

九州大学大学院

総合理工学報告

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INTERDCSIPLINARY GRADUATE SCHOOL OF ENGINEERING SCIENCES
KYUSYU UNIVERSITY, Kasuga 816-8580, JAPAN

博士論文リスト

【平成 28 年度】

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- Ahmed Lotfy Elrefai A Novel Method for Integrated Magnetometer and Gradiometer Fluxgate Sensor Fabrication and Application of Fluxgate Gradiometer in Fine Magnetic Particles Detection
- 奇 龍 鎬 Improvement in Electrochemical Properties of NASICON-type Electrode Active Materials for Li-ion Battery
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- 大 畠 雄 三 二次電池用負極材における炭素ナノ空間の効用
- 赤 嶺 大 志 Microstructures characterization for ferromagnetic CoPt alloy by electron microscopy and numerical calculations
- 伊 藤 孝 矩 面心立方晶系耐熱合金の高温強度と微細組織に関する研究
- 加 呂 光 基本波型直交フラックスゲートの生体磁気計測への応用に関する研究
- 金 斗 元 Structural and functional controls of artificial carbon materials based on domain structure model
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- 儀 間 弘 樹 Study on Production of n-Type Ultrananocrystalline Diamond Films Prepared by Coaxial Arc Plasma Deposition
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- 梅 津 智 イノラートの生成および新規炭素炭素結合形成反応に関する研究
- 胡 皓 Application of Pullulan as a Standard Polymer for Ionic Liquid Solutions.
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- 徐 哲 Study on the Viscoelastic Properties of Cellulose in Dilute Ionic Liquid Solutions
- Muhammad Hilmi Bin Jalil Development and characterization of orthopedic polymer implants using three dimensional printing technology
- 佐 藤 洸 電気光学ポリマーを用いた高性能光変調器に関する研究
- 中 牟 田 侑 昌 複合型コラーゲン足場材料内での間葉系幹細胞の増殖分化制御による軟骨様人工組織の構築に関する研究

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- 王 喜風 Research on Waveform Data of Radar Satellite Altimeters
- 李 根淙 A role of vertical mixing on nutrient supply into the subsurface chlorophyll maximum in the East China Sea
- 韓 修妍 Statistical and dynamical consistency of ocean current through the East Asian straits
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- Qi Shi-Chao Theoretical and Experimental Approach to Hydrogenolysis and Hydrogenation of Lignin and Catalyst Design
- 丁 冬 Studies on CVD Growth of Single-Crystal Graphene on Cu Foil
- Adha Sukma Aji Synthesis and Applications of Heterostructures of Two-Dimensional Materials
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- 檜崎 優 Synthesis and Properties of Chiral Binaphthyl Dopants for Application to Helical Liquid Crystals
- 古谷 優樹 Detailed Chemical Kinetic Modeling of Primary and Secondary Pyrolyses of Lignin
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RUAN HONGCHENG Development of catalytic combustion-type monitoring devices of diesel particulate matter

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- 道端 拓朗 Development of a novel scheme for cloud and precipitation in a global aerosol-climate model with satellite observations
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修士論文リスト

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- 石坂 直之 光硬化性樹脂を用いたメソポーラス体と透明焼結シリカガラスの作製に関する研究
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- 井上 翔太郎 メカニカルミリング法による硫酸ポリアニオン系正極の合成および Li イオン電池特性
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- 梅田 貫志 回転下でのスピン軌道相互作用を持つボーズ・アインシュタイン凝縮体の多重渦・渦格子形成
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- 岡部 俊亮 磁気コアを内蔵する検出コイルとそれに直交配置された励磁コイルを持つ薄型金属異物検出機
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- 川原 拓也 高圧領域におけるトムソン散乱計測とプローブ計測の比較
- 神崎 天心 弱アンカリング効果を示す高分子/液晶界面の創製
- 岸本 紘宗 スパッタリング法による窒素ドーブ FeSi₂ 薄膜の作製とその電気特性
- 北野 拓也 アクティブ MMI LD(Multi-Mode Interferometer Laser Diode)の高速直接変調動作に関する研究
- 木下 博貴 CVD 成長した二層グラフェンへのインターカレーションと透明導電膜への応用
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- 小松 鈴奈 IVR デバイス用 Ti-Ni 超弾性合金の機械的特性と相変態
- 小村 拓也 高分子ドーブ型 pn 接合ダイオードの整流特性
- 後藤 希 セルロース系資源の熱分解・揮発成分 in-situ 接触改質による有用化合物製造
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- 高出 勇海 電解酸化析出法によるナノ層状金属酸化物薄膜の自己組織合成
- 武田 憲洋 非粘結炭コークス特性に及ぼす熱間圧密処理条件の影響
- 織田 知輝 高性能メタル・ソース/ドレイン Ge-MOSFET の開発
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物質理工学専攻

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- 川端 将真 鉄及びコバルトイソシアニド触媒による官能基を有するアルケンのヒドロシリル化反応
- 河本 ひとみ 植物に対する重力屈性阻害作用を示す共役ジエンカルボン酸の構造活性相関
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- 久間 大平 Cu-Mn 複合酸化物の CO 酸化特性に関する研究
- 高口 健司 CT-FEM と光造形型 3D プリンティングによる骨再生用インプラントの開発
- 幸松 波也斗 航空機用チタン合金の組織制御による高強度化
- 古賀 太地 嵩高基を有する電気光学 (EO)色素の合成と電気光学特性
- 斉藤 亮二 単斜晶系酸化物 $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}$ の応力発光性能評価とその向上機構
- 重松 和樹 キラルアルコキシシランの立体選択的求核置換反応
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- 高山 朝大 ポリオール法を用いた Pt 系二元金属担持触媒の開発
- 高山 真緒 Pd/ペロブスカイト型酸化物複合担持触媒の接触燃焼式 MEMS ガスセンサへの応用
- 竹内 将吾 フィスゲン反応を用いたサイドチェーン型電気光学ポリマーの合成と電気光学特性
- 田中 嵩人 ビスマスやアンチモンを添加した Sn-Cu 系はんだ合金の力学特性
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- 濱邊 竜太 層状ペロブスカイト $\text{Sr}_3\text{Sn}_2\text{O}_7:\text{Sm}^{3+}$ の応力発光特性向上機構
- 藤田 龍郎 乳がん細胞 4T1 が分泌する免疫抑制因子の解析
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- 牧野 絵莉子 イオン液体溶液中の絹フィブリンの粘弾性
- 丸山 直人 分子鋳型電極を用いたアミノ酸簡易認識センサーの開発
- 榎井 孝平 混合導電性 $\text{Ba}_{0.95}\text{La}_{0.05}\text{FeO}_{3.8}$ 酸素分離膜における酸素放出層の設計
- 山田 亮太 真空樹脂含浸製造法による炭素繊維強化複合材料の作製及び物性評価
- 山本 勇磨 ハイパーブランチポリスチレンアンモニウム塩を担体として用いた白金ナノ粒子触媒による高効率的、高選択的な芳香族ニトロ化合物の水素化反応
- 吉岡 由香梨 動的な面不斉を有するアザ[7]シクロフェン類の合成と立体化学挙動に関する研究
- 吉川 駿一 Al-Mg-Si 系合金で見出される不規則な応力振動の発現機構
- 安西 宇宙 単結晶金属酸化物ナノワイヤにおける本質的な電子輸送起源の解明
- 江川 雄亮 アノードレイヤー型ホールスラストの磁場形状及び陽極形状依存性の評価
- 孫 軍 重力屈性阻害作用を示すシス桂皮酸誘導体の構造活性相関研究

吉永 達郎 イノラート-アライン 3 連続環化付加反応による置換トリプチセンの合成と変換

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- 阿部 哲 Numerical Simulation on Turbulent Structural Formation with Neutral Particle Profiles in Magnetized Cylindrical Plasma
- 飯島 健介 ON/OFF 制御による推力可変イオンスラストの開発
- 一ノ瀬 紘佑 3D プリンタを用いて製造したシンチレータの応用に関する研究
- 市丸 智裕 Voltage waveform dependences on thrust performances in a Hall thruster
- 植田 侑吾 Y 添加バリウムセレート(BaCeO₃)の導電性と耐久性
- 上野 文輔 Development of Liquid Propellant Miniature Microwave Discharge Thruster
- 江藤 健太 Development of tomography algorithms based on least squares method using penalty functions.
- 大坪 哲也 口腔癌細胞に対する大気圧空気プラズマの影響
- 大和田 裕晃 QUEST における発光強度上下非対象性観測
- 神崎 智継 Change in Reynolds Stress Induced by End-Plate Biasing in PANTA
- 北島 瑞希 102 MeV 重陽子入射中性子・ガンマ線生成二微分断面積の測定
- 近藤 和博 プロトタイプミュオグラフィ検出器の性能検証と実証試験に関する研究
- 後藤 健吾 純鉄の水素透過挙動に及ぼすショットピーニングの影響
- 坂井 靖広 Sterilization Characteristics and Material Compatibility of Dental Sterilizer using RF Oxygen Plasma
- 三仙 幸将 多重箔放射化法による中性子収量解析へのニューラルネットワークの適用
- 田熊 啓人 PANTA における軸方向プラズマ流れの形成
- 竹志田 憧太 量子カスケードレーザーと CO₂ レーザーを使った二波長干渉計の開発
- 垂水 智哉 Evaluation of spatial correlations of fluctuations in PANTA
- 都留 拓也 原子炉圧力容器鋼における照射脆化の Cu,Ni 添加効果
- 中野 陸 遺伝子解析を用いたプラズマ中の活性種照射による植物の成長促進効果に関する研究
- 永田 浩章 CsI(Tl)シンチレータ利用型ガンマ線電池の開発
- 西海 亮佑 フッ化物溶融塩ブランケット材料の水素同位体透過挙動に関する研究
- 西谷 勁太 レーザー駆動多価重イオン制御に向けたイオン計測システムの開発
- 野口 瑞貴 水素プラズマスパッタ法による W 堆積層形成と水素同位体捕捉に関する研究
- 挾間田 一誠 Multi Time Scale Fluctuation in PANTA
- 福原 義剛 大気圧空気プラズマと紫外光から生成される活性酸素種による抗酸化活性の向上および農作物の鮮度保持
- 松井 庸佑 Comparison of Nonlinear Saturation with Drift-wave Instability in Magnetized Cylindrical Plasma
- 眞弓 尚大 大気圧プラズマによる大腸菌と酵母菌の不活化機序
- 三浦 智之 レーザー生成プラズマの制御を目的とした磁場発生手法の確立
- 湊 良祐 Development of Microwave Frequency Comb Doppler Reflectometer in PANTA
- 山崎 勇臣 Li から Y への水素同位体の移行挙動の把握および移行理論の検討

- 山田 拓也 低圧高周波酸素酸素プラズマを用いた難分解性タンパク質の分解メカニズム
- 山本 遼太郎 Li 添加型 Li_2TiO_3 からの Li 質量移行
- 渡辺 哲史 Mechanism of Growth Enhancement of Plants Induced by Active Species in Plasmas
- 枝本 雅史 Effect of plasma initial conditions and magnetic field on a plasma behavior in a magnetic thrust chamber
- 中野 敬太 Cross section measurement of isotope production in proton- and deuteron-induced reactions on ^{93}Nb using the inverse kinematics method
- 中野 陸 遺伝子解析を用いたプラズマ中の活性種照射による植物の成長促進効果に関する研究
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- 新垣 創 HFO 系冷媒を含む低 GWP2 成分混合冷媒ヒートポンプサイクルの性能評価に関する実験的研究
- 荒金 大河 長距離管路における弱い衝撃波の非線形伝播特性
- 稲田 龍 燃料への水添加と雰囲気中の酸素濃度が燃料噴霧の着火性に及ぼす影響の定量評価
- 今林 浩平 実験および数値解析による圧縮性希薄気体流れにおける粒子の抗力係数評価
- 今村 彰 蛍光油膜法による遷音速・超音速流れにおける摩擦応力ベクトル分布の計測技術開発
- 牛嶋 克也 液化石油系ガスを燃料とする筒内直噴式エンジンにおける燃焼特性の解明
- 大西 直哉 2 次元後流の拡散に壁面乱流が及ぼす影響に関する風洞模型実験
- 笠木 伸吾 電子機器の強制流動沸騰冷却に関する実験的研究
- 神原 秀仁 矩形先細ノズルから発生する超音速マイクロ噴流の現象解明
- 古賀 智大 大型ガスエンジンにおける希薄予混合燃焼の数値予測手法の改良
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- 田原 一成 ラバルノズルから発生する Transonic tone の音響低減法に関する研究
- 手嶋 健一郎 低 GWP 冷媒の水平円管上自由対流凝縮に関する実験的研究
- 中本 大志朗 大域的最適化を利用した吸着速度解析手法の確立
- 蓮子 仁内 乱流都市境界層内の平均流構造が乱流統計量に及ぼす影響に関する実験的研究
- 付 旭潔 Study on Adsorption Cooling Cycle with Carbon Dioxide - Spherical Activated Carbon pair
- 益田 悠平 数値シミュレーションによる超音速混合促進装置の最適化
- 松尾 拓哉 長い管路内を伝播する圧力波背後に誘起される非定常境界層の特性
- 松澤 遼 進化ゲーム理論に基づく協調行動の創発メカニズムに関する研究
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- 山根 大 低温熱回収オーガニックランキンサイクルのサイクル性能解析による最適作動媒体探索
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 王 浩宇 Estimation of Ocean Thermal Energy around Kumejima Island
 久米島周辺における海洋温度差エネルギーの推計
 太田 晃平 衛星・地上型アクティブセンサの複合利用による北極域の雲特性の解析
 神崎 真人 有明海に流出した河川水の諫早湾内への流入と滞留特性
 甲原 僚子 河川プルームのバルジ成長率における河口形状に対する依存性
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 鈴 康平 プラズマディタッチメントの計算機シミュレーション
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 鳥越 雄太郎 A study on Micro hydraulic Turbines for Irrigation Canal
 中川 拓弥 風応力作用下における開水路乱流場の直接数値シミュレーション
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 西村 仁宏 Analysis of magnetohydrodynamic turbulence in space using data obtained by multi-spacecraft measurement
 多点観測データによる宇宙プラズマ乱流解析
 野上 翼 LES シミュレーションによる渦拡散係数推定式の導出
 幅 良太 地球磁気圏尾部領域における電子の異方性分布生成
 藤川 雅大 多視野角・多重散乱偏光ライダを用いた雲鉛直構造の解析
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 的場 健人 回転磁場型によるプラズマ推進機関のシミュレーション
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 山本 悠真 バルーンを用いた沿岸海洋の赤外リモートセンシング -スタンドアローン化の試み-
 横尾 健太郎 局所風以外の要因で生じる台湾海峡通過流量について
 吉田 恭輔 長崎県五島列島における潮流エネルギー賦存量の推定

- 吉水 勇人 ダウンウィンド風車におけるブレードとタワーの空力干渉
 李 梓原 GNSS-R 手法による海面計測に関する研究
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- 朝日 健太 パーライト鋼の伸線加工および熱処理に伴うナノ組織変化の電子顕微鏡観察
 Yi Hyeonseok 高圧物理賦活法による活性炭の細孔構造への影響
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 小川名 太一 フラクタルポテンシャルに散乱された量子力学的波動の透過率とそのマルチフラクタル性
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 於保 拓海 高分子多孔膜を用いた交流駆動電気浸透流ポンプにおける塩水溶液の送液特性
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 椎葉 俊明 遷移金属ダイカルコゲナイドの合成技術の開発と光・電子デバイス応用
 工藤 和樹 スピンバルブ素子によるナノダイヤモンド膜中の室温スピン伝搬
 久保山 真 フォトクロミック金属酸化膜のプラズマによる作製とその構造解析
 小島 信一郎 AXUV を用いた高周波プラズマの計測
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- 小柳 知穂 遷移金属ダイカルコゲナイドの CVD 成長とカーボンナノチューブとの p-n 接合
- 近藤 政孝 収差補正走査透過電子顕微鏡を用いた Nd-Fe-B 系磁石の微細構造解析
- 坂口 大成 メタル・ソース/ドレイン型 Ge-CMOS の高性能化に関する研究
- 坂本 遼 水系 s ブロックイオン電池の電池特性と高濃度水系電解液の局所構造解析
- 沢村 和哉 ドープ型有機デバイスのための狭ギャップヘテロ電極作製技術
- 吉 夢然 Studies on the Decomposition of Tin Debris by Using Hydrogen Plasmas
- 塩塚 研太 犠牲塩を添加混合したバナジウム酸化物の正極特性
- 城下 和也 高極性液晶における強誘電的分子配向の形成メカニズム
- 末永 健志朗 MoS₂ 原子膜の成長制御と面内ヘテロ構造体への展開
- 高橋 里奈 高品質立方晶窒化ホウ素膜を用いた高効率電子エミッタの開発
- 田中 健太郎 ULSI のチップ内光配線に向けた Ge 光素子の開発
- 蝶野 弘臣 2 成分 Bose-Einstein 凝縮体の重力不安定性
- 築山 晶一 EUV 及び軟 X 線波長領域の光源用プラズマの計測手法開発
- 寺尾 友里 半導体応用を目指した二層グラフェンの CVD 成長と積層構造の制御
- 永田 昂輝 CML モデルを用いた一方向凝固のシミュレーション
- 中本 零 バイオチャーを被酸化材とする水電解
- 西川 尚史 ナノ微結晶ダイヤモンド/水素化アモルファスカーボン混相膜における少数キャリア寿命に関する研究
- 野上 智宏 高純度 Fe および Si 単体ターゲットを用いた同時スパッタ堆積による β -FeSi₂ 膜の作製に関する研究
- 長谷崎 愛 転位観察のための磁場フリー電子線トモグラフィー観察手法の開発
- 濱田 真伍 液晶性無機ナノシートの等方性水分散液における巨大 Kerr 効果
- 藤井 亮成 Na イオン電池用縮合フルオレノン類の電気化学特性
- 本田 衿子 リグニンのアルカリ水熱分解によるフェノール類の製造
- 増田 昂浩 高分子安定化液晶ブルー相の電気光学特性の格子配向および高分子凝集構造依存性
- 増田 幸信 IGZO を用いたフラットパネルデバイスの設計, 開発及び駆動評価
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- 松崎 彰剛 酸化物/TiN コアシェル構造ナノ粒子の合成と高速焼結によるナノコンポジットの熱電特性
- 松田 修兵 Ru 含有 β -パイロクロア型酸化物の合成と熱・電気輸送特性
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- 峯 一貴 金属ナノ粒子を導入した Al ドープ ZnO ナノコンポジットの合成と熱電特性
- 村山 真一 高速回転 PLD 法により作製した希土類ナノコンポジット厚膜磁石の微細構造解析
- 森田 優斗 モード多重伝送用光集積回路モジュールに関する研究
- 安河内 茜 バルクヘテロ接合型太陽電池への pn ドーピング
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- 吉岡 勇登 ナトリウムイオン電池用 NASICON 型 Na₃V₂(PO₄)₃ 正極への異元素置換添加効果
- 吉田 聖 炭素ナノ繊維をテンプレートに用いた SnOx ナノ繊維の調製と二次電池負極材としての応用
- 米田 宗次 ノズル内アークに対する発光観測とトムソン散乱法による電子密度・温度計測

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- 井上 暉英 構造異性ケトン分子群を識別する単結晶酸化亜鉛ナノワイヤの創製と分子認識メカニズムの解明
- 井上 千徳 ハイブリッド シリコン/ポリマー光変調器の光変調特性評価
- 王 超 炭素繊維強化複合材料の接着継手の力学的性能に関する研究
- 大橋 一貴 固体 CH_3OH への真空紫外光照射による CO の気相への放出
- 鎌田 祥平 血管拡張用バルーンカテーテルの変形メカニズムの解明と理論モデルの構築
- 河村 健吾 CT 有限要素法による骨強度解析法の臨床応用
- 河本 拓也 Ce を添加した La-Ni 系ペロブスカイト型酸化物の構造と触媒特性
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- 坂上 弘樹 Zr,Hf を導入した不均一系 Ziegler-Natta 触媒の理論化学的研究
- 嶋崎 雅史 W(112)上鉄薄膜の成長過程における構造
- 白根 聡 メタロセン触媒のオレフィン重合反応メカニズムの解明と新規触媒設計の理論的研究
- 高木 達也 VaRTM 法による炭素繊維複合材の成形と強度評価
- 田中 早紀 AlN 圧電薄膜への Ca 添加の影響
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- 濱田 翔馬 低温プラズマ照射下における Mn 担持触媒のベンゼン分解特性
- 春瀬 祐太 Mg 単原子層におけるトンネル光電子顕微鏡の研究
- 百武 優佑 析出強化型ニッケル基合金の高温変形機構
- 廣津 丈 新規赤色応力発光体 $\text{LiNbO}_3:\text{Pr}^{3+}$ の組成制御による特性向上
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- 森永 達也 Si(111)上の鉄シリサイド超薄膜の構造解析
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- 渡辺 周平 電界誘起ガスエッチングによる電子源の作製と電界放出低速電子回折装置の開発
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- 金子 智也 La-Sr-Co-Fe 系ペロブスカイト型酸化物の熱膨張抑制に関する研究
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- 二宮 翔 軟 X 線吸収分光法とスペクトルシミュレーションによる低炭素鋼時効挙動の検討
- 吉田 祐樹 アルケンの光異性化を基盤とする面不斉中員環分子の合成とその立体化学挙動の研究

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- 宮原 巧 輝尽性蛍光体検出器によるレーザー駆動イオンビーム診断系の開発 –機械学習アルゴリズムによるイオン推定を目指して–
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- 西川 央哲 気液向流充填塔を用いた液体リチウム鉛からの水素同位回収
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- 板谷 佑太郎 協同トムソン散乱による磁気スラストチャンバー中のプラズマ計測
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沖崎 省太	超低周波用防音ハウスにおける ANC を用いた騒音低減に関する研究
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- 上崎 皓貴 気道内熱水分移動解析を考慮した改良人体熱モデル
- 田浦 哲平 鉛直矩形流路内における低 GWP 冷媒 R1234ze(Z)の凝縮熱伝達特性
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- 原田 大 オプティカルフロー法と光学的可視化法を融合した高速流解析技術の開発
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- 屋富祖 晃司 多孔質金属ブロックを利用した高熱伝導性複合吸着剤の開発
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- 涌井 翔太郎 バイオミメティックスを目指したフクロウ翼に関する空力研究

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- 辻田 典弘 東京湾におけるマイクロプラスチックの輸送モデル
- 吉川 大生 深海曳航体システムの旋回性能に関する研究
- 富村 文郎 海中ビークルによる曳航物の挙動解析に関する研究
- 片山 陽太 ガイワイヤ支持した浮体式洋上風車浮体の波浪応答
- 新開 勇星 垂直尾翼が円盤型水中グライダーの運動性能に与える影響についての研究
- 小原 健人 新型浮沈式潮流発電における成立性に関する基礎的研究
- 井上 裕己 有明海における筑後川起源水の流動特性
- 田中 文弥 タレット係留した 2 枚翼浮体式洋上風車の起動時・暴風波浪待機時の動特性
- 香月 のどか レーザー宇宙物理実験における非平衡プラズマによる協同トムソン散乱
- 片山 享 海中ビークルの機体構造に関する解析
- 遠藤 雄大 垂直軸風車の空力弾性解析法
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- 能塚 寛紀 Investigation on Phosphorus Removal from Water Using Nanoscale Zero Valent Iron: Column Experiments
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- 北島 鯉久人 TLP 型洋上浮体のアンカー設置方法に関する研究
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