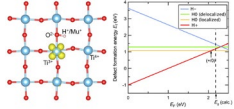


水素照射されたSrTiO₃における局所電子挙動の起源となり得る水素-Ti³⁺複合体

Review

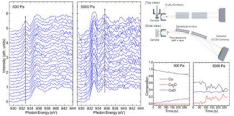


T. U. Ito
Hydrogen-Ti³⁺ Complex as a Possible Origin of Localized Electron Behavior in Hydrogen-Irradiated SrTiO₃
 Vol. 20, Iss. 3, pp. 128-134 (2022) (Review Paper)

specific suggest present interstitial characteristic
 realistic hydrogen electron recent
 generalize irradiate study defect
 conduction band paramagnetic
 complex small form localize
 functional complex metallic reveal

表面化学反応のリアルタイム観察を目指した蛍光収量波長分散型軟X線吸収分光法の開発

Regular

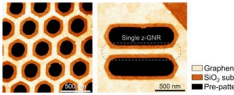


K. Amemiya, K. Sakata, M. Suzuki-Sakamaki
Development of Fluorescence-yield Wavelength-dispersive Soft X-ray Absorption Spectroscopy for Real-time Observation of Surface Chemical Reaction
 Vol. 20, Iss. 3, pp. 135-138 (2022) (Regular Paper)

energy change spherical use ambient
 scan illumination soft spectrum
 position absorption record ray
 develop consist indicate different
 reaction surface increase

水素プラズマエッチングによるグラフェンのナノスケール作製

Regular

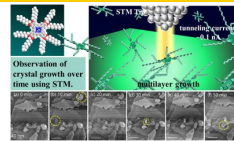


T. Yokosawa, M. Kamada, T. Ochi, Y. Koga, R. Kakehara *et al.*
Nanoscale Fabrication of Graphene by Hydrogen-Plasma Etching
 Vol. 20, Iss. 3, pp. 139-144 (2022) (Regular Paper)

suggest etching
 shape
 anisotropic edge
 align graphene
 electronic zigzag

STM, SEM, TEM, XRDによる多層オクタキス(オクチルオキシ)フタロシアニンの観察

Regular

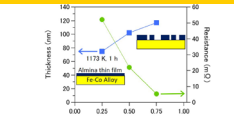


R. Yoneda, M. Ageishi, S. Ogawa, T. Abukawa, T. Takami
Multilayer Deposition of Octakis(octyl-oxy) Phthalocyanine Observed by Scanning Tunneling Microscopy, Scanning Electron Microscopy, Transmission Electron Microscopy, and X-ray Diffraction
 Vol. 20, Iss. 3, pp. 145-149 (2022) (Regular Paper)

show arrange like
 scan
 crystal confirm columnar
 study broad grow aliphatic
 attribute electron

低酸素分圧下アニールによりFeCo-V合金表面に形成された酸化アルミニウム薄膜の特性評価

Regular

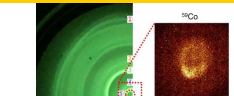


K. Urakawa, M. Kasuya, K. Kanie, H. Shibata, T. Sato *et al.*
Characterization of Aluminum Oxide Thin Films Formed on Surfaces of FeCo-V Alloys by Annealing under a Low Partial Pressure of Oxygen
 Vol. 20, Iss. 3, pp. 150-154 (2022) (Regular Paper)

dimension thickness resistivity
 content
 electrical oxide film
 alloy

真空エレクトロスプレー法による質量制御イオンビームの開発

Regular

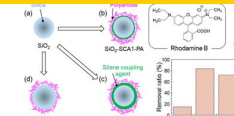


M. Nojima
Development of Mass-controlled Ion Beam through a Vacuum Electro-spray Method
 Vol. 20, Iss. 3, pp. 155-160 (2022) (Regular Paper)

control ion elemental
 focus beam contain low
 mass govern explore estimate

芳香族ポリアミド-シリカ複合粒子の合成とシランカップリング剤導入の効果

Regular

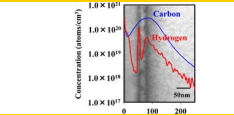


Y. Yoshioka, T. Ehiro
Synthesis of Aromatic Polyamide-Silica Composite Particles and the Effect of Incorporating Silane Coupling Agent
 Vol. 20, Iss. 3, pp. 161-166 (2022) (Regular Paper)

remove different similar show
 obtain synthesis original untreated adsorption
 significant particle porous
 use adsorb composite

高濃度炭化水素分子イオン注入シリコンにおける急速熱処理中の捕捉水素の解離速度

Regular

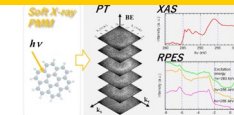


T. Kadono, R. Okuyama, R. Hirose, K. Kobayashi, A. Onaka-Masada *et al.*
Dissociation Kinetics of Trapped Hydrogen in High-dose Hydrocarbon-Molecular-Ion-Implanted Silicon during Rapid Thermal Annealing
 Vol. 20, Iss. 3, pp. 167-173 (2022) (Regular Paper)

energy secondary increasing
 dissociation expect
 related hydrogen
 carbon high amorphous
 defect implant trap

光電子運動量顕微鏡を用いた高配向性コロネン単原子層の共鳴光電子分光法

Regular

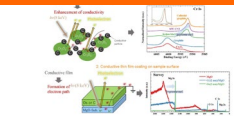


Y. Hasegawa, F. Matsui, S. Kera
Resonant Photoemission Spectroscopy of Highly-Oriented-Coronene Monolayer using Photoelectron Momentum Microscope
 Vol. 20, Iss. 3, pp. 174-179 (2022) (Regular Paper)

momentum optical measuring
 wide molecular describe
 soft resonant install selective
 localized electronic
 oriented study understand important

硬X線光電子分光における絶縁体材料の帯電効果の抑制

Proceeding

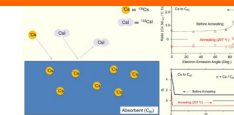


S. Yasuno, O. Seo, L. S. R. Kumara
Suppression of Charging Effect of Insulating Materials in Hard X-ray Photoelectron Spectroscopy
 Vol. 20, Iss. 3, pp. 180-185 (2022) (Proceeding Paper)

practical thin walled suppress mixed
 low conductive
 powder charging
 material untreated compare result
 proper photoelectron peak

放射光X線光電子分光によるフラーレン中のCsおよびCsIの吸収特性のアニーリング効果の研究

Proceeding



T. Sekiguchi, K. Yokoyama, T. Yaita
Annealing Effect of Absorbing Property for Cs and CsI in Fullerene Investigated by Synchrotron X-ray Photoelectron Spectroscopy
 Vol. 20, Iss. 3, pp. 186-195 (2022) (Proceeding Paper)

annealing Cs
 high effect
 investigate