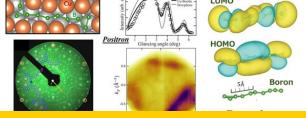




貴金属(111)表面におけるホウ素原子鎖の構造と電子状態

Review

Y. Tsujikawa *et al.*

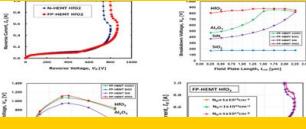
Structure and Electronic State of Boron Atomic Chains on a Noble Metal (111) Surface

Vol. 22, Iss. 1, pp. 1-8 (2024) (Review Paper)

separate affect crystal reveal 2d usage two structure
copper analyze CU 3d cu ideal three
concerting height phase position
relative arrange compose atomic
intriguingly know electronic develop layer

絶縁体パッシベーション層を有する高耐圧AlGaN/GaN高電子移動度トランジスタの設計最適化

Regular



P. H. Than and T. Q. Than

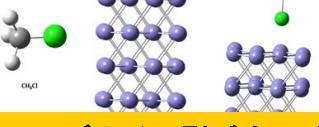
Design Optimization of High Breakdown Voltage AlGaN/GaN High Electron Mobility Transistor with Insulator Dielectric Passivation Layer

Vol. 22, Iss. 1, pp. 9-15 (2024) (Regular Paper)

available achieve utilize breakdown favorable condition
minimal plate high insulator dielectric
scale voltage insisto algan_gan heterostructure
mobility optimize passivation thickness effect
possess aid great finding

Fe(110)表面とクロロメタンのナノスケールの相互作用；ファンデルワールス計算

Regular



S. A. Saraireh

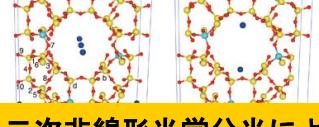
Nano-scale Interaction of Chloromethane (CH₃Cl) with the Fe(110) Surface; A van der Waals Calculation

Vol. 22, Iss. 1, pp. 16-24 (2024) (Regular Paper)

reasonable consider atom use dissociate der
group investigate adsorption report
great fe surface molecule interaction
bond methyl cl walls chloromethane study
scale methyl cl walls different molecular theory
methyl dissociation

モルデナイト型ゼオライトの原子・電子構造

Regular

S. Hosokawa *et al.*

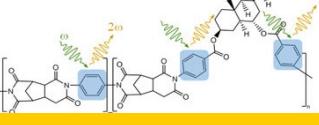
Atomic and Electronic Structures on a Mordenite Zeolite

Vol. 22, Iss. 1, pp. 25-31 (2024) (Regular Paper)

pair photon spectrum si zeolite energy state soft apply
mordenite find sxes minor atomic xsas orbital
insulate electronic obtain ray partial measure functional
electronic voltage orbital orbital orbital orbital
vibration measure functional

二次非線形光学分光によるステロイド構造をもつポリイミドの表面改質の保存時間依存性の検出

Regular

T. T. Nguyen *et al.*

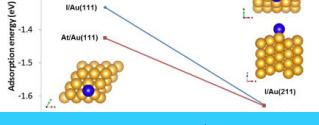
Detection of Surface Modification of Polyimide Containing Steroidal Structure as a Function of Storage Time Using Second-Order Nonlinear Optical Spectroscopy

Vol. 22, Iss. 1, pp. 32-37 (2024) (Regular Paper)

occur ambient harmonic steroidal show molecular mode
grow polyimide optical absorption imidic response
generation time vibrational suggest sum month
insignificant

金表面へのヨウ素とアスタチンの吸着における表面ファセット効果

Regular

J. Tanudji *et al.*

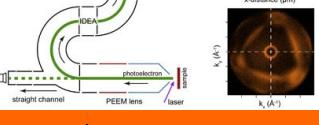
Surface Facet Effect on the Adsorption of Iodine and Astatine on Gold Surface

Vol. 22, Iss. 1, pp. 38-45 (2024) (Regular Paper)

see strong experimental geometric adsorption nucleus
necessity compare first find 4f astatine surface atomic
effect electron make element functional for diffuse gold au represent center
valence iodine dominant spin base future

真空紫外レーザーを用いた光電子顕微鏡装置の開発

Technical



K. Yaji and S. Tsuda

Development of a Photoemission Microscopy Apparatus Using a Vacuum Ultraviolet Laser

Vol. 22, Iss. 1, pp. 46-52 (2024) (Regular Paper)

grid available demonstrate nm sample performance
national electronic real spatial science
doublephotoionization space filter silver
band spectroscopy pattern combine filter realize report show apparatus
photoelectron realize report show apparatus

コンビネーションコーティング法による超親水性低屈折率SiO₂光学薄膜の作製

Proceeding

M. Ito *et al.*Super Hydrophilic Low Refractive Index SiO₂ Optical Thin Films Deposited by Using a Combination Coating Method

Vol. 22, Iss. 1, pp. 53-57 (2024) (Regular Paper)

surface direct evaluate increase hydrophilicity
refractive hydrophilic thin high coating
process method angle deposit deposition
particle year beam film use low contact columnar result

MFIG—マスフィルタードイオンゲージ

Proceeding

H. Bekman *et al.*

MFIG - A Mass Filtered Ion Gauge

Vol. 22, Iss. 1, pp. 58-73 (2024) (Regular Paper)

filter low state alert evaluate improve organic last
sensitivity sensitive sensor additional modeling
control robust analyzer gauge fast mass art detect
vacuum contamination high entire spec
compound residual system time volatile unique
residual system time volatile unique

ボウタイ型ナノグラフェンのDFTによる研究

Proceeding

R. Iida *et al.*

DFT Study of Bowtie Shaped Nanographene

Vol. 22, Iss. 1, pp. 74-78 (2024) (Regular Paper)

boron shape homographic localize tetramer
fundamental equal state electronic level spintronic
bowtie nitrogen gobeletriangulene use density
theory analyze ferromagnetic

J-PARC COMETプロジェクト用3Dプリントビームウインドウ

Proceeding

H. Shidara *et al.*

3D-Printed Beam Window for J-PARC COMET Project

Vol. 22, Iss. 1, pp. 79-85 (2024) (Regular Paper)

additive concave pass per to shape hard
range dome beam window
pressurize develop employ av tailor made robustly
particle key isotropic mpa withstand high thin fabricate separate
alloy titanium conventional radius
alloy

Analyzed by User Local text mining tool
(https://textmining.userlocal.jp/)