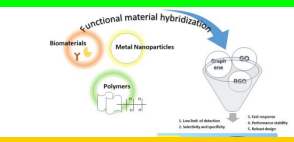
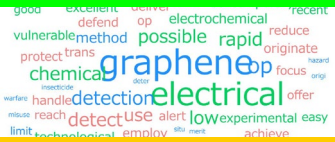
VOL. 21, ISS. 4 (2023)
Focus on e-JSSNT
NO. 187
OCTOBER 2023

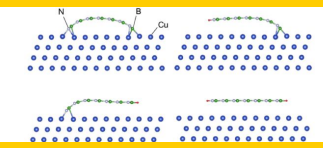
グラフェンベースの有機リン化合物用センシング材料の方法論 — Review



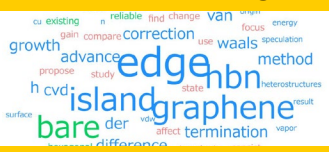
A. I. Kamisan *et al.*
Methodologies of Graphene-based Sensing Material for Organophosphorus Compound
Vol. 21, Iss. 4, pp. 241-250 (2023) (Review Paper)



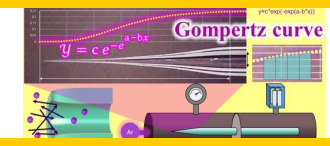
グラフェン/hBNヘテロ構造におけるCVD成長方向の違いの起源に関する理論的研究 — Regular



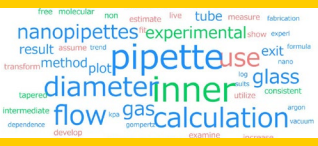
H. Kageshima, S. Wang, H. Hibino
Theoretical Study on Origin of CVD Growth Direction Difference in Graphene/hBN Heterostructures
Vol. 21, Iss. 4, pp. 251-256 (2023) (Regular Paper)



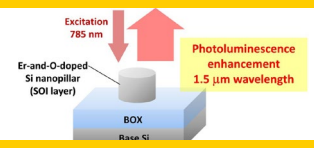
マイクロ・ナノピペットを通るアルゴンガスの流れ — Regular



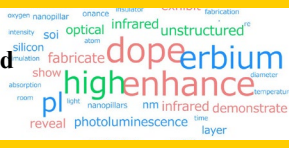
T. Takami *et al.*
Argon Gas Flow Through Micro- and Nano-pipettes
Vol. 21, Iss. 4, pp. 257-261 (2023) (Regular Paper)



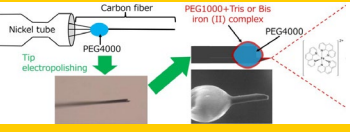
SOI層にナノピラーを作製することによるエルビウム添加シリコンからの室温フォトルミネッセンスの向上 — Regular



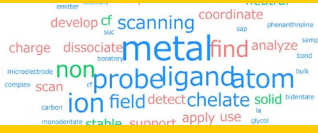
Y. Takahashi *et al.*
Enhancing Room-temperature Photoluminescence from Erbium-doped Silicon by Fabricating Nanopillars in a Silicon-on-Insulator Layer
Vol. 21, Iss. 4, pp. 262-266 (2023) (Regular Paper)



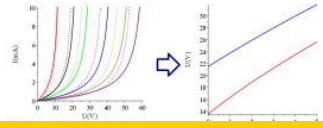
金属キレート化合物の走査型アトムプローブ分析 — Regular



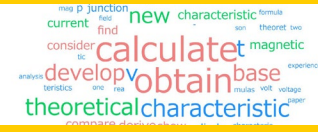
Y. Yamauchi, M. Taniguchi
Scanning Atom Probe Analysis of Metal Chelate Compound
Vol. 21, Iss. 4, pp. 267-272 (2023) (Regular Paper)



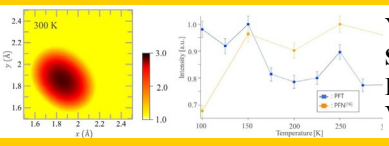
磁場中での pn 接合の電圧変化 — Regular



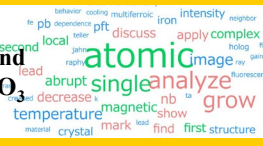
G. Gulyamov, F. Mukhitdinova, G. Majidova
Changing the Voltage of the p-n Junction in a Magnetic Field
Vol. 21, Iss. 4, pp. 273-277 (2023) (Regular Paper)



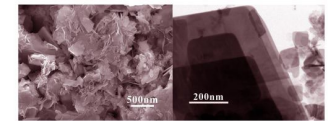
マルチフェロイック材料のフラックス法による単結晶育成と蛍光X線ホログラフィーを用いた局所構造解析



Y. Inoue *et al.*
Single Crystal Growth with Flux Method and Local Structure Analysis around Fe Using X-ray Fluorescence Holography for Multiferroic $Pb(Fe_{1/2}Ta_{1/2})O_3$
Vol. 21, Iss. 4, pp. 278-283 (2023) (Regular Paper)

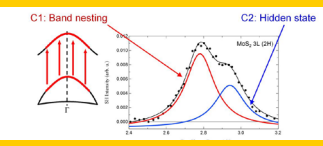


優れた電気化学的性能を備えたBi-Pr-O複合ナノフレークの合成 — Regular



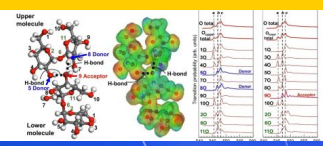
X. Wang, Z. Sun, J. Zhou, J. Huang, L. Pei
Synthesis of Bi-Pr-O Composite Nanoflakes with Good Electrochemical Performance
Vol. 21, Iss. 4, pp. 284-291 (2023) (Regular Paper)

少数層MoS_2の第二高調波発生分光で観測されたC励起子の隠れた状態 — Regular

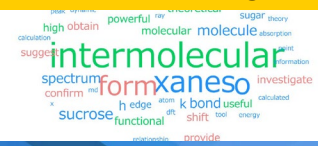


Y. Hirata, S. Ohno, T. Suzuki, Y. Miyauchi
Hidden State at C Exciton Observed by Second-Harmonic Generation Spectroscopy of Few-layer MoS_2
Vol. 21, Iss. 4, pp. 292-299 (2023) (Regular Paper)

糖のXANES分析のためのスクロース分子の水素結合のDFT計算 — Regular

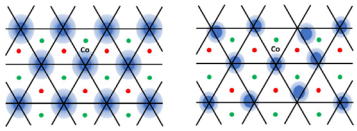


K. Hiramatsu, K. Maee, Y. Muramatsu
DFT Calculations of Hydrogen Bonds in Sucrose Molecules for XANES Analysis of Sugars
Vol. 21, Iss. 4, pp. 300-304 (2023) (Regular Paper)

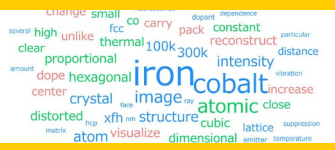


VOL. 21, ISS. 4 (2023) Focus on e-JSSNT NO. 187 OCTOBER 2023

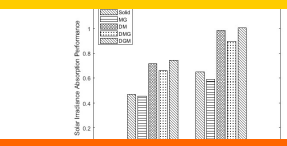
蛍光X線ホログラフィーによる$Fe_{0.08}Co_{0.92}$の局所構造の研究 — Regular



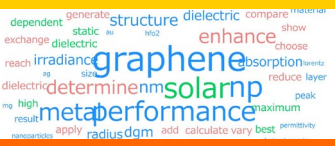
Y. Fukui *et al.*
Local Structures of $Fe_{0.08}Co_{0.92}$ Studied by X-ray Fluorescence Holography
Vol. 21, Iss. 4, pp. 305-309 (2023) (Regular Paper)



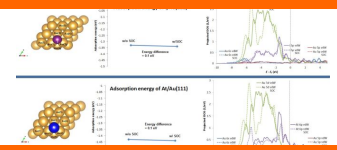
グラフェンで被覆した球状多層ナノ粒子の日射吸収性能 — Regular



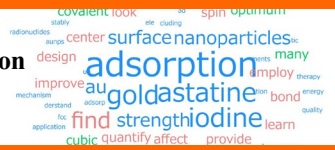
Fitriyadi, A. Azwar, F. A. Noor
Solar Irradiance Absorption Performance of a Spherical Multilayered Nanoparticle Coated with Graphene
Vol. 21, Iss. 4, pp. 310-317 (2023) (Regular Paper)



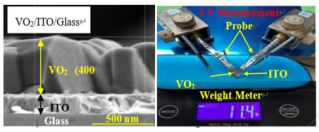
Au(111)表面へのヨウ素とアスタチンの吸着に関する理論的比較研究 — Proceeding



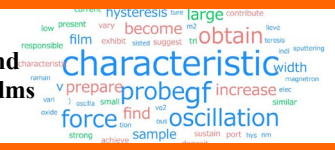
J. Tanudji, S. M. Aspera, H. Kasai
Theoretical Comparison Study of Iodine and Astatine Adsorption on Au(111) Surface
Vol. 21, Iss. 4, pp. 318-323 (2023) (Proceeding Paper)



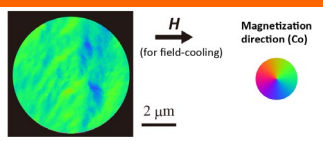
二酸化バナジウム薄膜における電圧誘起スイッチング挙動と自己持続的電気振動の関係に関する研究 — Proceeding



L. Hoque, Md. S. Mian, K. Okimura, T. Nakanishi
Study on Relation Between Voltage-induced Switching Behavior and Self-sustained Electrical Oscillations in Vanadium Dioxide Thin Films
Vol. 21, Iss. 4, pp. 324-330 (2023) (Proceeding Paper)

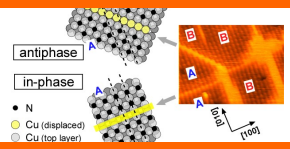


光電子顕微鏡によるFeMn/Coヘテロ構造の交換バイアス効果の可視化 — Proceeding

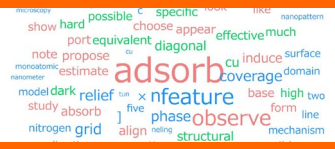


T. Ohkochi *et al.*
Visualization of the Exchange Bias Effect in an FeMn/Co Heterostructure via Photoemission Electron Microscopy
Vol. 21, Iss. 4, pp. 331-336 (2023) (Proceeding Paper)

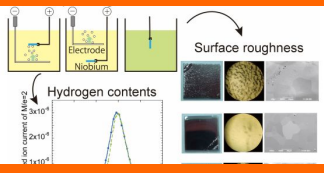
Cu(001)への窒素吸着： 応力緩和のメカニズムと2つのドメインの共存 — Proceeding



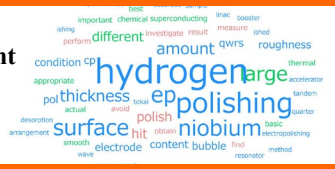
M. Yamada, K. Nakatsuji, F. Komori
Nitrogen Adsorption on Cu(001): Mechanisms of Stress Relief and Coexistence of Two Domains
Vol. 21, Iss. 4, pp. 337-343 (2023) (Proceeding Paper)



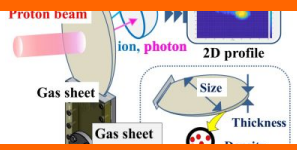
原子力機構東海タンデム加速器の超伝導QWRの性能回復のための研磨条件の違いによるニオブ表面粗さと水素含有量の検討 — Proceeding



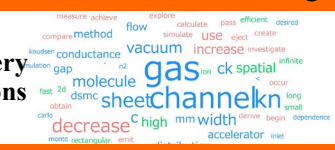
J. Kamiya *et al.*
Investigation of Niobium Surface Roughness and Hydrogen Content with Different Polishing Conditions for Performance Recovery of Superconducting QWRs in JAEA Tokai-Tandem Accelerator
Vol. 21, Iss. 4, pp. 344-349 (2023) (Proceeding Paper)



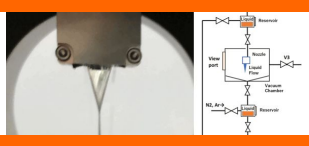
ギャップ対幅比が非常に小さい長方形チャネルを通る希薄ガス流： 実験とDSMC計算 — Proceeding



N. Ogiwara, Y. Hori, H. Yoshida, K. Arai
Rarefied Gas Flow through Long Rectangular Channel with Very Small Gap-to-Width Ratio: Experiments and DSMC Calculations
Vol. 21, Iss. 4, pp. 350-358 (2023) (Proceeding Paper)

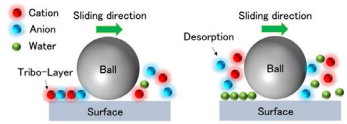


真空状態における液体ターゲットの特性評価 — Proceeding



K. Yamamoto, N. Ogiwara, M. Kuramochi
Characterization of Liquid Targets in Vacuum Condition
Vol. 21, Iss. 4, pp. 359-364 (2023) (Proceeding Paper)

イオン液体の潤滑特性に及ぼす相対湿度の影響 — Proceeding



S. Kawada *et al.*
Effects of Relative Humidity on Lubricating Properties of Ionic Liquids
Vol. 21, Iss. 4, pp. 365-372 (2023) (Proceeding Paper)