstearate mixed films, 205
- Carbon nanotubes  
 Computations of local electric field and electric forces acting on carbon nanotubes in a direct current plasma sheath, 291
- Catalyst  
 Improvement in crystallization and electrical properties of barium strontium titanate thin films by gold doping using metal-organic deposition method, 31
- Chemical deposition  
 Effect of multi-coating process on the orientation and microstructure of lead zirconate titanate (PZT) thin films derived by chemical solution deposition, 74
- Chemical mechanical polishing (CMP)  
 Effect of slurry pH on the defects induced during the plug isolation chemical mechanical polishing, 145
- Chemical vapour deposition (CVD)  
 A study of diamond synthesis by hot filament chemical vapour deposition on nanocomposite coatings, 116
- Chromium  
 Cr-diamondlike carbon nanocomposite films: Synthesis, characterization and properties, 150
- Coating  
 A theoretical model for prediction of deposition efficiency in cold spraying, 79
- Cold spraying  
 A theoretical model for prediction of deposition efficiency in cold spraying, 79
- Conducting oxide  
 Influence of hydrogen incorporation in sol-gel derived aluminum doped  $\text{ZnO}$  thin films, 94
- Contacts  
 Lateral growth and three-dimensional effects in contacts between  $\text{NiSi}_{0.82}\text{Ge}_{0.18}$  and  $\text{p}^+-\text{Si}_{0.82}\text{Ge}_{0.18}$ , 159
- Copper  
 A theoretical model for prediction of deposition efficiency in cold spraying, 79  
 Scanning tunneling microscopy characterization of the surface morphology of copper films grown on mica and quartz, 325
- Corrosion protection  
 Corrosion protection of 316 L stainless steel by a  $\text{TiO}_2$  nanoparticle coating prepared by sol–gel method, 130
- Crystallization  
 Crystalline coatings of aluminosilicate  $\text{Al}_2\text{SiO}_5$  polymorphs formed by solid state reaction of alumina layers with silicon/silica substrates, 5
- Cuprous oxide  
 Preparation of photoelectrodes with spectral response in the visible without applied bias based on photochemically deposited copper oxide inside a porous titanium dioxide film, 50
- Density functional theory  
 Ab initio study of the stability of  $X$  ( $X=\text{Cr, Nb, Ag}$ ) ultra-thin layers on  $\text{Cu}(001)$ , 344

- Deposition efficiency
  - A theoretical model for prediction of deposition efficiency in cold spraying, 79
- Deposition process
  - Preparation of photoelectrodes with spectral response in the visible without applied bias based on photochemically deposited copper oxide inside a porous titanium dioxide film, 50
- Depth profiling
  - Depth profile characterization of electrodeposited multi-thin-film structures by low angle of incidence X-ray diffractometry, 86
- Diamond
  - A study of diamond synthesis by hot filament chemical vapour deposition on nanocomposite coatings, 116
- Diamondlike carbon
  - Cr-diamondlike carbon nanocomposite films: Synthesis, characterization and properties, 150
- Dielectric properties
  - Properties of amorphous aluminate dielectrics synthesized via photosensitized pulsed laser ablation of luminescent targets, 99
- Dominant rate process
  - Dominant rate process of silicon surface etching by hydrogen chloride gas, 104
- Doping
  - Enhanced phosphorescence and electroluminescence in triplet emitters by doping gold into cadmium selenide/zinc sulfide nanoparticles, 296
- Electrical properties
  - Improvement in crystallization and electrical properties of barium strontium titanate thin films by gold doping using metal-organic deposition method, 31
  - Electrical and optical properties of highly oriented nanocrystalline vanadium pentoxide, 68
- Electrical properties and measurements
  - Efficient sodium chlorate/calcium/aluminum cathode for polymer light-emitting diodes, 262
  - Computations of local electric field and electric forces acting on carbon nanotubes in a direct current plasma sheath, 291
  - Effect of thermal treatment in oxygen, nitrogen, and air atmospheres on the electrical transport properties of zinc oxide thin films, 303
  - Effect of substrate properties and thermal annealing on the resistivity of molybdenum thin films, 310
- Electroconductive
  - Preparation and characterization of electroconductive poly(thiophene-co-pyrrolylundecanoic acid) Langmuir-Blodgett films, 215
- Electrodeposition
  - The effects of pH and temperature on Ni-Fe-P alloy electrodeposition from a sulfamate bath and the material properties of the deposits, 122
- Electroluminescence
  - Dependence of the emission from tris (8-hydroxyquinoline) aluminum based microcavity on device thickness and the emission layer position, 235
  - Enhanced phosphorescence and electroluminescence in triplet emitters by doping gold into cadmium selenide/zinc sulfide nanoparticles, 296
- Electron cyclotron resonance
  - Studies of niobium thin film produced by energetic vacuum deposition, 56
- Electron Energy Loss Spectroscopy (EELS)
  - Electron energy loss spectroscopy, low energy electron diffraction, and auger electron spectroscopy study of Indium overlayers on Si(111) and Si(100) surfaces, 111
- Energetic condensation
  - Studies of niobium thin film produced by energetic vacuum deposition, 56
- Epitaxy
  - Growth and properties of epitaxial PtMn/NiFe bilayers on Si (001) substrate containing directly deposited ordered PtMn, 186
  - Buckle delamination of textured TiO<sub>2</sub> thin films on mica, 221
- Etch rate
  - Dominant rate process of silicon surface etching by hydrogen chloride gas, 104
- Etching
  - Directional-rolling method for strained SiGe/Si films and its application to fabrication of hollow needles, 169
  - Study of the plasma etching process for low-loss SiO<sub>2</sub>/Si optical waveguides, 229
- Evaporation
  - Dependence of the emission from tris (8-hydroxyquinoline) aluminum based microcavity on device thickness and the emission layer position, 235
- Exchange biasing
  - Growth and properties of epitaxial PtMn/NiFe bilayers on Si (001) substrate containing directly deposited ordered PtMn, 186
- Exchange-coupling
  - Analysis on the spin reorientation of GdFeCo/DyFeCo exchange-coupled double-layer films, 181
- Fatigue behavior
  - Ferroelectric properties of Bi<sub>3.25</sub>Ce<sub>0.75</sub>Ti<sub>3</sub>O<sub>12</sub> thin films prepared by a liquid source misted chemical deposition, 1
- Ferroelectric properties
  - Ferroelectric properties of Bi<sub>3.25</sub>Ce<sub>0.75</sub>Ti<sub>3</sub>O<sub>12</sub> thin films prepared by a liquid source misted chemical deposition, 1
  - Effect of multi-coating process on the orientation and microstructure of lead zirconate titanate (PZT) thin films derived by chemical solution deposition, 74
- Fluorination
  - High gas-sensitivity and selectivity of fluorinated zinc phthalocyanine film to some non-oxidizing gases at room temperature, 257
- Fourier transform infrared transmission spectroscopy
  - Optical properties of fluorinated carbon films prepared by inductively coupled plasmas, 164
- Fullerenes
  - The effect of side chains on the performance of solar cells fabricated from poly[2-methoxy-5-(2'-ethylhexoxy)-1,4-phenylene vinylene] and C<sub>60</sub> dicarboxylate, 251
- Gas-sensitivity
  - High gas-sensitivity and selectivity of fluorinated zinc phthalocyanine film to some non-oxidizing gases at room temperature, 257
- Gold
  - Improvement in crystallization and electrical properties of barium strontium titanate thin films by gold doping using metal-organic deposition method, 31
- Growth mechanism
  - Complexity of the microstructure evolution for optimization cBN growth in a four-step ion-assisted deposition process, 63
  - Growth modes transition induced by strain relaxation in epitaxial MgO thin films on SrTiO<sub>3</sub> (001) substrates, 245
- Heat treatment
  - Effect of thermal treatment in oxygen, nitrogen, and air atmospheres on the electrical transport properties of zinc oxide thin films, 303
- Heterostructures
  - Directional-rolling method for strained SiGe/Si films and its application to fabrication of hollow needles, 169
- Hydrogen chloride
  - Dominant rate process of silicon surface etching by hydrogen chloride gas, 104
- Hydrogenation
  - Influence of hydrogen incorporation in sol-gel derived aluminum doped ZnO thin films, 94

Download English Version:

<https://daneshyari.com/en/article/9812296>

Download Persian Version:

<https://daneshyari.com/article/9812296>

[Daneshyari.com](https://daneshyari.com)